



**ORANGE COUNTY LANDFILL
NYS ROUTE 17M, TOWN OF GOSHEN, NEW YORK
NYSDEC SITE NO. 336007**

GROUNDWATER RECOVERY WELL PILOT STUDY SUMMARY REPORT

Prepared for:

Orange County Department of Public Works
Division of Environmental Facilities and Services
2455-2459 Route 17M, P.O. Box 637
Town of Goshen, NY 10924

Prepared by:

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September 14, 2017

“Serving our clients and the environment since 1993”

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EXECUTIVE SUMMARY

This report summarizes the pilot study for the groundwater recovery system in the vicinity of Landfill-impacted groundwater seeps (Project Area) along the Cheechunk Canal (referred to as “Project Area”) near the Orange County Landfill Site (Landfill) located in the Town of Goshen, Orange County, New York. The pilot study was implemented to assess the optimal long-term pumping rate and refine operational scenarios to withdraw upgradient groundwater and eliminate the seeps at the Landfill.

Following installation and development of the 6-inch diameter recovery well (RW-17-1), a pilot study was performed on June 15, 2017 and consisted of pumping RW-17-1 while monitoring groundwater levels in the recovery well and adjacent piezometers. These data were evaluated to obtain shallow aquifer information for dewatering design at the Project Area.

Sterling Environmental Engineering, P.C. (STERLING) completed a constant rate well pumping test for RW-17-1 on June 15, 2017. All pumped water was containerized in a storage tank and managed in accordance with protocols established in the New York State Department of Environmental Conservation (NYSDEC) -approved Remedial Action Work Plan (RAWP). The pumping rate was initiated at three (3) gallons per minute (gpm) and the water level in RW-17-1 dewatered quickly, with almost 10.2 feet of drawdown within seven (7) minutes. The pumping rate at RW-17-1 was reduced to 0.5 gpm and maintained a constant pumping rate for nearly three (3) hours; the potentiometric surface decreased 3.23 feet during this period prior to cavitating at 33.67 feet below measuring point. The pumping continued at 0.5 gpm for an additional one (1) hour and 25 minutes with no additional drawdown at which point the pumping of RW-17-1 was terminated.

Observed drawdown at RW-17-1 was 13.53 feet while observed drawdown at the overburden piezometers ranged from (0.16 foot (PZ-14-5) to 0.86 foot (PZ-17-1)). No significant lag effects were observed within the overburden piezometers in the vicinity of the Project Area and water levels from the staff gauge in the Cheechunk Canal were not influenced from onsite pumping activities. The potentiometric surface in RW-17-1 recovered to within 60% of static over 24 minutes and over 98% of static 111.5 minutes after pumping. Water chemistry results for the beginning and end of pumping exhibited no exceedances of Technical and Operational Guidance Series (TOGS) 1.1.1 Ambient Water Quality Standards and were generally consistent, except for higher concentrations of Chemical Oxygen Demand (COD), Total Kjeldahl Nitrogen (TKN), and ammonia at the end of pumping.

The pumping test analysis demonstrates that the glaciolacustrine sand water-bearing unit is low transmissive with similar hydrogeologic properties as summarized in STERLING’s Long Term Seep Evaluation Report (December 2014). The recovery well sustained a pumping rate of 0.5 gpm during the pilot test and produced a drawdown of approximately one (1) foot at a distance of 10 feet from the recovery well. The maximum spacing between additional pumping wells would be approximately 10 feet (or less), resulting in the need for a total of approximately 15 to 20 additional recovery wells with associated pumps, piping, and controls to effectively control groundwater upgradient of the seeps.

STERLING is therefore proposing the use of Horizontal Directional Drilling (HDD) and placement of a horizontal collection pipe to achieve remedial goals as opposed to installation of numerous recovery wells or costly deep trenching on a steel slope as it provides a greater surface area in contact with locally impacted soil or groundwater.

1.0 INTRODUCTION

This document presents an evaluation of the pilot study for the groundwater recovery system for the remediation of Landfill-impacted groundwater seeps along the Cheechunk Canal near the Orange County Landfill Site (Landfill) located in the Town of Goshen, Orange County, New York (Figure 1). The objective of the pilot study was to test the effectiveness of the selected remedy set forth in the Long-Term Seep Elimination Feasibility Study (FS), dated May 15, 2015, and execute Section 3.2.3 of the revised Remedial Action Work Plan (RAWP), dated December 19, 2016. The pilot study was also implemented to assess the optimal long-term pumping rate and refine operational scenarios to withdraw upgradient groundwater and eliminate the seeps at the Landfill.

1.1 Site Description, Setting and Background

The Landfill footprint totals approximately 75-acres and is located approximately three (3) miles west of the Village of Goshen, south of NYS Route 17M. The property is bound by the Cheechunk Canal to the southeast and by the old channel of the Wallkill River to the northwest and southwest. The site location is presented on Figure 1. Property features are presented on the aerial photograph provided as Figure 2.

Investigations completed at the Landfill to date are detailed in the Landfill Seep Evaluation Report, dated April 4, 2014 and the Long-Term Seep Evaluation Report dated December 3, 2014. In addition, Post-Closure Monitoring Reports and Periodic Review Reports were utilized to complete a conceptual model of the Landfill site.

The NYSDEC and Orange County entered into an Order on Consent and Administrative Settlement Index No: A3-0829-14-05 requiring completion of the Long-Term Seep Elimination FS and preparation and implementation of the RAWP. Remedial action objectives developed for the site reflect results of the comprehensive site investigations and applicable regulatory requirements and guidance. The remediation goals for the identified seeps are to eliminate exposures to surface or subsurface soils and groundwater that contain elevated levels of landfill-derived contaminants and restrict migration of contaminants to the environment.

The selected remedy consists of Alternative 4B as described in the FS and NYSDEC-approved RAWP (STERLING, 2016). This alternative consists of impacted soil removal, armoring area of seeps, seep elimination by groundwater collection using upgradient horizontal directional drill (HDD) recovery well, and treatment of the collected water.

The physical characterization, nature and extent of contamination, and contaminant fate and transport have been extensively studied at the unlined Landfill since the early 1980's. The distribution and character of geologic materials, occurrence of groundwater, and overall water quality has been well documented since 1987. The geologic, hydrogeologic, and environmental setting is described in the Cheechunk Canal/Landfill Seep Evaluation Letter Report (STERLING, April 4, 2014) and the Long Term Seep Evaluation Report (STERLING, December 3, 2014).

2.0 GROUNDWATER RECOVERY SYSTEM PILOT TEST

STERLING field personnel recorded soil and groundwater conditions during field activities to evaluate potential dewatering impediments. One 6-inch inside diameter (I.D.) pumping well (RW-17-1) and two (2) 1¼-inch I.D. observation wells (PZ-17-1 and PZ-17-2) were installed at a location within the vicinity of the future groundwater collection system. Geologic and hydrogeologic information was recorded as

each boring/piezometer/recovery well was advanced into the glaciolacustrine sand unit. After completion, the new piezometers and recovery well were developed to ensure proper communication with water-bearing zones of the glaciolacustrine sand unit. The recovery well was screened from the top of the potentiometric surface to allow simultaneous pumping of all water-bearing units during the pilot study pumping test. Groundwater elevation data was collected for groundwater collection design requirements.

Following installation of the recovery well, a pilot study was performed consisting of pumping the well while monitoring groundwater levels in the recovery well and adjacent piezometers. These data were evaluated to select an appropriate pumping rate, assess the radius of influence from pumping at the selected rate, and determine the effectiveness of using a recovery well(s).

The tasks for the pilot study included:

- Installation of two (2) additional overburden piezometers;
- Installation of “pilot” recovery well;
- Well development;
- Recovery well evaluation; and,
- Waste management.

2.1 Additional Overburden Piezometer Installation

On June 12 and 13, 2017, two (2) temporary piezometers (PZ-17-1 and PZ-17-2) were installed between the Landfill’s perimeter access road and the seeps near the Cheechunk Canal bank to better understand the subsurface hydrogeology between the limits of waste and the seeps (Figures 3 and 4). The piezometers PZ-17-1 and PZ-17-2 were installed five (5) feet west-southwest of recovery well RW-17-1 and 10 feet east-northeast of RW-17-1 respectively, to assist in the determination of radius of influence (ROI) during pumping and provide additional data to support dewatering design. Pilot study recovery well (RW-17-1) was installed 4.75 feet south-southeast of PZ-14-3 (Figure 3).

The borings were drilled using a track-mounted 3¼-inch I.D. CME-850 hollow stem auger (HSA) drill rig to a depth sufficient to encounter the upper portion of the glaciolacustrine sand aquifer, which underlies the Cheechunk Canal (Figure 4). At each location, soil samples were collected on a continuous basis from ground surface to termination depth using two a (2) -inch outside diameter (O.D.) split spoon. Each borehole was logged to confirm and further refine the local model of the critical site stratigraphy as it relates to the Landfill and the Cheechunk Canal.

Upon completion of sampling, two (2) boreholes were converted into a 1¼-inch I.D. temporary piezometer (PZ-17-1 and PZ-17-2) with a 10 foot long section of 0.01-inch (10 slot) machine slotted PVC well (Appendix A). The screened interval for each new piezometer was set at 20 to 30 feet below ground surface (bgs). The ground surface elevation, stickup height, measuring point elevation, screened interval, total depth, and critical geologic contact information for borings completed in the Project Area are provided in Table 1. As detailed in Table 1, the total depths for the overburden piezometers in the Project Area ranged from 28.91 feet bgs at PZ-14-4 to 39.5 feet bgs at PZ-14-1. The screened intervals for the 2014 and 2017 overburden piezometers were set in the uppermost portion of the overburden hydrogeologic unit (glaciolacustrine fine sand).

The elevation for the top of the piezometer casings (measuring points) were surveyed by Orange County personnel to allow for direct comparison of groundwater levels routinely measured at the Landfill, as well as the pilot study's pumping test. The apparent elevations of the Canal bank seeps downgradient from the piezometers, as well as the water level of the Canal, were also measured and recorded.

2.2 Recovery Well Installation (Pilot Study)

Subsurface drilling equipment was decontaminated prior to drilling and following completion of recovery well RW-17-1. Water used for decontaminating equipment was from a potable water source. A temporary decontamination pad was constructed by Cascade Environmental Drilling Services (Cascade) to contain wash water. Water used to decontaminate drilling equipment was drummed and sampled. Although not contaminated, the decontamination water drums were managed as Landfill leachate.

The recovery well location was accessed via the existing Landfill perimeter road. A pilot boring was advanced via 8¼-inch I.D., 12-inch O.D. Hollow Stem Auger (HSA) drilling methods using a track-mounted CME-850. The recovery well was extended to a depth of 35 feet bgs.

Upon achieving the final depth, a 6-inch I.D. recovery well was installed within the boring. The recovery well was constructed of a 5-foot long, 6-inch I.D. solid sump, 6-inch I.D. screen section, and a 6-inch I.D. riser pipe extending to the ground surface. The recovery well was equipped with No. 10 slot well screen set at 20 to 30 feet bgs (Appendix A). The annular space around the sump and well screen were filled with #0 filter sand extending to at least 2 feet above the top of the well screen, followed by a minimum 3-foot bentonite seal. The remaining annular space above the bentonite was backfilled with cement-bentonite grout. The recovery well was completed with an 8-inch I.D. steel protective casing.

The recovery well(s) was equipped with a two phase submersible pump (Grundfos Model 10 SQ-110), flow meter (GPI Electronic Water Meter: Model #01N31GM), water level pressure transducer (In-situ Level Troll 700) and pump controller. The pump controller was capable of adjusting the drawdown level in the well. Groundwater discharged from the recovery well was conveyed to a temporary holding tank (ALRM - 277 Series; capacity 8,816.3 gallons) during the pilot study. The initial pumping test and aquifer characterization performed during the pilot study focused on determination of anticipated groundwater pumping rates and the volume of water to be dewatered as a remedial measure.

2.3 Well Development

Well development was conducted for the new piezometers and recovery well after installation to remove sediment introduced or created during drilling and to allow formation water to flow freely into the well screen. Well development was continued until recorded turbidity readings were less than 50 NTUs or until the turbidity readings stabilized. All development water was contained and properly managed. For water removed during well development, water quality parameters and visual observations were recorded on well development logs (provided as Appendix N).

2.4 Pumping Test Program

The purpose of the well pumping and aquifer recovery test was to obtain shallow aquifer information for dewatering design at the Project Area. The phased scope of work included, 1) site inspection and well development; 2) background monitoring of existing piezometers, newly-installed piezometers and recovery well; 3) performing constant discharge pumping and recovery tests on 6-inch diameter recovery well (RW-17-1), calculating available drawdown, total saturated thickness, well yield, percent recovery, aquifer transmissivity and hydraulic conductivity; and, 4) preparing this summary report for dewatering

design.

Based on the results of the 2014 investigation, historic Post-Closure Monitoring (PCM), staff gauge and local groundwater inspection (Appendix B) and 2017 drilling, well development, and groundwater level measurements, STERLING determined the framework for the duration, magnitude, and design of the focused aquifer pumping test program. A short-term pumping test was determined sufficient to allow evaluation of hydraulic parameters and meet project objectives. The short-term pumping test(s) was conducted on recovery well RW-17-1 in accordance with the aquifer testing standards and procedures using a small diameter submersible pump to evaluate the preliminary aquifer yield and to obtain samples for general water quality characterization. The pumping test was conducted for 4.7 hours based on yield and drawdown data. Water level measurements were recorded before, during, and after the pumping test from PZ-14-1, PZ-14-2, PZ-14-3, PZ-14-4, PZ-14-5, PZ-14-6, PZ-17-1, and PZ-17-2.

Prior to implementation of the pumping test, the following were completed:

1. Performed pre-test monitoring in piezometers PZ-17-1 and PZ-17-2 and recovery well RW-17-1 for at least eight (8) hours.
2. Arranged for the volume of water generated during the pumping test to be stored in an ALRM - 277 series Porta Tank, supplied by Fred A. Cook, Jr., Inc. of Montrose, New York. The water generated during the pumping test was tested for disposal characteristics and managed as landfill leachate.
3. Cascade was used for installing piezometers and the recovery well and operating the pumping equipment (Grundfos Model 10 SQ-110) during the pumping test.
4. STERLING provided oversight of the piezometer/recovery well location, drilling, piezometer/recovery well design, piezometer/recovery well installation, and pump placement in the recovery well during the pumping test.
5. Equipment was decontaminated onsite and decontamination water, well development water, and pumped groundwater was handled as Investigation Derived Waste (IDW), which was temporarily stored onsite.

2.5 Waste Management

All drill cuttings, plastic sheeting, and personal protective equipment (PPE) was collected in properly labeled 55-gallon steel drums. Groundwater evacuated during the pilot study was containerized in a 10,000-gallon storage tank for offsite disposal at a permitted facility.

Drums and containers of material were labeled as “PENDING ANALYSIS - INVESTIGATION-DERIVED WASTE” with a description of the source (e.g., soil cuttings) and temporarily stored pending characterization and proper disposal. Containers were properly labeled, and characterized for disposal as non-hazardous waste or unregulated material. Containerized soil was analyzed for the following and in accordance with acceptance criteria at a selected disposal facility:

- Toxic Characteristic Leaching Procedure (TCLP) volatile organic compounds (VOCs)
- TCLP semi-volatile organic compounds (SVOCs)
- TCLP Metals
- Corrosivity

- Reactivity
- Flash Point
- Polychlorinated biphenyls (PCBs)
- pH

3.0 PILOT TEST RESULTS

3.1 Background Monitoring

The static groundwater level was measured in each well prior to the start of the pumping test (Appendix C). Depth to groundwater was measured from the top of the well casing (i.e., below the measuring point (BMP)). In addition to continuous electronic monitoring, flow rates from the flow meter were recorded in the field for the pumping well. Electronic pressure transducers were installed in each of the two (2) observation wells (PZ-17-1 and PZ-17-2) and to the base of the sounding tube in recovery well RW-17-1 to measure water levels for a period of at least eight (8) hours (Midnight to 08:00 A.M. on June 15, 2017) before initiation of the aquifer testing and during the pumping test (Appendix C). Barometric pressure and precipitation were measured onsite and recorded during the background monitoring and individual recovery well pumping test.

The depth to water measurements ranged from 20.20 to 20.24 feet BMP (361.66 feet amsl to 361.70 feet amsl) and 20.49 to 20.52 feet BMP (361.49 feet amsl to 361.46 feet amsl) at piezometer PZ-17-2 and recovery well RW-17-1, respectively.

The depth to water measurements were stable at piezometer PZ-17-1 and ranged from 19.99 to 20.02 feet BMP (361.47 feet amsl to 361.50 feet amsl) between 4:00 A.M. and 8:00 A.M. on June 15, 2017 although five (5) minor fluctuations were observed between 10:38 P.M. (June 14, 2017) and 3:55 A.M. (June 15, 2017). The monitoring data were used to identify trends and to adjust water level measurements, if necessary, during analysis of the pumping test data.

3.2 Individual Recovery Well Pumping Test

The recovery well was equipped with a variable flow 12V submersible pump to control flow rate and a digital flow meter in the discharge line. The meter recorded instantaneous flow (in gallons per minute (gpm)). The flow meter was used to regulate discharge/flow rate.

STERLING completed a constant rate well pumping test in recovery well RW-17-1 on June 15, 2017. A short-term pumping test was performed at RW-17-1 to evaluate aquifer parameters and estimate the hydraulic conductivity, transmissivity, specific yield, and/or storativity of the glaciolacustrine sand unit (unconsolidated aquifer). The water level in the recovery well (RW-17-1) was monitored during pumping to measure the drawdown. Pumping was set at a flow rate slightly below the anticipated long-term yield and was continued at a constant rate (i.e., +/- 10% of initial rate) until stabilization was achieved. The flow rate was measured using a calibrated water meter. Water levels were measured using programmable, electronic pressure transducers installed in RW-17-1, PZ-17-1, and PZ-17-2 that are capable of rapid data measurements and recording (Appendix D). Water levels were manually measured periodically for backup and to check accuracy of the electronic equipment. In addition, water levels were manually measured at overburden piezometers PZ-14-1, PZ-14-2, PZ-14-3, PZ-14-4, PZ-14-5, and PZ-14-6 near the recovery well, as appropriate, to assess impacts due to pumping activities (Appendix D).

The pumping rate was initiated at 3 gpm and the recovery well dewatered quickly, with almost 10.2 feet

of drawdown within seven (7) minutes (Appendix D). The pumping rate was reduced to 0.5 gpm using a variable flow 12V pump and maintained a constant pumping rate for nearly three (3) hours (Appendix D). The potentiometric surface decreased 3.23 feet during this period prior to cavitating at 33.67 feet BMP. The pumping continued at 0.5 gpm for an additional one (1) hour and 25 minutes with no additional drawdown (Appendix D). Observations indicated an increased pumping rate would have resulted in an unsustainable drop in water levels. All pumped water was containerized in the storage tank.

3.2.1 Test Duration

The pumping test was terminated once the drawdown in the pumping well stabilized. Observed drawdown at RW-17-1 was 13.53 foot while observed drawdown at PZ-17-1 (0.86 foot), PZ-17-2 (0.83 foot), PZ-14-1 (0.30 foot), PZ-14-2 (0.49 foot), PZ-14-3 (0.83 foot), PZ-14-4 (0.44 foot), PZ-14-5 (0.16 foot), PZ-14-6 (0.33 foot). The aquifer drawdown was similar (0.83 foot to 0.86 foot) at the three closest piezometers (PZ-14-3, PZ-17-1, and PZ-17-2) and was consistent but less at the two piezometers (PZ-14-1 (0.30 foot of drawdown) and PZ-14-6 (0.33 foot of drawdown) approximately 50 feet from the pumped well. No significant lag effects were observed within the overburden piezometers in the vicinity of the Project Area. Water levels from the staff gauge in the Cheechunk Canal were not influenced from onsite pumping activities.

3.2.2 Recovery

Recovering water levels were recorded in the same manner and using the same time intervals as were used during the beginning of the constant discharge test (i.e., at approximately logarithmic time intervals) once the pump had been shut down. Water level recovery was measured for approximately two (2) hours following completion of pumping. The potentiometric surface in RW-17-1 recovered to within 60% of static over 24 minutes and over 98% of static 111.5 minutes after pumping (see Groundwater Drawdown and Recovery Curve, Appendix E).

A 7-minute recovery lag was observed at PZ-17-1, located five (5) feet from RW-17-1. Piezometer PZ-17-1 achieved 100% recovery within 73 minutes, while other piezometers had similar recovery lags and recovery times suggesting that the aquifer unit is homogeneous (Appendix E).

3.2.3 Water Quality Results

3.2.3.1 Field Parameters

Testing equipment was used to measure parameters at periodic intervals (approximately ½ hour) during the pumping test, including pH, specific conductivity, Oxidation-Reduction Potential (ORP), Dissolved Oxygen (DO), turbidity, and temperature of the groundwater (Appendix D). These parameters were used to qualitatively evaluate groundwater quality during the pumping program.

Field parameters were stable at the end of the pumping activities. The measurements are provided below:

- pH (7.4 S.U.);
- Specific Conductivity (1.43 us/cm);
- ORP (-35 mV);
- DO (46.84 mg/L to 53.65 mg/L); and,
- Turbidity (0.44 NTU).

Water quality parameters (DO, ORP, pH, specific conductance, Total Dissolved Solids (TDS), and turbidity) collected at RW-17-1 approximately 1½ hours into pumping and at the end of pumping were consistent to each other during both sampling events (Table 2).

Groundwater temperature readings in RW-17-; the following temperatures (°C) were recorded:

- 14.31°C (while pumping at 3 gpm);
- 15.93°C (while pumping at 0.5 gpm);
- 15.67°C (while pumping at 0.5 gpm, cavitation observed); and,
- 14.51°C (recovery stage).

The groundwater temperature did not increase during the pumping activity suggesting no influence from the warmer Cheechunk Canal during the pumping test.

3.2.3.1 Leachate Indicator Parameters

Groundwater samples collected from RW-17-1 approximately 1½ hours into pumping and at the end of pumping and were analyzed for 6 NYCRR Part 360 Leachate Indicator Parameters. No exceedances of TOGS 1.1.1 Ambient Water Quality Standards were reported (Table 2). The laboratory analytical report is provided in Appendix F. Water chemistry results for the beginning and end of pumping were generally consistent, except for Chemical Oxygen Demand (COD), Total Kjeldahl Nitrogen (TKN), and ammonia. The value for COD increased from 13 mg/L (1½ hr) to an estimate of 8,700 mg/L. TKN increased from 4.74 mg/L (1½ hr) to 5.62 mg/L and ammonia increased from 4.55 mg/L (1½ hr) to 4.7 mg/L.

3.2.4 Hydrogeologic Analysis

The pumping test and monitoring data were analyzed according to accepted professional hydrogeologic procedures to determine the effects of pumping on the hydrogeologic system. Drawdown was calculated in the recovery well and piezometers to assess the yield of RW-17-1 and to determine the radius of influence. The effects of external influences were also considered during the analysis.

The pumping test analysis indicates similar findings collected in 2014 and demonstrates that the glaciolacustrine sand unit is lowly transmissive with similar hydrogeologic properties as summarized in STERLING's Long Term Seep Evaluation Report (December 2014). The recovery well sustained a pumping rate of 0.5 gpm during the pilot test and produced a drawdown of approximately 1.0 foot at a distance of 10 feet from the recovery well. The maximum spacing between additional pumping wells would be approximately 10 feet (or less), resulting in the need for a total of approximately 15 to 20 additional recovery wells with associated pumps, piping, and controls to effectively control groundwater upgradient of the seeps.

3.2.5 Waste Management

The 270.7 gallons of groundwater collected during the pumping test was transported and disposed of at the permitted Beacon Wastewater Treatment Plant on August 18, 2017. The drummed soil cuttings (six (6) open topped 55-gallon metal drums) have been temporarily placed on wooden pallets within the Methane Building, located near the northeastern corner of the closed landfill. Disposal characterization results are summarized in Table 3 and the Laboratory Analytical Report for the soil cuttings is provided in Appendix G.

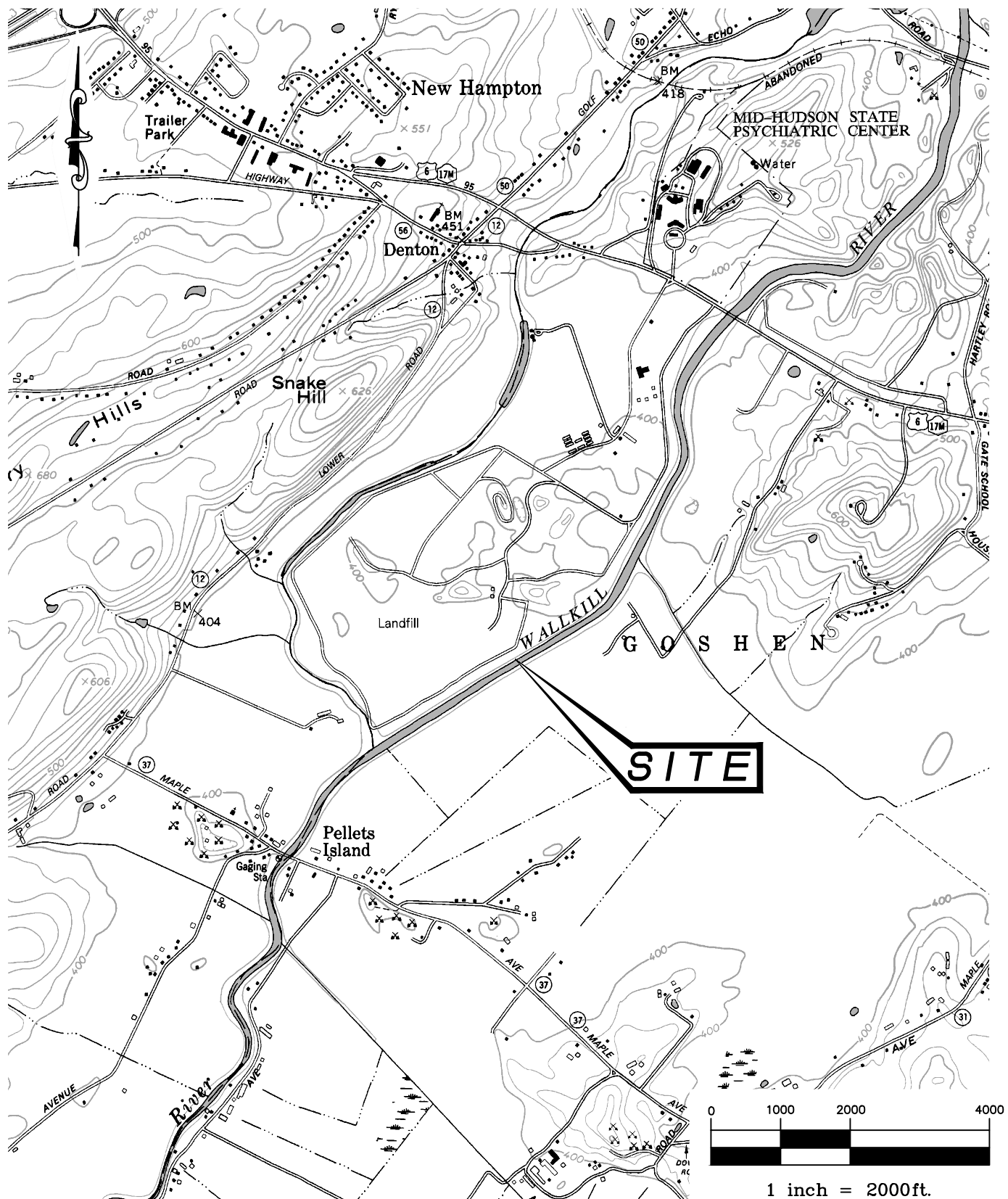
4.0 RECOMMENDATIONS

Given the construction challenges, STERLING is currently proposing the use of HDD and placement of a horizontal collection pipe as opposed to trenching due to its improved accessibility, precision, low impact to surrounding area, and would require fewer vertical recovery wells and pumps to achieve remedial goals due to longer lengths of well screen (e.g., hundreds of feet of well screen for horizontal wells) running parallel vs. perpendicular while providing a greater surface area in contact with locally impacted soil or groundwater. Bids have been obtained from qualified, competent, and proven HDD contractors.

The conceptual design for a HDD groundwater recovery system is summarized in Appendix H. The HDD groundwater recovery system will require NYSDEC approval since this design is a departure from the proposed recovery well design presented in the approved RAWP. A design package will be prepared after the conceptual design is approved by NYSDEC.

S:\Sterling\Projects\2010 Projects\Orange County - 2010-15\Reports\Groundwater Recovery Well Pilot Study\2017_09_14_Groundwater Recovery Well Pilot Study.docx

FIGURES



MAP REFERENCE: NYSDOT MIDDLETOWN, PINE ISLANDE, GOSHEN, & WARWICK QUADRANGLES, 1991.

STERLING

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24 Wade Road ♦ Latham, New York 12110

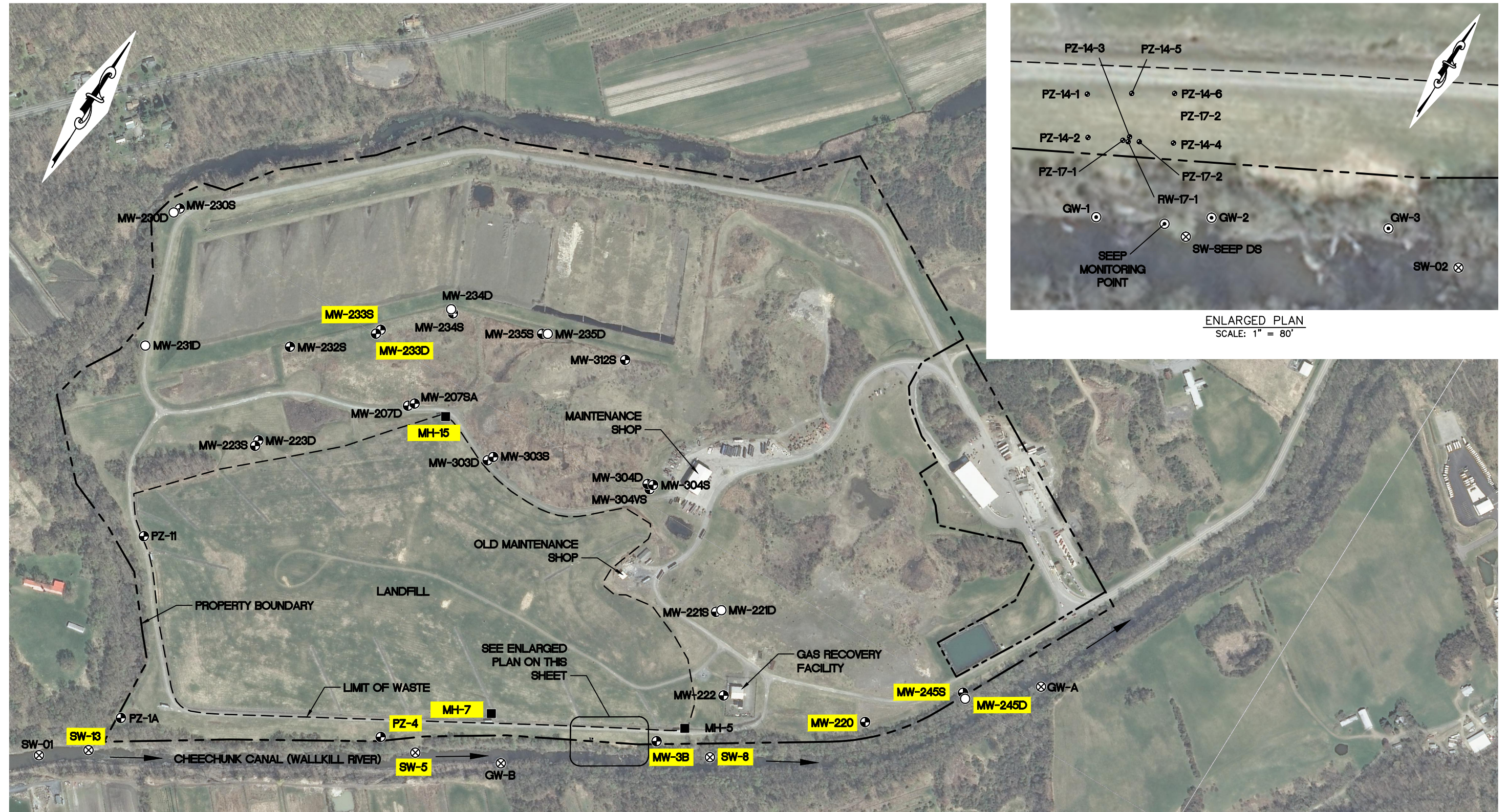
SITE LOCATION MAP
ORANGE CO. DEPT. OF PUBLIC WORKS
ORANGE COUNTY LANDFILL

TOWN OF GOSHEN

ORANGE CO., N.Y.

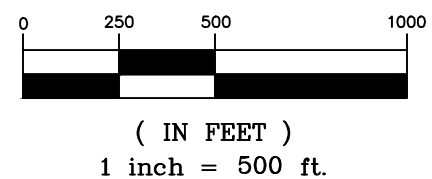
PROJ. No.: 2013-29 | DATE: 9/09/17 | SCALE: 1" = 2000' | DWG. NO. 2010-15038 | FIGURE 1

S:\Drawings\2010-15 - Orange County\2010-15073_F-2 - Site Vicinity Map.dwg SWEET 9/7/2017 4:14 PM



LEGEND:

- | | |
|-----------|---|
| ● MW-245S | OVERBURDEN MONITORING WELL AND PIEZOMETER LOCATION |
| ○ MW-245D | BEDROCK MONITORING WELL LOCATION |
| ■ MH-7 | LEACHATE SAMPLING LOCATION |
| ⊙ GW-1 | SEEP MONITORING LOCATION |
| ⊗ SW-5 | SURFACE WATER SAMPLE LOCATION |
| ● MW-245S | AS PER 2014 SMP, SAMPLED FOR CHARACTERIZATION OF GROUNDWATER, SURFACE WATER OR LEACHATE QUALITY |
| --- | LIMIT OF WASTE |
| --- | PROPERTY BOUNDARY |



MAP REFERENCES:

1. PROPERTY BOUNDARY AND LIMIT OF WASTE FROM DRAWINGS ENTITLED "OVERALL PLAN AND RESTRICTED PARCEL," BY THOMAS J. BARRY, DATED FEBRUARY 14, 2013.
2. AERIAL PHOTOGRAPHY FROM NEW YORK STATWIDE DIGITAL ORTHOIMAGERY PROGRAM, PHOTOGRAPHY CIRCA 2013.

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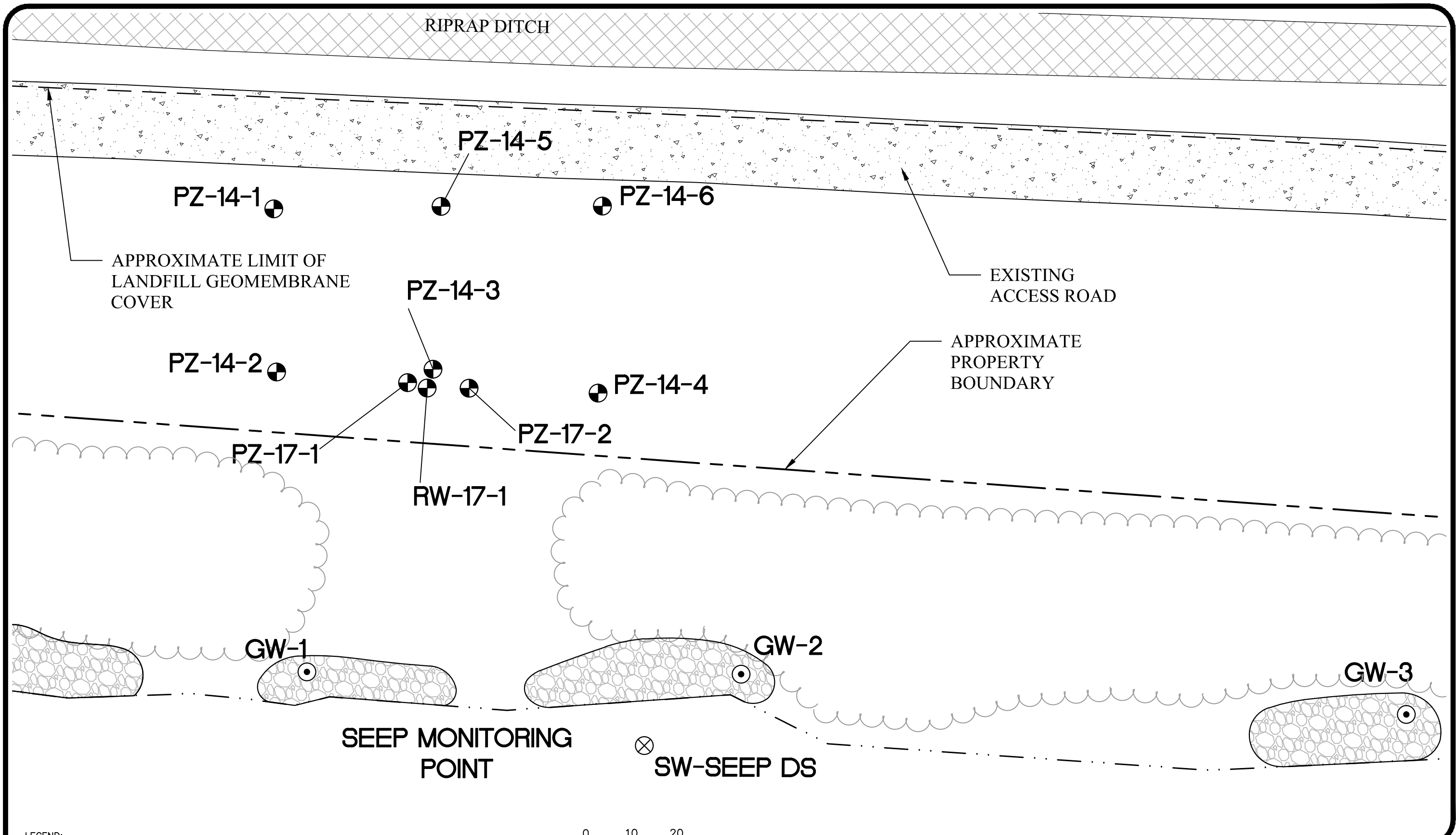
SITE VICINITY AND
PROPERTY FEATURES MAP
ORANGE CO. DEPT. OF PUBLIC WORKS
ORANGE COUNTY LANDFILL

TOWN OF GOSHEN

ORANGE CO., N.Y.

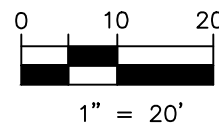
PROJ. No.: 2010-15 | DATE: 09/07/17 | SCALE: 1"=500' | DWG. NO. 2010-15073 | FIGURE 2

S:\Drawings\2010-15 - Orange County\2010-15072_F-3 - Seep Area_Piezometer Map.dwg CAD 6/30/2017 12:34 PM



LEGEND:

- MW-245S OVERBURDEN RECOVERY WELL AND PIEZOMETER LOCATION
- ⊙ GW-1 SEEP MONITORING LOCATION
- ⊗ SW-5 SURFACE WATER SAMPLE LOCATION
- LIMIT OF WASTE
- - - - - PROPERTY BOUNDARY



MAP REFERENCES:

1. PROPERTY BOUNDARY AND LIMIT OF WASTE FROM DRAWINGS ENTITLED "OVERALL PLAN AND RESTRICTED PARCEL," BY THOMAS J. BARRY, DATED FEBRUARY 14, 2013.
2. AERIAL PHOTOGRAPHY FROM NEW YORK STATWIDE DIGITAL ORTHOIMAGERY PROGRAM, PHOTOGRAPHY CIRCA 2013.

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Sterling Environmental Engineering, P.C.

24 Wade Road • Latham, New York 12110

SEEP AREA, RECOVERY WELL AND
PIEZOMETER LOCATION MAP
ORANGE CO. DEPT. OF PUBLIC WORKS
ORANGE COUNTY LANDFILL

TOWN OF GOSHEN

ORANGE CO., N.Y.

PROJ. No.: 2010-15 | DATE: 9/07/2017 | SCALE: 1" = 20' | DWG. NO. 2010-15072 | FIGURE 3

TABLES

Table 1

**Summary of Borings/Piezometer/Well Information
Orange County Landfill, New Hampton, New York**

| Piezometer I.D. | Ground Surface Elevation (Site Datum) (feet) | Piezometer Stickup (feet) | Assumed MP Elevation (Site Datum) (feet) | Screened Interval / [Screened Elevation] (feet) | Total Depth (Feet BGS) / [Bottom Elevation] | Glaciolacustrine (Silt and Clay)/Glaciolacustrine Sand (Fine Sand) Interface (feet BGS) / [Geologic Contact Elevation] |
|----------------------------|---|--------------------------------------|---|--|--|---|
| PZ-14-1 | 389.62 | 0.65 | 390.27 | 34.5-39.5 / [355.12 - 350.12] | 39.5 / [350.12] | 34.1 / [355.52] |
| PZ-14-2 | 381.14 | 0.80 | 381.94 | 24.5-29.5 / [356.64 - 351.64] | 30.26 / [350.88] | 24.6 / [356.54] |
| PZ-14-3 | 381.48 | 0.35 | 381.83 | 24.92 -29.92 / [356.56 - 351.56] | 29.92 / [351.56] | 24.4 / [357.43] |
| PZ-14-4 | 380.42 | 1.35 | 381.77 | 23.91-28.91 / [356.51 - 351.51] | 28.91 / [351.51] | 23.9 / [356.52] |
| PZ-14-5 | 390.05 | 2.17 | 392.22 | 32.9-37.9 / [357.15 - 352.15] | 37.86 / [352.19] | 33.5 / [356.55] |
| PZ-14-6 | 390.23 | 0.88 | 391.11 | 34.2-39.2 / [356.03 - 351.03] | 39.20 / [351.03] | 33.85 / [356.38] |
| PZ-17-1 | 379.93 | 1.56 | 381.49 | 20.0-30.0 / [361.49 - 351.49] | 30.0 / [351.49] | 24.6 / [356.89] |
| PZ-17-2 | 379.67 | 2.23 | 381.90 | 20.0-30.0 / [361.90 - 351.90] | 30.0 / [351.90] | 24.6 / [357.30] |
| RW-17-1 | 379.47 | 2.51 | 381.98 | 20.0-30.0 / [361.98 - 351.98] | 35.0 / [344.47] | 24.6 / [357.38] |

Table 2

**Summary of Groundwater Analytical Results
(RW-17-1 Pumping Test) - June 15, 2017
Orange County Landfill, Goshen, New York**

| LOCATION | | | RW-17-1 (1.5 HR.) | RW-17-1 (END) |
|--------------------------------------|---------|-------------------------|-------------------|---------------|
| SAMPLING DATE | | | 6/15/2017 | 6/15/2017 |
| | NY-AWQS | Units | | |
| Water Quality Parameters | | | | |
| Dissolved Oxygen | --- | mg/l | 2.8 | 4200 |
| Oxidation-Reduction Potential | --- | mV | 200 | 190 |
| pH | --- | S.U. | 6.9 | 6.9 |
| Specific Conductance @ 25° C | --- | µmhos/cm | 1,100 | 1,100 |
| Total Dissolved Solids | --- | mg/l | 680 | 650 |
| Turbidity | --- | NTU | 21 | 26 |
| Leachate Indicator Parameters | | | | |
| Alkalinity (Total)* | --- | mg CaCO ₃ /L | 555 | 537 |
| BOD, 5 day* | --- | mg/l | 0.002 U | 0.002 U |
| Bromide* | 2.0 | mg/l | 327 | 329 |
| Chemical Oxygen Demand* | --- | mg/l | 13 | 8,700 J |
| Chloride* | 250 | mg/l | 60.8 | 59.9 |
| Chromium (Hexavalent) | 0.05 | mg/l | 0.01 U | 0.01 U |
| Color, Apparent | --- | A.P.C.U. | 52 | 76 |
| Cyanide, Total* | 200 | mg/l | 0.005 U | 0.005 U |
| Hardness | --- | mg/l | 514 | 478 |
| Nitrogen, Ammonia* | --- | mg/l | 4.55 | 4.7 |
| Nitrogen, Nitrite* | 1.0 | mg/l | 50 U | 50 U |
| Nitrogen, Total Kjeldahl* | --- | mg/l | 4.74 | 5.62 |
| Phenolics, Total* | --- | mg/l | 0.03 U | 0.03 U |
| Sulfate* | 250 | mg/l | 29.5 | 26.4 |
| Total Organic Carbon* | --- | mg/l | 3.04 | 3.16 |

Notes:

*NY-AWQS: New York TOGS 111 Ambient Water Quality Standards criteria reflects all addendum to criteria through June 2004.

U = Compound was not detected at or above the laboratory method detection limit.

J = Result is less than the reporting limit but greater than or equal to the method detection limit, for instance, the result may be uncertain.

--- = No applicable groundwater standard or guidance value exists.

Table 3

**Summary of Analytical Results (Disposal Characterization) - Soil Cuttings
Orange County Landfill (New Hampton, New York)**

| LOCATION | | | RW-17-1 (SOIL CUTTINGS*) | |
|--------------------------------|-------------------------------|-------------|-----------------------------|----------|
| SAMPLING DATE | | | 6/15/2017 | |
| | | RCRA TCLP | Units | Results |
| | Solids, Total | --- | % | 80.9 |
| | pH (H) | <2 or >12.5 | SU | 8 |
| | Cyanide, Reactive | 10 | mg/kg | 10 U |
| | Sulfide, Reactive | 10 | mg/kg | 10 U |
| | Ignitability | --- | | NI U |
| TCLP Volatiles by EPA 1311 | | | | |
| | Chloroform | 6 | mg/l | 0.0016 J |
| | Carbon tetrachloride | 0.5 | mg/l | 0.005 U |
| | Tetrachloroethene | 0.7 | mg/l | 0.005 U |
| | Chlorobenzene | 100 | mg/l | 0.005 U |
| | 1,2-Dichloroethane | 0.5 | mg/l | 0.005 U |
| | Benzene | 0.5 | mg/l | 0.005 U |
| | Vinyl chloride | 0.2 | mg/l | 0.01 U |
| | 1,1-Dichloroethene | 0.7 | mg/l | 0.005 U |
| | Trichloroethene | 0.5 | mg/l | 0.005 U |
| | 1,4-Dichlorobenzene | 7.5 | mg/l | 0.025 U |
| | 2-Butanone | 200 | mg/l | 0.05 U |
| TCLP Semivolatiles by EPA 1311 | | | | |
| | Hexachlorobenzene | 0.13 | mg/l | 0.01 U |
| | 2,4-Dinitrotoluene | 0.13 | mg/l | 0.025 U |
| | Hexachlorobutadiene | 0.5 | mg/l | 0.01 U |
| | Hexachloroethane | 3 | mg/l | 0.01 U |
| | Nitrobenzene | 2 | mg/l | 0.01 U |
| | 2,4,6-Trichlorophenol | 2 | mg/l | 0.025 U |
| | Pentachlorophenol | 100 | mg/l | 0.05 U |
| | 2-Methylphenol | 200 | mg/l | 0.025 U |
| | 3-Methylphenol/4-Methylphenol | 200 | mg/l | 0.025 U |
| | 2,4,5-Trichlorophenol | 400 | mg/l | 0.025 U |
| | Pyridine | 5 | mg/l | 0.018 U |
| TCLP Metals by EPA 1311 | | | | |
| | Arsenic, TCLP | 5 | mg/l | 0.036 J |
| | Barium, TCLP | 100 | mg/l | 0.85 |
| | Cadmium, TCLP | 1 | mg/l | 0.1 U |
| | Chromium, TCLP | 5 | mg/l | 0.2 U |
| | Lead, TCLP | 5 | mg/l | 0.251 J |
| | Mercury, TCLP | 0.2 | mg/l | 0.001 U |
| | Selenium, TCLP | 1 | mg/l | 0.5 U |
| | Silver, TCLP | 5 | mg/l | 0.1 U |

Table 3

**Summary of Analytical Results (Disposal Characterization) - Soil Cuttings
Orange County Landfill (New Hampton, New York)**

| LOCATION | | | | RW-17-1 |
|-----------------------------|--------------------|-----------|-------|-----------|
| SAMPLING DATE | | | | 6/15/2017 |
| | | RCRA TCLP | Units | Results |
| TCLP PCBs by EPA 1311 | | | | |
| | Aroclor 1016 | 5 | mg/l | 0.0025 U |
| | Aroclor 1221 | 5 | mg/l | 0.0025 U |
| | Aroclor 1232 | 5 | mg/l | 0.0025 U |
| | Aroclor 1242 | 5 | mg/l | 0.0025 U |
| | Aroclor 1248 | 5 | mg/l | 0.0025 U |
| | Aroclor 1254 | 5 | mg/l | 0.0025 U |
| | Aroclor 1260 | 5 | mg/l | 0.0025 U |
| | Aroclor 1262 | 5 | mg/l | 0.0025 U |
| | Aroclor 1268 | 5 | mg/l | 0.0025 U |
| | PCBs, Total | 5 | mg/l | 0.0025 U |
| TCLP Pesticides by EPA 1311 | | | | |
| | Lindane | 0.4 | mg/l | 0.0001 U |
| | Heptachlor | 0.008 | mg/l | 0.0001 U |
| | Heptachlor epoxide | 0.008 | mg/l | 0.0001 U |
| | Endrin | 0.02 | mg/l | 0.0002 U |
| | Methoxychlor | 10 | mg/l | 0.001 U |
| | Toxaphene | 0.5 | mg/l | 0.001 U |
| | Chlordane | 0.03 | mg/l | 0.001 U |
| TCLP Herbicides by EPA 1311 | | | | |
| | 2,4-D | 10 | mg/l | 0.025 U |
| | 2,4,5-TP (Silvex) | 1 | mg/l | 0.005 U |

Notes:

*RCRA TCLP: Regulations defined as per 40 CFR 261.24.

U = Compound was not detected at or above the laboratory method detection limit.

J = Result is less than the reporting limit but greater than or equal to the method detection limit, for instance, the result may be uncertain.

--- = No applicable groundwater standard or guidance

NI = Not Ignitable

Casella requires submittal of Full TCLP, Total PCBs, pH, Reactivity, Ignitability, and % Solids.

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APPENDIX A

BORING LOGS AND WELL CONSTRUCTION FORMS

Boring Log

Boring ID: **PZ-17-1**

Project Name/No. Orange County Landfill / 2010-15

Location: _____

Drilling Contractor/Personne Aquifer Drilling and Testing - Roger Buley, Jason Kretser

Drilling Equip./Method: Hollow Stem Auger

Inspector: Joseph Spaulding

Sampling Method: 2.0' Split Spoon Sampling

Size/Type of Bit: 3¼" Auger, 2.0" Split Spoon

Elevation/Ground Surface: 89.66'

Start/Finish Date: 6-14-17 / 6-14-17

Depth to Groundwater (date) 19.62' (6/15/17)

Well Type: 1.0" PVC piezometer

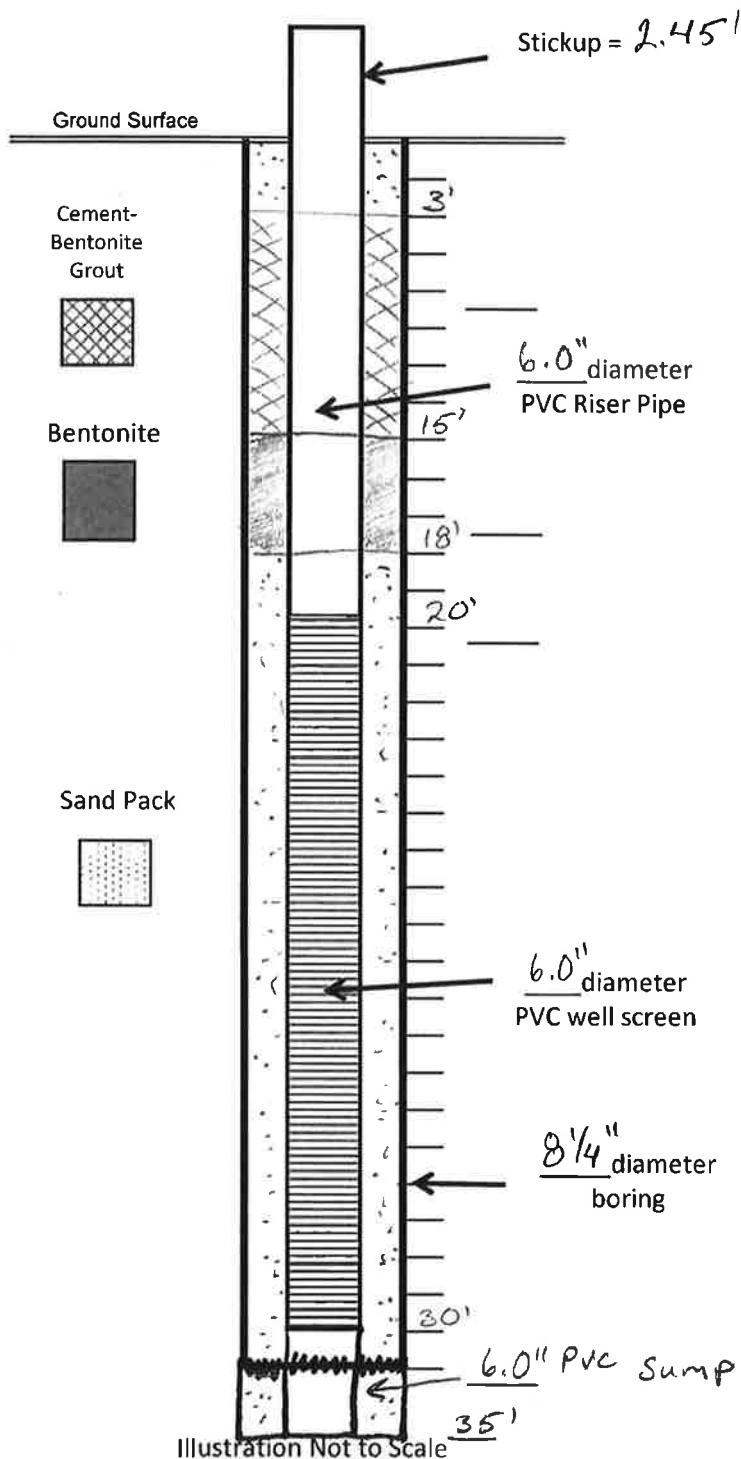
| Depth (ft.) | Sample No. | Blow Counts | | | | | Recovery (ft.) | Geologic Description | Comments |
|----------------|------------|-------------|------|-------|-------|----|----------------|--|--|
| | | 0-6 | 6-12 | 12-18 | 18-24 | N | | | |
| 0.0 | | | | | | | | | |
| 2.0 | | | | | | | | | |
| 4.0 | | | | | | | | | |
| 6.0 | | | | | | | | | |
| 8.0 | | | | | | | | | |
| 10.0 | | | | | | | | Soil Logging and Split Spoon Sampling starts at 10.0' | |
| 12.0 | 1 | 2 | 3 | 3 | 2 | 6 | 2.0 | Dark grey CLAY & SILT; mottled; medium stiff; medium plasticity; dry to moist Grey to dark grey CLAY & SILT, medium plasticity; moist to wet; medium stiff ----- Glaciolacustrine SILT and CLAY ----- 24.6' Grey to dark grey very fine to fine SAND; loose medium dense; wet Grey to dark grey very fine to fine SAND; little silt; loose; wet Glaciolacustrine SAND | No staining, odors or elevated PID headspace levels throughout boring. |
| 14.0 | 2 | 2 | 4 | 4 | 5 | 8 | 1.7 | | |
| 16.0 | 3 | 2 | 2 | 3 | 3 | 5 | 2.0 | | |
| 18.0 | 4 | 2 | 3 | 4 | 5 | 7 | 1.7 | | |
| 20.0 | 5 | 2 | 2 | 3 | 3 | 5 | 1.9 | | |
| 22.0 | 6 | 2 | 3 | 2 | 3 | 5 | 1.8 | | |
| 24.0 | 7 | 2 | 2 | 3 | 4 | 5 | 1.8 | | |
| 26.0 | 8 | 5 | 5 | 5 | 6 | 10 | 1.4 | | |
| 28.0 | 9 | 4 | 5 | 5 | 6 | 10 | 2.0 | | |
| 30.0 | 10 | 4 | 5 | 5 | 6 | 10 | 1.4 | | |
| 32.0 | 11 | 3 | 3 | 3 | 4 | 6 | 2.0 | | |
| 34.0 | 12 | W.O.R. | | | | 1 | 1.5 | | |
| 36.0 | 13 | 1 | 3 | 3 | 3 | 6 | 1.8 | | |
| 38.0 | | | | | | | | Bottom of Boring at 36' | W.O.R. = Weight of Rods |
| 40.0 | | | | | | | | | |

Proportions: Trace = 0 - 10% Little = 10 - 20% Some = 20 - 35% And = 35 - 50%

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MONITORING WELL CONSTRUCTION LOG



Well No.: RW-17-1
Installation Date: 6/13/17
Inspector: Joseph Spaulding
Project Name: Orange Co. Landfill
Project Number: 2010-15
Drilling Contractor: Aquifer Drilling & Testing

GENERAL NOTES:

Type of Well 6.0" PVC Recovery Well
Static Water Level 20.92
Measuring Point Top PVC
Date 6/14/17
Total Well Depth 37.45'

RISER PIPE:

Material PVC Length
Joint Type Threaded Diameter 6.0"

SCREEN:

Material PVC Length 10'
Slot Size 10 slot Diameter 6.0"
Stratigraphic Unit Glacial alluvium silt & sand

PACKING:

Sand #0 Filler Gravel N/A Natural N/A
Amount 15 bags Interval 18'-35'

SEAL:

Type Bentonite Interval 15'-18'

PROTECTIVE COVER:

Yes ☐ No ☒
Diameter

Notes:

Protective cover to be installed at a later date (10" steel casing)



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MONITORING WELL CONSTRUCTION LOG

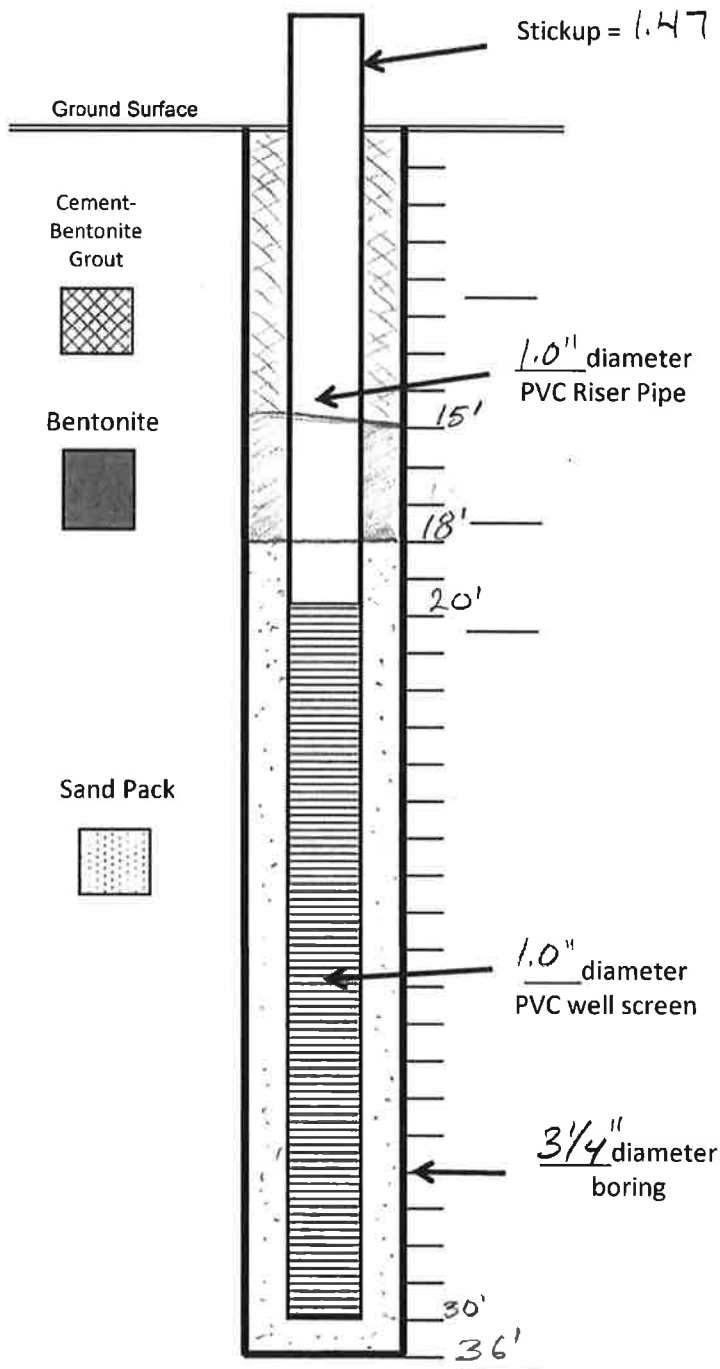


Illustration Not to Scale

Well No.: P2-17-1
Installation Date: 6/12/17
Inspector: Joseph Spaulding
Project Name: Orange Co. Landfill
Project Number: 2010-15
Drilling Contractor: Aquifer Drilling & Testing

GENERAL NOTES:

Type of Well: 1.0" PVC Piezometer
Static Water Level: 20.03
Measuring Point: Top PVC
Date: 6/14/17
Total Well Depth: 36.47'

RISER PIPE:

Material: PVC Length: _____
Joint Type: Threaded Diameter: 1.0"

SCREEN:

Material: PVC Length: 10'
Slot Size: 10 Slot Diameter: 1.0"
Stratigraphic Unit: Glaciolacustrine Silt & Sand

PACKING:

Sand: #0 Filter Gravel: N/A Natural: N/A
Amount: 4 bags Interval: 18' - 36'

SEAL:

Type: Bentonite Interval: 15' - 18'

PROTECTIVE COVER:

Yes ☐ No ☒
Diameter: N/A

Notes:

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MONITORING WELL CONSTRUCTION LOG

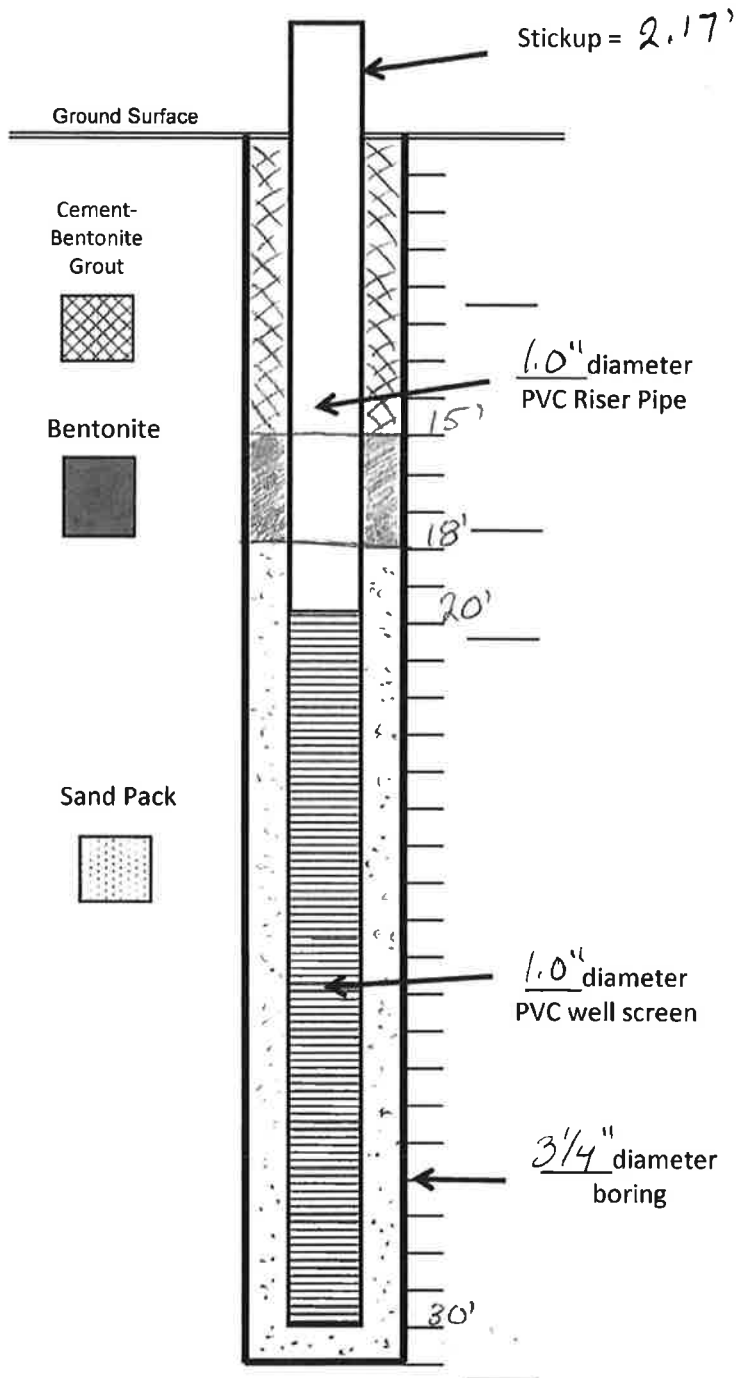


Illustration Not to Scale

Well No.: P2-17-2
Installation Date: 6/13/17
Inspector: Joseph Spaulding
Project Name: Orange Co. Landfill
Project Number: 2016-15
Drilling Contractor: Aquifer Drilling & Testing

GENERAL NOTES:

Type of Well 1.0" PVC piezometer
Static Water Level 20.36
Measuring Point Top PVC
Date 6/14/17
Total Well Depth 32.17'

RISER PIPE:

Material PVC Length _____
Joint Type threaded Diameter 1.0"

SCREEN:

Material PVC Length 10'
Slot Size 10 Slot Diameter 1.0"
Stratigraphic Unit Glaciolacustrine silt & sand

PACKING:

Sand #10 Filter Gravel N/A Natural N/A
Amount 3 bags Interval 18'-30'

SEAL:

Type Bentonite Interval 15'-18'

PROTECTIVE COVER:

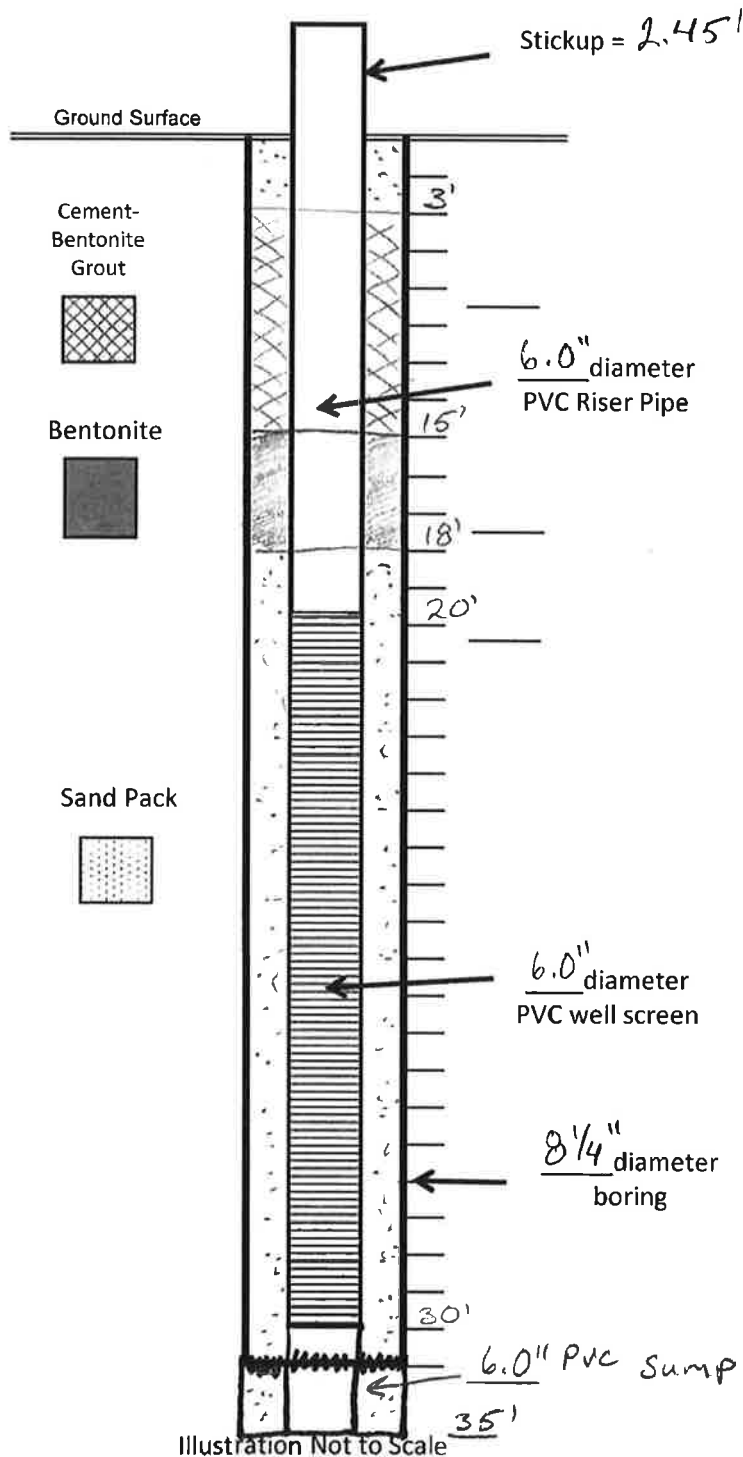
Yes ☐ No ☒
Diameter _____

Notes:



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MONITORING WELL CONSTRUCTION LOG



Well No.: RW-17-1
Installation Date: 6/13/17
Inspector: Joseph Spaulding
Project Name: Orange Co. Landfill
Project Number: 2018-15
Drilling Contractor: Aquifer Drilling & Testing

GENERAL NOTES:

Type of Well 6.0" PVC Recovery Well
Static Water Level 20.92
Measuring Point Top PVC
Date 6/14/17
Total Well Depth 37.45'

RISER PIPE:

Material PVC Length _____
Joint Type Threaded Diameter 6.0"

SCREEN:

Material PVC Length 10'
Slot Size 10 slot Diameter 6.0"
Stratigraphic Unit Glacial alluvium silt & sand

PACKING:

Sand #0 Filler Gravel N/A Natural N/A
Amount 15 bags Interval 18'-35'

SEAL:

Type Bentonite Interval 15'-18'

PROTECTIVE COVER:

Yes ☐ No ☒
Diameter _____

Notes:

Protective cover to be installed at a later date (10" steel casing)



Sterling Environmental Engineering, P.C.

MONITORING WELL CONSTRUCTION LOG

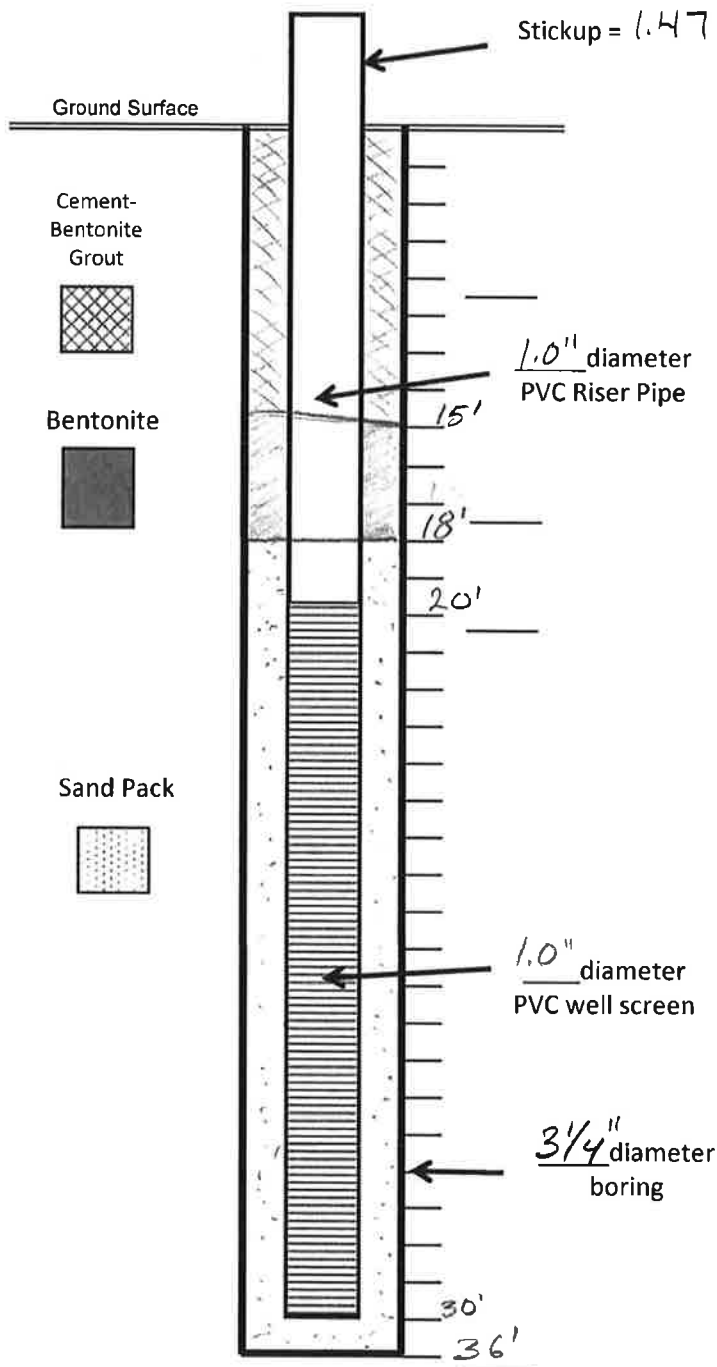


Illustration Not to Scale

Well No.: PZ-17-1
Installation Date: 6/12/17
Inspector: Joseph Spaulding
Project Name: Orange Co. Landfill
Project Number: 2010-15
Drilling Contractor: Aquifer Drilling & Testing

GENERAL NOTES:

Type of Well 1.0" PVC piezometer
Static Water Level 20.03
Measuring Point Top PVC
Date 6/14/17
Total Well Depth 31.47'

RISER PIPE:

Material PVC Length 15'
Joint Type Threaded Diameter 1.0"

SCREEN:

Material PVC Length 10'
Slot Size 10 Slot Diameter 1.0"
Stratigraphic Unit Glaciolacustrine Silt & Sand

PACKING:

Sand #0 Filter Gravel N/A Natural N/A
Amount 4 bags Interval 18' - 36'

SEAL:

Type Bentonite Interval 15' - 18'

PROTECTIVE COVER:

Yes ☐ No ☒
Diameter N/A

Notes:

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MONITORING WELL CONSTRUCTION LOG

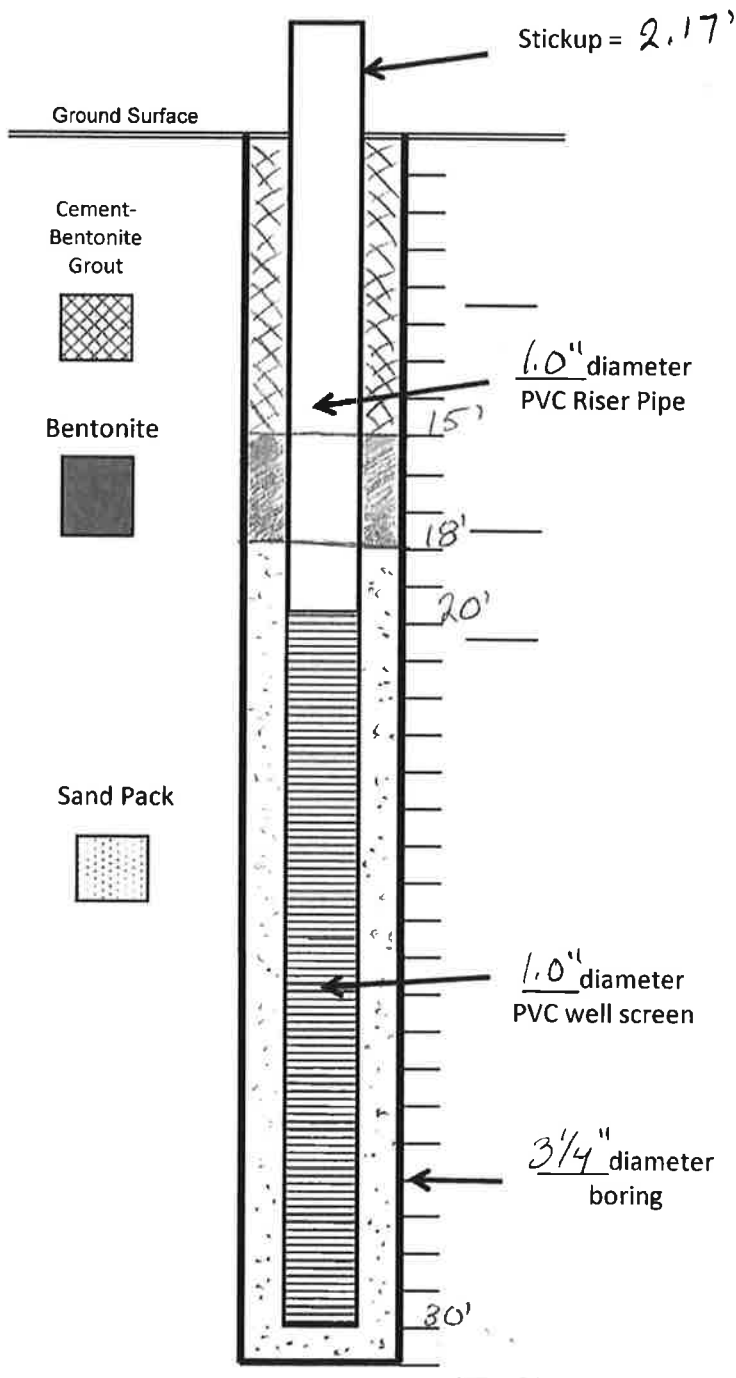


Illustration Not to Scale

Well No.: P2-17-2
 Installation Date: 6/13/17
 Inspector: Joseph Spaulding
 Project Name: Orange Co. Landfill
 Project Number: 2010-15
 Drilling Contractor: Aquifer Drilling & Testing

GENERAL NOTES:

Type of Well 1.0" PVC piezometer
 Static Water Level 20.36
 Measuring Point Top PVC
 Date 6/14/17
 Total Well Depth 32.17'

RISER PIPE:

Material PVC Length
 Joint Type threaded Diameter 1.0"

SCREEN:

Material PVC Length 10'
 Slot Size 10 Slot Diameter 1.0"
 Stratigraphic Unit Glaciolacustrine Silt & Sand

PACKING:

Sand #0 Filter Gravel N/A Natural N/A
 Amount 3 bags Interval 18'-30'

SEAL:

Type Bentonite Interval 15'-18'

PROTECTIVE COVER:

Yes ☐ No ☒
 Diameter

Notes:



BORING LOG

Boring No. PZ-14-1

| | | | |
|-----------------------|---|---------------------|-----------------------------|
| Project Name: | <u>Orange County Landfill – Cheechunk Canal/Seep Evaluation</u> | Project No.: | <u>2010-15</u> |
| Client Name: | <u>Orange County Department of Public Works</u> | Date: | <u>February 19, 2014</u> |
| Location: | <u>Goshen, NY</u> | Logged By: | <u>Mark Williams</u> |
| Weather/Temp.: | <u>12°F - 40°F, 1.55" Precip (wintry mix) Winds (1-3mph)</u> | Checked By: | <u>Peter Kelleher, P.E.</u> |

| | | | |
|------------------------|----------------------------------|-----------------------|----------------------------|
| Drilling Co.: | <u>Zebra Environmental Corp.</u> | Depth: | <u>39.5' bgs</u> |
| Driller: | <u>Jason Frederick</u> | Equipment: | <u>Geoprobe® 7720 DT</u> |
| Date Started: | <u>February 19, 2014</u> | Surface Elev.: | <u>99.35' (Site Datum)</u> |
| Date Completed: | <u>February 19, 2014</u> | Depth Elev.: | <u>59.85' (Site Datum)</u> |

| Depth | Sample No. | Blow Counts | Graphic Log 1"=5' | Unified Soil Classification | DESCRIPTIVE LOG (color, grain size and amount, texture, moisture) DEPOSITIONAL UNIT (outwash, till, lacustrine, muck, fill) | COMMENTS |
|-------|------------|-------------|----------------------|--------------------------------|--|----------|
| | | | | | BrGr Cy\$; occ. mtld; no odor; med. stiff; moist (ML/CL). | |
| | | | 5 | | BrGr Cy\$l, fS; no odor; med. stiff; moist (ML). | |
| | | | 10 | | BrGr C&\$; no odor; med. stiff; low to mod. plasticity; moist (ML/CL). | |
| | | | 15 | | BrGr \$&Cl(-),vfS(\$); no odor; stiff; occ. to freq. vvd; low to mod. plasticity; moist (ML/CL). | |
| | | | 20 | | Gr C&\$; no odor; stiff to hard; occ. to freq. vvd (partings 0.4 – 0.1'); mod. plasticity; moist (ML/CL). | |
| | | | 25 | | (GLACIOLACUSTRINE SILT AND CLAY) | |



BORING LOG

Boring No. PZ-14-1

Project Name: Orange County Landfill – Cheechunk Canal/Seep Evaluation **Project No.:** 2010-15
Client Name: Orange County Department of Public Works **Date:** February 19/20, 2014
Location: Goshen, NY **Logged By:** Mark Williams
Weather/Temp.: See page 1 of 2 **Checked By:** Peter Kelleher, P.E.

Drilling Co.: Zebra Environmental Corp. **Depth:** 39.5' bgs
Driller: Jason Frederick **Equipment:** Geoprobe® 7720 DT
Date Started: February 19, 2014 **Surface Elev.:** 99.35' (Site Datum)
Date Completed: February 19, 2014 **Depth/Datum:** 59.85' (Site Datum)

| Depth | Sample No. | Blow Counts | Graphic Log 1"=5' | Unified Soil Classification | DESCRIPTIVE LOG (color, grain size and amount, texture, moisture) DEPOSITIONAL UNIT (outwash, till, lacustrine, muck, fill) | COMMENTS |
|-------|------------|-------------|----------------------|--------------------------------|--|--|
| | | | | | Gr C&S; no odor; soft to mod. stiff; occ. to freq. vvd; mod. plasticity; moist (ML/CL). ▼ | Depth to Groundwater = 26.29' bgs (March 18, 2014) 1½" I.D. Schedule 40 PVC overburden piezometer installed on February 20, 2014. 10-slot PVC screen: 34.5 -39.5' bgs. |
| | | | 30 | | Gr CyS; no odor; mod. stiff to soft; freq. vvd; mod. plasticity; moist to wet (ML). | |
| | | | 35 | | (GLACIOLACUSTRINE SILT AND CLAY) 34.1' GrfS, sCyS; no odor; med. dense; wet (SM/ML). | |
| | | | 40 | | GrfS, l(-)CyS; no odor; med. dense; wet (SM/ML). (GLACIOLACUSTRINE SAND) 39.5' | |
| | | | 45 | | Boring terminated at 39.5 feet below ground surface (bgs). | |
| | | | 50 | | | |



BORING LOG

Boring No. PZ-14-2

Project Name: Orange County Landfill – Cheechunk Canal/Seep Evaluation **Project No.:** 2010-15
Client Name: Orange County Department of Public Works **Date:** February 19, 2014
Location: Goshen, NY **Logged By:** Mark Williams
Weather/Temp.: 12°F - 40°F, 1.55" Precip (wintry mix) Winds (1-3mph) **Checked By:** Peter Kelleher, P.E.

Drilling Co.: Zebra Environmental Corp. **Depth:** 30' bgs
Driller: Jason Frederick **Equipment:** Geoprobe® 7720 DT
Date Started: February 19, 2014 **Surface Elev.:** 90.87' (Site Datum)
Date Completed: February 19, 2014 **Depth Elev.:** 60.61' (Site Datum)

| Depth | Sample No. | Blow Counts | Graphic Log 1"=5' | Unified Soil Classification | DESCRIPTIVE LOG (color, grain size and amount, texture, moisture) DEPOSITIONAL UNIT (outwash, till, lacustrine, muck, fill) | COMMENTS |
|-------|------------|-------------|----------------------|--------------------------------|--|--|
| | | | | | Gr C&\$; no odor; mod. stiff; occ. vvd; mod. plasticity; moist (ML/CL). | |
| | | | 5 | | Gr \$&C; no odor; mod. stiff; occ. to freq. vvd; mod. (0.01' partings); plasticity; moist (ML/CL). | |
| | | | 10 | | Gr \$&C; no odor; stiff; freq. vvd (0.04 – 0.07' partings); mod. plasticity; moist (ML/CL). | |
| | | | 15 | | Gr C&\$; no odor; stiff; occ. - freq. vvd; mod. plasticity; moist to wet (ML/CL). | |
| | | | 20 | | Gr \$&C; no odor; mod. stiff to stiff; occ. - freq. vvd; mod. plasticity; moist to wet (ML/CL). | |
| | | | 25 | | (GLACIOLACUSTRINE SILT AND CLAY) 24.6' GrfS, aCy\$; no odor; med. dense; wet (SM/ML) (GLACIOLACUSTRINE SAND) | Depth to Groundwater = 18.24' bgs (March 18, 2014) |



Sterling Environmental Engineering, P.C.

BORING LOGBoring No. PZ-14-2

Project Name: Orange County Landfill – Cheechunk Canal/Seep Evaluation
Client Name: Orange County Department of Public Works
Location: Goshen, NY
Weather/Temp.: See page 1 of 2

Project No.: 2010-15
Date: February 19, 2014
Logged By: Mark Williams
Checked By: Peter Kelleher, P.E.

Drilling Co.: Zebra Environmental Corp.
Driller: Jason Frederick
Date Started: February 19, 2014
Date Completed: February 19, 2014

Depth: 30'bgs
Equipment: Geoprobe® 7720 DT
Surface Elev.: 90.87' (Site Datum)
Depth/Datum: 60.61' (Site Datum)

| Depth | Sample No. | Blow Counts | Graphic Log 1"=5' | Unified Soil Classification | DESCRIPTIVE LOG (color, grain size and amount, texture, moisture) DEPOSITIONAL UNIT (outwash, till, lacustrine, muck, fill) | COMMENTS |
|-------|------------|-------------|----------------------|--------------------------------|--|---|
| | | | 30 | | GrfS, t\$; no odor; med. dense; wet; GrmfS @ 27.6 -28.7' bgs (SM). (GLACIOLACUSTRINE SAND) 30.26' | 1¼" I.D. Schedule 40 PVC overburden piezometer installed on February 20, 2014. 10-slot PVC screen: 24.5 -29.5'bgs. |
| | | | | | Boring terminated at 30.26 feet below ground surface (bgs). | |
| | | | 35 | | | |
| | | | 40 | | | |
| | | | 45 | | | |
| | | | 50 | | | |

**BORING LOG**Boring No. PZ-14-3

Project Name: Orange County Landfill – Cheechunk Canal/Seep Evaluation **Project No.:** 2010-15
Client Name: Orange County Department of Public Works **Date:** February 19, 2014
Location: Goshen, NY **Logged By:** Mark Williams
Weather/Temp.: 12°F - 40°F, 1.55" Precip (wintry mix) Winds (1-3mph) **Checked By:** Peter Kelleher, P.E.

Drilling Co.: Zebra Environmental Corp. **Depth:** 30' bgs
Driller: Jason Frederick **Equipment:** Geoprobe® 7720 DT
Date Started: February 19, 2014 **Surface Elev.:** 91.21' (Site Datum)
Date Completed: February 19, 2014 **Depth Elev.:** 61.29' (Site Datum)

| Depth | Sample No. | Blow Counts | Graphic Log 1"=5' | Unified Soil Classification | DESCRIPTIVE LOG (color, grain size and amount, texture, moisture) DEPOSITIONAL UNIT (outwash, till, lacustrine, muck, fill) | COMMENTS |
|-------|------------|-------------|----------------------|--------------------------------|--|--|
| | | | | | Br-GrBr Cy\$; no odor; occ. mtd; mod. stiff; occ. vvd; low to mod. plasticity; dry to moist (ML/CL). | |
| | | | 5 | | Gr C&\$; no odor; mod. stiff; freq. vvd (partings 0.01'); mod. plasticity; moist to wet (ML/CL). | |
| | | | 10 | | BrGr Cy\$; no odor; mod. stiff; freq. vvd (partings 0.01'); mod. plasticity; moist to wet (ML/CL). | |
| | | | 15 | | BrGr Cy\$; no odor; mod. stiff to stiff; freq. vvd (partings <0.01'); mod. plasticity; moist (ML/CL). | |
| | | | 20 | | BrGr Cy\$; no odor; soft to mod. stiff; massive; mod. plasticity; moist (ML/CL). | |
| | | | | | (GLACIOLACUSTRINE SILT AND CLAY) 24.4' | |
| | | | 25 | | DkGrIS, l(-)\$; med. dense; wet (SM/ML). (GLACIOLACUSTRINE SAND) | Depth to Groundwater = 18.30' bgs (March 18, 2014) |

**BORING LOG**Boring No. PZ-14-3

| | | | |
|-----------------------|---|---------------------|-----------------------------|
| Project Name: | <u>Orange County Landfill – Cheechunk Canal/Seep Evaluation</u> | Project No.: | <u>2010-15</u> |
| Client Name: | <u>Orange County Department of Public Works</u> | Date: | <u>February 19, 2014</u> |
| Location: | <u>Goshen, NY</u> | Logged By: | <u>Mark Williams</u> |
| Weather/Temp.: | <u>See page 1 of 2</u> | Checked By: | <u>Peter Kelleher, P.E.</u> |

| | | | |
|------------------------|----------------------------------|-----------------------|----------------------------|
| Drilling Co.: | <u>Zebra Environmental Corp.</u> | Depth: | <u>30'bgs</u> |
| Driller: | <u>Jason Frederick</u> | Equipment: | <u>Geoprobe® 7720 DT</u> |
| Date Started: | <u>February 19, 2014</u> | Surface Elev.: | <u>91.21' (Site Datum)</u> |
| Date Completed: | <u>February 19, 2014</u> | Depth/Datum: | <u>61.29' (Site Datum)</u> |

| Depth | Sample No. | Blow Counts | Graphic Log 1"=5' | Unified Soil Classification | DESCRIPTIVE LOG (color, grain size and amount, texture, moisture) DEPOSITIONAL UNIT (outwash, till, lacustrine, muck, fill) | COMMENTS |
|-------|------------|-------------|----------------------|--------------------------------|--|---|
| | | | 30 | | Grmf(+)S; no odor; med.dense; laminated; wet(SM/ML). (GLACIOLACUSTRINE SAND) 29.92' | 2" I.D. Schedule 40 PVC overburden piezometer installed on February 20, 2014. 10-slot PVC screen: 24.92 -29.92' bgs. |
| | | | | | Boring terminated at 29.92 feet below ground surface (bgs). | |
| | | | | | | |
| | | | | | | |
| | | | | | | |
| | | | | | | |
| | | | 45 | | | |
| | | | 50 | | | |



BORING LOG

Boring No. PZ-14-4

Project Name: Orange County Landfill – Cheechunk Canal/Seep Evaluation **Project No.:** 2010-15
Client Name: Orange County Department of Public Works **Date:** February 20, 2014
Location: Goshen, NY **Logged By:** Mark Williams
Weather/Temp.: 23°F - 50°F, 0" Precip, Winds (1-4mph) **Checked By:** Peter Kelleher, P.E.

Drilling Co.: Zebra Environmental Corp. **Depth:** 30' bgs
Driller: Jason Frederick **Equipment:** Geoprobe® 7720 DT
Date Started: February 20, 2014 **Surface Elev.:** 90.15' (Site Datum)
Date Completed: February 20, 2014 **Depth Elev.:** 61.24' (Site Datum)

| Depth | Sample No. | Blow Counts | Graphic Log 1"=5' | Unified Soil Classification | DESCRIPTIVE LOG (color, grain size and amount, texture, moisture) DEPOSITIONAL UNIT (outwash, till, lacustrine, muck, fill) | COMMENTS |
|-------|------------|-------------|----------------------|--------------------------------|--|--|
| | | | | | GrBr Cy\$; no odor; occ. mtld; mod. stiff to stiff; occ. vvd (partings 0.01'); low to mod. plasticity; dry to moist (ML). | |
| | | | 5 | | BrGr \$&C to Cy\$; no odor; mod. stiff to stiff; freq. vvd (partings 0.01'); low to mod. plasticity; moist (ML/CL). | |
| | | | 10 | | BrGr \$&C to \$yC; no odor; mod. stiff; occ. to freq. vvd (partings 0.01'); mod. plasticity; moist (ML/CL). | |
| | | | 15 | | Gr Cy\$ to \$&C; no odor; mod. stiff; occ. to freq. vvd (partings 0.02 – 0.07'); mod. plasticity; moist to wet (ML/CL). | |
| | | | 20 | | GrCy\$ to \$&C; no odor; mod. stiff; massive; moist to wet (ML/CL). | |
| | | | 25 | | (GLACIOLACUSTRINE SILT AND CLAY) 23.9' DkGrmf(+)fS, l(-)Cy\$; no odor; med. dense; wet (SM/ML). (GLACIOLACUSTRINE SAND) | Depth to Groundwater = 18.23' bgs (March 18, 2014) |



BORING LOG

Boring No. PZ-14-4

| | | | |
|-----------------------|---|---------------------|-----------------------------|
| Project Name: | <u>Orange County Landfill – Cheechunk Canal/Seep Evaluation</u> | Project No.: | <u>2010-15</u> |
| Client Name: | <u>Orange County Department of Public Works</u> | Date: | <u>February 20, 2014</u> |
| Location: | <u>Goshen, NY</u> | Logged By: | <u>Mark Williams</u> |
| Weather/Temp.: | <u>See page 1 of 2</u> | Checked By: | <u>Peter Kelleher, P.E.</u> |

| | | | |
|------------------------|----------------------------------|-----------------------|----------------------------|
| Drilling Co.: | <u>Zebra Environmental Corp.</u> | Depth: | <u>38.91'bgs</u> |
| Driller: | <u>Jason Frederick</u> | Equipment: | <u>Geoprobe® 7720 DT</u> |
| Date Started: | <u>February 20, 2014</u> | Surface Elev.: | <u>90.15' (Site Datum)</u> |
| Date Completed: | <u>February 20, 2014</u> | Depth/Datum: | <u>61.24' (Site Datum)</u> |

| Depth | Sample No. | Blow Counts | Graphic Log 1"=5' | Unified Soil Classification | DESCRIPTIVE LOG (color, grain size and amount, texture, moisture) DEPOSITIONAL UNIT (outwash, till, lacustrine, muck, fill) | COMMENTS |
|-------|------------|-------------|----------------------|--------------------------------|--|--|
| | | | | | Grmf(+)S; no odor; med.dense; laminated; wet(SM/ML). (GLACIOLACUSTRINE SAND) 28.91' | 2" I.D. Schedule 40 PVC overburden piezometer installed on February 20, 2014. 10-slot PVC screen: 23.91'-28.91'bgs. |
| | | | 30 | | Boring terminated at 28.91 feet below ground surface (bgs). | |
| | | | 35 | | | |
| | | | 40 | | | |
| | | | 45 | | | |
| | | | 50 | | | |



BORING LOG

Boring No. PZ-14-5

Project Name: Orange County Landfill – Cheechunk Canal/Seep Evaluation **Project No.:** 2010-15
Client Name: Orange County Department of Public Works **Date:** February 20, 2014
Location: Goshen, NY **Logged By:** Mark Williams
Weather/Temp.: 23°F - 50°F, 0" Precip, Winds (1-4mph) **Checked By:** Peter Kelleher, P.E.

Drilling Co.: Zebra Environmental Corp. **Depth:** 38' bgs
Driller: Jason Frederick **Equipment:** Geoprobe® 7720 DT
Date Started: February 20, 2014 **Surface Elev.:** 99.78' (Site Datum)
Date Completed: February 20, 2014 **Depth Elev.:** 61.92' (Site Datum)

| Depth | Sample No. | Blow Counts | Graphic Log 1"=5' | Unified Soil Classification | DESCRIPTIVE LOG (color, grain size and amount, texture, moisture) DEPOSITIONAL UNIT (outwash, till, lacustrine, muck, fill) | COMMENTS |
|-------|------------|-------------|----------------------|--------------------------------|--|----------|
| | | | | | BrGr Cy\$; no odor; occ. mtld; med. stiff; moist (ML/CL). | |
| | | | 5 | | BrGr Cy\$; no odor; med. stiff; moist (ML). | |
| | | | 10 | | BrGr C&\$; no odor; med. stiff; low to mod. plasticity; moist (ML/CL). | |
| | | | 15 | | BrGr-Gr \$&Ct, vFS(\$); no odor; mod. stiff; occ.vvd; low to mod. plasticity; moist (ML/CL). | |
| | | | 20 | | Gr Cy\$ to \$&C; no odor; mod. stiff; occ. vvd (partings = 0.04 – 0.07'); low to mod. plasticity; moist (ML/CL). | |
| | | | 25 | | (GLACIOLACUSTRINE SILT AND CLAY) | |



BORING LOG

Boring No. PZ-14-5

| | | | |
|-----------------------|---|---------------------|-----------------------------|
| Project Name: | <u>Orange County Landfill – Cheechunk Canal/Seep Evaluation</u> | Project No.: | <u>2010-15</u> |
| Client Name: | <u>Orange County Department of Public Works</u> | Date: | <u>February 20, 2014</u> |
| Location: | <u>Goshen, NY</u> | Logged By: | <u>Mark Williams</u> |
| Weather/Temp.: | <u>See page 1 of 2</u> | Checked By: | <u>Peter Kelleher, P.E.</u> |

| | | | |
|------------------------|----------------------------------|-----------------------|----------------------------|
| Drilling Co.: | <u>Zebra Environmental Corp.</u> | Depth: | <u>38'bgs</u> |
| Driller: | <u>Jason Frederick</u> | Equipment: | <u>Geoprobe® 7720 DT</u> |
| Date Started: | <u>February 20, 2014</u> | Surface Elev.: | <u>99.78' (Site Datum)</u> |
| Date Completed: | <u>February 20, 2014</u> | Depth/Datum: | <u>61.92' (Site Datum)</u> |

| Depth | Sample No. | Blow Counts | Graphic Log 1"=5' | Unified Soil Classification | DESCRIPTIVE LOG (color, grain size and amount, texture, moisture) DEPOSITIONAL UNIT (outwash, till, lacustrine, muck, fill) | COMMENTS |
|-------|------------|-------------|----------------------|--------------------------------|--|---|
| | | | 30 | | Gr Cy\$ to \$&C; no odor; mod. stiff; occ. to freq. vvd (partings = 0.05'); mod. plasticity; wet to moist (ML/CL). Gr Cy\$; no odor; soft to mod. stiff; massive; low plasticity; moist to wet (ML). (GLACIOLACUSTRINE SILT AND CLAY) 33.5' | Depth to Groundwater = 28.32' bgs (March 18, 2014) 2" I.D. Schedule 40 PVC overburden piezometer installed on February 20, 2014. 10-slot PVC screen: 32.9 -34.9'bgs. |
| | | | 35 | | DkGrmf(+)S, t\$; laminated; med. dense to dense; wet (SM). Gr-DkGrfS; no odor; dense; wet (SM). (GLACIOLACUSTRINE SAND) 37.86' | |
| | | | 40 | | Boring terminated at 37.86 feet below ground surface (bgs). | |
| | | | 45 | | | |
| | | | 50 | | | |



BORING LOG

Boring No. PZ-14-6

| | | | |
|-----------------------|---|---------------------|-----------------------------|
| Project Name: | <u>Orange County Landfill – Cheechunk Canal/Seep Evaluation</u> | Project No.: | <u>2010-15</u> |
| Client Name: | <u>Orange County Department of Public Works</u> | Date: | <u>February 20, 2014</u> |
| Location: | <u>Goshen, NY</u> | Logged By: | <u>Mark Williams</u> |
| Weather/Temp.: | <u>23°F - 50°F, 0" Precip, Winds (1-4mph)</u> | Checked By: | <u>Peter Kelleher, P.E.</u> |

| | | | |
|------------------------|----------------------------------|-----------------------|----------------------------|
| Drilling Co.: | <u>Zebra Environmental Corp.</u> | Depth: | <u>39.2' bgs</u> |
| Driller: | <u>Jason Frederick</u> | Equipment: | <u>Geoprobe® 7720 DT</u> |
| Date Started: | <u>February 20, 2014</u> | Surface Elev.: | <u>99.96' (Site Datum)</u> |
| Date Completed: | <u>February 20, 2014</u> | Depth Elev.: | <u>60.76' (Site Datum)</u> |

| Depth | Sample No. | Blow Counts | Graphic Log 1"=5' | Unified Soil Classification | DESCRIPTIVE LOG (color, grain size and amount, texture, moisture) DEPOSITIONAL UNIT (outwash, till, lacustrine, muck, fill) | COMMENTS |
|-------|------------|-------------|----------------------|--------------------------------|--|----------|
| | | | | | BrGr Cy\$; no odor; occ. mtld; mod. stiff; moist (ML). | |
| | | | 5 | | BrGr Cy\$ to \$&C; no odor; mod. stiff; moist (ML/CL). | |
| | | | 10 | | BrGr C&\$; no odor; mod. stiff; low to mod. plasticity; moist (ML/CL). | |
| | | | 15 | | BrGr-Gr \$&C to Cy\$; no odor; mod. stiff; occ.vvd; low to mod. plasticity; moist (ML/CL). | |
| | | | 20 | | Gr Cy\$; no odor; mod. stiff; occ.vvd; low to mod. plasticity; moist (ML/CL). | |
| | | | 25 | | (GLACIOLACUSTRINE SILT AND CLAY) | |



BORING LOG

Boring No. PZ-14-6

Project Name: Orange County Landfill – Cheechunk Canal/Seep Evaluation
Client Name: Orange County Department of Public Works
Location: Goshen, NY
Weather/Temp.: See page 1 of 2

Project No.: 2010-15
Date: February 20, 2014
Logged By: Mark Williams
Checked By: Peter Kelleher, P.E.

Drilling Co.: Zebra Environmental Corp.
Driller: Jason Frederick
Date Started: February 20, 2014
Date Completed: February 20, 2014

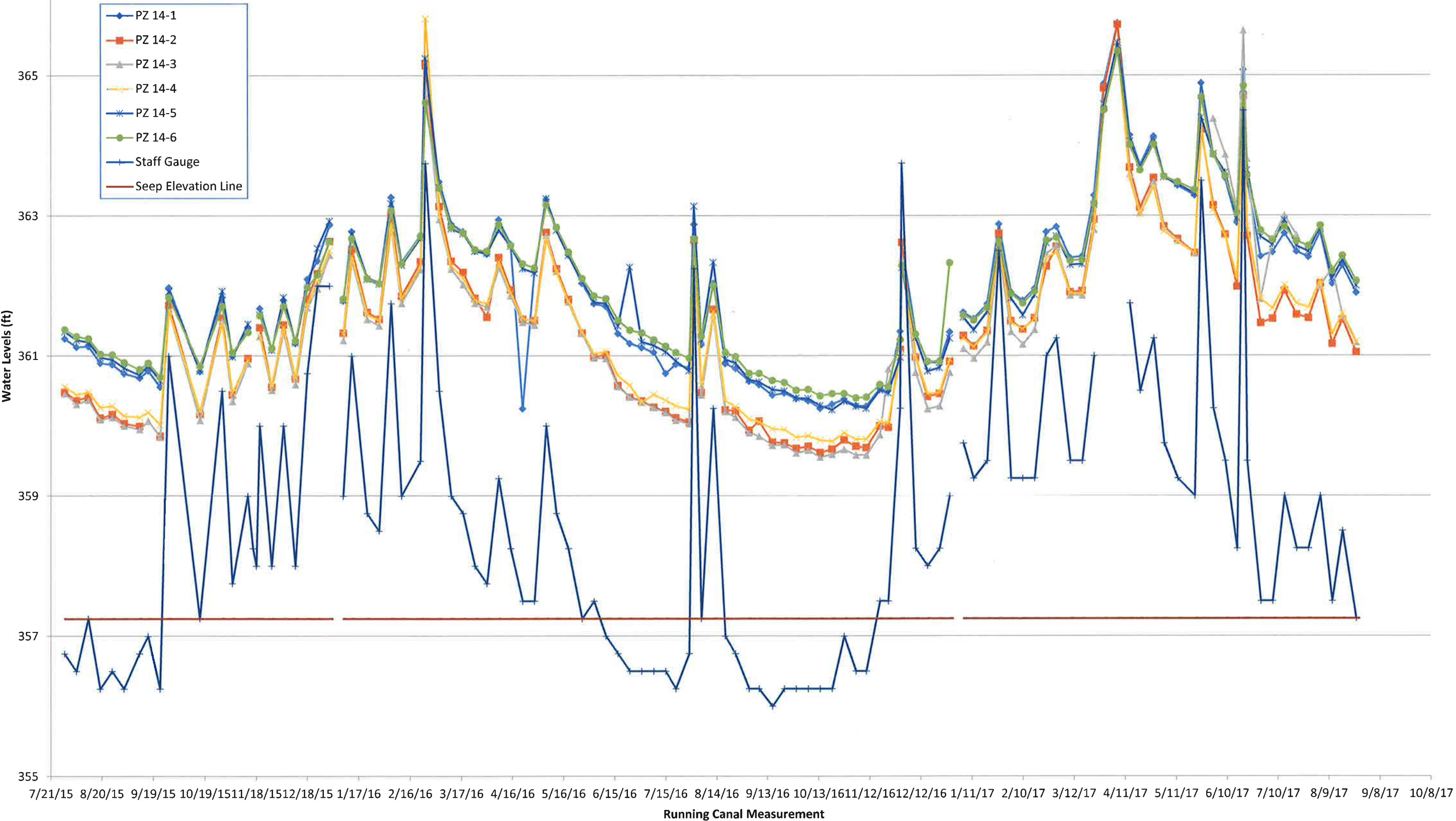
Depth: 39.2' bgs
Equipment: Geoprobe® 7720 DT
Surface Elev.: 99.96' (Site Datum)
Depth/Datum: 60.76' (Site Datum)

| Depth | Sample No. | Blow Counts | Graphic Log 1"=5' | Unified Soil Classification | DESCRIPTIVE LOG (color, grain size and amount, texture, moisture) DEPOSITIONAL UNIT (outwash, till, lacustrine, muck, fill) | COMMENTS |
|-------|------------|-------------|----------------------|--------------------------------|--|---|
| | | | 30 | | Gr Cy\$; no odor; soft to mod. stiff; occ. to freq. vvd (partings = 0.03 - 0.05'); mod. plasticity; moist (ML/CL). | Depth to Groundwater = 27.27' bgs (March 18, 2014) 1 1/4" I.D. Schedule 40 PVC overburden piezometer installed on February 20, 2014. 10-slot PVC screen: 34.2 - 39.2' bgs. |
| | | | | | Gr Cy\$; no odor; soft to mod. stiff; massive; low plasticity; moist to wet (ML). | |
| | | | 35 | | (GLACIOLACUSTRINE SILT AND CLAY) 33.85' | |
| | | | | | Gr-DkGrfSl(-), Cy\$; no odor; med. dense to dense; wet (SM/ML) | |
| | | | 40 | | (GLACIOLACUSTRINE SAND) 39.2' | |
| | | | 45 | | Boring terminated at 39.2 feet below ground surface (bgs). | |
| | | | 50 | | | |

APPENDIX B

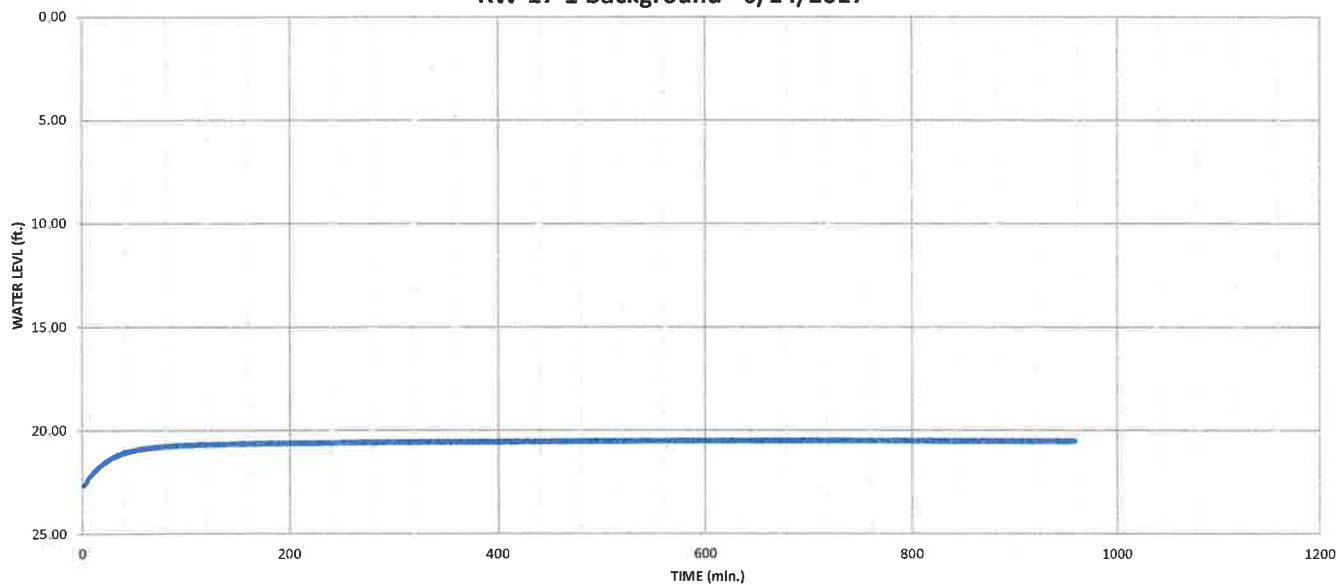
STAFF GAUGE AND MONITORING WELL MEASUREMENT DATA

2015-Current OCLF Staff Gauge & Monitoring Well Inspection Data



APPENDIX C
BACKGROUND MONITORING DATA

RW-17-1 Background - 6/14/2017



Report Date: 6/16/2017 11:36
Report User Name: spauldingj
Report Computer Name: LAPTOP04
Application: WinSitu.exe
Application Version: 5.6.25.0

Log File Properties
File Name: RW-17-1_2017-06-15_07-41-19-593.wsl
Create Date: 6/15/2017 7:41

Device Properties
Device: Level TROLL 700
Site: Orange County Landfill
Device Name: 477224
Serial Number: 3.03
Firmware Version: 5
Hardware Version: 1
Device Address: 19200
Device Comm Cfg: 0
Used Memory: 4
Used Battery: 4

Log Configuration
Log Name: RW-17-1
Created By: Spauldingj
Computer Name: LAPTOP04
Application: WinSitu.exe
Application Version: 5.6.25.0
Create Date: 6/14/2017 3:42:16 PM Eastern Daylight Time
Log Setup Time Zone: Eastern Daylight Time
Notes Size(bytes): 4096
Overwrite when full: Disabled
Scheduled Start Time: Manual Start
Scheduled Stop Time: No Stop Time
Type: Linear
Interval: Days: 0 hrs: 00 mins: 01 secs: 00

Level Reference Settings At Log Creation
Level Measurement Mode: Level Depth To Water
Specific Gravity: 0.999
Level Reference Mode: Set first logged value to offset
Level Reference Offset: 22.65 (ft)

Even 1

Other Log Settings

Depth of Probe: -0.0198324 (ft)
Head Pressure: -0.00858927 (PSI)
Temperature: 35.8072 (C)

Log Notes:

Date and Time Note

6/14/2017 15:42 Used Battery: 4% Used Memory: 1% User Name: SpauldingJ
6/14/2017 15:42 Manual Start Command
6/15/2017 7:40 Log Download - Used Battery: 4% Used Memory: 1% User Name: SpauldingJ

Log Data: Record Count 959

Sensors 1

477224

Time Zone: Eastern Daylight Time

Pressure/Temp 15 PSIG (11m/35ft)

| Date and Time | Elapsed Time Seconds | Sensor: Pres(G) 35ft SN#: 477224 | | Sensor: Pres(G) 35ft SN#: 477224 | | Sensor: Pres(G) 35ft SN#: 477224 | |
|-----------------|-------------------------|-------------------------------------|--------------|-------------------------------------|---------------------------|-------------------------------------|--|
| | | Pressure (PSI) | Calculations | Water Level (ft.) | Level Depth To Water (ft) | Temperature (C) | |
| 6/14/2017 15:42 | 0 | -0.008 | | | 22.65 | 35.858 | |
| 6/14/2017 15:43 | 60 | 1.544 | | | 19.068 | 35.533 | |
| 6/14/2017 15:44 | 120 | 5.156 | 11.90 | 14.86 | 22.65 | 29.007 | |
| 6/14/2017 15:45 | 180 | 5.182 | 11.96 | 14.92 | 22.59 | 24.428 | |
| 6/14/2017 15:46 | 240 | 5.214 | 12.04 | 14.99 | 22.52 | 21.494 | |
| 6/14/2017 15:47 | 300 | 5.247 | 12.11 | 15.07 | 22.44 | 19.564 | |
| 6/14/2017 15:48 | 360 | 5.278 | 12.19 | 15.14 | 22.37 | 18.255 | |
| 6/14/2017 15:49 | 420 | 5.308 | 12.26 | 15.21 | 22.30 | 17.321 | |
| 6/14/2017 15:50 | 480 | 5.338 | 12.32 | 15.28 | 22.23 | 16.662 | |
| 6/14/2017 15:51 | 540 | 5.363 | 12.38 | 15.34 | 22.17 | 16.196 | |
| 6/14/2017 15:52 | 600 | 5.391 | 12.45 | 15.40 | 22.11 | 15.849 | |
| 6/14/2017 15:53 | 660 | 5.415 | 12.50 | 15.46 | 22.05 | 15.558 | |
| 6/14/2017 15:54 | 720 | 5.44 | 12.56 | 15.52 | 21.99 | 15.364 | |
| 6/14/2017 15:55 | 780 | 5.463 | 12.61 | 15.57 | 21.94 | 15.177 | |
| 6/14/2017 15:56 | 840 | 5.483 | 12.66 | 15.62 | 21.89 | 15.075 | |
| 6/14/2017 15:57 | 900 | 5.507 | 12.72 | 15.67 | 21.84 | 14.977 | |
| 6/14/2017 15:58 | 960 | 5.525 | 12.76 | 15.71 | 21.80 | 14.92 | |
| 6/14/2017 15:59 | 1020 | 5.545 | 12.80 | 15.76 | 21.75 | 14.855 | |
| 6/14/2017 16:00 | 1080 | 5.564 | 12.85 | 15.80 | 21.71 | 14.824 | |
| 6/14/2017 16:01 | 1140 | 5.583 | 12.89 | 15.85 | 21.66 | 14.762 | |
| 6/14/2017 16:02 | 1200 | 5.598 | 12.93 | 15.88 | 21.63 | 14.735 | |

| | | | | | | | | |
|-----------------|------|----|-------|-------|-------|-------|-------|--------|
| 6/14/2017 16:03 | 1260 | 21 | 5.615 | 12.96 | 15.92 | 21.59 | 9.667 | 14.724 |
| 6/14/2017 16:04 | 1320 | 22 | 5.632 | 13.00 | 15.96 | 21.55 | 9.629 | 14.685 |
| 6/14/2017 16:05 | 1380 | 23 | 5.646 | 13.04 | 15.99 | 21.52 | 9.595 | 14.702 |
| 6/14/2017 16:06 | 1440 | 24 | 5.663 | 13.08 | 16.03 | 21.48 | 9.558 | 14.681 |
| 6/14/2017 16:07 | 1500 | 25 | 5.677 | 13.11 | 16.06 | 21.45 | 9.525 | 14.675 |
| 6/14/2017 16:08 | 1560 | 26 | 5.687 | 13.13 | 16.09 | 21.42 | 9.501 | 14.653 |
| 6/14/2017 16:09 | 1620 | 27 | 5.701 | 13.16 | 16.12 | 21.39 | 9.47 | 14.63 |
| 6/14/2017 16:10 | 1680 | 28 | 5.713 | 13.19 | 16.15 | 21.36 | 9.441 | 14.635 |
| 6/14/2017 16:11 | 1740 | 29 | 5.725 | 13.22 | 16.17 | 21.34 | 9.414 | 14.626 |
| 6/14/2017 16:12 | 1800 | 30 | 5.736 | 13.24 | 16.20 | 21.31 | 9.387 | 14.639 |
| 6/14/2017 16:13 | 1860 | 31 | 5.746 | 13.27 | 16.22 | 21.29 | 9.365 | 14.614 |
| 6/14/2017 16:14 | 1920 | 32 | 5.758 | 13.29 | 16.25 | 21.26 | 9.338 | 14.646 |
| 6/14/2017 16:15 | 1980 | 33 | 5.768 | 13.32 | 16.27 | 21.24 | 9.313 | 14.632 |
| 6/14/2017 16:16 | 2040 | 34 | 5.775 | 13.33 | 16.29 | 21.22 | 9.298 | 14.635 |
| 6/14/2017 16:17 | 2100 | 35 | 5.785 | 13.36 | 16.31 | 21.20 | 9.276 | 14.627 |
| 6/14/2017 16:18 | 2160 | 36 | 5.793 | 13.38 | 16.33 | 21.18 | 9.256 | 14.635 |
| 6/14/2017 16:19 | 2220 | 37 | 5.801 | 13.39 | 16.35 | 21.16 | 9.237 | 14.632 |
| 6/14/2017 16:20 | 2280 | 38 | 5.812 | 13.42 | 16.37 | 21.14 | 9.213 | 14.624 |
| 6/14/2017 16:21 | 2340 | 39 | 5.818 | 13.43 | 16.39 | 21.12 | 9.2 | 14.621 |
| 6/14/2017 16:22 | 2400 | 40 | 5.826 | 13.45 | 16.41 | 21.10 | 9.18 | 14.606 |
| 6/14/2017 16:23 | 2460 | 41 | 5.834 | 13.47 | 16.43 | 21.08 | 9.162 | 14.616 |
| 6/14/2017 16:24 | 2520 | 42 | 5.839 | 13.48 | 16.44 | 21.07 | 9.151 | 14.624 |
| 6/14/2017 16:25 | 2580 | 43 | 5.845 | 13.50 | 16.45 | 21.06 | 9.136 | 14.618 |
| 6/14/2017 16:26 | 2640 | 44 | 5.853 | 13.51 | 16.47 | 21.04 | 9.119 | 14.612 |
| 6/14/2017 16:27 | 2700 | 45 | 5.857 | 13.52 | 16.48 | 21.03 | 9.108 | 14.628 |
| 6/14/2017 16:28 | 2760 | 46 | 5.865 | 13.54 | 16.50 | 21.01 | 9.09 | 14.596 |
| 6/14/2017 16:29 | 2820 | 47 | 5.871 | 13.56 | 16.51 | 21.00 | 9.077 | 14.602 |
| 6/14/2017 16:30 | 2880 | 48 | 5.874 | 13.56 | 16.52 | 20.99 | 9.07 | 14.601 |
| 6/14/2017 16:31 | 2940 | 49 | 5.882 | 13.58 | 16.54 | 20.97 | 9.051 | 14.621 |
| 6/14/2017 16:32 | 3000 | 50 | 5.886 | 13.59 | 16.55 | 20.96 | 9.042 | 14.606 |
| 6/14/2017 16:33 | 3060 | 51 | 5.889 | 13.60 | 16.55 | 20.96 | 9.035 | 14.613 |
| 6/14/2017 16:34 | 3120 | 52 | 5.893 | 13.61 | 16.56 | 20.95 | 9.026 | 14.61 |
| 6/14/2017 16:35 | 3180 | 53 | 5.898 | 13.62 | 16.57 | 20.94 | 9.014 | 14.607 |
| 6/14/2017 16:36 | 3240 | 54 | 5.904 | 13.63 | 16.59 | 20.92 | 9 | 14.61 |
| 6/14/2017 16:37 | 3300 | 55 | 5.906 | 13.64 | 16.59 | 20.92 | 8.996 | 14.614 |
| 6/14/2017 16:38 | 3360 | 56 | 5.911 | 13.65 | 16.60 | 20.91 | 8.984 | 14.616 |
| 6/14/2017 16:39 | 3420 | 57 | 5.916 | 13.66 | 16.61 | 20.90 | 8.973 | 14.623 |
| 6/14/2017 16:40 | 3480 | 58 | 5.92 | 13.67 | 16.62 | 20.89 | 8.962 | 14.597 |
| 6/14/2017 16:41 | 3540 | 59 | 5.921 | 13.67 | 16.63 | 20.88 | 8.96 | 14.603 |
| 6/14/2017 16:42 | 3600 | 60 | 5.926 | 13.68 | 16.64 | 20.87 | 8.95 | 14.621 |
| 6/14/2017 16:43 | 3660 | 61 | 5.928 | 13.69 | 16.64 | 20.87 | 8.945 | 14.584 |
| 6/14/2017 16:44 | 3720 | 62 | 5.933 | 13.70 | 16.65 | 20.86 | 8.932 | 14.593 |
| 6/14/2017 16:45 | 3780 | 63 | 5.936 | 13.71 | 16.66 | 20.85 | 8.927 | 14.578 |
| 6/14/2017 16:46 | 3840 | 64 | 5.935 | 13.70 | 16.66 | 20.85 | 8.928 | 14.611 |
| 6/14/2017 16:47 | 3900 | 65 | 5.94 | 13.71 | 16.67 | 20.84 | 8.916 | 14.584 |
| 6/14/2017 16:48 | 3960 | 66 | 5.942 | 13.72 | 16.67 | 20.84 | 8.911 | 14.597 |
| 6/14/2017 16:49 | 4020 | 67 | 5.944 | 13.72 | 16.68 | 20.83 | 8.908 | 14.61 |

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| 6/14/2017 16:50 | 4080 | 68 | 5.948 | 13.73 | 16.69 | 20.82 | 8.899 | 14.598 |
| 6/14/2017 16:51 | 4140 | 69 | 5.949 | 13.74 | 16.69 | 20.82 | 8.896 | 14.594 |
| 6/14/2017 16:52 | 4200 | 70 | 5.953 | 13.74 | 16.70 | 20.81 | 8.887 | 14.606 |
| 6/14/2017 16:53 | 4260 | 71 | 5.953 | 13.74 | 16.70 | 20.81 | 8.887 | 14.629 |
| 6/14/2017 16:54 | 4320 | 72 | 5.956 | 13.75 | 16.71 | 20.80 | 8.881 | 14.608 |
| 6/14/2017 16:55 | 4380 | 73 | 5.959 | 13.76 | 16.71 | 20.80 | 8.872 | 14.599 |
| 6/14/2017 16:56 | 4440 | 74 | 5.96 | 13.76 | 16.72 | 20.79 | 8.87 | 14.613 |
| 6/14/2017 16:57 | 4500 | 75 | 5.963 | 13.77 | 16.72 | 20.79 | 8.865 | 14.609 |
| 6/14/2017 16:58 | 4560 | 76 | 5.964 | 13.77 | 16.73 | 20.78 | 8.862 | 14.594 |
| 6/14/2017 16:59 | 4620 | 77 | 5.965 | 13.77 | 16.73 | 20.78 | 8.859 | 14.593 |
| 6/14/2017 17:00 | 4680 | 78 | 5.967 | 13.78 | 16.73 | 20.78 | 8.855 | 14.64 |
| 6/14/2017 17:01 | 4740 | 79 | 5.971 | 13.79 | 16.74 | 20.77 | 8.845 | 14.616 |
| 6/14/2017 17:02 | 4800 | 80 | 5.973 | 13.79 | 16.75 | 20.76 | 8.841 | 14.625 |
| 6/14/2017 17:03 | 4860 | 81 | 5.975 | 13.80 | 16.75 | 20.76 | 8.837 | 14.599 |
| 6/14/2017 17:04 | 4920 | 82 | 5.976 | 13.80 | 16.75 | 20.76 | 8.833 | 14.603 |
| 6/14/2017 17:05 | 4980 | 83 | 5.977 | 13.80 | 16.76 | 20.75 | 8.832 | 14.605 |
| 6/14/2017 17:06 | 5040 | 84 | 5.977 | 13.80 | 16.76 | 20.75 | 8.831 | 14.603 |
| 6/14/2017 17:07 | 5100 | 85 | 5.979 | 13.80 | 16.76 | 20.75 | 8.828 | 14.592 |
| 6/14/2017 17:08 | 5160 | 86 | 5.982 | 13.81 | 16.77 | 20.74 | 8.821 | 14.578 |
| 6/14/2017 17:09 | 5220 | 87 | 5.98 | 13.81 | 16.76 | 20.75 | 8.825 | 14.586 |
| 6/14/2017 17:10 | 5280 | 88 | 5.984 | 13.82 | 16.77 | 20.74 | 8.815 | 14.594 |
| 6/14/2017 17:11 | 5340 | 89 | 5.986 | 13.82 | 16.78 | 20.73 | 8.811 | 14.575 |
| 6/14/2017 17:12 | 5400 | 90 | 5.987 | 13.82 | 16.78 | 20.73 | 8.809 | 14.588 |
| 6/14/2017 17:13 | 5460 | 91 | 5.988 | 13.83 | 16.78 | 20.73 | 8.807 | 14.585 |
| 6/14/2017 17:14 | 5520 | 92 | 5.989 | 13.83 | 16.78 | 20.73 | 8.804 | 14.566 |
| 6/14/2017 17:15 | 5580 | 93 | 5.99 | 13.83 | 16.79 | 20.72 | 8.801 | 14.575 |
| 6/14/2017 17:16 | 5640 | 94 | 5.989 | 13.83 | 16.78 | 20.73 | 8.803 | 14.55 |
| 6/14/2017 17:17 | 5700 | 95 | 5.991 | 13.83 | 16.79 | 20.72 | 8.799 | 14.586 |
| 6/14/2017 17:18 | 5760 | 96 | 5.991 | 13.83 | 16.79 | 20.72 | 8.798 | 14.563 |
| 6/14/2017 17:19 | 5820 | 97 | 5.991 | 13.83 | 16.79 | 20.72 | 8.798 | 14.568 |
| 6/14/2017 17:20 | 5880 | 98 | 5.994 | 13.84 | 16.79 | 20.72 | 8.792 | 14.558 |
| 6/14/2017 17:21 | 5940 | 99 | 5.995 | 13.84 | 16.80 | 20.71 | 8.79 | 14.553 |
| 6/14/2017 17:22 | 6000 | 100 | 5.996 | 13.84 | 16.80 | 20.71 | 8.788 | 14.551 |
| 6/14/2017 17:23 | 6060 | 101 | 5.996 | 13.84 | 16.80 | 20.71 | 8.788 | 14.579 |
| 6/14/2017 17:24 | 6120 | 102 | 5.996 | 13.84 | 16.80 | 20.71 | 8.787 | 14.57 |
| 6/14/2017 17:25 | 6180 | 103 | 5.996 | 13.84 | 16.80 | 20.71 | 8.787 | 14.567 |
| 6/14/2017 17:26 | 6240 | 104 | 5.999 | 13.85 | 16.81 | 20.70 | 8.782 | 14.567 |
| 6/14/2017 17:27 | 6300 | 105 | 5.999 | 13.85 | 16.81 | 20.70 | 8.781 | 14.571 |
| 6/14/2017 17:28 | 6360 | 106 | 5.998 | 13.85 | 16.80 | 20.71 | 8.782 | 14.556 |
| 6/14/2017 17:29 | 6420 | 107 | 5.999 | 13.85 | 16.81 | 20.70 | 8.78 | 14.545 |
| 6/14/2017 17:30 | 6480 | 108 | 6.002 | 13.86 | 16.81 | 20.70 | 8.775 | 14.572 |
| 6/14/2017 17:31 | 6540 | 109 | 6.002 | 13.86 | 16.81 | 20.70 | 8.774 | 14.526 |
| 6/14/2017 17:32 | 6600 | 110 | 6.003 | 13.86 | 16.82 | 20.69 | 8.771 | 14.559 |
| 6/14/2017 17:33 | 6660 | 111 | 6.003 | 13.86 | 16.82 | 20.69 | 8.771 | 14.59 |
| 6/14/2017 17:34 | 6720 | 112 | 6.004 | 13.86 | 16.82 | 20.69 | 8.77 | 14.575 |
| 6/14/2017 17:35 | 6780 | 113 | 6.005 | 13.86 | 16.82 | 20.69 | 8.767 | 14.585 |
| 6/14/2017 17:36 | 6840 | 114 | 6.004 | 13.86 | 16.82 | 20.69 | 8.77 | 14.572 |

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| 6/14/2017 17:37 | 6900 | 115 | 6.006 | 13.87 | 16.82 | 20.69 | 8.765 | 14.567 |
| 6/14/2017 17:38 | 6960 | 116 | 6.007 | 13.87 | 16.82 | 20.69 | 8.763 | 14.583 |
| 6/14/2017 17:39 | 7020 | 117 | 6.005 | 13.86 | 16.82 | 20.69 | 8.767 | 14.588 |
| 6/14/2017 17:40 | 7080 | 118 | 6.009 | 13.87 | 16.83 | 20.68 | 8.759 | 14.587 |
| 6/14/2017 17:41 | 7140 | 119 | 6.007 | 13.87 | 16.82 | 20.69 | 8.762 | 14.553 |
| 6/14/2017 17:42 | 7200 | 120 | 6.008 | 13.87 | 16.83 | 20.68 | 8.76 | 14.597 |
| 6/14/2017 17:43 | 7260 | 121 | 6.009 | 13.87 | 16.83 | 20.68 | 8.757 | 14.564 |
| 6/14/2017 17:44 | 7320 | 122 | 6.01 | 13.88 | 16.83 | 20.68 | 8.756 | 14.578 |
| 6/14/2017 17:45 | 7380 | 123 | 6.01 | 13.88 | 16.83 | 20.68 | 8.756 | 14.555 |
| 6/14/2017 17:46 | 7440 | 124 | 6.012 | 13.88 | 16.84 | 20.67 | 8.751 | 14.568 |
| 6/14/2017 17:47 | 7500 | 125 | 6.012 | 13.88 | 16.84 | 20.67 | 8.75 | 14.588 |
| 6/14/2017 17:48 | 7560 | 126 | 6.011 | 13.88 | 16.83 | 20.68 | 8.754 | 14.553 |
| 6/14/2017 17:49 | 7620 | 127 | 6.014 | 13.89 | 16.84 | 20.67 | 8.747 | 14.576 |
| 6/14/2017 17:50 | 7680 | 128 | 6.014 | 13.89 | 16.84 | 20.67 | 8.747 | 14.564 |
| 6/14/2017 17:51 | 7740 | 129 | 6.015 | 13.89 | 16.84 | 20.67 | 8.744 | 14.553 |
| 6/14/2017 17:52 | 7800 | 130 | 6.014 | 13.89 | 16.84 | 20.67 | 8.747 | 14.567 |
| 6/14/2017 17:53 | 7860 | 131 | 6.015 | 13.89 | 16.84 | 20.67 | 8.744 | 14.553 |
| 6/14/2017 17:54 | 7920 | 132 | 6.014 | 13.89 | 16.84 | 20.67 | 8.746 | 14.553 |
| 6/14/2017 17:55 | 7980 | 133 | 6.017 | 13.89 | 16.85 | 20.66 | 8.74 | 14.563 |
| 6/14/2017 17:56 | 8040 | 134 | 6.016 | 13.89 | 16.85 | 20.66 | 8.742 | 14.537 |
| 6/14/2017 17:57 | 8100 | 135 | 6.016 | 13.89 | 16.85 | 20.66 | 8.741 | 14.54 |
| 6/14/2017 17:58 | 8160 | 136 | 6.017 | 13.89 | 16.85 | 20.66 | 8.739 | 14.535 |
| 6/14/2017 17:59 | 8220 | 137 | 6.017 | 13.89 | 16.85 | 20.66 | 8.739 | 14.521 |
| 6/14/2017 18:00 | 8280 | 138 | 6.017 | 13.89 | 16.85 | 20.66 | 8.739 | 14.553 |
| 6/14/2017 18:01 | 8340 | 139 | 6.019 | 13.90 | 16.85 | 20.66 | 8.735 | 14.536 |
| 6/14/2017 18:02 | 8400 | 140 | 6.017 | 13.89 | 16.85 | 20.66 | 8.74 | 14.553 |
| 6/14/2017 18:03 | 8460 | 141 | 6.019 | 13.90 | 16.85 | 20.66 | 8.735 | 14.557 |
| 6/14/2017 18:04 | 8520 | 142 | 6.02 | 13.90 | 16.85 | 20.66 | 8.733 | 14.524 |
| 6/14/2017 18:05 | 8580 | 143 | 6.021 | 13.90 | 16.86 | 20.65 | 8.73 | 14.547 |
| 6/14/2017 18:06 | 8640 | 144 | 6.02 | 13.90 | 16.85 | 20.66 | 8.732 | 14.543 |
| 6/14/2017 18:07 | 8700 | 145 | 6.021 | 13.90 | 16.86 | 20.65 | 8.73 | 14.55 |
| 6/14/2017 18:08 | 8760 | 146 | 6.021 | 13.90 | 16.86 | 20.65 | 8.734 | 14.551 |
| 6/14/2017 18:09 | 8820 | 147 | 6.019 | 13.90 | 16.85 | 20.66 | 8.731 | 14.566 |
| 6/14/2017 18:10 | 8880 | 148 | 6.021 | 13.90 | 16.86 | 20.65 | 8.73 | 14.532 |
| 6/14/2017 18:11 | 8940 | 149 | 6.02 | 13.90 | 16.85 | 20.66 | 8.733 | 14.533 |
| 6/14/2017 18:12 | 9000 | 150 | 6.022 | 13.90 | 16.86 | 20.65 | 8.728 | 14.547 |
| 6/14/2017 18:13 | 9060 | 151 | 6.022 | 13.90 | 16.86 | 20.65 | 8.728 | 14.551 |
| 6/14/2017 18:14 | 9120 | 152 | 6.022 | 13.90 | 16.86 | 20.65 | 8.727 | 14.545 |
| 6/14/2017 18:15 | 9180 | 153 | 6.021 | 13.90 | 16.86 | 20.65 | 8.731 | 14.552 |
| 6/14/2017 18:16 | 9240 | 154 | 6.025 | 13.91 | 16.87 | 20.64 | 8.722 | 14.524 |
| 6/14/2017 18:17 | 9300 | 155 | 6.024 | 13.91 | 16.86 | 20.65 | 8.724 | 14.547 |
| 6/14/2017 18:18 | 9360 | 156 | 6.024 | 13.91 | 16.86 | 20.65 | 8.724 | 14.531 |
| 6/14/2017 18:19 | 9420 | 157 | 6.024 | 13.91 | 16.86 | 20.65 | 8.724 | 14.534 |
| 6/14/2017 18:20 | 9480 | 158 | 6.026 | 13.91 | 16.87 | 20.64 | 8.719 | 14.547 |
| 6/14/2017 18:21 | 9540 | 159 | 6.026 | 13.91 | 16.87 | 20.64 | 8.719 | 14.517 |
| 6/14/2017 18:22 | 9600 | 160 | 6.025 | 13.91 | 16.87 | 20.64 | 8.721 | 14.522 |
| 6/14/2017 18:23 | 9660 | 161 | 6.025 | 13.91 | 16.87 | 20.64 | 8.722 | 14.548 |

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| 6/14/2017 18:24 | 9720 | 162 | 6.027 | 13.92 | 16.87 | 20.64 | 8.717 | 14.548 |
| 6/14/2017 18:25 | 9780 | 163 | 6.026 | 13.91 | 16.87 | 20.64 | 8.719 | 14.528 |
| 6/14/2017 18:26 | 9840 | 164 | 6.027 | 13.92 | 16.87 | 20.64 | 8.716 | 14.533 |
| 6/14/2017 18:27 | 9900 | 165 | 6.025 | 13.91 | 16.87 | 20.64 | 8.721 | 14.521 |
| 6/14/2017 18:28 | 9960 | 166 | 6.026 | 13.91 | 16.87 | 20.64 | 8.717 | 14.559 |
| 6/14/2017 18:29 | 10020 | 167 | 6.026 | 13.91 | 16.87 | 20.64 | 8.718 | 14.537 |
| 6/14/2017 18:30 | 10080 | 168 | 6.028 | 13.92 | 16.87 | 20.64 | 8.713 | 14.543 |
| 6/14/2017 18:31 | 10140 | 169 | 6.027 | 13.92 | 16.87 | 20.64 | 8.716 | 14.526 |
| 6/14/2017 18:32 | 10200 | 170 | 6.025 | 13.91 | 16.87 | 20.64 | 8.72 | 14.562 |
| 6/14/2017 18:33 | 10260 | 171 | 6.027 | 13.92 | 16.87 | 20.64 | 8.717 | 14.545 |
| 6/14/2017 18:34 | 10320 | 172 | 6.028 | 13.92 | 16.87 | 20.64 | 8.714 | 14.541 |
| 6/14/2017 18:35 | 10380 | 173 | 6.029 | 13.92 | 16.88 | 20.63 | 8.712 | 14.535 |
| 6/14/2017 18:36 | 10440 | 174 | 6.029 | 13.92 | 16.88 | 20.63 | 8.711 | 14.572 |
| 6/14/2017 18:37 | 10500 | 175 | 6.029 | 13.92 | 16.88 | 20.63 | 8.712 | 14.54 |
| 6/14/2017 18:38 | 10560 | 176 | 6.028 | 13.92 | 16.87 | 20.64 | 8.713 | 14.529 |
| 6/14/2017 18:39 | 10620 | 177 | 6.03 | 13.92 | 16.88 | 20.63 | 8.71 | 14.552 |
| 6/14/2017 18:40 | 10680 | 178 | 6.03 | 13.92 | 16.88 | 20.63 | 8.708 | 14.544 |
| 6/14/2017 18:41 | 10740 | 179 | 6.029 | 13.92 | 16.88 | 20.63 | 8.711 | 14.514 |
| 6/14/2017 18:42 | 10800 | 180 | 6.031 | 13.92 | 16.88 | 20.63 | 8.707 | 14.528 |
| 6/14/2017 18:43 | 10860 | 181 | 6.032 | 13.93 | 16.88 | 20.63 | 8.706 | 14.531 |
| 6/14/2017 18:44 | 10920 | 182 | 6.032 | 13.93 | 16.88 | 20.63 | 8.705 | 14.537 |
| 6/14/2017 18:45 | 10980 | 183 | 6.031 | 13.92 | 16.88 | 20.63 | 8.706 | 14.521 |
| 6/14/2017 18:46 | 11040 | 184 | 6.032 | 13.93 | 16.88 | 20.63 | 8.704 | 14.518 |
| 6/14/2017 18:47 | 11100 | 185 | 6.032 | 13.93 | 16.88 | 20.63 | 8.705 | 14.524 |
| 6/14/2017 18:48 | 11160 | 186 | 6.033 | 13.93 | 16.88 | 20.63 | 8.703 | 14.519 |
| 6/14/2017 18:49 | 11220 | 187 | 6.032 | 13.93 | 16.88 | 20.63 | 8.705 | 14.534 |
| 6/14/2017 18:50 | 11280 | 188 | 6.034 | 13.93 | 16.89 | 20.62 | 8.699 | 14.534 |
| 6/14/2017 18:51 | 11340 | 189 | 6.033 | 13.93 | 16.88 | 20.63 | 8.701 | 14.552 |
| 6/14/2017 18:52 | 11400 | 190 | 6.034 | 13.93 | 16.89 | 20.62 | 8.699 | 14.546 |
| 6/14/2017 18:53 | 11460 | 191 | 6.034 | 13.93 | 16.89 | 20.62 | 8.699 | 14.551 |
| 6/14/2017 18:54 | 11520 | 192 | 6.034 | 13.93 | 16.89 | 20.62 | 8.701 | 14.526 |
| 6/14/2017 18:55 | 11580 | 193 | 6.031 | 13.92 | 16.88 | 20.63 | 8.706 | 14.513 |
| 6/14/2017 18:56 | 11640 | 194 | 6.035 | 13.93 | 16.89 | 20.62 | 8.697 | 14.522 |
| 6/14/2017 18:57 | 11700 | 195 | 6.035 | 13.93 | 16.89 | 20.62 | 8.699 | 14.516 |
| 6/14/2017 18:58 | 11760 | 196 | 6.035 | 13.93 | 16.89 | 20.62 | 8.698 | 14.509 |
| 6/14/2017 18:59 | 11820 | 197 | 6.035 | 13.93 | 16.89 | 20.62 | 8.698 | 14.532 |
| 6/14/2017 19:00 | 11880 | 198 | 6.036 | 13.94 | 16.89 | 20.62 | 8.695 | 14.504 |
| 6/14/2017 19:01 | 11940 | 199 | 6.036 | 13.94 | 16.89 | 20.62 | 8.695 | 14.516 |
| 6/14/2017 19:02 | 12000 | 200 | 6.037 | 13.94 | 16.89 | 20.62 | 8.694 | 14.527 |
| 6/14/2017 19:03 | 12060 | 201 | 6.036 | 13.94 | 16.89 | 20.62 | 8.695 | 14.524 |
| 6/14/2017 19:04 | 12120 | 202 | 6.036 | 13.94 | 16.89 | 20.62 | 8.696 | 14.521 |
| 6/14/2017 19:05 | 12180 | 203 | 6.037 | 13.94 | 16.89 | 20.62 | 8.693 | 14.517 |
| 6/14/2017 19:06 | 12240 | 204 | 6.036 | 13.94 | 16.89 | 20.62 | 8.696 | 14.512 |
| 6/14/2017 19:07 | 12300 | 205 | 6.036 | 13.94 | 16.89 | 20.62 | 8.695 | 14.532 |
| 6/14/2017 19:08 | 12360 | 206 | 6.037 | 13.94 | 16.89 | 20.62 | 8.694 | 14.513 |
| 6/14/2017 19:09 | 12420 | 207 | 6.036 | 13.94 | 16.89 | 20.62 | 8.695 | 14.505 |
| 6/14/2017 19:10 | 12480 | 208 | 6.038 | 13.94 | 16.90 | 20.61 | 8.691 | 14.498 |

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| 6/14/2017 19:11 | 12540 | 209 | 6.039 | 13.94 | 16.90 | 20.61 | 8.687 | 14.508 |
| 6/14/2017 19:12 | 12600 | 210 | 6.037 | 13.94 | 16.89 | 20.62 | 8.693 | 14.531 |
| 6/14/2017 19:13 | 12660 | 211 | 6.038 | 13.94 | 16.90 | 20.61 | 8.69 | 14.494 |
| 6/14/2017 19:14 | 12720 | 212 | 6.038 | 13.94 | 16.90 | 20.61 | 8.691 | 14.513 |
| 6/14/2017 19:15 | 12780 | 213 | 6.038 | 13.94 | 16.90 | 20.61 | 8.691 | 14.538 |
| 6/14/2017 19:16 | 12840 | 214 | 6.038 | 13.94 | 16.90 | 20.61 | 8.691 | 14.503 |
| 6/14/2017 19:17 | 12900 | 215 | 6.04 | 13.95 | 16.90 | 20.61 | 8.687 | 14.524 |
| 6/14/2017 19:18 | 12960 | 216 | 6.04 | 13.95 | 16.90 | 20.61 | 8.687 | 14.527 |
| 6/14/2017 19:19 | 13020 | 217 | 6.039 | 13.94 | 16.90 | 20.61 | 8.688 | 14.543 |
| 6/14/2017 19:20 | 13080 | 218 | 6.04 | 13.95 | 16.90 | 20.61 | 8.686 | 14.513 |
| 6/14/2017 19:21 | 13140 | 219 | 6.04 | 13.95 | 16.90 | 20.61 | 8.685 | 14.512 |
| 6/14/2017 19:22 | 13200 | 220 | 6.042 | 13.95 | 16.91 | 20.60 | 8.682 | 14.511 |
| 6/14/2017 19:23 | 13260 | 221 | 6.042 | 13.95 | 16.91 | 20.60 | 8.681 | 14.5 |
| 6/14/2017 19:24 | 13320 | 222 | 6.042 | 13.95 | 16.91 | 20.60 | 8.682 | 14.525 |
| 6/14/2017 19:25 | 13380 | 223 | 6.041 | 13.95 | 16.90 | 20.61 | 8.683 | 14.507 |
| 6/14/2017 19:26 | 13440 | 224 | 6.041 | 13.95 | 16.90 | 20.61 | 8.684 | 14.527 |
| 6/14/2017 19:27 | 13500 | 225 | 6.04 | 13.95 | 16.90 | 20.61 | 8.686 | 14.52 |
| 6/14/2017 19:28 | 13560 | 226 | 6.042 | 13.95 | 16.91 | 20.60 | 8.682 | 14.488 |
| 6/14/2017 19:29 | 13620 | 227 | 6.042 | 13.95 | 16.91 | 20.60 | 8.682 | 14.513 |
| 6/14/2017 19:30 | 13680 | 228 | 6.044 | 13.95 | 16.91 | 20.60 | 8.678 | 14.525 |
| 6/14/2017 19:31 | 13740 | 229 | 6.041 | 13.95 | 16.90 | 20.61 | 8.684 | 14.497 |
| 6/14/2017 19:32 | 13800 | 230 | 6.043 | 13.95 | 16.91 | 20.60 | 8.679 | 14.516 |
| 6/14/2017 19:33 | 13860 | 231 | 6.041 | 13.95 | 16.90 | 20.61 | 8.683 | 14.507 |
| 6/14/2017 19:34 | 13920 | 232 | 6.041 | 13.95 | 16.90 | 20.61 | 8.683 | 14.512 |
| 6/14/2017 19:35 | 13980 | 233 | 6.043 | 13.95 | 16.91 | 20.60 | 8.68 | 14.508 |
| 6/14/2017 19:36 | 14040 | 234 | 6.044 | 13.95 | 16.91 | 20.60 | 8.676 | 14.515 |
| 6/14/2017 19:37 | 14100 | 235 | 6.045 | 13.96 | 16.91 | 20.60 | 8.674 | 14.52 |
| 6/14/2017 19:38 | 14160 | 236 | 6.044 | 13.95 | 16.91 | 20.60 | 8.677 | 14.504 |
| 6/14/2017 19:39 | 14220 | 237 | 6.045 | 13.96 | 16.91 | 20.60 | 8.675 | 14.499 |
| 6/14/2017 19:40 | 14280 | 238 | 6.045 | 13.96 | 16.91 | 20.60 | 8.674 | 14.493 |
| 6/14/2017 19:41 | 14340 | 239 | 6.046 | 13.96 | 16.92 | 20.59 | 8.672 | 14.513 |
| 6/14/2017 19:42 | 14400 | 240 | 6.046 | 13.96 | 16.92 | 20.59 | 8.673 | 14.513 |
| 6/14/2017 19:43 | 14460 | 241 | 6.046 | 13.96 | 16.92 | 20.59 | 8.672 | 14.521 |
| 6/14/2017 19:44 | 14520 | 242 | 6.046 | 13.96 | 16.92 | 20.59 | 8.673 | 14.516 |
| 6/14/2017 19:45 | 14580 | 243 | 6.046 | 13.96 | 16.92 | 20.59 | 8.673 | 14.507 |
| 6/14/2017 19:46 | 14640 | 244 | 6.045 | 13.96 | 16.91 | 20.60 | 8.674 | 14.507 |
| 6/14/2017 19:47 | 14700 | 245 | 6.045 | 13.96 | 16.91 | 20.60 | 8.675 | 14.518 |
| 6/14/2017 19:48 | 14760 | 246 | 6.048 | 13.96 | 16.92 | 20.59 | 8.667 | 14.534 |
| 6/14/2017 19:49 | 14820 | 247 | 6.046 | 13.96 | 16.92 | 20.59 | 8.671 | 14.532 |
| 6/14/2017 19:50 | 14880 | 248 | 6.046 | 13.96 | 16.92 | 20.59 | 8.673 | 14.506 |
| 6/14/2017 19:51 | 14940 | 249 | 6.049 | 13.97 | 16.92 | 20.59 | 8.665 | 14.514 |
| 6/14/2017 19:52 | 15000 | 250 | 6.048 | 13.96 | 16.92 | 20.59 | 8.668 | 14.493 |
| 6/14/2017 19:53 | 15060 | 251 | 6.048 | 13.96 | 16.92 | 20.59 | 8.668 | 14.509 |
| 6/14/2017 19:54 | 15120 | 252 | 6.048 | 13.96 | 16.92 | 20.59 | 8.667 | 14.515 |
| 6/14/2017 19:55 | 15180 | 253 | 6.05 | 13.97 | 16.92 | 20.59 | 8.664 | 14.498 |
| 6/14/2017 19:56 | 15240 | 254 | 6.048 | 13.96 | 16.92 | 20.59 | 8.668 | 14.504 |
| 6/14/2017 19:57 | 15300 | 255 | 6.05 | 13.97 | 16.92 | 20.59 | 8.663 | 14.511 |

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| 6/14/2017 19:58 | 15360 | 256 | 6.048 | 13.96 | 16.92 | 20.59 | 8.668 | 14.497 |
| 6/14/2017 19:59 | 15420 | 257 | 6.048 | 13.96 | 16.92 | 20.59 | 8.667 | 14.505 |
| 6/14/2017 20:00 | 15480 | 258 | 6.05 | 13.97 | 16.92 | 20.59 | 8.664 | 14.502 |
| 6/14/2017 20:01 | 15540 | 259 | 6.048 | 13.96 | 16.92 | 20.59 | 8.667 | 14.486 |
| 6/14/2017 20:02 | 15600 | 260 | 6.049 | 13.97 | 16.92 | 20.59 | 8.665 | 14.494 |
| 6/14/2017 20:03 | 15660 | 261 | 6.05 | 13.97 | 16.92 | 20.59 | 8.662 | 14.501 |
| 6/14/2017 20:04 | 15720 | 262 | 6.052 | 13.97 | 16.93 | 20.58 | 8.66 | 14.505 |
| 6/14/2017 20:05 | 15780 | 263 | 6.05 | 13.97 | 16.92 | 20.59 | 8.664 | 14.513 |
| 6/14/2017 20:06 | 15840 | 264 | 6.051 | 13.97 | 16.93 | 20.58 | 8.661 | 14.51 |
| 6/14/2017 20:07 | 15900 | 265 | 6.049 | 13.97 | 16.92 | 20.59 | 8.664 | 14.523 |
| 6/14/2017 20:08 | 15960 | 266 | 6.049 | 13.97 | 16.92 | 20.59 | 8.664 | 14.513 |
| 6/14/2017 20:09 | 16020 | 267 | 6.052 | 13.97 | 16.93 | 20.58 | 8.66 | 14.499 |
| 6/14/2017 20:10 | 16080 | 268 | 6.051 | 13.97 | 16.93 | 20.58 | 8.66 | 14.507 |
| 6/14/2017 20:11 | 16140 | 269 | 6.052 | 13.97 | 16.93 | 20.58 | 8.658 | 14.493 |
| 6/14/2017 20:12 | 16200 | 270 | 6.053 | 13.98 | 16.93 | 20.58 | 8.655 | 14.505 |
| 6/14/2017 20:13 | 16260 | 271 | 6.052 | 13.97 | 16.93 | 20.58 | 8.658 | 14.513 |
| 6/14/2017 20:14 | 16320 | 272 | 6.052 | 13.97 | 16.93 | 20.58 | 8.658 | 14.499 |
| 6/14/2017 20:15 | 16380 | 273 | 6.052 | 13.97 | 16.93 | 20.58 | 8.658 | 14.499 |
| 6/14/2017 20:16 | 16440 | 274 | 6.053 | 13.98 | 16.93 | 20.58 | 8.656 | 14.502 |
| 6/14/2017 20:17 | 16500 | 275 | 6.053 | 13.98 | 16.93 | 20.58 | 8.657 | 14.49 |
| 6/14/2017 20:18 | 16560 | 276 | 6.053 | 13.98 | 16.93 | 20.58 | 8.655 | 14.493 |
| 6/14/2017 20:19 | 16620 | 277 | 6.053 | 13.98 | 16.93 | 20.58 | 8.657 | 14.509 |
| 6/14/2017 20:20 | 16680 | 278 | 6.052 | 13.97 | 16.93 | 20.58 | 8.658 | 14.488 |
| 6/14/2017 20:21 | 16740 | 279 | 6.054 | 13.98 | 16.93 | 20.58 | 8.653 | 14.48 |
| 6/14/2017 20:22 | 16800 | 280 | 6.052 | 13.97 | 16.93 | 20.58 | 8.659 | 14.49 |
| 6/14/2017 20:23 | 16860 | 281 | 6.053 | 13.98 | 16.93 | 20.58 | 8.655 | 14.505 |
| 6/14/2017 20:24 | 16920 | 282 | 6.054 | 13.98 | 16.93 | 20.58 | 8.654 | 14.484 |
| 6/14/2017 20:25 | 16980 | 283 | 6.053 | 13.98 | 16.93 | 20.58 | 8.657 | 14.507 |
| 6/14/2017 20:26 | 17040 | 284 | 6.054 | 13.98 | 16.93 | 20.58 | 8.653 | 14.476 |
| 6/14/2017 20:27 | 17100 | 285 | 6.053 | 13.98 | 16.93 | 20.58 | 8.657 | 14.482 |
| 6/14/2017 20:28 | 17160 | 286 | 6.055 | 13.98 | 16.94 | 20.57 | 8.651 | 14.497 |
| 6/14/2017 20:29 | 17220 | 287 | 6.055 | 13.98 | 16.94 | 20.57 | 8.651 | 14.511 |
| 6/14/2017 20:30 | 17280 | 288 | 6.055 | 13.98 | 16.94 | 20.57 | 8.651 | 14.49 |
| 6/14/2017 20:31 | 17340 | 289 | 6.054 | 13.98 | 16.93 | 20.58 | 8.654 | 14.517 |
| 6/14/2017 20:32 | 17400 | 290 | 6.056 | 13.98 | 16.94 | 20.57 | 8.649 | 14.496 |
| 6/14/2017 20:33 | 17460 | 291 | 6.056 | 13.98 | 16.94 | 20.57 | 8.649 | 14.478 |
| 6/14/2017 20:34 | 17520 | 292 | 6.054 | 13.98 | 16.93 | 20.58 | 8.653 | 14.502 |
| 6/14/2017 20:35 | 17580 | 293 | 6.058 | 13.99 | 16.94 | 20.57 | 8.646 | 14.481 |
| 6/14/2017 20:36 | 17640 | 294 | 6.056 | 13.98 | 16.94 | 20.57 | 8.65 | 14.472 |
| 6/14/2017 20:37 | 17700 | 295 | 6.056 | 13.98 | 16.94 | 20.57 | 8.649 | 14.489 |
| 6/14/2017 20:38 | 17760 | 296 | 6.057 | 13.99 | 16.94 | 20.57 | 8.647 | 14.488 |
| 6/14/2017 20:39 | 17820 | 297 | 6.057 | 13.99 | 16.94 | 20.57 | 8.646 | 14.499 |
| 6/14/2017 20:40 | 17880 | 298 | 6.056 | 13.98 | 16.94 | 20.57 | 8.649 | 14.499 |
| 6/14/2017 20:41 | 17940 | 299 | 6.057 | 13.99 | 16.94 | 20.57 | 8.647 | 14.482 |
| 6/14/2017 20:42 | 18000 | 300 | 6.055 | 13.98 | 16.94 | 20.57 | 8.651 | 14.495 |
| 6/14/2017 20:43 | 18060 | 301 | 6.057 | 13.99 | 16.94 | 20.57 | 8.647 | 14.51 |
| 6/14/2017 20:44 | 18120 | 302 | 6.057 | 13.99 | 16.94 | 20.57 | 8.647 | 14.486 |

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| 6/14/2017 20:45 | 18180 | 303 | 6.056 | 13.98 | 16.94 | 20.57 | 8.649 | 14.521 |
| 6/14/2017 20:46 | 18240 | 304 | 6.057 | 13.99 | 16.94 | 20.57 | 8.646 | 14.474 |
| 6/14/2017 20:47 | 18300 | 305 | 6.057 | 13.99 | 16.94 | 20.57 | 8.647 | 14.475 |
| 6/14/2017 20:48 | 18360 | 306 | 6.057 | 13.99 | 16.94 | 20.57 | 8.646 | 14.49 |
| 6/14/2017 20:49 | 18420 | 307 | 6.057 | 13.99 | 16.94 | 20.57 | 8.646 | 14.487 |
| 6/14/2017 20:50 | 18480 | 308 | 6.057 | 13.99 | 16.94 | 20.57 | 8.647 | 14.477 |
| 6/14/2017 20:51 | 18540 | 309 | 6.058 | 13.99 | 16.94 | 20.57 | 8.644 | 14.456 |
| 6/14/2017 20:52 | 18600 | 310 | 6.056 | 13.98 | 16.94 | 20.57 | 8.65 | 14.469 |
| 6/14/2017 20:53 | 18660 | 311 | 6.058 | 13.99 | 16.94 | 20.57 | 8.645 | 14.459 |
| 6/14/2017 20:54 | 18720 | 312 | 6.059 | 13.99 | 16.95 | 20.56 | 8.643 | 14.475 |
| 6/14/2017 20:55 | 18780 | 313 | 6.061 | 13.99 | 16.95 | 20.56 | 8.638 | 14.51 |
| 6/14/2017 20:56 | 18840 | 314 | 6.058 | 13.99 | 16.94 | 20.57 | 8.644 | 14.483 |
| 6/14/2017 20:57 | 18900 | 315 | 6.06 | 13.99 | 16.95 | 20.56 | 8.64 | 14.497 |
| 6/14/2017 20:58 | 18960 | 316 | 6.059 | 13.99 | 16.95 | 20.56 | 8.642 | 14.475 |
| 6/14/2017 20:59 | 19020 | 317 | 6.06 | 13.99 | 16.95 | 20.56 | 8.64 | 14.479 |
| 6/14/2017 21:00 | 19080 | 318 | 6.059 | 13.99 | 16.95 | 20.56 | 8.641 | 14.483 |
| 6/14/2017 21:01 | 19140 | 319 | 6.06 | 13.99 | 16.95 | 20.56 | 8.64 | 14.468 |
| 6/14/2017 21:02 | 19200 | 320 | 6.058 | 13.99 | 16.94 | 20.57 | 8.644 | 14.48 |
| 6/14/2017 21:03 | 19260 | 321 | 6.061 | 13.99 | 16.95 | 20.56 | 8.639 | 14.499 |
| 6/14/2017 21:04 | 19320 | 322 | 6.061 | 13.99 | 16.95 | 20.56 | 8.637 | 14.458 |
| 6/14/2017 21:05 | 19380 | 323 | 6.061 | 13.99 | 16.95 | 20.56 | 8.637 | 14.464 |
| 6/14/2017 21:06 | 19440 | 324 | 6.06 | 13.99 | 16.95 | 20.56 | 8.639 | 14.473 |
| 6/14/2017 21:07 | 19500 | 325 | 6.059 | 13.99 | 16.95 | 20.56 | 8.641 | 14.463 |
| 6/14/2017 21:08 | 19560 | 326 | 6.063 | 14.00 | 16.95 | 20.56 | 8.633 | 14.452 |
| 6/14/2017 21:09 | 19620 | 327 | 6.061 | 13.99 | 16.95 | 20.56 | 8.639 | 14.482 |
| 6/14/2017 21:10 | 19680 | 328 | 6.062 | 14.00 | 16.95 | 20.56 | 8.636 | 14.466 |
| 6/14/2017 21:11 | 19740 | 329 | 6.062 | 14.00 | 16.95 | 20.56 | 8.636 | 14.472 |
| 6/14/2017 21:12 | 19800 | 330 | 6.059 | 13.99 | 16.95 | 20.56 | 8.642 | 14.47 |
| 6/14/2017 21:13 | 19860 | 331 | 6.061 | 13.99 | 16.95 | 20.56 | 8.637 | 14.469 |
| 6/14/2017 21:14 | 19920 | 332 | 6.062 | 14.00 | 16.95 | 20.56 | 8.636 | 14.467 |
| 6/14/2017 21:15 | 19980 | 333 | 6.06 | 13.99 | 16.95 | 20.56 | 8.639 | 14.454 |
| 6/14/2017 21:16 | 20040 | 334 | 6.061 | 13.99 | 16.95 | 20.56 | 8.637 | 14.471 |
| 6/14/2017 21:17 | 20100 | 335 | 6.062 | 14.00 | 16.95 | 20.56 | 8.636 | 14.467 |
| 6/14/2017 21:18 | 20160 | 336 | 6.061 | 13.99 | 16.95 | 20.56 | 8.638 | 14.466 |
| 6/14/2017 21:19 | 20220 | 337 | 6.064 | 14.00 | 16.96 | 20.55 | 8.632 | 14.461 |
| 6/14/2017 21:20 | 20280 | 338 | 6.062 | 14.00 | 16.95 | 20.56 | 8.635 | 14.445 |
| 6/14/2017 21:21 | 20340 | 339 | 6.062 | 14.00 | 16.95 | 20.56 | 8.636 | 14.46 |
| 6/14/2017 21:22 | 20400 | 340 | 6.064 | 14.00 | 16.96 | 20.55 | 8.631 | 14.479 |
| 6/14/2017 21:23 | 20460 | 341 | 6.062 | 14.00 | 16.95 | 20.56 | 8.634 | 14.48 |
| 6/14/2017 21:24 | 20520 | 342 | 6.063 | 14.00 | 16.95 | 20.56 | 8.632 | 14.461 |
| 6/14/2017 21:25 | 20580 | 343 | 6.064 | 14.00 | 16.96 | 20.55 | 8.63 | 14.464 |
| 6/14/2017 21:26 | 20640 | 344 | 6.064 | 14.00 | 16.96 | 20.55 | 8.63 | 14.458 |
| 6/14/2017 21:27 | 20700 | 345 | 6.063 | 14.00 | 16.95 | 20.56 | 8.632 | 14.466 |
| 6/14/2017 21:28 | 20760 | 346 | 6.062 | 14.00 | 16.95 | 20.56 | 8.634 | 14.465 |
| 6/14/2017 21:29 | 20820 | 347 | 6.065 | 14.00 | 16.96 | 20.55 | 8.629 | 14.482 |
| 6/14/2017 21:30 | 20880 | 348 | 6.063 | 14.00 | 16.95 | 20.56 | 8.633 | 14.494 |
| 6/14/2017 21:31 | 20940 | 349 | 6.063 | 14.00 | 16.95 | 20.56 | 8.634 | 14.494 |

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| 6/14/2017 21:32 | 21000 | 350 | 6.064 | 14.00 | 16.96 | 20.55 | 8.63 | 14.469 |
| 6/14/2017 21:33 | 21060 | 351 | 6.064 | 14.00 | 16.96 | 20.55 | 8.632 | 14.472 |
| 6/14/2017 21:34 | 21120 | 352 | 6.064 | 14.00 | 16.96 | 20.55 | 8.631 | 14.485 |
| 6/14/2017 21:35 | 21180 | 353 | 6.067 | 14.01 | 16.96 | 20.55 | 8.625 | 14.468 |
| 6/14/2017 21:36 | 21240 | 354 | 6.065 | 14.00 | 16.96 | 20.55 | 8.629 | 14.472 |
| 6/14/2017 21:37 | 21300 | 355 | 6.063 | 14.00 | 16.95 | 20.56 | 8.632 | 14.474 |
| 6/14/2017 21:38 | 21360 | 356 | 6.064 | 14.00 | 16.96 | 20.55 | 8.631 | 14.461 |
| 6/14/2017 21:39 | 21420 | 357 | 6.064 | 14.00 | 16.96 | 20.55 | 8.63 | 14.459 |
| 6/14/2017 21:40 | 21480 | 358 | 6.067 | 14.01 | 16.96 | 20.55 | 8.624 | 14.435 |
| 6/14/2017 21:41 | 21540 | 359 | 6.066 | 14.01 | 16.96 | 20.55 | 8.625 | 14.466 |
| 6/14/2017 21:42 | 21600 | 360 | 6.064 | 14.00 | 16.96 | 20.55 | 8.63 | 14.455 |
| 6/14/2017 21:43 | 21660 | 361 | 6.063 | 14.00 | 16.95 | 20.56 | 8.633 | 14.441 |
| 6/14/2017 21:44 | 21720 | 362 | 6.066 | 14.01 | 16.96 | 20.55 | 8.626 | 14.461 |
| 6/14/2017 21:45 | 21780 | 363 | 6.065 | 14.00 | 16.96 | 20.55 | 8.629 | 14.463 |
| 6/14/2017 21:46 | 21840 | 364 | 6.064 | 14.00 | 16.96 | 20.55 | 8.63 | 14.451 |
| 6/14/2017 21:47 | 21900 | 365 | 6.066 | 14.01 | 16.96 | 20.55 | 8.627 | 14.462 |
| 6/14/2017 21:48 | 21960 | 366 | 6.067 | 14.01 | 16.96 | 20.55 | 8.624 | 14.456 |
| 6/14/2017 21:49 | 22020 | 367 | 6.064 | 14.00 | 16.96 | 20.55 | 8.63 | 14.459 |
| 6/14/2017 21:50 | 22080 | 368 | 6.066 | 14.01 | 16.96 | 20.55 | 8.626 | 14.459 |
| 6/14/2017 21:51 | 22140 | 369 | 6.067 | 14.01 | 16.96 | 20.55 | 8.623 | 14.449 |
| 6/14/2017 21:52 | 22200 | 370 | 6.066 | 14.01 | 16.96 | 20.55 | 8.626 | 14.447 |
| 6/14/2017 21:53 | 22260 | 371 | 6.066 | 14.01 | 16.96 | 20.55 | 8.627 | 14.448 |
| 6/14/2017 21:54 | 22320 | 372 | 6.066 | 14.01 | 16.96 | 20.55 | 8.625 | 14.449 |
| 6/14/2017 21:55 | 22380 | 373 | 6.066 | 14.01 | 16.96 | 20.55 | 8.627 | 14.442 |
| 6/14/2017 21:56 | 22440 | 374 | 6.069 | 14.01 | 16.97 | 20.54 | 8.62 | 14.45 |
| 6/14/2017 21:57 | 22500 | 375 | 6.068 | 14.01 | 16.97 | 20.54 | 8.622 | 14.451 |
| 6/14/2017 21:58 | 22560 | 376 | 6.065 | 14.00 | 16.96 | 20.55 | 8.628 | 14.432 |
| 6/14/2017 21:59 | 22620 | 377 | 6.066 | 14.01 | 16.96 | 20.55 | 8.625 | 14.443 |
| 6/14/2017 22:00 | 22680 | 378 | 6.066 | 14.01 | 16.96 | 20.55 | 8.627 | 14.442 |
| 6/14/2017 22:01 | 22740 | 379 | 6.066 | 14.01 | 16.96 | 20.55 | 8.626 | 14.441 |
| 6/14/2017 22:02 | 22800 | 380 | 6.066 | 14.01 | 16.96 | 20.55 | 8.627 | 14.44 |
| 6/14/2017 22:03 | 22860 | 381 | 6.066 | 14.01 | 16.96 | 20.55 | 8.626 | 14.442 |
| 6/14/2017 22:04 | 22920 | 382 | 6.065 | 14.00 | 16.96 | 20.55 | 8.629 | 14.434 |
| 6/14/2017 22:05 | 22980 | 383 | 6.066 | 14.01 | 16.96 | 20.55 | 8.626 | 14.459 |
| 6/14/2017 22:06 | 23040 | 384 | 6.067 | 14.01 | 16.96 | 20.55 | 8.624 | 14.438 |
| 6/14/2017 22:07 | 23100 | 385 | 6.067 | 14.01 | 16.96 | 20.55 | 8.624 | 14.424 |
| 6/14/2017 22:08 | 23160 | 386 | 6.066 | 14.01 | 16.96 | 20.55 | 8.627 | 14.451 |
| 6/14/2017 22:09 | 23220 | 387 | 6.068 | 14.01 | 16.97 | 20.54 | 8.622 | 14.472 |
| 6/14/2017 22:10 | 23280 | 388 | 6.066 | 14.01 | 16.96 | 20.55 | 8.625 | 14.437 |
| 6/14/2017 22:11 | 23340 | 389 | 6.068 | 14.01 | 16.97 | 20.54 | 8.621 | 14.429 |
| 6/14/2017 22:12 | 23400 | 390 | 6.067 | 14.01 | 16.96 | 20.55 | 8.624 | 14.419 |
| 6/14/2017 22:13 | 23460 | 391 | 6.069 | 14.01 | 16.97 | 20.54 | 8.618 | 14.446 |
| 6/14/2017 22:14 | 23520 | 392 | 6.067 | 14.01 | 16.96 | 20.55 | 8.624 | 14.432 |
| 6/14/2017 22:15 | 23580 | 393 | 6.067 | 14.01 | 16.96 | 20.55 | 8.624 | 14.453 |
| 6/14/2017 22:16 | 23640 | 394 | 6.069 | 14.01 | 16.97 | 20.54 | 8.62 | 14.429 |
| 6/14/2017 22:17 | 23700 | 395 | 6.07 | 14.02 | 16.97 | 20.54 | 8.618 | 14.446 |
| 6/14/2017 22:18 | 23760 | 396 | 6.066 | 14.01 | 16.96 | 20.55 | 8.625 | 14.457 |

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| 6/14/2017 22:19 | 23820 | 397 | 6.067 | 14.01 | 16.96 | 20.55 | 8.625 | 14.415 |
| 6/14/2017 22:20 | 23880 | 398 | 6.068 | 14.01 | 16.97 | 20.54 | 8.621 | 14.44 |
| 6/14/2017 22:21 | 23940 | 399 | 6.069 | 14.01 | 16.97 | 20.54 | 8.62 | 14.442 |
| 6/14/2017 22:22 | 24000 | 400 | 6.069 | 14.01 | 16.97 | 20.54 | 8.619 | 14.437 |
| 6/14/2017 22:23 | 24060 | 401 | 6.067 | 14.01 | 16.96 | 20.55 | 8.623 | 14.44 |
| 6/14/2017 22:24 | 24120 | 402 | 6.069 | 14.01 | 16.97 | 20.54 | 8.619 | 14.44 |
| 6/14/2017 22:25 | 24180 | 403 | 6.069 | 14.01 | 16.97 | 20.54 | 8.619 | 14.444 |
| 6/14/2017 22:26 | 24240 | 404 | 6.068 | 14.01 | 16.97 | 20.54 | 8.621 | 14.453 |
| 6/14/2017 22:27 | 24300 | 405 | 6.07 | 14.02 | 16.97 | 20.54 | 8.616 | 14.434 |
| 6/14/2017 22:28 | 24360 | 406 | 6.067 | 14.01 | 16.96 | 20.55 | 8.623 | 14.432 |
| 6/14/2017 22:29 | 24420 | 407 | 6.071 | 14.02 | 16.97 | 20.54 | 8.615 | 14.44 |
| 6/14/2017 22:30 | 24480 | 408 | 6.07 | 14.02 | 16.97 | 20.54 | 8.617 | 14.471 |
| 6/14/2017 22:31 | 24540 | 409 | 6.07 | 14.02 | 16.97 | 20.54 | 8.616 | 14.441 |
| 6/14/2017 22:32 | 24600 | 410 | 6.071 | 14.02 | 16.97 | 20.54 | 8.616 | 14.424 |
| 6/14/2017 22:33 | 24660 | 411 | 6.068 | 14.01 | 16.97 | 20.54 | 8.621 | 14.429 |
| 6/14/2017 22:34 | 24720 | 412 | 6.069 | 14.01 | 16.97 | 20.54 | 8.618 | 14.451 |
| 6/14/2017 22:35 | 24780 | 413 | 6.069 | 14.01 | 16.97 | 20.54 | 8.619 | 14.426 |
| 6/14/2017 22:36 | 24840 | 414 | 6.071 | 14.02 | 16.97 | 20.54 | 8.614 | 14.429 |
| 6/14/2017 22:37 | 24900 | 415 | 6.069 | 14.01 | 16.97 | 20.54 | 8.619 | 14.429 |
| 6/14/2017 22:38 | 24960 | 416 | 6.071 | 14.02 | 16.97 | 20.54 | 8.614 | 14.421 |
| 6/14/2017 22:39 | 25020 | 417 | 6.071 | 14.02 | 16.97 | 20.54 | 8.616 | 14.452 |
| 6/14/2017 22:40 | 25080 | 418 | 6.069 | 14.01 | 16.97 | 20.54 | 8.618 | 14.427 |
| 6/14/2017 22:41 | 25140 | 419 | 6.071 | 14.02 | 16.97 | 20.54 | 8.615 | 14.413 |
| 6/14/2017 22:42 | 25200 | 420 | 6.07 | 14.02 | 16.97 | 20.54 | 8.618 | 14.432 |
| 6/14/2017 22:43 | 25260 | 421 | 6.07 | 14.02 | 16.97 | 20.54 | 8.616 | 14.436 |
| 6/14/2017 22:44 | 25320 | 422 | 6.07 | 14.02 | 16.97 | 20.54 | 8.617 | 14.415 |
| 6/14/2017 22:45 | 25380 | 423 | 6.073 | 14.02 | 16.98 | 20.53 | 8.611 | 14.429 |
| 6/14/2017 22:46 | 25440 | 424 | 6.073 | 14.02 | 16.98 | 20.53 | 8.615 | 14.428 |
| 6/14/2017 22:47 | 25500 | 425 | 6.073 | 14.02 | 16.98 | 20.54 | 8.615 | 14.443 |
| 6/14/2017 22:48 | 25560 | 426 | 6.071 | 14.02 | 16.97 | 20.54 | 8.613 | 14.421 |
| 6/14/2017 22:49 | 25620 | 427 | 6.071 | 14.02 | 16.97 | 20.53 | 8.612 | 14.435 |
| 6/14/2017 22:50 | 25680 | 428 | 6.072 | 14.02 | 16.98 | 20.53 | 8.612 | 14.444 |
| 6/14/2017 22:51 | 25740 | 429 | 6.072 | 14.02 | 16.98 | 20.54 | 8.615 | 14.46 |
| 6/14/2017 22:52 | 25800 | 430 | 6.071 | 14.02 | 16.97 | 20.54 | 8.618 | 14.429 |
| 6/14/2017 22:53 | 25860 | 431 | 6.069 | 14.01 | 16.97 | 20.54 | 8.614 | 14.44 |
| 6/14/2017 22:54 | 25920 | 432 | 6.071 | 14.02 | 16.97 | 20.53 | 8.61 | 14.435 |
| 6/14/2017 22:55 | 25980 | 433 | 6.073 | 14.02 | 16.98 | 20.53 | 8.611 | 14.411 |
| 6/14/2017 22:56 | 26040 | 434 | 6.073 | 14.02 | 16.98 | 20.54 | 8.616 | 14.426 |
| 6/14/2017 22:57 | 26100 | 435 | 6.07 | 14.02 | 16.97 | 20.53 | 8.611 | 14.421 |
| 6/14/2017 22:58 | 26160 | 436 | 6.073 | 14.02 | 16.98 | 20.53 | 8.612 | 14.442 |
| 6/14/2017 22:59 | 26220 | 437 | 6.072 | 14.02 | 16.98 | 20.53 | 8.609 | 14.426 |
| 6/14/2017 23:00 | 26280 | 438 | 6.074 | 14.02 | 16.98 | 20.54 | 8.615 | 14.427 |
| 6/14/2017 23:01 | 26340 | 439 | 6.071 | 14.02 | 16.97 | 20.53 | 8.61 | 14.424 |
| 6/14/2017 23:02 | 26400 | 440 | 6.073 | 14.02 | 16.98 | 20.53 | 8.606 | 14.423 |
| 6/14/2017 23:03 | 26460 | 441 | 6.075 | 14.03 | 16.98 | 20.53 | 8.61 | 14.457 |
| 6/14/2017 23:04 | 26520 | 442 | 6.073 | 14.02 | 16.98 | 20.53 | 8.612 | 14.425 |
| 6/14/2017 23:05 | 26580 | 443 | 6.072 | 14.02 | 16.98 | 20.53 | | |

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| 6/14/2017 23:06 | 26640 | 444 | 6.074 | 14.02 | 16.98 | 20.53 | 8.608 | 14.445 |
| 6/14/2017 23:07 | 26700 | 445 | 6.076 | 14.03 | 16.98 | 20.53 | 8.604 | 14.421 |
| 6/14/2017 23:08 | 26760 | 446 | 6.073 | 14.02 | 16.98 | 20.53 | 8.61 | 14.419 |
| 6/14/2017 23:09 | 26820 | 447 | 6.074 | 14.02 | 16.98 | 20.53 | 8.608 | 14.453 |
| 6/14/2017 23:10 | 26880 | 448 | 6.073 | 14.02 | 16.98 | 20.53 | 8.609 | 14.415 |
| 6/14/2017 23:11 | 26940 | 449 | 6.073 | 14.02 | 16.98 | 20.53 | 8.611 | 14.43 |
| 6/14/2017 23:12 | 27000 | 450 | 6.074 | 14.02 | 16.98 | 20.53 | 8.608 | 14.411 |
| 6/14/2017 23:13 | 27060 | 451 | 6.075 | 14.03 | 16.98 | 20.53 | 8.606 | 14.418 |
| 6/14/2017 23:14 | 27120 | 452 | 6.075 | 14.03 | 16.98 | 20.53 | 8.606 | 14.44 |
| 6/14/2017 23:15 | 27180 | 453 | 6.074 | 14.02 | 16.98 | 20.53 | 8.608 | 14.399 |
| 6/14/2017 23:16 | 27240 | 454 | 6.073 | 14.03 | 16.98 | 20.53 | 8.61 | 14.432 |
| 6/14/2017 23:17 | 27300 | 455 | 6.076 | 14.03 | 16.98 | 20.53 | 8.604 | 14.417 |
| 6/14/2017 23:18 | 27360 | 456 | 6.074 | 14.02 | 16.98 | 20.53 | 8.608 | 14.43 |
| 6/14/2017 23:19 | 27420 | 457 | 6.076 | 14.03 | 16.98 | 20.53 | 8.604 | 14.413 |
| 6/14/2017 23:20 | 27480 | 458 | 6.075 | 14.03 | 16.98 | 20.53 | 8.605 | 14.419 |
| 6/14/2017 23:21 | 27540 | 459 | 6.075 | 14.03 | 16.98 | 20.53 | 8.605 | 14.422 |
| 6/14/2017 23:22 | 27600 | 460 | 6.075 | 14.03 | 16.98 | 20.53 | 8.605 | 14.41 |
| 6/14/2017 23:23 | 27660 | 461 | 6.076 | 14.03 | 16.98 | 20.53 | 8.603 | 14.431 |
| 6/14/2017 23:24 | 27720 | 462 | 6.076 | 14.03 | 16.98 | 20.53 | 8.602 | 14.413 |
| 6/14/2017 23:25 | 27780 | 463 | 6.075 | 14.03 | 16.98 | 20.53 | 8.606 | 14.402 |
| 6/14/2017 23:26 | 27840 | 464 | 6.076 | 14.03 | 16.98 | 20.53 | 8.602 | 14.404 |
| 6/14/2017 23:27 | 27900 | 465 | 6.076 | 14.03 | 16.98 | 20.53 | 8.603 | 14.398 |
| 6/14/2017 23:28 | 27960 | 466 | 6.075 | 14.03 | 16.98 | 20.53 | 8.605 | 14.427 |
| 6/14/2017 23:29 | 28020 | 467 | 6.076 | 14.03 | 16.98 | 20.53 | 8.603 | 14.419 |
| 6/14/2017 23:30 | 28080 | 468 | 6.075 | 14.03 | 16.98 | 20.53 | 8.606 | 14.414 |
| 6/14/2017 23:31 | 28140 | 469 | 6.074 | 14.02 | 16.98 | 20.53 | 8.607 | 14.415 |
| 6/14/2017 23:32 | 28200 | 470 | 6.077 | 14.03 | 16.99 | 20.52 | 8.601 | 14.433 |
| 6/14/2017 23:33 | 28260 | 471 | 6.077 | 14.03 | 16.99 | 20.52 | 8.601 | 14.416 |
| 6/14/2017 23:34 | 28320 | 472 | 6.077 | 14.03 | 16.99 | 20.52 | 8.6 | 14.428 |
| 6/14/2017 23:35 | 28380 | 473 | 6.077 | 14.03 | 16.99 | 20.52 | 8.6 | 14.394 |
| 6/14/2017 23:36 | 28440 | 474 | 6.076 | 14.03 | 16.98 | 20.53 | 8.602 | 14.421 |
| 6/14/2017 23:37 | 28500 | 475 | 6.078 | 14.03 | 16.99 | 20.52 | 8.598 | 14.421 |
| 6/14/2017 23:38 | 28560 | 476 | 6.077 | 14.03 | 16.99 | 20.52 | 8.6 | 14.407 |
| 6/14/2017 23:39 | 28620 | 477 | 6.078 | 14.03 | 16.99 | 20.52 | 8.599 | 14.404 |
| 6/14/2017 23:40 | 28680 | 478 | 6.077 | 14.03 | 16.99 | 20.52 | 8.602 | 14.412 |
| 6/14/2017 23:41 | 28740 | 479 | 6.078 | 14.03 | 16.99 | 20.52 | 8.598 | 14.414 |
| 6/14/2017 23:42 | 28800 | 480 | 6.079 | 14.04 | 16.99 | 20.52 | 8.596 | 14.423 |
| 6/14/2017 23:43 | 28860 | 481 | 6.077 | 14.03 | 16.99 | 20.52 | 8.6 | 14.418 |
| 6/14/2017 23:44 | 28920 | 482 | 6.079 | 14.04 | 16.99 | 20.52 | 8.597 | 14.428 |
| 6/14/2017 23:45 | 28980 | 483 | 6.079 | 14.04 | 16.99 | 20.52 | 8.596 | 14.406 |
| 6/14/2017 23:46 | 29040 | 484 | 6.078 | 14.03 | 16.99 | 20.52 | 8.598 | 14.407 |
| 6/14/2017 23:47 | 29100 | 485 | 6.077 | 14.03 | 16.99 | 20.52 | 8.601 | 14.386 |
| 6/14/2017 23:48 | 29160 | 486 | 6.079 | 14.04 | 16.99 | 20.52 | 8.595 | 14.428 |
| 6/14/2017 23:49 | 29220 | 487 | 6.081 | 14.04 | 17.00 | 20.51 | 8.591 | 14.422 |
| 6/14/2017 23:50 | 29280 | 488 | 6.078 | 14.03 | 16.99 | 20.52 | 8.599 | 14.436 |
| 6/14/2017 23:51 | 29340 | 489 | 6.078 | 14.03 | 16.99 | 20.52 | 8.598 | 14.408 |
| 6/14/2017 23:52 | 29400 | 490 | 6.078 | 14.03 | 16.99 | 20.52 | 8.599 | 14.382 |

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| 6/14/2017 23:53 | 29460 | 491 | 6.078 | 14.03 | 16.99 | 20.52 | 8.598 | 14.399 |
| 6/14/2017 23:54 | 29520 | 492 | 6.079 | 14.04 | 16.99 | 20.52 | 8.595 | 14.391 |
| 6/14/2017 23:55 | 29580 | 493 | 6.079 | 14.04 | 16.99 | 20.52 | 8.595 | 14.391 |
| 6/14/2017 23:56 | 29640 | 494 | 6.081 | 14.04 | 17.00 | 20.51 | 8.591 | 14.419 |
| 6/14/2017 23:57 | 29700 | 495 | 6.079 | 14.04 | 16.99 | 20.52 | 8.597 | 14.394 |
| 6/14/2017 23:58 | 29760 | 496 | 6.08 | 14.04 | 16.99 | 20.52 | 8.594 | 14.39 |
| 6/14/2017 23:59 | 29820 | 497 | 6.08 | 14.04 | 16.99 | 20.52 | 8.594 | 14.397 |
| 6/15/2017 0:00 | 29880 | 498 | 6.079 | 14.04 | 16.99 | 20.52 | 8.595 | 14.391 |
| 6/15/2017 0:01 | 29940 | 499 | 6.079 | 14.04 | 16.99 | 20.52 | 8.597 | 14.389 |
| 6/15/2017 0:02 | 30000 | 500 | 6.08 | 14.04 | 16.99 | 20.52 | 8.594 | 14.392 |
| 6/15/2017 0:03 | 30060 | 501 | 6.082 | 14.04 | 17.00 | 20.51 | 8.589 | 14.402 |
| 6/15/2017 0:04 | 30120 | 502 | 6.079 | 14.04 | 16.99 | 20.52 | 8.596 | 14.393 |
| 6/15/2017 0:05 | 30180 | 503 | 6.08 | 14.04 | 16.99 | 20.52 | 8.593 | 14.405 |
| 6/15/2017 0:06 | 30240 | 504 | 6.081 | 14.04 | 17.00 | 20.51 | 8.593 | 14.423 |
| 6/15/2017 0:07 | 30300 | 505 | 6.079 | 14.04 | 16.99 | 20.52 | 8.595 | 14.42 |
| 6/15/2017 0:08 | 30360 | 506 | 6.081 | 14.04 | 17.00 | 20.51 | 8.592 | 14.4 |
| 6/15/2017 0:09 | 30420 | 507 | 6.082 | 14.04 | 17.00 | 20.51 | 8.589 | 14.415 |
| 6/15/2017 0:10 | 30480 | 508 | 6.082 | 14.04 | 17.00 | 20.51 | 8.59 | 14.412 |
| 6/15/2017 0:11 | 30540 | 509 | 6.081 | 14.04 | 17.00 | 20.51 | 8.591 | 14.396 |
| 6/15/2017 0:12 | 30600 | 510 | 6.081 | 14.04 | 17.00 | 20.51 | 8.591 | 14.407 |
| 6/15/2017 0:13 | 30660 | 511 | 6.082 | 14.04 | 17.00 | 20.51 | 8.591 | 14.394 |
| 6/15/2017 0:14 | 30720 | 512 | 6.082 | 14.05 | 17.00 | 20.51 | 8.587 | 14.387 |
| 6/15/2017 0:15 | 30780 | 513 | 6.082 | 14.04 | 17.00 | 20.51 | 8.588 | 14.415 |
| 6/15/2017 0:16 | 30840 | 514 | 6.082 | 14.04 | 17.00 | 20.51 | 8.59 | 14.412 |
| 6/15/2017 0:17 | 30900 | 515 | 6.08 | 14.04 | 16.99 | 20.52 | 8.593 | 14.41 |
| 6/15/2017 0:18 | 30960 | 516 | 6.081 | 14.04 | 17.00 | 20.51 | 8.591 | 14.372 |
| 6/15/2017 0:19 | 31020 | 517 | 6.083 | 14.05 | 17.00 | 20.51 | 8.587 | 14.372 |
| 6/15/2017 0:20 | 31080 | 518 | 6.081 | 14.04 | 17.00 | 20.51 | 8.592 | 14.387 |
| 6/15/2017 0:21 | 31140 | 519 | 6.08 | 14.04 | 16.99 | 20.52 | 8.593 | 14.398 |
| 6/15/2017 0:22 | 31200 | 520 | 6.081 | 14.04 | 17.00 | 20.51 | 8.591 | 14.407 |
| 6/15/2017 0:23 | 31260 | 521 | 6.081 | 14.04 | 17.00 | 20.51 | 8.592 | 14.425 |
| 6/15/2017 0:24 | 31320 | 522 | 6.082 | 14.04 | 17.00 | 20.51 | 8.588 | 14.418 |
| 6/15/2017 0:25 | 31380 | 523 | 6.082 | 14.04 | 17.00 | 20.51 | 8.589 | 14.394 |
| 6/15/2017 0:26 | 31440 | 524 | 6.083 | 14.05 | 17.00 | 20.51 | 8.587 | 14.418 |
| 6/15/2017 0:27 | 31500 | 525 | 6.083 | 14.05 | 17.00 | 20.51 | 8.586 | 14.404 |
| 6/15/2017 0:28 | 31560 | 526 | 6.082 | 14.04 | 17.00 | 20.51 | 8.59 | 14.412 |
| 6/15/2017 0:29 | 31620 | 527 | 6.083 | 14.05 | 17.00 | 20.51 | 8.587 | 14.398 |
| 6/15/2017 0:30 | 31680 | 528 | 6.082 | 14.04 | 17.00 | 20.51 | 8.588 | 14.412 |
| 6/15/2017 0:31 | 31740 | 529 | 6.082 | 14.04 | 17.00 | 20.51 | 8.588 | 14.376 |
| 6/15/2017 0:32 | 31800 | 530 | 6.083 | 14.05 | 17.00 | 20.51 | 8.586 | 14.42 |
| 6/15/2017 0:33 | 31860 | 531 | 6.082 | 14.04 | 17.00 | 20.51 | 8.589 | 14.384 |
| 6/15/2017 0:34 | 31920 | 532 | 6.082 | 14.04 | 17.00 | 20.51 | 8.59 | 14.384 |
| 6/15/2017 0:35 | 31980 | 533 | 6.084 | 14.05 | 17.00 | 20.51 | 8.584 | 14.406 |
| 6/15/2017 0:36 | 32040 | 534 | 6.084 | 14.05 | 17.00 | 20.51 | 8.585 | 14.383 |
| 6/15/2017 0:37 | 32100 | 535 | 6.083 | 14.05 | 17.00 | 20.51 | 8.587 | 14.399 |
| 6/15/2017 0:38 | 32160 | 536 | 6.085 | 14.05 | 17.01 | 20.50 | 8.583 | 14.398 |
| 6/15/2017 0:39 | 32220 | 537 | 6.083 | 14.05 | 17.00 | 20.51 | 8.586 | 14.39 |

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| 6/15/2017 0:40 | 32280 | 538 | 6.084 | 14.05 | 17.00 | 20.51 | 8.585 | 14.396 |
| 6/15/2017 0:41 | 32340 | 539 | 6.086 | 14.05 | 17.01 | 20.50 | 8.58 | 14.402 |
| 6/15/2017 0:42 | 32400 | 540 | 6.085 | 14.05 | 17.01 | 20.50 | 8.582 | 14.385 |
| 6/15/2017 0:43 | 32460 | 541 | 6.083 | 14.05 | 17.00 | 20.51 | 8.587 | 14.381 |
| 6/15/2017 0:44 | 32520 | 542 | 6.083 | 14.05 | 17.00 | 20.51 | 8.587 | 14.365 |
| 6/15/2017 0:45 | 32580 | 543 | 6.086 | 14.05 | 17.01 | 20.50 | 8.581 | 14.389 |
| 6/15/2017 0:46 | 32640 | 544 | 6.083 | 14.05 | 17.00 | 20.51 | 8.587 | 14.395 |
| 6/15/2017 0:47 | 32700 | 545 | 6.086 | 14.05 | 17.01 | 20.50 | 8.581 | 14.381 |
| 6/15/2017 0:48 | 32760 | 546 | 6.084 | 14.05 | 17.00 | 20.51 | 8.584 | 14.372 |
| 6/15/2017 0:49 | 32820 | 547 | 6.085 | 14.05 | 17.01 | 20.50 | 8.583 | 14.391 |
| 6/15/2017 0:50 | 32880 | 548 | 6.085 | 14.05 | 17.01 | 20.50 | 8.583 | 14.383 |
| 6/15/2017 0:51 | 32940 | 549 | 6.083 | 14.05 | 17.00 | 20.51 | 8.588 | 14.39 |
| 6/15/2017 0:52 | 33000 | 550 | 6.084 | 14.05 | 17.00 | 20.51 | 8.583 | 14.386 |
| 6/15/2017 0:53 | 33060 | 551 | 6.085 | 14.05 | 17.01 | 20.50 | 8.583 | 14.381 |
| 6/15/2017 0:54 | 33120 | 552 | 6.086 | 14.05 | 17.01 | 20.50 | 8.58 | 14.38 |
| 6/15/2017 0:55 | 33180 | 553 | 6.085 | 14.05 | 17.01 | 20.50 | 8.582 | 14.407 |
| 6/15/2017 0:56 | 33240 | 554 | 6.085 | 14.05 | 17.01 | 20.50 | 8.581 | 14.373 |
| 6/15/2017 0:57 | 33300 | 555 | 6.086 | 14.05 | 17.01 | 20.50 | 8.584 | 14.379 |
| 6/15/2017 0:58 | 33360 | 556 | 6.084 | 14.05 | 17.00 | 20.51 | 8.582 | 14.387 |
| 6/15/2017 0:59 | 33420 | 557 | 6.085 | 14.05 | 17.01 | 20.50 | 8.585 | 14.371 |
| 6/15/2017 1:00 | 33480 | 558 | 6.084 | 14.05 | 17.00 | 20.51 | 8.583 | 14.369 |
| 6/15/2017 1:01 | 33540 | 559 | 6.085 | 14.05 | 17.01 | 20.50 | 8.582 | 14.378 |
| 6/15/2017 1:02 | 33600 | 560 | 6.085 | 14.05 | 17.01 | 20.50 | 8.581 | 14.363 |
| 6/15/2017 1:03 | 33660 | 561 | 6.086 | 14.05 | 17.01 | 20.50 | 8.578 | 14.366 |
| 6/15/2017 1:04 | 33720 | 562 | 6.087 | 14.05 | 17.01 | 20.50 | 8.581 | 14.334 |
| 6/15/2017 1:05 | 33780 | 563 | 6.085 | 14.05 | 17.01 | 20.50 | 8.583 | 14.38 |
| 6/15/2017 1:06 | 33840 | 564 | 6.085 | 14.05 | 17.01 | 20.50 | 8.582 | 14.377 |
| 6/15/2017 1:07 | 33900 | 565 | 6.085 | 14.05 | 17.01 | 20.50 | 8.582 | 14.383 |
| 6/15/2017 1:08 | 33960 | 566 | 6.085 | 14.05 | 17.01 | 20.50 | 8.581 | 14.362 |
| 6/15/2017 1:09 | 34020 | 567 | 6.086 | 14.05 | 17.00 | 20.50 | 8.583 | 14.375 |
| 6/15/2017 1:10 | 34080 | 568 | 6.084 | 14.05 | 17.01 | 20.51 | 8.582 | 14.384 |
| 6/15/2017 1:11 | 34140 | 569 | 6.085 | 14.05 | 17.01 | 20.50 | 8.575 | 14.38 |
| 6/15/2017 1:12 | 34200 | 570 | 6.088 | 14.06 | 17.01 | 20.50 | 8.578 | 14.353 |
| 6/15/2017 1:13 | 34260 | 571 | 6.087 | 14.05 | 17.01 | 20.50 | 8.577 | 14.348 |
| 6/15/2017 1:14 | 34320 | 572 | 6.087 | 14.05 | 17.01 | 20.50 | 8.578 | 14.355 |
| 6/15/2017 1:15 | 34380 | 573 | 6.087 | 14.05 | 17.01 | 20.50 | 8.577 | 14.399 |
| 6/15/2017 1:16 | 34440 | 574 | 6.087 | 14.05 | 17.01 | 20.50 | 8.578 | 14.375 |
| 6/15/2017 1:17 | 34500 | 575 | 6.087 | 14.05 | 17.01 | 20.50 | 8.581 | 14.369 |
| 6/15/2017 1:18 | 34560 | 576 | 6.086 | 14.05 | 17.01 | 20.50 | 8.58 | 14.37 |
| 6/15/2017 1:19 | 34620 | 577 | 6.086 | 14.05 | 17.01 | 20.50 | 8.58 | 14.364 |
| 6/15/2017 1:20 | 34680 | 578 | 6.086 | 14.05 | 17.01 | 20.50 | 8.581 | 14.367 |
| 6/15/2017 1:21 | 34740 | 579 | 6.086 | 14.05 | 17.01 | 20.50 | 8.575 | 14.372 |
| 6/15/2017 1:22 | 34800 | 580 | 6.088 | 14.06 | 17.01 | 20.50 | 8.58 | 14.371 |
| 6/15/2017 1:23 | 34860 | 581 | 6.086 | 14.05 | 17.01 | 20.50 | 8.578 | 14.366 |
| 6/15/2017 1:24 | 34920 | 582 | 6.087 | 14.05 | 17.01 | 20.50 | 8.58 | 14.384 |
| 6/15/2017 1:25 | 34980 | 583 | 6.086 | 14.05 | 17.01 | 20.50 | 8.575 | 14.356 |
| 6/15/2017 1:26 | 35040 | 584 | 6.088 | 14.06 | 17.01 | 20.50 | | |

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| 6/15/2017 1:27 | 35100 | 585 | 6.087 | 14.05 | 17.01 | 20.50 | 8.577 | 14.378 |
| 6/15/2017 1:28 | 35160 | 586 | 6.087 | 14.05 | 17.01 | 20.50 | 8.578 | 14.381 |
| 6/15/2017 1:29 | 35220 | 587 | 6.086 | 14.05 | 17.01 | 20.50 | 8.58 | 14.361 |
| 6/15/2017 1:30 | 35280 | 588 | 6.088 | 14.06 | 17.01 | 20.50 | 8.574 | 14.39 |
| 6/15/2017 1:31 | 35340 | 589 | 6.087 | 14.05 | 17.01 | 20.50 | 8.579 | 14.367 |
| 6/15/2017 1:32 | 35400 | 590 | 6.087 | 14.05 | 17.01 | 20.50 | 8.577 | 14.372 |
| 6/15/2017 1:33 | 35460 | 591 | 6.087 | 14.05 | 17.01 | 20.50 | 8.577 | 14.358 |
| 6/15/2017 1:34 | 35520 | 592 | 6.087 | 14.05 | 17.01 | 20.50 | 8.577 | 14.372 |
| 6/15/2017 1:35 | 35580 | 593 | 6.088 | 14.06 | 17.01 | 20.50 | 8.575 | 14.358 |
| 6/15/2017 1:36 | 35640 | 594 | 6.087 | 14.05 | 17.01 | 20.50 | 8.579 | 14.37 |
| 6/15/2017 1:37 | 35700 | 595 | 6.086 | 14.05 | 17.01 | 20.50 | 8.58 | 14.384 |
| 6/15/2017 1:38 | 35760 | 596 | 6.088 | 14.06 | 17.01 | 20.50 | 8.574 | 14.369 |
| 6/15/2017 1:39 | 35820 | 597 | 6.088 | 14.06 | 17.01 | 20.50 | 8.576 | 14.359 |
| 6/15/2017 1:40 | 35880 | 598 | 6.088 | 14.06 | 17.01 | 20.50 | 8.574 | 14.345 |
| 6/15/2017 1:41 | 35940 | 599 | 6.089 | 14.06 | 17.01 | 20.50 | 8.573 | 14.368 |
| 6/15/2017 1:42 | 36000 | 600 | 6.088 | 14.06 | 17.01 | 20.50 | 8.575 | 14.342 |
| 6/15/2017 1:43 | 36060 | 601 | 6.088 | 14.06 | 17.01 | 20.50 | 8.576 | 14.369 |
| 6/15/2017 1:44 | 36120 | 602 | 6.089 | 14.06 | 17.01 | 20.50 | 8.573 | 14.358 |
| 6/15/2017 1:45 | 36180 | 603 | 6.089 | 14.06 | 17.01 | 20.50 | 8.573 | 14.375 |
| 6/15/2017 1:46 | 36240 | 604 | 6.089 | 14.06 | 17.01 | 20.50 | 8.573 | 14.353 |
| 6/15/2017 1:47 | 36300 | 605 | 6.089 | 14.06 | 17.01 | 20.50 | 8.573 | 14.373 |
| 6/15/2017 1:48 | 36360 | 606 | 6.088 | 14.06 | 17.01 | 20.50 | 8.576 | 14.354 |
| 6/15/2017 1:49 | 36420 | 607 | 6.088 | 14.06 | 17.01 | 20.50 | 8.574 | 14.378 |
| 6/15/2017 1:50 | 36480 | 608 | 6.089 | 14.06 | 17.01 | 20.50 | 8.574 | 14.354 |
| 6/15/2017 1:51 | 36540 | 609 | 6.091 | 14.06 | 17.02 | 20.49 | 8.568 | 14.358 |
| 6/15/2017 1:52 | 36600 | 610 | 6.09 | 14.06 | 17.02 | 20.49 | 8.57 | 14.369 |
| 6/15/2017 1:53 | 36660 | 611 | 6.091 | 14.06 | 17.02 | 20.49 | 8.568 | 14.364 |
| 6/15/2017 1:54 | 36720 | 612 | 6.088 | 14.06 | 17.01 | 20.50 | 8.575 | 14.389 |
| 6/15/2017 1:55 | 36780 | 613 | 6.088 | 14.06 | 17.01 | 20.50 | 8.576 | 14.379 |
| 6/15/2017 1:56 | 36840 | 614 | 6.089 | 14.06 | 17.01 | 20.50 | 8.572 | 14.367 |
| 6/15/2017 1:57 | 36900 | 615 | 6.09 | 14.06 | 17.02 | 20.49 | 8.571 | 14.339 |
| 6/15/2017 1:58 | 36960 | 616 | 6.091 | 14.06 | 17.02 | 20.49 | 8.569 | 14.358 |
| 6/15/2017 1:59 | 37020 | 617 | 6.091 | 14.06 | 17.02 | 20.49 | 8.568 | 14.377 |
| 6/15/2017 2:00 | 37080 | 618 | 6.091 | 14.06 | 17.02 | 20.49 | 8.569 | 14.368 |
| 6/15/2017 2:01 | 37140 | 619 | 6.09 | 14.06 | 17.02 | 20.49 | 8.571 | 14.353 |
| 6/15/2017 2:02 | 37200 | 620 | 6.09 | 14.06 | 17.02 | 20.49 | 8.57 | 14.368 |
| 6/15/2017 2:03 | 37260 | 621 | 6.09 | 14.06 | 17.02 | 20.49 | 8.573 | 14.361 |
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| 6/15/2017 2:07 | 37500 | 625 | 6.09 | 14.06 | 17.02 | 20.49 | 8.566 | 14.348 |
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| 6/15/2017 2:09 | 37620 | 627 | 6.089 | 14.06 | 17.01 | 20.50 | 8.571 | 14.341 |
| 6/15/2017 2:10 | 37680 | 628 | 6.09 | 14.06 | 17.02 | 20.49 | 8.572 | 14.35 |
| 6/15/2017 2:11 | 37740 | 629 | 6.089 | 14.06 | 17.01 | 20.50 | 8.566 | 14.346 |
| 6/15/2017 2:12 | 37800 | 630 | 6.092 | 14.07 | 17.02 | 20.49 | 8.567 | 14.354 |
| 6/15/2017 2:13 | 37860 | 631 | 6.092 | 14.07 | 17.02 | 20.49 | | |

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| 6/15/2017 2:17 | 38100 | 635 | 6.09 | 14.06 | 17.02 | 20.49 | 8.572 | 14.342 |
| 6/15/2017 2:18 | 38160 | 636 | 6.091 | 14.06 | 17.02 | 20.49 | 8.569 | 14.315 |
| 6/15/2017 2:19 | 38220 | 637 | 6.091 | 14.06 | 17.02 | 20.49 | 8.568 | 14.348 |
| 6/15/2017 2:20 | 38280 | 638 | 6.091 | 14.06 | 17.02 | 20.49 | 8.568 | 14.328 |
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| 6/15/2017 2:26 | 38640 | 644 | 6.09 | 14.06 | 17.02 | 20.49 | 8.571 | 14.334 |
| 6/15/2017 2:27 | 38700 | 645 | 6.092 | 14.07 | 17.02 | 20.49 | 8.565 | 14.337 |
| 6/15/2017 2:28 | 38760 | 646 | 6.092 | 14.07 | 17.02 | 20.49 | 8.567 | 14.333 |
| 6/15/2017 2:29 | 38820 | 647 | 6.091 | 14.06 | 17.02 | 20.49 | 8.569 | 14.365 |
| 6/15/2017 2:30 | 38880 | 648 | 6.09 | 14.06 | 17.02 | 20.49 | 8.572 | 14.336 |
| 6/15/2017 2:31 | 38940 | 649 | 6.09 | 14.06 | 17.02 | 20.49 | 8.57 | 14.342 |
| 6/15/2017 2:32 | 39000 | 650 | 6.093 | 14.07 | 17.02 | 20.49 | 8.565 | 14.355 |
| 6/15/2017 2:33 | 39060 | 651 | 6.092 | 14.07 | 17.02 | 20.49 | 8.567 | 14.36 |
| 6/15/2017 2:34 | 39120 | 652 | 6.091 | 14.06 | 17.02 | 20.49 | 8.568 | 14.356 |
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| 6/15/2017 2:36 | 39240 | 654 | 6.093 | 14.07 | 17.02 | 20.49 | 8.563 | 14.348 |
| 6/15/2017 2:37 | 39300 | 655 | 6.091 | 14.06 | 17.02 | 20.49 | 8.568 | 14.371 |
| 6/15/2017 2:38 | 39360 | 656 | 6.092 | 14.07 | 17.02 | 20.49 | 8.567 | 14.348 |
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| 6/15/2017 2:42 | 39600 | 660 | 6.093 | 14.07 | 17.02 | 20.49 | 8.563 | 14.361 |
| 6/15/2017 2:43 | 39660 | 661 | 6.094 | 14.07 | 17.03 | 20.48 | 8.562 | 14.348 |
| 6/15/2017 2:44 | 39720 | 662 | 6.093 | 14.07 | 17.02 | 20.49 | 8.563 | 14.358 |
| 6/15/2017 2:45 | 39780 | 663 | 6.092 | 14.07 | 17.02 | 20.49 | 8.566 | 14.328 |
| 6/15/2017 2:46 | 39840 | 664 | 6.092 | 14.07 | 17.02 | 20.49 | 8.567 | 14.333 |
| 6/15/2017 2:47 | 39900 | 665 | 6.092 | 14.07 | 17.02 | 20.49 | 8.567 | 14.353 |
| 6/15/2017 2:48 | 39960 | 666 | 6.093 | 14.07 | 17.02 | 20.49 | 8.565 | 14.344 |
| 6/15/2017 2:49 | 40020 | 667 | 6.093 | 14.07 | 17.02 | 20.49 | 8.564 | 14.337 |
| 6/15/2017 2:50 | 40080 | 668 | 6.094 | 14.07 | 17.03 | 20.48 | 8.561 | 14.352 |
| 6/15/2017 2:51 | 40140 | 669 | 6.092 | 14.07 | 17.02 | 20.49 | 8.567 | 14.356 |
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| 6/15/2017 2:54 | 40320 | 672 | 6.094 | 14.07 | 17.03 | 20.48 | 8.56 | 14.345 |
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| 6/15/2017 3:00 | 40680 | 678 | 6.093 | 14.07 | 17.02 | 20.49 | 8.563 | 14.332 |

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| 6/15/2017 3:09 | 41220 | 687 | 6.093 | 14.07 | 17.02 | 20.49 | 8.563 | 14.335 |
| 6/15/2017 3:10 | 41280 | 688 | 6.093 | 14.07 | 17.02 | 20.49 | 8.563 | 14.329 |
| 6/15/2017 3:11 | 41340 | 689 | 6.092 | 14.07 | 17.02 | 20.49 | 8.567 | 14.342 |
| 6/15/2017 3:12 | 41400 | 690 | 6.093 | 14.07 | 17.02 | 20.49 | 8.565 | 14.331 |
| 6/15/2017 3:13 | 41460 | 691 | 6.092 | 14.07 | 17.02 | 20.49 | 8.566 | 14.334 |
| 6/15/2017 3:14 | 41520 | 692 | 6.092 | 14.07 | 17.02 | 20.49 | 8.567 | 14.329 |
| 6/15/2017 3:15 | 41580 | 693 | 6.094 | 14.07 | 17.03 | 20.48 | 8.562 | 14.328 |
| 6/15/2017 3:16 | 41640 | 694 | 6.091 | 14.06 | 17.02 | 20.49 | 8.567 | 14.329 |
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| 6/15/2017 3:20 | 41880 | 698 | 6.091 | 14.06 | 17.02 | 20.49 | 8.568 | 14.338 |
| 6/15/2017 3:21 | 41940 | 699 | 6.092 | 14.07 | 17.02 | 20.49 | 8.565 | 14.334 |
| 6/15/2017 3:22 | 42000 | 700 | 6.093 | 14.07 | 17.02 | 20.49 | 8.564 | 14.337 |
| 6/15/2017 3:23 | 42060 | 701 | 6.094 | 14.07 | 17.03 | 20.48 | 8.561 | 14.331 |
| 6/15/2017 3:24 | 42120 | 702 | 6.094 | 14.07 | 17.03 | 20.48 | 8.561 | 14.318 |
| 6/15/2017 3:25 | 42180 | 703 | 6.09 | 14.06 | 17.02 | 20.49 | 8.57 | 14.327 |
| 6/15/2017 3:26 | 42240 | 704 | 6.094 | 14.07 | 17.03 | 20.48 | 8.562 | 14.312 |
| 6/15/2017 3:27 | 42300 | 705 | 6.093 | 14.07 | 17.02 | 20.49 | 8.564 | 14.329 |
| 6/15/2017 3:28 | 42360 | 706 | 6.093 | 14.07 | 17.02 | 20.49 | 8.564 | 14.342 |
| 6/15/2017 3:29 | 42420 | 707 | 6.092 | 14.07 | 17.02 | 20.49 | 8.565 | 14.345 |
| 6/15/2017 3:30 | 42480 | 708 | 6.093 | 14.07 | 17.02 | 20.49 | 8.563 | 14.313 |
| 6/15/2017 3:31 | 42540 | 709 | 6.094 | 14.07 | 17.03 | 20.48 | 8.562 | 14.293 |
| 6/15/2017 3:32 | 42600 | 710 | 6.093 | 14.07 | 17.02 | 20.49 | 8.563 | 14.33 |
| 6/15/2017 3:33 | 42660 | 711 | 6.094 | 14.07 | 17.03 | 20.48 | 8.562 | 14.334 |
| 6/15/2017 3:34 | 42720 | 712 | 6.092 | 14.07 | 17.02 | 20.49 | 8.567 | 14.31 |
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| 6/15/2017 3:36 | 42840 | 714 | 6.093 | 14.07 | 17.02 | 20.49 | 8.564 | 14.306 |
| 6/15/2017 3:37 | 42900 | 715 | 6.091 | 14.06 | 17.02 | 20.49 | 8.568 | 14.342 |
| 6/15/2017 3:38 | 42960 | 716 | 6.093 | 14.07 | 17.02 | 20.49 | 8.564 | 14.316 |
| 6/15/2017 3:39 | 43020 | 717 | 6.093 | 14.07 | 17.02 | 20.49 | 8.563 | 14.329 |
| 6/15/2017 3:40 | 43080 | 718 | 6.092 | 14.07 | 17.02 | 20.49 | 8.565 | 14.309 |
| 6/15/2017 3:41 | 43140 | 719 | 6.091 | 14.06 | 17.02 | 20.49 | 8.568 | 14.33 |
| 6/15/2017 3:42 | 43200 | 720 | 6.094 | 14.07 | 17.03 | 20.48 | 8.561 | 14.32 |
| 6/15/2017 3:43 | 43260 | 721 | 6.092 | 14.07 | 17.02 | 20.49 | 8.565 | 14.323 |
| 6/15/2017 3:44 | 43320 | 722 | 6.093 | 14.07 | 17.02 | 20.49 | 8.563 | 14.329 |
| 6/15/2017 3:45 | 43380 | 723 | 6.093 | 14.07 | 17.02 | 20.49 | 8.563 | 14.316 |
| 6/15/2017 3:46 | 43440 | 724 | 6.093 | 14.07 | 17.02 | 20.49 | 8.564 | 14.335 |
| 6/15/2017 3:47 | 43500 | 725 | 6.092 | 14.07 | 17.02 | 20.49 | 8.566 | 14.342 |

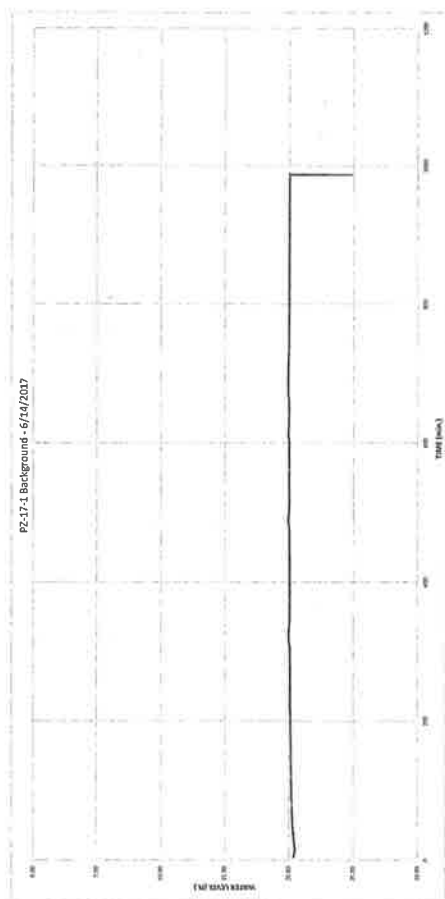
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| 6/15/2017 3:50 | 43680 | 728 | 6.092 | 14.07 | 17.02 | 20.49 | 8.566 | 14.343 |
| 6/15/2017 3:51 | 43740 | 729 | 6.09 | 14.06 | 17.02 | 20.49 | 8.571 | 14.3 |
| 6/15/2017 3:52 | 43800 | 730 | 6.093 | 14.07 | 17.02 | 20.49 | 8.564 | 14.315 |
| 6/15/2017 3:53 | 43860 | 731 | 6.092 | 14.07 | 17.02 | 20.49 | 8.567 | 14.287 |
| 6/15/2017 3:54 | 43920 | 732 | 6.095 | 14.07 | 17.03 | 20.48 | 8.56 | 14.328 |
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| 6/15/2017 3:56 | 44040 | 734 | 6.093 | 14.07 | 17.02 | 20.49 | 8.564 | 14.328 |
| 6/15/2017 3:57 | 44100 | 735 | 6.092 | 14.07 | 17.02 | 20.49 | 8.566 | 14.313 |
| 6/15/2017 3:58 | 44160 | 736 | 6.093 | 14.07 | 17.02 | 20.49 | 8.564 | 14.345 |
| 6/15/2017 3:59 | 44220 | 737 | 6.093 | 14.07 | 17.02 | 20.49 | 8.564 | 14.321 |
| 6/15/2017 4:00 | 44280 | 738 | 6.092 | 14.07 | 17.02 | 20.49 | 8.566 | 14.315 |
| 6/15/2017 4:01 | 44340 | 739 | 6.092 | 14.07 | 17.02 | 20.49 | 8.565 | 14.295 |
| 6/15/2017 4:02 | 44400 | 740 | 6.092 | 14.07 | 17.02 | 20.49 | 8.566 | 14.331 |
| 6/15/2017 4:03 | 44460 | 741 | 6.093 | 14.07 | 17.02 | 20.49 | 8.565 | 14.32 |
| 6/15/2017 4:04 | 44520 | 742 | 6.093 | 14.07 | 17.02 | 20.49 | 8.564 | 14.307 |
| 6/15/2017 4:05 | 44580 | 743 | 6.093 | 14.07 | 17.02 | 20.49 | 8.563 | 14.315 |
| 6/15/2017 4:06 | 44640 | 744 | 6.092 | 14.07 | 17.02 | 20.49 | 8.566 | 14.329 |
| 6/15/2017 4:07 | 44700 | 745 | 6.091 | 14.06 | 17.02 | 20.49 | 8.568 | 14.312 |
| 6/15/2017 4:08 | 44760 | 746 | 6.091 | 14.06 | 17.02 | 20.49 | 8.568 | 14.311 |
| 6/15/2017 4:09 | 44820 | 747 | 6.092 | 14.07 | 17.02 | 20.49 | 8.567 | 14.312 |
| 6/15/2017 4:10 | 44880 | 748 | 6.092 | 14.07 | 17.02 | 20.49 | 8.567 | 14.324 |
| 6/15/2017 4:11 | 44940 | 749 | 6.092 | 14.07 | 17.02 | 20.49 | 8.567 | 14.32 |
| 6/15/2017 4:12 | 45000 | 750 | 6.091 | 14.06 | 17.02 | 20.49 | 8.568 | 14.32 |
| 6/15/2017 4:13 | 45060 | 751 | 6.09 | 14.06 | 17.02 | 20.49 | 8.571 | 14.331 |
| 6/15/2017 4:14 | 45120 | 752 | 6.091 | 14.06 | 17.02 | 20.49 | 8.568 | 14.315 |
| 6/15/2017 4:15 | 45180 | 753 | 6.093 | 14.07 | 17.02 | 20.49 | 8.564 | 14.322 |
| 6/15/2017 4:16 | 45240 | 754 | 6.091 | 14.06 | 17.02 | 20.49 | 8.568 | 14.307 |
| 6/15/2017 4:17 | 45300 | 755 | 6.091 | 14.06 | 17.02 | 20.49 | 8.567 | 14.31 |
| 6/15/2017 4:18 | 45360 | 756 | 6.091 | 14.06 | 17.02 | 20.49 | 8.569 | 14.323 |
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| 6/15/2017 4:20 | 45480 | 758 | 6.092 | 14.07 | 17.02 | 20.49 | 8.567 | 14.332 |
| 6/15/2017 4:21 | 45540 | 759 | 6.092 | 14.07 | 17.02 | 20.49 | 8.567 | 14.308 |
| 6/15/2017 4:22 | 45600 | 760 | 6.09 | 14.06 | 17.02 | 20.49 | 8.571 | 14.307 |
| 6/15/2017 4:23 | 45660 | 761 | 6.091 | 14.06 | 17.02 | 20.49 | 8.568 | 14.342 |
| 6/15/2017 4:24 | 45720 | 762 | 6.091 | 14.06 | 17.02 | 20.49 | 8.569 | 14.307 |
| 6/15/2017 4:25 | 45780 | 763 | 6.092 | 14.07 | 17.02 | 20.49 | 8.565 | 14.315 |
| 6/15/2017 4:26 | 45840 | 764 | 6.091 | 14.06 | 17.02 | 20.49 | 8.568 | 14.323 |
| 6/15/2017 4:27 | 45900 | 765 | 6.09 | 14.06 | 17.02 | 20.49 | 8.57 | 14.324 |
| 6/15/2017 4:28 | 45960 | 766 | 6.09 | 14.06 | 17.02 | 20.49 | 8.571 | 14.31 |
| 6/15/2017 4:29 | 46020 | 767 | 6.093 | 14.07 | 17.02 | 20.49 | 8.565 | 14.326 |
| 6/15/2017 4:30 | 46080 | 768 | 6.091 | 14.06 | 17.02 | 20.49 | 8.569 | 14.317 |
| 6/15/2017 4:31 | 46140 | 769 | 6.093 | 14.07 | 17.02 | 20.49 | 8.564 | 14.322 |
| 6/15/2017 4:32 | 46200 | 770 | 6.092 | 14.07 | 17.02 | 20.49 | 8.567 | 14.317 |
| 6/15/2017 4:33 | 46260 | 771 | 6.091 | 14.06 | 17.02 | 20.49 | 8.568 | 14.315 |
| 6/15/2017 4:34 | 46320 | 772 | 6.09 | 14.06 | 17.02 | 20.49 | 8.572 | 14.312 |

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| 6/15/2017 4:35 | 46380 | 773 | 6.091 | 14.06 | 17.02 | 20.49 | 8.567 | 14.331 |
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| 6/15/2017 4:38 | 46560 | 776 | 6.091 | 14.06 | 17.02 | 20.49 | 8.569 | 14.295 |
| 6/15/2017 4:39 | 46620 | 777 | 6.09 | 14.06 | 17.02 | 20.49 | 8.57 | 14.291 |
| 6/15/2017 4:40 | 46680 | 778 | 6.09 | 14.06 | 17.02 | 20.49 | 8.571 | 14.307 |
| 6/15/2017 4:41 | 46740 | 779 | 6.092 | 14.07 | 17.02 | 20.49 | 8.567 | 14.29 |
| 6/15/2017 4:42 | 46800 | 780 | 6.091 | 14.06 | 17.02 | 20.49 | 8.567 | 14.292 |
| 6/15/2017 4:43 | 46860 | 781 | 6.092 | 14.07 | 17.02 | 20.49 | 8.566 | 14.295 |
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| 6/15/2017 4:47 | 47100 | 785 | 6.09 | 14.06 | 17.02 | 20.49 | 8.57 | 14.311 |
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| 6/15/2017 4:57 | 47700 | 795 | 6.091 | 14.06 | 17.02 | 20.49 | 8.569 | 14.328 |
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| 6/15/2017 5:01 | 47940 | 799 | 6.09 | 14.06 | 17.02 | 20.49 | 8.571 | 14.309 |
| 6/15/2017 5:02 | 48000 | 800 | 6.089 | 14.06 | 17.01 | 20.50 | 8.574 | 14.3 |
| 6/15/2017 5:03 | 48060 | 801 | 6.09 | 14.06 | 17.02 | 20.49 | 8.57 | 14.304 |
| 6/15/2017 5:04 | 48120 | 802 | 6.09 | 14.06 | 17.02 | 20.49 | 8.572 | 14.323 |
| 6/15/2017 5:05 | 48180 | 803 | 6.088 | 14.06 | 17.01 | 20.50 | 8.575 | 14.289 |
| 6/15/2017 5:06 | 48240 | 804 | 6.091 | 14.06 | 17.02 | 20.49 | 8.569 | 14.289 |
| 6/15/2017 5:07 | 48300 | 805 | 6.087 | 14.05 | 17.01 | 20.50 | 8.577 | 14.28 |
| 6/15/2017 5:08 | 48360 | 806 | 6.088 | 14.06 | 17.01 | 20.50 | 8.575 | 14.313 |
| 6/15/2017 5:09 | 48420 | 807 | 6.09 | 14.06 | 17.02 | 20.49 | 8.571 | 14.317 |
| 6/15/2017 5:10 | 48480 | 808 | 6.09 | 14.06 | 17.02 | 20.49 | 8.572 | 14.315 |
| 6/15/2017 5:11 | 48540 | 809 | 6.089 | 14.06 | 17.01 | 20.50 | 8.574 | 14.283 |
| 6/15/2017 5:12 | 48600 | 810 | 6.091 | 14.06 | 17.02 | 20.49 | 8.569 | 14.294 |
| 6/15/2017 5:13 | 48660 | 811 | 6.089 | 14.06 | 17.01 | 20.50 | 8.572 | 14.3 |
| 6/15/2017 5:14 | 48720 | 812 | 6.089 | 14.06 | 17.01 | 20.50 | 8.573 | 14.297 |
| 6/15/2017 5:15 | 48780 | 813 | 6.09 | 14.06 | 17.02 | 20.49 | 8.571 | 14.291 |
| 6/15/2017 5:16 | 48840 | 814 | 6.088 | 14.06 | 17.01 | 20.50 | 8.575 | 14.32 |
| 6/15/2017 5:17 | 48900 | 815 | 6.087 | 14.05 | 17.01 | 20.50 | 8.577 | 14.301 |
| 6/15/2017 5:18 | 48960 | 816 | 6.088 | 14.06 | 17.01 | 20.50 | 8.575 | 14.296 |
| 6/15/2017 5:19 | 49020 | 817 | 6.09 | 14.06 | 17.02 | 20.49 | 8.572 | 14.283 |
| 6/15/2017 5:20 | 49080 | 818 | 6.087 | 14.05 | 17.01 | 20.50 | 8.578 | 14.276 |
| 6/15/2017 5:21 | 49140 | 819 | 6.088 | 14.06 | 17.01 | 20.50 | 8.576 | 14.304 |

| | | | | | | | | |
|----------------|-------|-----|-------|-------|-------|-------|-------|--------|
| 6/15/2017 5:22 | 49200 | 820 | 6.089 | 14.06 | 17.01 | 20.50 | 8.574 | 14.294 |
| 6/15/2017 5:23 | 49260 | 821 | 6.088 | 14.06 | 17.01 | 20.50 | 8.575 | 14.302 |
| 6/15/2017 5:24 | 49320 | 822 | 6.088 | 14.06 | 17.01 | 20.50 | 8.572 | 14.308 |
| 6/15/2017 5:25 | 49380 | 823 | 6.087 | 14.05 | 17.01 | 20.50 | 8.578 | 14.303 |
| 6/15/2017 5:26 | 49440 | 824 | 6.088 | 14.06 | 17.01 | 20.50 | 8.576 | 14.299 |
| 6/15/2017 5:27 | 49500 | 825 | 6.086 | 14.05 | 17.01 | 20.50 | 8.579 | 14.28 |
| 6/15/2017 5:28 | 49560 | 826 | 6.089 | 14.06 | 17.01 | 20.50 | 8.574 | 14.297 |
| 6/15/2017 5:29 | 49620 | 827 | 6.087 | 14.05 | 17.01 | 20.50 | 8.578 | 14.316 |
| 6/15/2017 5:30 | 49680 | 828 | 6.087 | 14.05 | 17.01 | 20.50 | 8.578 | 14.279 |
| 6/15/2017 5:31 | 49740 | 829 | 6.088 | 14.06 | 17.01 | 20.50 | 8.575 | 14.284 |
| 6/15/2017 5:32 | 49800 | 830 | 6.09 | 14.06 | 17.02 | 20.49 | 8.572 | 14.282 |
| 6/15/2017 5:33 | 49860 | 831 | 6.088 | 14.06 | 17.01 | 20.50 | 8.574 | 14.283 |
| 6/15/2017 5:34 | 49920 | 832 | 6.087 | 14.05 | 17.01 | 20.50 | 8.577 | 14.278 |
| 6/15/2017 5:35 | 49980 | 833 | 6.088 | 14.06 | 17.01 | 20.50 | 8.576 | 14.299 |
| 6/15/2017 5:36 | 50040 | 834 | 6.086 | 14.05 | 17.01 | 20.50 | 8.58 | 14.275 |
| 6/15/2017 5:37 | 50100 | 835 | 6.088 | 14.06 | 17.01 | 20.50 | 8.576 | 14.299 |
| 6/15/2017 5:38 | 50160 | 836 | 6.086 | 14.05 | 17.01 | 20.50 | 8.58 | 14.273 |
| 6/15/2017 5:39 | 50220 | 837 | 6.085 | 14.05 | 17.01 | 20.50 | 8.582 | 14.279 |
| 6/15/2017 5:40 | 50280 | 838 | 6.089 | 14.06 | 17.01 | 20.50 | 8.573 | 14.271 |
| 6/15/2017 5:41 | 50340 | 839 | 6.083 | 14.05 | 17.00 | 20.51 | 8.586 | 14.294 |
| 6/15/2017 5:42 | 50400 | 840 | 6.086 | 14.05 | 17.01 | 20.50 | 8.58 | 14.297 |
| 6/15/2017 5:43 | 50460 | 841 | 6.087 | 14.05 | 17.01 | 20.50 | 8.578 | 14.281 |
| 6/15/2017 5:44 | 50520 | 842 | 6.087 | 14.05 | 17.01 | 20.50 | 8.579 | 14.296 |
| 6/15/2017 5:45 | 50580 | 843 | 6.087 | 14.05 | 17.01 | 20.50 | 8.578 | 14.307 |
| 6/15/2017 5:46 | 50640 | 844 | 6.087 | 14.05 | 17.01 | 20.50 | 8.578 | 14.276 |
| 6/15/2017 5:47 | 50700 | 845 | 6.086 | 14.05 | 17.01 | 20.50 | 8.58 | 14.262 |
| 6/15/2017 5:48 | 50760 | 846 | 6.085 | 14.05 | 17.01 | 20.50 | 8.583 | 14.276 |
| 6/15/2017 5:49 | 50820 | 847 | 6.084 | 14.05 | 17.00 | 20.51 | 8.584 | 14.269 |
| 6/15/2017 5:50 | 50880 | 848 | 6.086 | 14.05 | 17.01 | 20.50 | 8.579 | 14.3 |
| 6/15/2017 5:51 | 50940 | 849 | 6.086 | 14.05 | 17.01 | 20.50 | 8.581 | 14.286 |
| 6/15/2017 5:52 | 51000 | 850 | 6.085 | 14.05 | 17.01 | 20.50 | 8.582 | 14.26 |
| 6/15/2017 5:53 | 51060 | 851 | 6.087 | 14.05 | 17.01 | 20.50 | 8.579 | 14.278 |
| 6/15/2017 5:54 | 51120 | 852 | 6.086 | 14.05 | 17.01 | 20.50 | 8.58 | 14.283 |
| 6/15/2017 5:55 | 51180 | 853 | 6.086 | 14.05 | 17.01 | 20.50 | 8.58 | 14.276 |
| 6/15/2017 5:56 | 51240 | 854 | 6.086 | 14.05 | 17.01 | 20.50 | 8.58 | 14.295 |
| 6/15/2017 5:57 | 51300 | 855 | 6.085 | 14.05 | 17.01 | 20.50 | 8.582 | 14.26 |
| 6/15/2017 5:58 | 51360 | 856 | 6.086 | 14.05 | 17.01 | 20.50 | 8.58 | 14.288 |
| 6/15/2017 5:59 | 51420 | 857 | 6.085 | 14.05 | 17.01 | 20.50 | 8.583 | 14.279 |
| 6/15/2017 6:00 | 51480 | 858 | 6.086 | 14.05 | 17.01 | 20.50 | 8.58 | 14.277 |
| 6/15/2017 6:01 | 51540 | 859 | 6.085 | 14.05 | 17.01 | 20.50 | 8.582 | 14.275 |
| 6/15/2017 6:02 | 51600 | 860 | 6.086 | 14.05 | 17.01 | 20.50 | 8.58 | 14.269 |
| 6/15/2017 6:03 | 51660 | 861 | 6.084 | 14.05 | 17.00 | 20.51 | 8.584 | 14.271 |
| 6/15/2017 6:04 | 51720 | 862 | 6.084 | 14.05 | 17.00 | 20.51 | 8.584 | 14.291 |
| 6/15/2017 6:05 | 51780 | 863 | 6.085 | 14.05 | 17.01 | 20.50 | 8.583 | 14.281 |
| 6/15/2017 6:06 | 51840 | 864 | 6.085 | 14.05 | 17.01 | 20.50 | 8.583 | 14.273 |
| 6/15/2017 6:07 | 51900 | 865 | 6.084 | 14.05 | 17.00 | 20.51 | 8.584 | 14.281 |
| 6/15/2017 6:08 | 51960 | 866 | 6.084 | 14.05 | 17.00 | 20.51 | 8.584 | 14.269 |

| | | | | | | | | |
|----------------|-------|-----|-------|-------|-------|-------|-------|--------|
| 6/15/2017 6:09 | 52020 | 867 | 6.084 | 14.05 | 17.00 | 20.51 | 8.584 | 14.251 |
| 6/15/2017 6:10 | 52080 | 868 | 6.086 | 14.05 | 17.01 | 20.50 | 8.58 | 14.298 |
| 6/15/2017 6:11 | 52140 | 869 | 6.084 | 14.05 | 17.00 | 20.51 | 8.585 | 14.289 |
| 6/15/2017 6:12 | 52200 | 870 | 6.085 | 14.05 | 17.01 | 20.50 | 8.583 | 14.293 |
| 6/15/2017 6:13 | 52260 | 871 | 6.087 | 14.05 | 17.01 | 20.50 | 8.578 | 14.277 |
| 6/15/2017 6:14 | 52320 | 872 | 6.084 | 14.05 | 17.00 | 20.51 | 8.584 | 14.265 |
| 6/15/2017 6:15 | 52380 | 873 | 6.084 | 14.05 | 17.00 | 20.51 | 8.584 | 14.256 |
| 6/15/2017 6:16 | 52440 | 874 | 6.086 | 14.05 | 17.01 | 20.50 | 8.579 | 14.28 |
| 6/15/2017 6:17 | 52500 | 875 | 6.083 | 14.05 | 17.00 | 20.51 | 8.586 | 14.257 |
| 6/15/2017 6:18 | 52560 | 876 | 6.083 | 14.05 | 17.00 | 20.51 | 8.587 | 14.26 |
| 6/15/2017 6:19 | 52620 | 877 | 6.083 | 14.05 | 17.00 | 20.51 | 8.588 | 14.281 |
| 6/15/2017 6:20 | 52680 | 878 | 6.083 | 14.05 | 17.00 | 20.51 | 8.586 | 14.25 |
| 6/15/2017 6:21 | 52740 | 879 | 6.084 | 14.05 | 17.00 | 20.51 | 8.584 | 14.25 |
| 6/15/2017 6:22 | 52800 | 880 | 6.082 | 14.04 | 17.00 | 20.51 | 8.588 | 14.279 |
| 6/15/2017 6:23 | 52860 | 881 | 6.084 | 14.05 | 17.00 | 20.51 | 8.585 | 14.277 |
| 6/15/2017 6:24 | 52920 | 882 | 6.083 | 14.05 | 17.00 | 20.51 | 8.586 | 14.269 |
| 6/15/2017 6:25 | 52980 | 883 | 6.082 | 14.04 | 17.00 | 20.51 | 8.588 | 14.26 |
| 6/15/2017 6:26 | 53040 | 884 | 6.082 | 14.04 | 17.00 | 20.51 | 8.589 | 14.246 |
| 6/15/2017 6:27 | 53100 | 885 | 6.084 | 14.05 | 17.00 | 20.51 | 8.585 | 14.263 |
| 6/15/2017 6:28 | 53160 | 886 | 6.084 | 14.05 | 17.00 | 20.51 | 8.586 | 14.276 |
| 6/15/2017 6:29 | 53220 | 887 | 6.083 | 14.05 | 17.00 | 20.51 | 8.588 | 14.284 |
| 6/15/2017 6:30 | 53280 | 888 | 6.084 | 14.05 | 17.00 | 20.51 | 8.585 | 14.273 |
| 6/15/2017 6:31 | 53340 | 889 | 6.082 | 14.04 | 17.00 | 20.51 | 8.588 | 14.252 |
| 6/15/2017 6:32 | 53400 | 890 | 6.084 | 14.05 | 17.00 | 20.51 | 8.584 | 14.279 |
| 6/15/2017 6:33 | 53460 | 891 | 6.082 | 14.04 | 17.00 | 20.51 | 8.589 | 14.269 |
| 6/15/2017 6:34 | 53520 | 892 | 6.082 | 14.04 | 17.00 | 20.51 | 8.589 | 14.262 |
| 6/15/2017 6:35 | 53580 | 893 | 6.082 | 14.04 | 17.00 | 20.51 | 8.589 | 14.271 |
| 6/15/2017 6:36 | 53640 | 894 | 6.082 | 14.04 | 17.00 | 20.51 | 8.588 | 14.255 |
| 6/15/2017 6:37 | 53700 | 895 | 6.082 | 14.04 | 17.00 | 20.51 | 8.59 | 14.268 |
| 6/15/2017 6:38 | 53760 | 896 | 6.083 | 14.05 | 17.00 | 20.51 | 8.587 | 14.282 |
| 6/15/2017 6:39 | 53820 | 897 | 6.083 | 14.05 | 17.00 | 20.51 | 8.588 | 14.271 |
| 6/15/2017 6:40 | 53880 | 898 | 6.082 | 14.04 | 17.00 | 20.51 | 8.588 | 14.264 |
| 6/15/2017 6:41 | 53940 | 899 | 6.082 | 14.04 | 17.00 | 20.51 | 8.588 | 14.274 |
| 6/15/2017 6:42 | 54000 | 900 | 6.081 | 14.04 | 17.00 | 20.51 | 8.592 | 14.257 |
| 6/15/2017 6:43 | 54060 | 901 | 6.08 | 14.04 | 16.99 | 20.52 | 8.593 | 14.272 |
| 6/15/2017 6:44 | 54120 | 902 | 6.082 | 14.04 | 17.00 | 20.51 | 8.589 | 14.281 |
| 6/15/2017 6:45 | 54180 | 903 | 6.082 | 14.04 | 17.00 | 20.51 | 8.59 | 14.268 |
| 6/15/2017 6:46 | 54240 | 904 | 6.081 | 14.04 | 17.00 | 20.51 | 8.593 | 14.235 |
| 6/15/2017 6:47 | 54300 | 905 | 6.081 | 14.04 | 17.00 | 20.51 | 8.591 | 14.266 |
| 6/15/2017 6:48 | 54360 | 906 | 6.08 | 14.04 | 16.99 | 20.52 | 8.593 | 14.275 |
| 6/15/2017 6:49 | 54420 | 907 | 6.08 | 14.04 | 16.99 | 20.52 | 8.595 | 14.278 |
| 6/15/2017 6:50 | 54480 | 908 | 6.081 | 14.04 | 17.00 | 20.51 | 8.591 | 14.261 |
| 6/15/2017 6:51 | 54540 | 909 | 6.082 | 14.04 | 17.00 | 20.51 | 8.589 | 14.275 |
| 6/15/2017 6:52 | 54600 | 910 | 6.08 | 14.04 | 16.99 | 20.52 | 8.594 | 14.285 |
| 6/15/2017 6:53 | 54660 | 911 | 6.08 | 14.04 | 16.99 | 20.52 | 8.594 | 14.284 |
| 6/15/2017 6:54 | 54720 | 912 | 6.082 | 14.04 | 17.00 | 20.51 | 8.59 | 14.263 |
| 6/15/2017 6:55 | 54780 | 913 | 6.081 | 14.04 | 17.00 | 20.51 | 8.592 | 14.273 |

| | | | | | | | | |
|----------------|-------|-----|-------|-------|-------|-------|-------|--------|
| 6/15/2017 6:56 | 54840 | 914 | 6.08 | 14.04 | 16.99 | 20.52 | 8.593 | 14.27 |
| 6/15/2017 6:57 | 54900 | 915 | 6.079 | 14.04 | 16.99 | 20.52 | 8.595 | 14.279 |
| 6/15/2017 6:58 | 54960 | 916 | 6.08 | 14.04 | 16.99 | 20.52 | 8.594 | 14.263 |
| 6/15/2017 6:59 | 55020 | 917 | 6.079 | 14.04 | 16.99 | 20.52 | 8.596 | 14.285 |
| 6/15/2017 7:00 | 55080 | 918 | 6.08 | 14.04 | 16.99 | 20.52 | 8.594 | 14.266 |
| 6/15/2017 7:01 | 55140 | 919 | 6.081 | 14.04 | 17.00 | 20.51 | 8.592 | 14.27 |
| 6/15/2017 7:02 | 55200 | 920 | 6.078 | 14.03 | 16.99 | 20.52 | 8.598 | 14.269 |
| 6/15/2017 7:03 | 55260 | 921 | 6.08 | 14.04 | 16.99 | 20.52 | 8.593 | 14.257 |
| 6/15/2017 7:04 | 55320 | 922 | 6.081 | 14.04 | 17.00 | 20.51 | 8.591 | 14.257 |
| 6/15/2017 7:05 | 55380 | 923 | 6.08 | 14.04 | 16.99 | 20.52 | 8.594 | 14.263 |
| 6/15/2017 7:06 | 55440 | 924 | 6.078 | 14.03 | 16.99 | 20.52 | 8.599 | 14.236 |
| 6/15/2017 7:07 | 55500 | 925 | 6.078 | 14.03 | 16.99 | 20.52 | 8.598 | 14.269 |
| 6/15/2017 7:08 | 55560 | 926 | 6.08 | 14.04 | 16.99 | 20.52 | 8.593 | 14.28 |
| 6/15/2017 7:09 | 55620 | 927 | 6.08 | 14.04 | 16.99 | 20.52 | 8.594 | 14.262 |
| 6/15/2017 7:10 | 55680 | 928 | 6.08 | 14.04 | 16.99 | 20.52 | 8.595 | 14.264 |
| 6/15/2017 7:11 | 55740 | 929 | 6.08 | 14.04 | 16.99 | 20.52 | 8.594 | 14.261 |
| 6/15/2017 7:12 | 55800 | 930 | 6.077 | 14.03 | 16.99 | 20.52 | 8.601 | 14.257 |
| 6/15/2017 7:13 | 55860 | 931 | 6.083 | 14.05 | 17.00 | 20.51 | 8.586 | 14.254 |
| 6/15/2017 7:14 | 55920 | 932 | 6.08 | 14.04 | 16.99 | 20.52 | 8.594 | 14.269 |
| 6/15/2017 7:15 | 55980 | 933 | 6.081 | 14.04 | 17.00 | 20.51 | 8.593 | 14.268 |
| 6/15/2017 7:16 | 56040 | 934 | 6.081 | 14.04 | 17.00 | 20.51 | 8.592 | 14.269 |
| 6/15/2017 7:17 | 56100 | 935 | 6.079 | 14.04 | 16.99 | 20.52 | 8.596 | 14.266 |
| 6/15/2017 7:18 | 56160 | 936 | 6.081 | 14.04 | 17.00 | 20.51 | 8.592 | 14.275 |
| 6/15/2017 7:19 | 56220 | 937 | 6.08 | 14.04 | 16.99 | 20.52 | 8.594 | 14.275 |
| 6/15/2017 7:20 | 56280 | 938 | 6.079 | 14.04 | 16.99 | 20.52 | 8.596 | 14.277 |
| 6/15/2017 7:21 | 56340 | 939 | 6.079 | 14.04 | 16.99 | 20.52 | 8.596 | 14.248 |
| 6/15/2017 7:22 | 56400 | 940 | 6.08 | 14.04 | 16.99 | 20.52 | 8.594 | 14.25 |
| 6/15/2017 7:23 | 56460 | 941 | 6.079 | 14.04 | 16.99 | 20.52 | 8.597 | 14.264 |
| 6/15/2017 7:24 | 56520 | 942 | 6.08 | 14.04 | 16.99 | 20.52 | 8.595 | 14.266 |
| 6/15/2017 7:25 | 56580 | 943 | 6.078 | 14.03 | 16.99 | 20.52 | 8.599 | 14.269 |
| 6/15/2017 7:26 | 56640 | 944 | 6.078 | 14.03 | 16.99 | 20.52 | 8.597 | 14.265 |
| 6/15/2017 7:27 | 56700 | 945 | 6.079 | 14.04 | 16.99 | 20.52 | 8.598 | 14.248 |
| 6/15/2017 7:28 | 56760 | 946 | 6.078 | 14.03 | 16.99 | 20.52 | 8.597 | 14.249 |
| 6/15/2017 7:29 | 56820 | 947 | 6.079 | 14.04 | 16.99 | 20.52 | 8.597 | 14.286 |
| 6/15/2017 7:30 | 56880 | 948 | 6.081 | 14.04 | 17.00 | 20.51 | 8.592 | 14.286 |
| 6/15/2017 7:31 | 56940 | 949 | 6.08 | 14.04 | 16.99 | 20.52 | 8.595 | 14.26 |
| 6/15/2017 7:32 | 57000 | 950 | 6.077 | 14.03 | 16.99 | 20.52 | 8.6 | 14.283 |
| 6/15/2017 7:33 | 57060 | 951 | 6.078 | 14.03 | 16.99 | 20.52 | 8.599 | 14.268 |
| 6/15/2017 7:34 | 57120 | 952 | 6.08 | 14.04 | 16.99 | 20.52 | 8.595 | 14.285 |
| 6/15/2017 7:35 | 57180 | 953 | 6.077 | 14.03 | 16.99 | 20.52 | 8.6 | 14.251 |
| 6/15/2017 7:36 | 57240 | 954 | 6.078 | 14.03 | 16.99 | 20.52 | 8.598 | 14.26 |
| 6/15/2017 7:37 | 57300 | 955 | 6.09 | 14.06 | 17.02 | 20.49 | 8.57 | 14.269 |
| 6/15/2017 7:38 | 57360 | 956 | 6.085 | 14.05 | 17.01 | 20.50 | 8.582 | 14.282 |
| 6/15/2017 7:39 | 57420 | 957 | 6.082 | 14.04 | 17.00 | 20.51 | 8.59 | 14.28 |
| 6/15/2017 7:40 | 57480 | 958 | 6.082 | 14.04 | 17.00 | 20.51 | 8.589 | 14.265 |



Report Date: 6/16/2017 11:37
Report User Name: spauldingj
Report Computer N LAPTOP04
Application: WinSitu.exe
Application Version 5.6.25.0

Log File Properties
File Name PZ-17-1_Append_2017-06-15_08-09-29-828.wsl
Create Date 6/15/2017 8:09

Device Properties
Device Level TROLL 700
Site Orange County Landfill
Device Name
Serial Number 429368
Firmware Version 3.03
Hardware Version 5
Device Address 1
Device Comm Cfg 19200
Used Memory 0
Used Battery 11

Log Configuration

Log Name
Created By
Computer Name
Application
Application Version
Create Date
Log Setup Time Zone
Notes Size(bytes)
Overwrite when full
Scheduled Start Time
Scheduled Stop Time
Type
Interval

PZ-17-1
SpauldingJ
LAPTOP04
WinSitu.exe
5.6.25.0
6/14/2017 3:34:39 PM Eastern Daylight Time
Eastern Daylight Time
4096
Disabled
Manual Start
No Stop Time
Linear
Days: 0 hrs: 00 mins: 01 secs: 00

Even

8

Level Reference Settings At Log Creation
Level Measurement Mode
Specific Gravity
Level Reference Mode:
Level Reference Value:
Level Reference Head Pressure

Level Depth To Water
0.999
Set new reference
20.36 (ft)
0.0121307 (PSI)

Other Log Settings

Depth of Probe: 0.028353 (ft)
Head Pressure: 0.0122795 (PSI)
Temperature: 37.8414 (C)

Log Notes:

Date and Time Note
6/14/2017 15:34 Used Battery: 11% Used Memory: 1% User Name: SpauldingJ
6/14/2017 15:35 Manual Start Command
6/15/2017 8:00 Suspend Command
6/15/2017 8:00 Resume Command
6/15/2017 8:02 Used Battery: 11% Used Memory: 1% User Name: SpauldingJ
6/15/2017 8:02 Manual Stop Command

Log Data:

Record Count 989

Sensors

1

Pressure/Temp 15 PSIG (11m/35ft)

429368

Time Zone: Eastern Daylight Time

| Date and Time | Elapsed Time Seconds | Minutes | Sensor: Pres(G) 35ft SN#: 429368 | | | Sensor: Pres(G) 35ft SN#: 429368 | | |
|-----------------|-------------------------|---------|-------------------------------------|--------------|-------------------|-------------------------------------|-----------------|-----------------|
| | | | Pressure (PSI) | Calculations | Water Level (ft.) | Level Depth To Water (ft) | Temperature (C) | Temperature (C) |
| 6/14/2017 15:35 | 0 | 0 | 0.01 | 0.02 | 20.365 | 20.365 | 37.109 | 37.109 |
| 6/14/2017 15:36 | 60.001 | 1 | 0.001 | 0.00 | 20.386 | 20.386 | 35.411 | 35.411 |
| 6/14/2017 15:37 | 120.001 | 2 | 3.895 | 8.99 | 11.395 | 11.395 | 31.292 | 31.292 |
| 6/14/2017 15:38 | 180.001 | 3 | 3.895 | 8.99 | 11.395 | 11.395 | 25.711 | 25.711 |
| 6/14/2017 15:39 | 240.001 | 4 | 3.157 | 7.29 | 11.20 | 20.36 | 13.097 | 21.92 |
| 6/14/2017 15:40 | 300.001 | 5 | 3.15 | 7.27 | 11.18 | 20.38 | 13.114 | 19.501 |
| 6/14/2017 15:41 | 360.001 | 6 | 3.142 | 7.25 | 11.17 | 20.39 | 13.133 | 18.013 |
| 6/14/2017 15:42 | 420.001 | 7 | 3.137 | 7.24 | 11.15 | 20.41 | 13.145 | 17.041 |
| 6/14/2017 15:43 | 480.001 | 8 | 3.131 | 7.23 | 11.14 | 20.42 | 13.159 | 16.342 |
| 6/14/2017 15:44 | 540.001 | 9 | 3.126 | 7.22 | 11.13 | 20.43 | 13.169 | 15.867 |
| 6/14/2017 15:45 | 600.001 | 10 | 3.124 | 7.21 | 11.12 | 20.44 | 13.175 | 15.499 |
| 6/14/2017 15:46 | 660.001 | 11 | 3.121 | 7.21 | 11.12 | 20.44 | 13.182 | 15.221 |
| 6/14/2017 15:47 | 720.001 | 12 | 3.121 | 7.21 | 11.12 | 20.44 | 13.181 | 14.985 |
| 6/14/2017 15:48 | 780.001 | 13 | 3.116 | 7.19 | 11.11 | 20.45 | 13.192 | 14.822 |
| 6/14/2017 15:49 | 840.001 | 14 | 3.118 | 7.20 | 11.11 | 20.45 | 13.19 | 14.682 |
| 6/14/2017 15:50 | 900.001 | 15 | 3.117 | 7.20 | 11.11 | 20.45 | 13.19 | 14.556 |
| 6/14/2017 15:51 | 960.001 | 16 | 3.116 | 7.19 | 11.11 | 20.45 | 13.192 | 14.467 |

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| 6/14/2017 15:52 | 1020.001 | 17 | 3.118 | 7.20 | 11.11 | 20.45 | 13.189 | 14.394 |
| 6/14/2017 15:53 | 1080.001 | 18 | 3.119 | 7.20 | 11.11 | 20.45 | 13.185 | 14.312 |
| 6/14/2017 15:54 | 1140.001 | 19 | 3.121 | 7.21 | 11.12 | 20.44 | 13.181 | 14.266 |
| 6/14/2017 15:55 | 1200.001 | 20 | 3.122 | 7.21 | 11.12 | 20.44 | 13.179 | 14.205 |
| 6/14/2017 15:56 | 1260.001 | 21 | 3.124 | 7.21 | 11.12 | 20.44 | 13.175 | 14.156 |
| 6/14/2017 15:57 | 1320.001 | 22 | 3.125 | 7.22 | 11.13 | 20.43 | 13.172 | 14.115 |
| 6/14/2017 15:58 | 1380.001 | 23 | 3.127 | 7.22 | 11.13 | 20.43 | 13.167 | 14.084 |
| 6/14/2017 15:59 | 1440.001 | 24 | 3.131 | 7.23 | 11.14 | 20.42 | 13.158 | 14.052 |
| 6/14/2017 16:00 | 1500.001 | 25 | 3.133 | 7.23 | 11.14 | 20.42 | 13.155 | 14.016 |
| 6/14/2017 16:01 | 1560.001 | 26 | 3.135 | 7.24 | 11.15 | 20.41 | 13.15 | 14.003 |
| 6/14/2017 16:02 | 1620.001 | 27 | 3.136 | 7.24 | 11.15 | 20.41 | 13.148 | 13.984 |
| 6/14/2017 16:03 | 1680.001 | 28 | 3.141 | 7.25 | 11.16 | 20.40 | 13.135 | 13.982 |
| 6/14/2017 16:04 | 1740.001 | 29 | 3.143 | 7.26 | 11.17 | 20.39 | 13.13 | 13.963 |
| 6/14/2017 16:05 | 1800.001 | 30 | 3.148 | 7.27 | 11.18 | 20.38 | 13.12 | 13.934 |
| 6/14/2017 16:06 | 1860.001 | 31 | 3.148 | 7.27 | 11.18 | 20.38 | 13.119 | 13.931 |
| 6/14/2017 16:07 | 1920.001 | 32 | 3.151 | 7.28 | 11.19 | 20.37 | 13.113 | 13.903 |
| 6/14/2017 16:08 | 1980.001 | 33 | 3.153 | 7.28 | 11.19 | 20.37 | 13.108 | 13.929 |
| 6/14/2017 16:09 | 2040.001 | 34 | 3.157 | 7.29 | 11.20 | 20.36 | 13.098 | 13.908 |
| 6/14/2017 16:10 | 2100.001 | 35 | 3.156 | 7.29 | 11.20 | 20.36 | 13.101 | 13.888 |
| 6/14/2017 16:11 | 2160.001 | 36 | 3.158 | 7.29 | 11.20 | 20.36 | 13.096 | 13.895 |
| 6/14/2017 16:12 | 2220.001 | 37 | 3.165 | 7.31 | 11.22 | 20.34 | 13.081 | 13.903 |
| 6/14/2017 16:13 | 2280.001 | 38 | 3.167 | 7.31 | 11.22 | 20.34 | 13.077 | 13.873 |
| 6/14/2017 16:14 | 2340.001 | 39 | 3.166 | 7.31 | 11.22 | 20.34 | 13.077 | 13.866 |
| 6/14/2017 16:15 | 2400.001 | 40 | 3.169 | 7.32 | 11.23 | 20.33 | 13.07 | 13.879 |
| 6/14/2017 16:16 | 2460.001 | 41 | 3.171 | 7.32 | 11.23 | 20.33 | 13.066 | 13.895 |
| 6/14/2017 16:17 | 2520.001 | 42 | 3.174 | 7.33 | 11.24 | 20.32 | 13.06 | 13.878 |
| 6/14/2017 16:18 | 2580.001 | 43 | 3.175 | 7.33 | 11.24 | 20.32 | 13.057 | 13.87 |
| 6/14/2017 16:19 | 2640.001 | 44 | 3.177 | 7.34 | 11.25 | 20.31 | 13.051 | 13.86 |
| 6/14/2017 16:20 | 2700.001 | 45 | 3.18 | 7.34 | 11.25 | 20.31 | 13.047 | 13.839 |
| 6/14/2017 16:21 | 2760.001 | 46 | 3.181 | 7.34 | 11.26 | 20.30 | 13.043 | 13.834 |
| 6/14/2017 16:22 | 2820.001 | 47 | 3.185 | 7.35 | 11.26 | 20.30 | 13.034 | 13.842 |
| 6/14/2017 16:23 | 2880.001 | 48 | 3.187 | 7.36 | 11.27 | 20.29 | 13.03 | 13.867 |
| 6/14/2017 16:24 | 2940.001 | 49 | 3.187 | 7.36 | 11.27 | 20.29 | 13.03 | 13.854 |
| 6/14/2017 16:25 | 3000.001 | 50 | 3.188 | 7.36 | 11.27 | 20.29 | 13.027 | 13.837 |
| 6/14/2017 16:26 | 3060.001 | 51 | 3.19 | 7.37 | 11.28 | 20.28 | 13.022 | 13.829 |
| 6/14/2017 16:27 | 3120.001 | 52 | 3.19 | 7.37 | 11.28 | 20.28 | 13.021 | 13.833 |
| 6/14/2017 16:28 | 3180.001 | 53 | 3.193 | 7.37 | 11.28 | 20.28 | 13.016 | 13.834 |
| 6/14/2017 16:29 | 3240.001 | 54 | 3.194 | 7.37 | 11.29 | 20.27 | 13.014 | 13.836 |
| 6/14/2017 16:30 | 3300.001 | 55 | 3.195 | 7.38 | 11.29 | 20.27 | 13.011 | 13.846 |
| 6/14/2017 16:31 | 3360.001 | 56 | 3.197 | 7.38 | 11.29 | 20.27 | 13.005 | 13.844 |
| 6/14/2017 16:32 | 3420.001 | 57 | 3.197 | 7.38 | 11.29 | 20.27 | 13.007 | 13.843 |
| 6/14/2017 16:33 | 3480.001 | 58 | 3.198 | 7.38 | 11.29 | 20.27 | 13.003 | 13.841 |
| 6/14/2017 16:34 | 3540.001 | 59 | 3.199 | 7.39 | 11.30 | 20.26 | 13 | 13.844 |
| 6/14/2017 16:35 | 3600.001 | 60 | 3.202 | 7.39 | 11.30 | 20.26 | 12.996 | 13.814 |
| 6/14/2017 16:36 | 3660.001 | 61 | 3.202 | 7.39 | 11.30 | 20.26 | 12.996 | 13.84 |
| 6/14/2017 16:37 | 3720.001 | 62 | 3.204 | 7.40 | 11.31 | 20.25 | 12.991 | 13.837 |
| 6/14/2017 16:38 | 3780.001 | 63 | 3.206 | 7.40 | 11.31 | 20.25 | 12.985 | 13.829 |

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| 6/14/2017 16:39 | 3840.001 | 64 | 3.207 | 7.40 | 11.32 | 20.24 | 12.983 | 13.842 |
| 6/14/2017 16:40 | 3900.001 | 65 | 3.207 | 7.40 | 11.32 | 20.24 | 12.983 | 13.83 |
| 6/14/2017 16:41 | 3960.001 | 66 | 3.209 | 7.41 | 11.32 | 20.24 | 12.978 | 13.815 |
| 6/14/2017 16:42 | 4020.001 | 67 | 3.208 | 7.41 | 11.32 | 20.24 | 12.98 | 13.823 |
| 6/14/2017 16:43 | 4080.001 | 68 | 3.212 | 7.42 | 11.33 | 20.23 | 12.973 | 13.848 |
| 6/14/2017 16:44 | 4140.001 | 69 | 3.213 | 7.42 | 11.33 | 20.23 | 12.97 | 13.846 |
| 6/14/2017 16:45 | 4200.001 | 70 | 3.211 | 7.41 | 11.32 | 20.24 | 12.974 | 13.843 |
| 6/14/2017 16:46 | 4260.001 | 71 | 3.213 | 7.42 | 11.33 | 20.23 | 12.969 | 13.811 |
| 6/14/2017 16:47 | 4320.001 | 72 | 3.214 | 7.42 | 11.33 | 20.23 | 12.966 | 13.819 |
| 6/14/2017 16:48 | 4380.001 | 73 | 3.215 | 7.42 | 11.33 | 20.23 | 12.965 | 13.833 |
| 6/14/2017 16:49 | 4440.001 | 74 | 3.216 | 7.43 | 11.34 | 20.22 | 12.963 | 13.855 |
| 6/14/2017 16:50 | 4500.001 | 75 | 3.216 | 7.43 | 11.34 | 20.22 | 12.963 | 13.837 |
| 6/14/2017 16:51 | 4560.001 | 76 | 3.217 | 7.43 | 11.34 | 20.22 | 12.96 | 13.793 |
| 6/14/2017 16:52 | 4620.001 | 77 | 3.218 | 7.43 | 11.34 | 20.22 | 12.959 | 13.809 |
| 6/14/2017 16:53 | 4680.001 | 78 | 3.221 | 7.44 | 11.35 | 20.21 | 12.952 | 13.825 |
| 6/14/2017 16:54 | 4740.001 | 79 | 3.22 | 7.43 | 11.35 | 20.21 | 12.953 | 13.83 |
| 6/14/2017 16:55 | 4800.001 | 80 | 3.22 | 7.43 | 11.35 | 20.21 | 12.952 | 13.831 |
| 6/14/2017 16:56 | 4860.001 | 81 | 3.221 | 7.44 | 11.35 | 20.21 | 12.95 | 13.815 |
| 6/14/2017 16:57 | 4920.001 | 82 | 3.22 | 7.43 | 11.35 | 20.21 | 12.954 | 13.843 |
| 6/14/2017 16:58 | 4980.001 | 83 | 3.222 | 7.44 | 11.35 | 20.21 | 12.949 | 13.823 |
| 6/14/2017 16:59 | 5040.001 | 84 | 3.223 | 7.44 | 11.35 | 20.21 | 12.945 | 13.833 |
| 6/14/2017 17:00 | 5100.001 | 85 | 3.225 | 7.45 | 11.36 | 20.20 | 12.941 | 13.808 |
| 6/14/2017 17:01 | 5160.001 | 86 | 3.225 | 7.45 | 11.36 | 20.20 | 12.942 | 13.837 |
| 6/14/2017 17:02 | 5220.001 | 87 | 3.226 | 7.45 | 11.36 | 20.20 | 12.94 | 13.842 |
| 6/14/2017 17:03 | 5280.001 | 88 | 3.227 | 7.45 | 11.36 | 20.20 | 12.938 | 13.795 |
| 6/14/2017 17:04 | 5340.001 | 89 | 3.227 | 7.45 | 11.36 | 20.20 | 12.938 | 13.828 |
| 6/14/2017 17:05 | 5400.001 | 90 | 3.228 | 7.45 | 11.36 | 20.20 | 12.934 | 13.834 |
| 6/14/2017 17:06 | 5460.001 | 91 | 3.229 | 7.46 | 11.37 | 20.19 | 12.931 | 13.823 |
| 6/14/2017 17:07 | 5520.001 | 92 | 3.227 | 7.45 | 11.36 | 20.20 | 12.936 | 13.82 |
| 6/14/2017 17:08 | 5580.001 | 93 | 3.229 | 7.46 | 11.37 | 20.19 | 12.933 | 13.831 |
| 6/14/2017 17:09 | 5640.001 | 94 | 3.23 | 7.46 | 11.37 | 20.19 | 12.929 | 13.802 |
| 6/14/2017 17:10 | 5700.001 | 95 | 3.231 | 7.46 | 11.37 | 20.19 | 12.928 | 13.804 |
| 6/14/2017 17:11 | 5760.001 | 96 | 3.232 | 7.46 | 11.37 | 20.19 | 12.926 | 13.809 |
| 6/14/2017 17:12 | 5820.001 | 97 | 3.231 | 7.46 | 11.37 | 20.19 | 12.927 | 13.803 |
| 6/14/2017 17:13 | 5880.001 | 98 | 3.233 | 7.46 | 11.38 | 20.18 | 12.923 | 13.815 |
| 6/14/2017 17:14 | 5940.001 | 99 | 3.232 | 7.46 | 11.37 | 20.19 | 12.924 | 13.817 |
| 6/14/2017 17:15 | 6000.001 | 100 | 3.234 | 7.47 | 11.38 | 20.18 | 12.922 | 13.83 |
| 6/14/2017 17:16 | 6060.001 | 101 | 3.233 | 7.46 | 11.38 | 20.18 | 12.923 | 13.805 |
| 6/14/2017 17:17 | 6120.001 | 102 | 3.234 | 7.47 | 11.38 | 20.18 | 12.92 | 13.818 |
| 6/14/2017 17:18 | 6180.001 | 103 | 3.233 | 7.46 | 11.38 | 20.18 | 12.923 | 13.836 |
| 6/14/2017 17:19 | 6240.001 | 104 | 3.235 | 7.47 | 11.38 | 20.18 | 12.919 | 13.826 |
| 6/14/2017 17:20 | 6300.001 | 105 | 3.236 | 7.47 | 11.38 | 20.18 | 12.915 | 13.831 |
| 6/14/2017 17:21 | 6360.001 | 106 | 3.238 | 7.48 | 11.39 | 20.17 | 12.911 | 13.81 |
| 6/14/2017 17:22 | 6420.001 | 107 | 3.238 | 7.48 | 11.39 | 20.17 | 12.913 | 13.804 |
| 6/14/2017 17:23 | 6480.001 | 108 | 3.237 | 7.47 | 11.38 | 20.18 | 12.914 | 13.83 |
| 6/14/2017 17:24 | 6540.001 | 109 | 3.239 | 7.48 | 11.39 | 20.17 | 12.91 | 13.826 |
| 6/14/2017 17:25 | 6600.001 | 110 | 3.238 | 7.48 | 11.39 | 20.17 | 12.911 | 13.793 |

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| 6/14/2017 17:26 | 6660.001 | 111 | 3.237 | 7.47 | 11.38 | 20.18 | 12.913 | 13.809 |
| 6/14/2017 17:27 | 6720.001 | 112 | 3.238 | 7.48 | 11.39 | 20.17 | 12.911 | 13.802 |
| 6/14/2017 17:28 | 6780.001 | 113 | 3.237 | 7.47 | 11.38 | 20.18 | 12.913 | 13.824 |
| 6/14/2017 17:29 | 6840.001 | 114 | 3.238 | 7.48 | 11.39 | 20.17 | 12.911 | 13.817 |
| 6/14/2017 17:30 | 6900.001 | 115 | 3.239 | 7.48 | 11.39 | 20.17 | 12.909 | 13.814 |
| 6/14/2017 17:31 | 6960.001 | 116 | 3.24 | 7.48 | 11.39 | 20.17 | 12.906 | 13.819 |
| 6/14/2017 17:32 | 7020.001 | 117 | 3.24 | 7.48 | 11.39 | 20.17 | 12.908 | 13.816 |
| 6/14/2017 17:33 | 7080.001 | 118 | 3.242 | 7.49 | 11.40 | 20.16 | 12.903 | 13.835 |
| 6/14/2017 17:34 | 7140.001 | 119 | 3.24 | 7.48 | 11.39 | 20.17 | 12.907 | 13.812 |
| 6/14/2017 17:35 | 7200.001 | 120 | 3.243 | 7.49 | 11.40 | 20.16 | 12.899 | 13.827 |
| 6/14/2017 17:36 | 7260.001 | 121 | 3.242 | 7.49 | 11.40 | 20.16 | 12.903 | 13.831 |
| 6/14/2017 17:37 | 7320.001 | 122 | 3.243 | 7.49 | 11.40 | 20.16 | 12.899 | 13.815 |
| 6/14/2017 17:38 | 7380.001 | 123 | 3.243 | 7.49 | 11.40 | 20.16 | 12.901 | 13.813 |
| 6/14/2017 17:39 | 7440.001 | 124 | 3.246 | 7.49 | 11.41 | 20.15 | 12.893 | 13.836 |
| 6/14/2017 17:40 | 7500.001 | 125 | 3.243 | 7.49 | 11.40 | 20.16 | 12.899 | 13.794 |
| 6/14/2017 17:41 | 7560.001 | 126 | 3.243 | 7.49 | 11.40 | 20.16 | 12.901 | 13.824 |
| 6/14/2017 17:42 | 7620.001 | 127 | 3.245 | 7.49 | 11.40 | 20.16 | 12.896 | 13.821 |
| 6/14/2017 17:43 | 7680.001 | 128 | 3.242 | 7.49 | 11.40 | 20.16 | 12.902 | 13.83 |
| 6/14/2017 17:44 | 7740.001 | 129 | 3.246 | 7.49 | 11.41 | 20.15 | 12.894 | 13.82 |
| 6/14/2017 17:45 | 7800.001 | 130 | 3.246 | 7.49 | 11.41 | 20.15 | 12.893 | 13.828 |
| 6/14/2017 17:46 | 7860.001 | 131 | 3.246 | 7.49 | 11.41 | 20.15 | 12.894 | 13.817 |
| 6/14/2017 17:47 | 7920.001 | 132 | 3.247 | 7.50 | 11.41 | 20.15 | 12.891 | 13.82 |
| 6/14/2017 17:48 | 7980.001 | 133 | 3.249 | 7.50 | 11.41 | 20.15 | 12.887 | 13.82 |
| 6/14/2017 17:49 | 8040.001 | 134 | 3.247 | 7.50 | 11.41 | 20.15 | 12.891 | 13.804 |
| 6/14/2017 17:50 | 8100.001 | 135 | 3.246 | 7.49 | 11.41 | 20.15 | 12.894 | 13.804 |
| 6/14/2017 17:51 | 8160.001 | 136 | 3.248 | 7.50 | 11.41 | 20.15 | 12.889 | 13.842 |
| 6/14/2017 17:52 | 8220.001 | 137 | 3.248 | 7.50 | 11.41 | 20.15 | 12.888 | 13.823 |
| 6/14/2017 17:53 | 8280.001 | 138 | 3.247 | 7.50 | 11.41 | 20.15 | 12.891 | 13.801 |
| 6/14/2017 17:54 | 8340.001 | 139 | 3.249 | 7.50 | 11.41 | 20.15 | 12.887 | 13.825 |
| 6/14/2017 17:55 | 8400.001 | 140 | 3.249 | 7.50 | 11.41 | 20.15 | 12.885 | 13.79 |
| 6/14/2017 17:56 | 8460.001 | 141 | 3.247 | 7.50 | 11.41 | 20.15 | 12.892 | 13.802 |
| 6/14/2017 17:57 | 8520.001 | 142 | 3.251 | 7.51 | 11.42 | 20.14 | 12.881 | 13.824 |
| 6/14/2017 17:58 | 8580.001 | 143 | 3.25 | 7.50 | 11.41 | 20.15 | 12.884 | 13.815 |
| 6/14/2017 17:59 | 8640.001 | 144 | 3.251 | 7.51 | 11.42 | 20.14 | 12.883 | 13.827 |
| 6/14/2017 18:00 | 8700.001 | 145 | 3.25 | 7.50 | 11.41 | 20.15 | 12.884 | 13.821 |
| 6/14/2017 18:01 | 8760.001 | 146 | 3.249 | 7.50 | 11.41 | 20.15 | 12.886 | 13.804 |
| 6/14/2017 18:02 | 8820.001 | 147 | 3.251 | 7.51 | 11.42 | 20.14 | 12.883 | 13.825 |
| 6/14/2017 18:03 | 8880.001 | 148 | 3.25 | 7.50 | 11.41 | 20.15 | 12.884 | 13.811 |
| 6/14/2017 18:04 | 8940.001 | 149 | 3.251 | 7.51 | 11.42 | 20.14 | 12.881 | 13.83 |
| 6/14/2017 18:05 | 9000.001 | 150 | 3.254 | 7.51 | 11.42 | 20.14 | 12.874 | 13.826 |
| 6/14/2017 18:06 | 9060.001 | 151 | 3.254 | 7.51 | 11.42 | 20.14 | 12.875 | 13.817 |
| 6/14/2017 18:07 | 9120.001 | 152 | 3.251 | 7.51 | 11.42 | 20.14 | 12.882 | 13.812 |
| 6/14/2017 18:08 | 9180.001 | 153 | 3.252 | 7.51 | 11.42 | 20.14 | 12.88 | 13.834 |
| 6/14/2017 18:09 | 9240.001 | 154 | 3.253 | 7.51 | 11.42 | 20.14 | 12.878 | 13.832 |
| 6/14/2017 18:10 | 9300.001 | 155 | 3.252 | 7.51 | 11.42 | 20.14 | 12.879 | 13.818 |
| 6/14/2017 18:11 | 9360.001 | 156 | 3.253 | 7.51 | 11.42 | 20.14 | 12.877 | 13.839 |
| 6/14/2017 18:12 | 9420.001 | 157 | 3.254 | 7.51 | 11.42 | 20.14 | 12.876 | 13.804 |

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| 6/14/2017 18:13 | 9480.001 | 158 | 3.255 | 7.52 | 11.43 | 20.13 | 12.872 | 13.806 |
| 6/14/2017 18:14 | 9540.001 | 159 | 3.253 | 7.51 | 11.42 | 20.14 | 12.878 | 13.831 |
| 6/14/2017 18:15 | 9600.001 | 160 | 3.257 | 7.52 | 11.43 | 20.13 | 12.867 | 13.815 |
| 6/14/2017 18:16 | 9660.001 | 161 | 3.254 | 7.51 | 11.42 | 20.14 | 12.875 | 13.826 |
| 6/14/2017 18:17 | 9720.001 | 162 | 3.254 | 7.51 | 11.42 | 20.14 | 12.876 | 13.821 |
| 6/14/2017 18:18 | 9780.001 | 163 | 3.256 | 7.52 | 11.43 | 20.13 | 12.87 | 13.824 |
| 6/14/2017 18:19 | 9840.001 | 164 | 3.257 | 7.52 | 11.43 | 20.13 | 12.869 | 13.806 |
| 6/14/2017 18:20 | 9900.001 | 165 | 3.256 | 7.52 | 11.43 | 20.13 | 12.869 | 13.83 |
| 6/14/2017 18:21 | 9960.001 | 166 | 3.256 | 7.52 | 11.43 | 20.13 | 12.871 | 13.812 |
| 6/14/2017 18:22 | 10020.001 | 167 | 3.255 | 7.52 | 11.43 | 20.13 | 12.872 | 13.839 |
| 6/14/2017 18:23 | 10080.001 | 168 | 3.258 | 7.52 | 11.43 | 20.13 | 12.866 | 13.806 |
| 6/14/2017 18:24 | 10140.001 | 169 | 3.257 | 7.52 | 11.43 | 20.13 | 12.867 | 13.803 |
| 6/14/2017 18:25 | 10200.001 | 170 | 3.257 | 7.52 | 11.43 | 20.13 | 12.868 | 13.831 |
| 6/14/2017 18:26 | 10260.001 | 171 | 3.26 | 7.53 | 11.44 | 20.12 | 12.861 | 13.833 |
| 6/14/2017 18:27 | 10320.001 | 172 | 3.261 | 7.53 | 11.44 | 20.12 | 12.859 | 13.822 |
| 6/14/2017 18:28 | 10380.001 | 173 | 3.258 | 7.52 | 11.43 | 20.13 | 12.865 | 13.787 |
| 6/14/2017 18:29 | 10440.001 | 174 | 3.258 | 7.52 | 11.43 | 20.13 | 12.866 | 13.817 |
| 6/14/2017 18:30 | 10500.001 | 175 | 3.258 | 7.52 | 11.43 | 20.13 | 12.865 | 13.822 |
| 6/14/2017 18:31 | 10560.001 | 176 | 3.261 | 7.53 | 11.44 | 20.12 | 12.858 | 13.811 |
| 6/14/2017 18:32 | 10620.001 | 177 | 3.259 | 7.52 | 11.44 | 20.12 | 12.862 | 13.803 |
| 6/14/2017 18:33 | 10680.001 | 178 | 3.26 | 7.53 | 11.44 | 20.12 | 12.86 | 13.826 |
| 6/14/2017 18:34 | 10740.001 | 179 | 3.259 | 7.52 | 11.44 | 20.12 | 12.861 | 13.807 |
| 6/14/2017 18:35 | 10800.001 | 180 | 3.259 | 7.52 | 11.44 | 20.12 | 12.863 | 13.801 |
| 6/14/2017 18:36 | 10860.001 | 181 | 3.26 | 7.53 | 11.44 | 20.12 | 12.861 | 13.803 |
| 6/14/2017 18:37 | 10920.001 | 182 | 3.26 | 7.53 | 11.44 | 20.12 | 12.862 | 13.79 |
| 6/14/2017 18:38 | 10980.001 | 183 | 3.261 | 7.53 | 11.44 | 20.12 | 12.858 | 13.82 |
| 6/14/2017 18:39 | 11040.001 | 184 | 3.261 | 7.53 | 11.44 | 20.12 | 12.858 | 13.812 |
| 6/14/2017 18:40 | 11100.001 | 185 | 3.26 | 7.53 | 11.44 | 20.12 | 12.861 | 13.814 |
| 6/14/2017 18:41 | 11160.001 | 186 | 3.26 | 7.53 | 11.44 | 20.12 | 12.861 | 13.815 |
| 6/14/2017 18:42 | 11220.001 | 187 | 3.264 | 7.54 | 11.45 | 20.11 | 12.852 | 13.806 |
| 6/14/2017 18:43 | 11280.001 | 188 | 3.263 | 7.53 | 11.44 | 20.12 | 12.858 | 13.821 |
| 6/14/2017 18:44 | 11340.001 | 189 | 3.263 | 7.53 | 11.44 | 20.12 | 12.854 | 13.811 |
| 6/14/2017 18:45 | 11400.001 | 190 | 3.262 | 7.53 | 11.44 | 20.12 | 12.855 | 13.819 |
| 6/14/2017 18:46 | 11460.001 | 191 | 3.262 | 7.53 | 11.44 | 20.12 | 12.856 | 13.803 |
| 6/14/2017 18:47 | 11520.001 | 192 | 3.263 | 7.53 | 11.44 | 20.12 | 12.853 | 13.817 |
| 6/14/2017 18:48 | 11580.001 | 193 | 3.264 | 7.54 | 11.45 | 20.11 | 12.853 | 13.793 |
| 6/14/2017 18:49 | 11640.001 | 194 | 3.262 | 7.53 | 11.44 | 20.12 | 12.856 | 13.791 |
| 6/14/2017 18:50 | 11700.001 | 195 | 3.263 | 7.53 | 11.44 | 20.12 | 12.854 | 13.795 |
| 6/14/2017 18:51 | 11760.001 | 196 | 3.263 | 7.53 | 11.44 | 20.12 | 12.853 | 13.809 |
| 6/14/2017 18:52 | 11820.001 | 197 | 3.263 | 7.53 | 11.44 | 20.12 | 12.855 | 13.807 |
| 6/14/2017 18:53 | 11880.001 | 198 | 3.264 | 7.54 | 11.45 | 20.11 | 12.852 | 13.817 |
| 6/14/2017 18:54 | 11940.001 | 199 | 3.266 | 7.54 | 11.45 | 20.11 | 12.846 | 13.835 |
| 6/14/2017 18:55 | 12000.001 | 200 | 3.265 | 7.54 | 11.45 | 20.11 | 12.849 | 13.826 |
| 6/14/2017 18:56 | 12060.001 | 201 | 3.264 | 7.54 | 11.45 | 20.11 | 12.851 | 13.842 |
| 6/14/2017 18:57 | 12120.001 | 202 | 3.265 | 7.54 | 11.45 | 20.11 | 12.849 | 13.848 |
| 6/14/2017 18:58 | 12180.001 | 203 | 3.265 | 7.54 | 11.45 | 20.11 | 12.849 | 13.822 |
| 6/14/2017 18:59 | 12240.001 | 204 | 3.266 | 7.54 | 11.45 | 20.11 | 12.846 | 13.824 |

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| 6/14/2017 19:00 | 12300.001 | 205 | 3.263 | 7.53 | 11.44 | 20.12 | 12.853 | 13.812 |
| 6/14/2017 19:01 | 12360.001 | 206 | 3.266 | 7.54 | 11.45 | 20.11 | 12.847 | 13.812 |
| 6/14/2017 19:02 | 12420.001 | 207 | 3.265 | 7.54 | 11.45 | 20.11 | 12.848 | 13.818 |
| 6/14/2017 19:03 | 12480.001 | 208 | 3.265 | 7.54 | 11.45 | 20.11 | 12.85 | 13.804 |
| 6/14/2017 19:04 | 12540.001 | 209 | 3.267 | 7.54 | 11.45 | 20.11 | 12.844 | 13.809 |
| 6/14/2017 19:05 | 12600.001 | 210 | 3.267 | 7.54 | 11.45 | 20.11 | 12.845 | 13.805 |
| 6/14/2017 19:06 | 12660.001 | 211 | 3.267 | 7.54 | 11.45 | 20.11 | 12.845 | 13.815 |
| 6/14/2017 19:07 | 12720.001 | 212 | 3.267 | 7.54 | 11.45 | 20.11 | 12.845 | 13.809 |
| 6/14/2017 19:08 | 12780.001 | 213 | 3.267 | 7.54 | 11.45 | 20.11 | 12.844 | 13.787 |
| 6/14/2017 19:09 | 12840.001 | 214 | 3.269 | 7.55 | 11.46 | 20.10 | 12.841 | 13.817 |
| 6/14/2017 19:10 | 12900.001 | 215 | 3.269 | 7.55 | 11.46 | 20.10 | 12.84 | 13.836 |
| 6/14/2017 19:11 | 12960.001 | 216 | 3.267 | 7.54 | 11.45 | 20.11 | 12.845 | 13.808 |
| 6/14/2017 19:12 | 13020.001 | 217 | 3.269 | 7.55 | 11.46 | 20.10 | 12.84 | 13.807 |
| 6/14/2017 19:13 | 13080.001 | 218 | 3.271 | 7.55 | 11.46 | 20.10 | 12.836 | 13.809 |
| 6/14/2017 19:14 | 13140.001 | 219 | 3.269 | 7.55 | 11.46 | 20.10 | 12.841 | 13.819 |
| 6/14/2017 19:15 | 13200.001 | 220 | 3.271 | 7.55 | 11.46 | 20.10 | 12.836 | 13.804 |
| 6/14/2017 19:16 | 13260.001 | 221 | 3.27 | 7.55 | 11.46 | 20.10 | 12.837 | 13.814 |
| 6/14/2017 19:17 | 13320.001 | 222 | 3.27 | 7.55 | 11.46 | 20.10 | 12.838 | 13.812 |
| 6/14/2017 19:18 | 13380.001 | 223 | 3.272 | 7.55 | 11.47 | 20.09 | 12.833 | 13.815 |
| 6/14/2017 19:19 | 13440.001 | 224 | 3.272 | 7.55 | 11.47 | 20.09 | 12.833 | 13.828 |
| 6/14/2017 19:20 | 13500.001 | 225 | 3.269 | 7.55 | 11.46 | 20.10 | 12.84 | 13.808 |
| 6/14/2017 19:21 | 13560.001 | 226 | 3.27 | 7.55 | 11.46 | 20.10 | 12.838 | 13.828 |
| 6/14/2017 19:22 | 13620.001 | 227 | 3.271 | 7.55 | 11.46 | 20.10 | 12.834 | 13.821 |
| 6/14/2017 19:23 | 13680.001 | 228 | 3.269 | 7.55 | 11.46 | 20.10 | 12.839 | 13.809 |
| 6/14/2017 19:24 | 13740.001 | 229 | 3.272 | 7.55 | 11.47 | 20.09 | 12.833 | 13.809 |
| 6/14/2017 19:25 | 13800.001 | 230 | 3.272 | 7.55 | 11.47 | 20.09 | 12.833 | 13.815 |
| 6/14/2017 19:26 | 13860.001 | 231 | 3.27 | 7.55 | 11.46 | 20.10 | 12.838 | 13.818 |
| 6/14/2017 19:27 | 13920.001 | 232 | 3.272 | 7.55 | 11.47 | 20.09 | 12.833 | 13.816 |
| 6/14/2017 19:28 | 13980.001 | 233 | 3.27 | 7.55 | 11.46 | 20.10 | 12.838 | 13.796 |
| 6/14/2017 19:29 | 14040.001 | 234 | 3.274 | 7.56 | 11.47 | 20.09 | 12.828 | 13.804 |
| 6/14/2017 19:30 | 14100.001 | 235 | 3.273 | 7.56 | 11.47 | 20.09 | 12.831 | 13.809 |
| 6/14/2017 19:31 | 14160.001 | 236 | 3.272 | 7.55 | 11.47 | 20.09 | 12.832 | 13.793 |
| 6/14/2017 19:32 | 14220.001 | 237 | 3.273 | 7.56 | 11.47 | 20.09 | 12.831 | 13.804 |
| 6/14/2017 19:33 | 14280.001 | 238 | 3.273 | 7.56 | 11.47 | 20.09 | 12.83 | 13.809 |
| 6/14/2017 19:34 | 14340.001 | 239 | 3.271 | 7.55 | 11.46 | 20.10 | 12.835 | 13.798 |
| 6/14/2017 19:35 | 14400.001 | 240 | 3.275 | 7.56 | 11.47 | 20.09 | 12.826 | 13.826 |
| 6/14/2017 19:36 | 14460.001 | 241 | 3.274 | 7.56 | 11.47 | 20.09 | 12.828 | 13.809 |
| 6/14/2017 19:37 | 14520.001 | 242 | 3.274 | 7.56 | 11.47 | 20.09 | 12.828 | 13.793 |
| 6/14/2017 19:38 | 14580.001 | 243 | 3.275 | 7.56 | 11.47 | 20.09 | 12.825 | 13.823 |
| 6/14/2017 19:39 | 14640.001 | 244 | 3.273 | 7.56 | 11.47 | 20.09 | 12.83 | 13.827 |
| 6/14/2017 19:40 | 14700.001 | 245 | 3.276 | 7.56 | 11.47 | 20.09 | 12.824 | 13.79 |
| 6/14/2017 19:41 | 14760.001 | 246 | 3.276 | 7.56 | 11.47 | 20.09 | 12.823 | 13.806 |
| 6/14/2017 19:42 | 14820.001 | 247 | 3.274 | 7.56 | 11.47 | 20.09 | 12.828 | 13.819 |
| 6/14/2017 19:43 | 14880.001 | 248 | 3.276 | 7.56 | 11.47 | 20.09 | 12.825 | 13.799 |
| 6/14/2017 19:44 | 14940.001 | 249 | 3.276 | 7.56 | 11.47 | 20.09 | 12.823 | 13.834 |
| 6/14/2017 19:45 | 15000.001 | 250 | 3.274 | 7.56 | 11.47 | 20.09 | 12.829 | 13.801 |
| 6/14/2017 19:46 | 15060.001 | 251 | 3.276 | 7.56 | 11.47 | 20.09 | 12.823 | 13.813 |

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| 6/14/2017 19:47 | 15120.001 | 252 | 3.278 | 7.57 | 11.48 | 20.08 | 12.82 | 13.818 |
| 6/14/2017 19:48 | 15180.001 | 253 | 3.276 | 7.56 | 11.47 | 20.09 | 12.823 | 13.817 |
| 6/14/2017 19:49 | 15240.001 | 254 | 3.276 | 7.56 | 11.47 | 20.09 | 12.824 | 13.809 |
| 6/14/2017 19:50 | 15300.001 | 255 | 3.278 | 7.57 | 11.48 | 20.08 | 12.82 | 13.81 |
| 6/14/2017 19:51 | 15360.001 | 256 | 3.278 | 7.57 | 11.48 | 20.08 | 12.819 | 13.804 |
| 6/14/2017 19:52 | 15420.001 | 257 | 3.278 | 7.57 | 11.48 | 20.08 | 12.819 | 13.801 |
| 6/14/2017 19:53 | 15480.001 | 258 | 3.277 | 7.57 | 11.48 | 20.08 | 12.821 | 13.793 |
| 6/14/2017 19:54 | 15540.001 | 259 | 3.279 | 7.57 | 11.48 | 20.08 | 12.818 | 13.793 |
| 6/14/2017 19:55 | 15600.001 | 260 | 3.277 | 7.57 | 11.48 | 20.08 | 12.821 | 13.784 |
| 6/14/2017 19:56 | 15660.001 | 261 | 3.279 | 7.57 | 11.48 | 20.08 | 12.818 | 13.798 |
| 6/14/2017 19:57 | 15720.001 | 262 | 3.277 | 7.57 | 11.48 | 20.08 | 12.822 | 13.838 |
| 6/14/2017 19:58 | 15780.001 | 263 | 3.278 | 7.57 | 11.48 | 20.08 | 12.82 | 13.801 |
| 6/14/2017 19:59 | 15840.001 | 264 | 3.28 | 7.57 | 11.48 | 20.08 | 12.815 | 13.804 |
| 6/14/2017 20:00 | 15900.001 | 265 | 3.281 | 7.58 | 11.49 | 20.07 | 12.813 | 13.823 |
| 6/14/2017 20:01 | 15960.001 | 266 | 3.279 | 7.57 | 11.48 | 20.08 | 12.817 | 13.799 |
| 6/14/2017 20:02 | 16020.001 | 267 | 3.279 | 7.57 | 11.48 | 20.08 | 12.817 | 13.806 |
| 6/14/2017 20:03 | 16080.001 | 268 | 3.281 | 7.58 | 11.49 | 20.07 | 12.811 | 13.789 |
| 6/14/2017 20:04 | 16140.001 | 269 | 3.282 | 7.58 | 11.49 | 20.07 | 12.81 | 13.807 |
| 6/14/2017 20:05 | 16200.001 | 270 | 3.279 | 7.57 | 11.48 | 20.08 | 12.818 | 13.821 |
| 6/14/2017 20:06 | 16260.001 | 271 | 3.279 | 7.57 | 11.48 | 20.08 | 12.816 | 13.801 |
| 6/14/2017 20:07 | 16320.001 | 272 | 3.28 | 7.57 | 11.48 | 20.08 | 12.814 | 13.805 |
| 6/14/2017 20:08 | 16380.001 | 273 | 3.278 | 7.57 | 11.48 | 20.08 | 12.82 | 13.812 |
| 6/14/2017 20:09 | 16440.001 | 274 | 3.28 | 7.57 | 11.48 | 20.08 | 12.815 | 13.806 |
| 6/14/2017 20:10 | 16500.001 | 275 | 3.281 | 7.58 | 11.49 | 20.07 | 12.812 | 13.812 |
| 6/14/2017 20:11 | 16560.001 | 276 | 3.28 | 7.57 | 11.48 | 20.08 | 12.815 | 13.819 |
| 6/14/2017 20:12 | 16620.001 | 277 | 3.281 | 7.58 | 11.49 | 20.07 | 12.812 | 13.789 |
| 6/14/2017 20:13 | 16680.001 | 278 | 3.28 | 7.57 | 11.48 | 20.08 | 12.815 | 13.806 |
| 6/14/2017 20:14 | 16740.001 | 279 | 3.283 | 7.58 | 11.49 | 20.07 | 12.808 | 13.817 |
| 6/14/2017 20:15 | 16800.001 | 280 | 3.283 | 7.58 | 11.49 | 20.07 | 12.808 | 13.821 |
| 6/14/2017 20:16 | 16860.001 | 281 | 3.282 | 7.58 | 11.49 | 20.07 | 12.811 | 13.812 |
| 6/14/2017 20:17 | 16920.001 | 282 | 3.283 | 7.58 | 11.49 | 20.07 | 12.809 | 13.789 |
| 6/14/2017 20:18 | 16980.001 | 283 | 3.281 | 7.58 | 11.49 | 20.07 | 12.811 | 13.792 |
| 6/14/2017 20:19 | 17040.001 | 284 | 3.284 | 7.58 | 11.49 | 20.07 | 12.806 | 13.794 |
| 6/14/2017 20:20 | 17100.001 | 285 | 3.283 | 7.58 | 11.49 | 20.07 | 12.808 | 13.805 |
| 6/14/2017 20:21 | 17160.001 | 286 | 3.283 | 7.58 | 11.49 | 20.07 | 12.807 | 13.811 |
| 6/14/2017 20:22 | 17220.001 | 287 | 3.282 | 7.58 | 11.49 | 20.07 | 12.809 | 13.805 |
| 6/14/2017 20:23 | 17280.001 | 288 | 3.283 | 7.58 | 11.49 | 20.07 | 12.809 | 13.811 |
| 6/14/2017 20:24 | 17340.001 | 289 | 3.283 | 7.58 | 11.49 | 20.07 | 12.808 | 13.794 |
| 6/14/2017 20:25 | 17400.001 | 290 | 3.283 | 7.58 | 11.49 | 20.07 | 12.807 | 13.812 |
| 6/14/2017 20:26 | 17460.001 | 291 | 3.282 | 7.58 | 11.49 | 20.07 | 12.809 | 13.816 |
| 6/14/2017 20:27 | 17520.001 | 292 | 3.283 | 7.58 | 11.49 | 20.07 | 12.807 | 13.829 |
| 6/14/2017 20:28 | 17580.001 | 293 | 3.284 | 7.58 | 11.49 | 20.07 | 12.805 | 13.808 |
| 6/14/2017 20:29 | 17640.001 | 294 | 3.284 | 7.58 | 11.49 | 20.07 | 12.806 | 13.795 |
| 6/14/2017 20:30 | 17700.001 | 295 | 3.285 | 7.58 | 11.50 | 20.06 | 12.802 | 13.794 |
| 6/14/2017 20:31 | 17760.001 | 296 | 3.285 | 7.58 | 11.50 | 20.06 | 12.804 | 13.801 |
| 6/14/2017 20:32 | 17820.001 | 297 | 3.284 | 7.58 | 11.49 | 20.07 | 12.806 | 13.791 |
| 6/14/2017 20:33 | 17880.001 | 298 | 3.284 | 7.58 | 11.49 | 20.07 | 12.805 | 13.804 |

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| 6/14/2017 20:34 | 17940.001 | 299 | 3.284 | 7.58 | 11.49 | 20.07 | 12.804 | 13.793 |
| 6/14/2017 20:35 | 18000.001 | 300 | 3.284 | 7.58 | 11.49 | 20.07 | 12.805 | 13.794 |
| 6/14/2017 20:36 | 18060.001 | 301 | 3.287 | 7.59 | 11.50 | 20.06 | 12.798 | 13.834 |
| 6/14/2017 20:37 | 18120.001 | 302 | 3.285 | 7.58 | 11.50 | 20.06 | 12.802 | 13.793 |
| 6/14/2017 20:38 | 18180.001 | 303 | 3.285 | 7.58 | 11.50 | 20.06 | 12.802 | 13.804 |
| 6/14/2017 20:39 | 18240.001 | 304 | 3.285 | 7.58 | 11.50 | 20.06 | 12.803 | 13.811 |
| 6/14/2017 20:40 | 18300.001 | 305 | 3.285 | 7.58 | 11.50 | 20.06 | 12.802 | 13.804 |
| 6/14/2017 20:41 | 18360.001 | 306 | 3.285 | 7.58 | 11.50 | 20.06 | 12.802 | 13.793 |
| 6/14/2017 20:42 | 18420.001 | 307 | 3.292 | 7.60 | 11.51 | 20.05 | 12.788 | 13.815 |
| 6/14/2017 20:43 | 18480.001 | 308 | 3.297 | 7.61 | 11.52 | 20.04 | 12.775 | 13.802 |
| 6/14/2017 20:44 | 18540.001 | 309 | 3.303 | 7.63 | 11.54 | 20.02 | 12.761 | 13.784 |
| 6/14/2017 20:45 | 18600.001 | 310 | 3.307 | 7.64 | 11.55 | 20.01 | 12.752 | 13.827 |
| 6/14/2017 20:46 | 18660.001 | 311 | 3.31 | 7.64 | 11.55 | 20.01 | 12.745 | 13.809 |
| 6/14/2017 20:47 | 18720.001 | 312 | 3.311 | 7.64 | 11.56 | 20.00 | 12.743 | 13.787 |
| 6/14/2017 20:48 | 18780.001 | 313 | 3.315 | 7.65 | 11.57 | 19.99 | 12.733 | 13.816 |
| 6/14/2017 20:49 | 18840.001 | 314 | 3.318 | 7.66 | 11.57 | 19.99 | 12.726 | 13.813 |
| 6/14/2017 20:50 | 18900.001 | 315 | 3.319 | 7.66 | 11.57 | 19.99 | 12.725 | 13.802 |
| 6/14/2017 20:51 | 18960.001 | 316 | 3.321 | 7.67 | 11.58 | 19.98 | 12.72 | 13.82 |
| 6/14/2017 20:52 | 19020.001 | 317 | 3.321 | 7.67 | 11.58 | 19.98 | 12.72 | 13.816 |
| 6/14/2017 20:53 | 19080.001 | 318 | 3.323 | 7.67 | 11.58 | 19.98 | 12.715 | 13.798 |
| 6/14/2017 20:54 | 19140.001 | 319 | 3.325 | 7.68 | 11.59 | 19.97 | 12.71 | 13.798 |
| 6/14/2017 20:55 | 19200.001 | 320 | 3.325 | 7.68 | 11.59 | 19.97 | 12.712 | 13.806 |
| 6/14/2017 20:56 | 19260.001 | 321 | 3.325 | 7.68 | 11.59 | 19.97 | 12.71 | 13.792 |
| 6/14/2017 20:57 | 19320.001 | 322 | 3.326 | 7.68 | 11.59 | 19.97 | 12.709 | 13.807 |
| 6/14/2017 20:58 | 19380.001 | 323 | 3.326 | 7.68 | 11.59 | 19.97 | 12.707 | 13.828 |
| 6/14/2017 20:59 | 19440.001 | 324 | 3.327 | 7.68 | 11.59 | 19.97 | 12.707 | 13.796 |
| 6/14/2017 21:00 | 19500.001 | 325 | 3.325 | 7.68 | 11.59 | 19.97 | 12.71 | 13.817 |
| 6/14/2017 21:01 | 19560.001 | 326 | 3.329 | 7.69 | 11.60 | 19.96 | 12.702 | 13.827 |
| 6/14/2017 21:02 | 19620.001 | 327 | 3.327 | 7.68 | 11.59 | 19.97 | 12.706 | 13.829 |
| 6/14/2017 21:03 | 19680.001 | 328 | 3.325 | 7.68 | 11.59 | 19.97 | 12.71 | 13.8 |
| 6/14/2017 21:04 | 19740.001 | 329 | 3.324 | 7.67 | 11.59 | 19.97 | 12.713 | 13.804 |
| 6/14/2017 21:05 | 19800.001 | 330 | 3.326 | 7.68 | 11.59 | 19.97 | 12.708 | 13.821 |
| 6/14/2017 21:06 | 19860.001 | 331 | 3.326 | 7.68 | 11.59 | 19.97 | 12.708 | 13.827 |
| 6/14/2017 21:07 | 19920.001 | 332 | 3.326 | 7.68 | 11.59 | 19.97 | 12.709 | 13.782 |
| 6/14/2017 21:08 | 19980.001 | 333 | 3.322 | 7.67 | 11.58 | 19.98 | 12.717 | 13.801 |
| 6/14/2017 21:09 | 20040.001 | 334 | 3.319 | 7.66 | 11.57 | 19.99 | 12.724 | 13.809 |
| 6/14/2017 21:10 | 20100.001 | 335 | 3.317 | 7.66 | 11.57 | 19.99 | 12.73 | 13.797 |
| 6/14/2017 21:11 | 20160.001 | 336 | 3.314 | 7.65 | 11.56 | 20.00 | 12.736 | 13.804 |
| 6/14/2017 21:12 | 20220.001 | 337 | 3.312 | 7.65 | 11.56 | 20.00 | 12.74 | 13.822 |
| 6/14/2017 21:13 | 20280.001 | 338 | 3.309 | 7.64 | 11.55 | 20.01 | 12.749 | 13.809 |
| 6/14/2017 21:14 | 20340.001 | 339 | 3.306 | 7.63 | 11.54 | 20.02 | 12.754 | 13.801 |
| 6/14/2017 21:15 | 20400.001 | 340 | 3.304 | 7.63 | 11.54 | 20.02 | 12.759 | 13.798 |
| 6/14/2017 21:16 | 20460.001 | 341 | 3.304 | 7.63 | 11.54 | 20.02 | 12.76 | 13.795 |
| 6/14/2017 21:17 | 20520.001 | 342 | 3.302 | 7.62 | 11.53 | 20.03 | 12.763 | 13.801 |
| 6/14/2017 21:18 | 20580.001 | 343 | 3.302 | 7.62 | 11.53 | 20.03 | 12.763 | 13.807 |
| 6/14/2017 21:19 | 20640.001 | 344 | 3.298 | 7.61 | 11.53 | 20.03 | 12.773 | 13.807 |
| 6/14/2017 21:20 | 20700.001 | 345 | 3.299 | 7.62 | 11.53 | 20.03 | 12.771 | 13.818 |

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| 6/14/2017 21:21 | 20760.001 | 346 | 3.299 | 7.62 | 11.53 | 20.03 | 12.772 | 13.776 |
| 6/14/2017 21:22 | 20820.001 | 347 | 3.298 | 7.61 | 11.53 | 20.03 | 12.773 | 13.789 |
| 6/14/2017 21:23 | 20880.001 | 348 | 3.3 | 7.62 | 11.53 | 20.03 | 12.768 | 13.799 |
| 6/14/2017 21:24 | 20940.001 | 349 | 3.297 | 7.61 | 11.52 | 20.04 | 12.775 | 13.804 |
| 6/14/2017 21:25 | 21000.001 | 350 | 3.295 | 7.61 | 11.52 | 20.04 | 12.78 | 13.804 |
| 6/14/2017 21:26 | 21060.001 | 351 | 3.295 | 7.61 | 11.52 | 20.04 | 12.779 | 13.793 |
| 6/14/2017 21:27 | 21120.001 | 352 | 3.296 | 7.61 | 11.52 | 20.04 | 12.778 | 13.805 |
| 6/14/2017 21:28 | 21180.001 | 353 | 3.296 | 7.61 | 11.52 | 20.04 | 12.778 | 13.79 |
| 6/14/2017 21:29 | 21240.001 | 354 | 3.296 | 7.61 | 11.52 | 20.04 | 12.777 | 13.786 |
| 6/14/2017 21:30 | 21300.001 | 355 | 3.295 | 7.61 | 11.52 | 20.04 | 12.78 | 13.801 |
| 6/14/2017 21:31 | 21360.001 | 356 | 3.294 | 7.61 | 11.52 | 20.04 | 12.782 | 13.815 |
| 6/14/2017 21:32 | 21420.001 | 357 | 3.296 | 7.61 | 11.52 | 20.04 | 12.778 | 13.806 |
| 6/14/2017 21:33 | 21480.001 | 358 | 3.296 | 7.61 | 11.52 | 20.04 | 12.777 | 13.816 |
| 6/14/2017 21:34 | 21540.001 | 359 | 3.294 | 7.61 | 11.52 | 20.04 | 12.782 | 13.809 |
| 6/14/2017 21:35 | 21600.001 | 360 | 3.293 | 7.60 | 11.51 | 20.05 | 12.784 | 13.795 |
| 6/14/2017 21:36 | 21660.001 | 361 | 3.296 | 7.61 | 11.52 | 20.04 | 12.777 | 13.8 |
| 6/14/2017 21:37 | 21720.001 | 362 | 3.296 | 7.61 | 11.52 | 20.04 | 12.778 | 13.803 |
| 6/14/2017 21:38 | 21780.001 | 363 | 3.292 | 7.60 | 11.51 | 20.05 | 12.786 | 13.805 |
| 6/14/2017 21:39 | 21840.001 | 364 | 3.294 | 7.61 | 11.52 | 20.04 | 12.783 | 13.805 |
| 6/14/2017 21:40 | 21900.001 | 365 | 3.294 | 7.61 | 11.52 | 20.04 | 12.783 | 13.802 |
| 6/14/2017 21:41 | 21960.001 | 366 | 3.294 | 7.61 | 11.52 | 20.04 | 12.781 | 13.815 |
| 6/14/2017 21:42 | 22020.001 | 367 | 3.292 | 7.60 | 11.51 | 20.05 | 12.788 | 13.801 |
| 6/14/2017 21:43 | 22080.001 | 368 | 3.293 | 7.60 | 11.51 | 20.05 | 12.784 | 13.801 |
| 6/14/2017 21:44 | 22140.001 | 369 | 3.296 | 7.61 | 11.52 | 20.04 | 12.779 | 13.812 |
| 6/14/2017 21:45 | 22200.001 | 370 | 3.293 | 7.60 | 11.51 | 20.05 | 12.785 | 13.793 |
| 6/14/2017 21:46 | 22260.001 | 371 | 3.295 | 7.61 | 11.52 | 20.04 | 12.779 | 13.816 |
| 6/14/2017 21:47 | 22320.001 | 372 | 3.294 | 7.61 | 11.52 | 20.04 | 12.783 | 13.827 |
| 6/14/2017 21:48 | 22380.001 | 373 | 3.294 | 7.61 | 11.52 | 20.04 | 12.783 | 13.821 |
| 6/14/2017 21:49 | 22440.001 | 374 | 3.296 | 7.61 | 11.52 | 20.04 | 12.777 | 13.809 |
| 6/14/2017 21:50 | 22500.001 | 375 | 3.297 | 7.61 | 11.52 | 20.04 | 12.776 | 13.798 |
| 6/14/2017 21:51 | 22560.001 | 376 | 3.293 | 7.60 | 11.51 | 20.05 | 12.784 | 13.829 |
| 6/14/2017 21:52 | 22620.001 | 377 | 3.297 | 7.61 | 11.52 | 20.04 | 12.776 | 13.793 |
| 6/14/2017 21:53 | 22680.001 | 378 | 3.295 | 7.61 | 11.52 | 20.04 | 12.779 | 13.798 |
| 6/14/2017 21:54 | 22740.001 | 379 | 3.295 | 7.61 | 11.52 | 20.04 | 12.78 | 13.801 |
| 6/14/2017 21:55 | 22800.001 | 380 | 3.296 | 7.61 | 11.52 | 20.04 | 12.778 | 13.815 |
| 6/14/2017 21:56 | 22860.001 | 381 | 3.296 | 7.61 | 11.52 | 20.04 | 12.777 | 13.816 |
| 6/14/2017 21:57 | 22920.001 | 382 | 3.293 | 7.60 | 11.51 | 20.05 | 12.784 | 13.816 |
| 6/14/2017 21:58 | 22980.001 | 383 | 3.297 | 7.61 | 11.52 | 20.04 | 12.776 | 13.793 |
| 6/14/2017 21:59 | 23040.001 | 384 | 3.297 | 7.61 | 11.52 | 20.04 | 12.776 | 13.823 |
| 6/14/2017 22:00 | 23100.001 | 385 | 3.296 | 7.61 | 11.52 | 20.04 | 12.777 | 13.812 |
| 6/14/2017 22:01 | 23160.001 | 386 | 3.295 | 7.61 | 11.52 | 20.04 | 12.779 | 13.817 |
| 6/14/2017 22:02 | 23220.001 | 387 | 3.294 | 7.61 | 11.52 | 20.04 | 12.783 | 13.804 |
| 6/14/2017 22:03 | 23280.001 | 388 | 3.294 | 7.61 | 11.52 | 20.04 | 12.783 | 13.788 |
| 6/14/2017 22:04 | 23340.001 | 389 | 3.297 | 7.61 | 11.52 | 20.04 | 12.776 | 13.808 |
| 6/14/2017 22:05 | 23400.001 | 390 | 3.296 | 7.61 | 11.52 | 20.04 | 12.777 | 13.812 |
| 6/14/2017 22:06 | 23460.001 | 391 | 3.297 | 7.61 | 11.52 | 20.04 | 12.775 | 13.815 |
| 6/14/2017 22:07 | 23520.001 | 392 | 3.298 | 7.61 | 11.53 | 20.03 | 12.774 | 13.798 |

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|-----------------|-----------|-----|-------|------|-------|-------|--------|--------|
| 6/14/2017 22:08 | 23580.001 | 393 | 3.296 | 7.61 | 11.52 | 20.04 | 12.778 | 13.817 |
| 6/14/2017 22:09 | 23640.001 | 394 | 3.296 | 7.61 | 11.52 | 20.04 | 12.778 | 13.775 |
| 6/14/2017 22:10 | 23700.001 | 395 | 3.296 | 7.61 | 11.52 | 20.04 | 12.777 | 13.809 |
| 6/14/2017 22:11 | 23760.001 | 396 | 3.295 | 7.61 | 11.52 | 20.04 | 12.779 | 13.809 |
| 6/14/2017 22:12 | 23820.001 | 397 | 3.297 | 7.61 | 11.52 | 20.04 | 12.775 | 13.812 |
| 6/14/2017 22:13 | 23880.001 | 398 | 3.295 | 7.61 | 11.52 | 20.04 | 12.779 | 13.811 |
| 6/14/2017 22:14 | 23940.001 | 399 | 3.295 | 7.61 | 11.52 | 20.04 | 12.779 | 13.808 |
| 6/14/2017 22:15 | 24000.001 | 400 | 3.298 | 7.61 | 11.53 | 20.03 | 12.774 | 13.811 |
| 6/14/2017 22:16 | 24060.001 | 401 | 3.299 | 7.62 | 11.53 | 20.03 | 12.771 | 13.814 |
| 6/14/2017 22:17 | 24120.001 | 402 | 3.296 | 7.61 | 11.52 | 20.04 | 12.778 | 13.8 |
| 6/14/2017 22:18 | 24180.001 | 403 | 3.298 | 7.61 | 11.53 | 20.03 | 12.774 | 13.804 |
| 6/14/2017 22:19 | 24240.001 | 404 | 3.296 | 7.61 | 11.52 | 20.04 | 12.778 | 13.804 |
| 6/14/2017 22:20 | 24300.001 | 405 | 3.297 | 7.61 | 11.52 | 20.04 | 12.776 | 13.82 |
| 6/14/2017 22:21 | 24360.001 | 406 | 3.297 | 7.61 | 11.52 | 20.04 | 12.775 | 13.809 |
| 6/14/2017 22:22 | 24420.001 | 407 | 3.295 | 7.61 | 11.52 | 20.04 | 12.78 | 13.8 |
| 6/14/2017 22:23 | 24480.001 | 408 | 3.296 | 7.61 | 11.52 | 20.04 | 12.777 | 13.819 |
| 6/14/2017 22:24 | 24540.001 | 409 | 3.296 | 7.61 | 11.52 | 20.04 | 12.778 | 13.795 |
| 6/14/2017 22:25 | 24600.001 | 410 | 3.296 | 7.61 | 11.52 | 20.04 | 12.778 | 13.78 |
| 6/14/2017 22:26 | 24660.001 | 411 | 3.297 | 7.61 | 11.52 | 20.04 | 12.776 | 13.806 |
| 6/14/2017 22:27 | 24720.001 | 412 | 3.297 | 7.61 | 11.52 | 20.04 | 12.775 | 13.817 |
| 6/14/2017 22:28 | 24780.001 | 413 | 3.298 | 7.61 | 11.53 | 20.03 | 12.772 | 13.817 |
| 6/14/2017 22:29 | 24840.001 | 414 | 3.3 | 7.62 | 11.53 | 20.03 | 12.768 | 13.825 |
| 6/14/2017 22:30 | 24900.001 | 415 | 3.298 | 7.61 | 11.53 | 20.03 | 12.772 | 13.831 |
| 6/14/2017 22:31 | 24960.001 | 416 | 3.299 | 7.62 | 11.53 | 20.03 | 12.771 | 13.808 |
| 6/14/2017 22:32 | 25020.001 | 417 | 3.299 | 7.62 | 11.53 | 20.03 | 12.771 | 13.815 |
| 6/14/2017 22:33 | 25080.001 | 418 | 3.296 | 7.61 | 11.52 | 20.04 | 12.778 | 13.8 |
| 6/14/2017 22:34 | 25140.001 | 419 | 3.298 | 7.61 | 11.53 | 20.03 | 12.772 | 13.832 |
| 6/14/2017 22:35 | 25200.001 | 420 | 3.298 | 7.61 | 11.53 | 20.03 | 12.774 | 13.799 |
| 6/14/2017 22:36 | 25260.001 | 421 | 3.296 | 7.61 | 11.52 | 20.04 | 12.777 | 13.823 |
| 6/14/2017 22:37 | 25320.001 | 422 | 3.298 | 7.61 | 11.53 | 20.03 | 12.774 | 13.815 |
| 6/14/2017 22:38 | 25380.001 | 423 | 3.298 | 7.61 | 11.53 | 20.03 | 12.774 | 13.817 |
| 6/14/2017 22:39 | 25440.001 | 424 | 3.299 | 7.62 | 11.53 | 20.03 | 12.772 | 13.819 |
| 6/14/2017 22:40 | 25500.001 | 425 | 3.298 | 7.61 | 11.53 | 20.03 | 12.774 | 13.807 |
| 6/14/2017 22:41 | 25560.001 | 426 | 3.297 | 7.61 | 11.52 | 20.04 | 12.775 | 13.808 |
| 6/14/2017 22:42 | 25620.001 | 427 | 3.297 | 7.61 | 11.52 | 20.04 | 12.775 | 13.791 |
| 6/14/2017 22:43 | 25680.001 | 428 | 3.298 | 7.61 | 11.53 | 20.03 | 12.772 | 13.795 |
| 6/14/2017 22:44 | 25740.001 | 429 | 3.299 | 7.62 | 11.53 | 20.03 | 12.772 | 13.774 |
| 6/14/2017 22:45 | 25800.001 | 430 | 3.3 | 7.62 | 11.53 | 20.03 | 12.769 | 13.824 |
| 6/14/2017 22:46 | 25860.001 | 431 | 3.3 | 7.62 | 11.53 | 20.03 | 12.77 | 13.81 |
| 6/14/2017 22:47 | 25920.001 | 432 | 3.298 | 7.61 | 11.53 | 20.03 | 12.773 | 13.791 |
| 6/14/2017 22:48 | 25980.001 | 433 | 3.3 | 7.62 | 11.53 | 20.03 | 12.768 | 13.817 |
| 6/14/2017 22:49 | 26040.001 | 434 | 3.3 | 7.62 | 11.53 | 20.03 | 12.768 | 13.817 |
| 6/14/2017 22:50 | 26100.001 | 435 | 3.298 | 7.61 | 11.53 | 20.03 | 12.773 | 13.813 |
| 6/14/2017 22:51 | 26160.001 | 436 | 3.3 | 7.62 | 11.53 | 20.03 | 12.768 | 13.807 |
| 6/14/2017 22:52 | 26220.001 | 437 | 3.302 | 7.62 | 11.53 | 20.03 | 12.764 | 13.817 |
| 6/14/2017 22:53 | 26280.001 | 438 | 3.301 | 7.62 | 11.53 | 20.03 | 12.766 | 13.798 |
| 6/14/2017 22:54 | 26340.001 | 439 | 3.299 | 7.62 | 11.53 | 20.03 | 12.77 | 13.811 |

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| 6/14/2017 22:55 | 26400.001 | 440 | 3.301 | 7.62 | 11.53 | 20.03 | 12.765 | 13.799 |
| 6/14/2017 22:56 | 26460.001 | 441 | 3.301 | 7.62 | 11.53 | 20.03 | 12.766 | 13.815 |
| 6/14/2017 22:57 | 26520.001 | 442 | 3.299 | 7.62 | 11.53 | 20.03 | 12.772 | 13.821 |
| 6/14/2017 22:58 | 26580.001 | 443 | 3.3 | 7.62 | 11.53 | 20.03 | 12.768 | 13.786 |
| 6/14/2017 22:59 | 26640.001 | 444 | 3.304 | 7.63 | 11.54 | 20.02 | 12.759 | 13.795 |
| 6/14/2017 23:00 | 26700.001 | 445 | 3.301 | 7.62 | 11.53 | 20.03 | 12.766 | 13.821 |
| 6/14/2017 23:01 | 26760.001 | 446 | 3.301 | 7.62 | 11.53 | 20.03 | 12.766 | 13.802 |
| 6/14/2017 23:02 | 26820.001 | 447 | 3.301 | 7.62 | 11.53 | 20.03 | 12.766 | 13.817 |
| 6/14/2017 23:03 | 26880.001 | 448 | 3.303 | 7.63 | 11.54 | 20.02 | 12.762 | 13.816 |
| 6/14/2017 23:04 | 26940.001 | 449 | 3.302 | 7.62 | 11.53 | 20.03 | 12.764 | 13.789 |
| 6/14/2017 23:05 | 27000.001 | 450 | 3.304 | 7.63 | 11.54 | 20.02 | 12.76 | 13.795 |
| 6/14/2017 23:06 | 27060.001 | 451 | 3.305 | 7.63 | 11.54 | 20.02 | 12.756 | 13.834 |
| 6/14/2017 23:07 | 27120.001 | 452 | 3.303 | 7.63 | 11.54 | 20.02 | 12.762 | 13.809 |
| 6/14/2017 23:08 | 27180.001 | 453 | 3.302 | 7.62 | 11.53 | 20.03 | 12.765 | 13.84 |
| 6/14/2017 23:09 | 27240.001 | 454 | 3.302 | 7.62 | 11.53 | 20.03 | 12.764 | 13.81 |
| 6/14/2017 23:10 | 27300.001 | 455 | 3.303 | 7.63 | 11.54 | 20.02 | 12.763 | 13.812 |
| 6/14/2017 23:11 | 27360.001 | 456 | 3.301 | 7.62 | 11.53 | 20.03 | 12.767 | 13.808 |
| 6/14/2017 23:12 | 27420.001 | 457 | 3.304 | 7.63 | 11.54 | 20.02 | 12.759 | 13.828 |
| 6/14/2017 23:13 | 27480.001 | 458 | 3.305 | 7.63 | 11.54 | 20.02 | 12.757 | 13.807 |
| 6/14/2017 23:14 | 27540.001 | 459 | 3.302 | 7.62 | 11.53 | 20.03 | 12.763 | 13.82 |
| 6/14/2017 23:15 | 27600.001 | 460 | 3.304 | 7.63 | 11.54 | 20.02 | 12.763 | 13.823 |
| 6/14/2017 23:16 | 27660.001 | 461 | 3.302 | 7.62 | 11.53 | 20.03 | 12.763 | 13.783 |
| 6/14/2017 23:17 | 27720.001 | 462 | 3.304 | 7.63 | 11.54 | 20.02 | 12.759 | 13.81 |
| 6/14/2017 23:18 | 27780.001 | 463 | 3.306 | 7.63 | 11.54 | 20.02 | 12.755 | 13.804 |
| 6/14/2017 23:19 | 27840.001 | 464 | 3.303 | 7.63 | 11.54 | 20.02 | 12.761 | 13.808 |
| 6/14/2017 23:20 | 27900.001 | 465 | 3.303 | 7.63 | 11.54 | 20.02 | 12.761 | 13.816 |
| 6/14/2017 23:21 | 27960.001 | 466 | 3.304 | 7.63 | 11.54 | 20.02 | 12.759 | 13.798 |
| 6/14/2017 23:22 | 28020.001 | 467 | 3.303 | 7.63 | 11.54 | 20.02 | 12.762 | 13.809 |
| 6/14/2017 23:23 | 28080.001 | 468 | 3.304 | 7.63 | 11.54 | 20.02 | 12.759 | 13.798 |
| 6/14/2017 23:24 | 28140.001 | 469 | 3.303 | 7.63 | 11.54 | 20.02 | 12.762 | 13.834 |
| 6/14/2017 23:25 | 28200.001 | 470 | 3.302 | 7.62 | 11.53 | 20.03 | 12.764 | 13.8 |
| 6/14/2017 23:26 | 28260.001 | 471 | 3.304 | 7.63 | 11.54 | 20.02 | 12.758 | 13.796 |
| 6/14/2017 23:27 | 28320.001 | 472 | 3.305 | 7.63 | 11.54 | 20.02 | 12.758 | 13.824 |
| 6/14/2017 23:28 | 28380.001 | 473 | 3.303 | 7.63 | 11.54 | 20.02 | 12.762 | 13.815 |
| 6/14/2017 23:29 | 28440.001 | 474 | 3.304 | 7.63 | 11.54 | 20.02 | 12.76 | 13.812 |
| 6/14/2017 23:30 | 28500.001 | 475 | 3.308 | 7.64 | 11.55 | 20.01 | 12.75 | 13.801 |
| 6/14/2017 23:31 | 28560.001 | 476 | 3.315 | 7.65 | 11.57 | 19.99 | 12.733 | 13.806 |
| 6/14/2017 23:32 | 28620.001 | 477 | 3.324 | 7.67 | 11.59 | 19.97 | 12.714 | 13.814 |
| 6/14/2017 23:33 | 28680.001 | 478 | 3.325 | 7.68 | 11.59 | 19.97 | 12.711 | 13.793 |
| 6/14/2017 23:34 | 28740.001 | 479 | 3.324 | 7.67 | 11.59 | 19.97 | 12.714 | 13.818 |
| 6/14/2017 23:35 | 28800.001 | 480 | 3.325 | 7.68 | 11.59 | 19.97 | 12.712 | 13.796 |
| 6/14/2017 23:36 | 28860.001 | 481 | 3.326 | 7.68 | 11.59 | 19.97 | 12.708 | 13.817 |
| 6/14/2017 23:37 | 28920.001 | 482 | 3.33 | 7.69 | 11.60 | 19.96 | 12.7 | 13.826 |
| 6/14/2017 23:38 | 28980.001 | 483 | 3.334 | 7.70 | 11.61 | 19.95 | 12.691 | 13.817 |
| 6/14/2017 23:39 | 29040.001 | 484 | 3.335 | 7.70 | 11.61 | 19.95 | 12.687 | 13.798 |
| 6/14/2017 23:40 | 29100.001 | 485 | 3.336 | 7.70 | 11.61 | 19.95 | 12.685 | 13.802 |
| 6/14/2017 23:41 | 29160.001 | 486 | 3.338 | 7.71 | 11.62 | 19.94 | 12.681 | 13.792 |

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| 6/14/2017 23:42 | 29220.001 | 487 | 3.34 | 7.71 | 11.62 | 19.94 | 12.675 | 13.821 |
| 6/14/2017 23:43 | 29280.001 | 488 | 3.34 | 7.71 | 11.62 | 19.94 | 12.675 | 13.814 |
| 6/14/2017 23:44 | 29340.001 | 489 | 3.344 | 7.72 | 11.63 | 19.93 | 12.667 | 13.818 |
| 6/14/2017 23:45 | 29400.001 | 490 | 3.344 | 7.72 | 11.63 | 19.93 | 12.667 | 13.801 |
| 6/14/2017 23:46 | 29460.001 | 491 | 3.339 | 7.71 | 11.62 | 19.94 | 12.677 | 13.795 |
| 6/14/2017 23:47 | 29520.001 | 492 | 3.336 | 7.70 | 11.61 | 19.95 | 12.685 | 13.798 |
| 6/14/2017 23:48 | 29580.001 | 493 | 3.333 | 7.70 | 11.61 | 19.95 | 12.691 | 13.801 |
| 6/14/2017 23:49 | 29640.001 | 494 | 3.332 | 7.69 | 11.60 | 19.96 | 12.694 | 13.82 |
| 6/14/2017 23:50 | 29700.001 | 495 | 3.33 | 7.69 | 11.60 | 19.96 | 12.7 | 13.799 |
| 6/14/2017 23:51 | 29760.001 | 496 | 3.327 | 7.68 | 11.59 | 19.97 | 12.705 | 13.821 |
| 6/14/2017 23:52 | 29820.001 | 497 | 3.325 | 7.68 | 11.59 | 19.97 | 12.71 | 13.815 |
| 6/14/2017 23:53 | 29880.001 | 498 | 3.322 | 7.67 | 11.58 | 19.98 | 12.717 | 13.809 |
| 6/14/2017 23:54 | 29940.001 | 499 | 3.321 | 7.67 | 11.58 | 19.98 | 12.721 | 13.804 |
| 6/14/2017 23:55 | 30000.001 | 500 | 3.321 | 7.67 | 11.58 | 19.98 | 12.721 | 13.817 |
| 6/14/2017 23:56 | 30060.001 | 501 | 3.319 | 7.66 | 11.57 | 19.99 | 12.724 | 13.798 |
| 6/14/2017 23:57 | 30120.001 | 502 | 3.318 | 7.66 | 11.57 | 19.99 | 12.726 | 13.831 |
| 6/14/2017 23:58 | 30180.001 | 503 | 3.318 | 7.66 | 11.57 | 19.99 | 12.726 | 13.802 |
| 6/14/2017 23:59 | 30240.001 | 504 | 3.316 | 7.66 | 11.57 | 19.99 | 12.731 | 13.822 |
| 6/15/2017 0:00 | 30300.001 | 505 | 3.317 | 7.66 | 11.57 | 19.99 | 12.729 | 13.821 |
| 6/15/2017 0:01 | 30360.001 | 506 | 3.317 | 7.66 | 11.57 | 19.99 | 12.729 | 13.816 |
| 6/15/2017 0:02 | 30420.001 | 507 | 3.314 | 7.65 | 11.56 | 20.00 | 12.737 | 13.832 |
| 6/15/2017 0:03 | 30480.001 | 508 | 3.313 | 7.65 | 11.56 | 20.00 | 12.739 | 13.815 |
| 6/15/2017 0:04 | 30540.001 | 509 | 3.312 | 7.65 | 11.56 | 20.00 | 12.74 | 13.807 |
| 6/15/2017 0:05 | 30600.001 | 510 | 3.312 | 7.65 | 11.56 | 20.00 | 12.74 | 13.811 |
| 6/15/2017 0:06 | 30660.001 | 511 | 3.313 | 7.65 | 11.56 | 20.00 | 12.738 | 13.812 |
| 6/15/2017 0:07 | 30720.001 | 512 | 3.314 | 7.65 | 11.56 | 20.00 | 12.737 | 13.793 |
| 6/15/2017 0:08 | 30780.001 | 513 | 3.311 | 7.64 | 11.56 | 20.00 | 12.742 | 13.8 |
| 6/15/2017 0:09 | 30840.001 | 514 | 3.313 | 7.65 | 11.56 | 20.00 | 12.738 | 13.815 |
| 6/15/2017 0:10 | 30900.001 | 515 | 3.311 | 7.64 | 11.56 | 20.00 | 12.743 | 13.809 |
| 6/15/2017 0:11 | 30960.001 | 516 | 3.312 | 7.65 | 11.56 | 20.00 | 12.74 | 13.826 |
| 6/15/2017 0:12 | 31020.001 | 517 | 3.311 | 7.64 | 11.56 | 20.00 | 12.744 | 13.811 |
| 6/15/2017 0:13 | 31080.001 | 518 | 3.314 | 7.65 | 11.56 | 20.00 | 12.737 | 13.812 |
| 6/15/2017 0:14 | 31140.001 | 519 | 3.313 | 7.65 | 11.56 | 20.00 | 12.739 | 13.826 |
| 6/15/2017 0:15 | 31200.001 | 520 | 3.312 | 7.65 | 11.56 | 20.00 | 12.74 | 13.815 |
| 6/15/2017 0:16 | 31260.001 | 521 | 3.311 | 7.64 | 11.56 | 20.00 | 12.744 | 13.796 |
| 6/15/2017 0:17 | 31320.001 | 522 | 3.309 | 7.64 | 11.55 | 20.01 | 12.747 | 13.838 |
| 6/15/2017 0:18 | 31380.001 | 523 | 3.313 | 7.65 | 11.56 | 20.00 | 12.739 | 13.808 |
| 6/15/2017 0:19 | 31440.001 | 524 | 3.313 | 7.65 | 11.56 | 20.00 | 12.738 | 13.818 |
| 6/15/2017 0:20 | 31500.001 | 525 | 3.311 | 7.64 | 11.56 | 20.00 | 12.743 | 13.801 |
| 6/15/2017 0:21 | 31560.001 | 526 | 3.31 | 7.64 | 11.55 | 20.01 | 12.746 | 13.821 |
| 6/15/2017 0:22 | 31620.001 | 527 | 3.312 | 7.65 | 11.56 | 20.00 | 12.742 | 13.807 |
| 6/15/2017 0:23 | 31680.001 | 528 | 3.312 | 7.65 | 11.56 | 20.00 | 12.742 | 13.821 |
| 6/15/2017 0:24 | 31740.001 | 529 | 3.313 | 7.65 | 11.56 | 20.00 | 12.738 | 13.829 |
| 6/15/2017 0:25 | 31800.001 | 530 | 3.312 | 7.65 | 11.56 | 20.00 | 12.741 | 13.815 |
| 6/15/2017 0:26 | 31860.001 | 531 | 3.31 | 7.64 | 11.55 | 20.01 | 12.745 | 13.803 |
| 6/15/2017 0:27 | 31920.001 | 532 | 3.312 | 7.65 | 11.56 | 20.00 | 12.741 | 13.795 |
| 6/15/2017 0:28 | 31980.001 | 533 | 3.311 | 7.64 | 11.56 | 20.00 | 12.742 | 13.825 |

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| 6/15/2017 0:29 | 32040.001 | 534 | 3.313 | 7.65 | 11.56 | 20.00 | 12.737 | 13.806 |
| 6/15/2017 0:30 | 32100.001 | 535 | 3.312 | 7.65 | 11.56 | 20.00 | 12.74 | 13.807 |
| 6/15/2017 0:31 | 32160.001 | 536 | 3.314 | 7.65 | 11.56 | 20.00 | 12.736 | 13.816 |
| 6/15/2017 0:32 | 32220.001 | 537 | 3.312 | 7.65 | 11.56 | 20.00 | 12.741 | 13.804 |
| 6/15/2017 0:33 | 32280.001 | 538 | 3.313 | 7.65 | 11.56 | 20.00 | 12.739 | 13.818 |
| 6/15/2017 0:34 | 32340.001 | 539 | 3.311 | 7.64 | 11.56 | 20.00 | 12.742 | 13.801 |
| 6/15/2017 0:35 | 32400.001 | 540 | 3.312 | 7.65 | 11.56 | 20.00 | 12.74 | 13.83 |
| 6/15/2017 0:36 | 32460.001 | 541 | 3.312 | 7.65 | 11.56 | 20.00 | 12.74 | 13.826 |
| 6/15/2017 0:37 | 32520.001 | 542 | 3.314 | 7.65 | 11.56 | 20.00 | 12.737 | 13.814 |
| 6/15/2017 0:38 | 32580.001 | 543 | 3.313 | 7.65 | 11.56 | 20.00 | 12.738 | 13.802 |
| 6/15/2017 0:39 | 32640.001 | 544 | 3.314 | 7.65 | 11.56 | 20.00 | 12.737 | 13.823 |
| 6/15/2017 0:40 | 32700.001 | 545 | 3.31 | 7.64 | 11.55 | 20.01 | 12.745 | 13.793 |
| 6/15/2017 0:41 | 32760.001 | 546 | 3.313 | 7.65 | 11.56 | 20.00 | 12.739 | 13.815 |
| 6/15/2017 0:42 | 32820.001 | 547 | 3.313 | 7.65 | 11.56 | 20.00 | 12.739 | 13.808 |
| 6/15/2017 0:43 | 32880.001 | 548 | 3.314 | 7.65 | 11.56 | 20.00 | 12.736 | 13.806 |
| 6/15/2017 0:44 | 32940.001 | 549 | 3.311 | 7.64 | 11.56 | 20.00 | 12.744 | 13.804 |
| 6/15/2017 0:45 | 33000.001 | 550 | 3.312 | 7.65 | 11.56 | 20.00 | 12.74 | 13.826 |
| 6/15/2017 0:46 | 33060.001 | 551 | 3.31 | 7.64 | 11.55 | 20.01 | 12.744 | 13.814 |
| 6/15/2017 0:47 | 33120.001 | 552 | 3.314 | 7.65 | 11.56 | 20.00 | 12.736 | 13.8 |
| 6/15/2017 0:48 | 33180.001 | 553 | 3.314 | 7.65 | 11.56 | 20.00 | 12.737 | 13.795 |
| 6/15/2017 0:49 | 33240.001 | 554 | 3.313 | 7.65 | 11.56 | 20.00 | 12.737 | 13.813 |
| 6/15/2017 0:50 | 33300.001 | 555 | 3.314 | 7.65 | 11.56 | 20.00 | 12.736 | 13.84 |
| 6/15/2017 0:51 | 33360.001 | 556 | 3.314 | 7.65 | 11.56 | 20.00 | 12.736 | 13.831 |
| 6/15/2017 0:52 | 33420.001 | 557 | 3.312 | 7.65 | 11.56 | 20.00 | 12.741 | 13.8 |
| 6/15/2017 0:53 | 33480.001 | 558 | 3.312 | 7.65 | 11.56 | 20.00 | 12.74 | 13.812 |
| 6/15/2017 0:54 | 33540.001 | 559 | 3.313 | 7.65 | 11.56 | 20.00 | 12.738 | 13.819 |
| 6/15/2017 0:55 | 33600.001 | 560 | 3.312 | 7.65 | 11.56 | 20.00 | 12.741 | 13.816 |
| 6/15/2017 0:56 | 33660.001 | 561 | 3.314 | 7.65 | 11.56 | 20.00 | 12.735 | 13.796 |
| 6/15/2017 0:57 | 33720.001 | 562 | 3.316 | 7.66 | 11.57 | 19.99 | 12.732 | 13.801 |
| 6/15/2017 0:58 | 33780.001 | 563 | 3.313 | 7.65 | 11.56 | 20.00 | 12.739 | 13.831 |
| 6/15/2017 0:59 | 33840.001 | 564 | 3.314 | 7.65 | 11.56 | 20.00 | 12.737 | 13.798 |
| 6/15/2017 1:00 | 33900.001 | 565 | 3.313 | 7.65 | 11.56 | 20.00 | 12.738 | 13.798 |
| 6/15/2017 1:01 | 33960.001 | 566 | 3.314 | 7.65 | 11.56 | 20.00 | 12.735 | 13.82 |
| 6/15/2017 1:02 | 34020.001 | 567 | 3.313 | 7.65 | 11.56 | 20.00 | 12.738 | 13.839 |
| 6/15/2017 1:03 | 34080.001 | 568 | 3.313 | 7.65 | 11.56 | 20.00 | 12.737 | 13.798 |
| 6/15/2017 1:04 | 34140.001 | 569 | 3.311 | 7.64 | 11.56 | 20.00 | 12.742 | 13.823 |
| 6/15/2017 1:05 | 34200.001 | 570 | 3.312 | 7.65 | 11.56 | 20.00 | 12.74 | 13.79 |
| 6/15/2017 1:06 | 34260.001 | 571 | 3.313 | 7.65 | 11.56 | 20.00 | 12.738 | 13.803 |
| 6/15/2017 1:07 | 34320.001 | 572 | 3.313 | 7.65 | 11.56 | 20.00 | 12.738 | 13.799 |
| 6/15/2017 1:08 | 34380.001 | 573 | 3.314 | 7.65 | 11.56 | 20.00 | 12.735 | 13.825 |
| 6/15/2017 1:09 | 34440.001 | 574 | 3.314 | 7.65 | 11.56 | 20.00 | 12.736 | 13.79 |
| 6/15/2017 1:10 | 34500.001 | 575 | 3.315 | 7.65 | 11.57 | 19.99 | 12.734 | 13.806 |
| 6/15/2017 1:11 | 34560.001 | 576 | 3.313 | 7.65 | 11.56 | 20.00 | 12.737 | 13.812 |
| 6/15/2017 1:12 | 34620.001 | 577 | 3.316 | 7.66 | 11.57 | 19.99 | 12.731 | 13.794 |
| 6/15/2017 1:13 | 34680.001 | 578 | 3.316 | 7.66 | 11.57 | 19.99 | 12.731 | 13.82 |
| 6/15/2017 1:14 | 34740.001 | 579 | 3.316 | 7.66 | 11.57 | 19.99 | 12.731 | 13.8 |
| 6/15/2017 1:15 | 34800.001 | 580 | 3.317 | 7.66 | 11.57 | 19.99 | 12.729 | 13.811 |

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|----------------|-----------|-----|-------|------|-------|-------|--------|--------|
| 6/15/2017 1:16 | 34860.001 | 581 | 3.314 | 7.65 | 11.56 | 20.00 | 12.735 | 13.809 |
| 6/15/2017 1:17 | 34920.001 | 582 | 3.314 | 7.65 | 11.56 | 20.00 | 12.736 | 13.805 |
| 6/15/2017 1:18 | 34980.001 | 583 | 3.318 | 7.66 | 11.57 | 19.99 | 12.727 | 13.801 |
| 6/15/2017 1:19 | 35040.001 | 584 | 3.315 | 7.65 | 11.57 | 19.99 | 12.734 | 13.839 |
| 6/15/2017 1:20 | 35100.001 | 585 | 3.315 | 7.65 | 11.57 | 19.99 | 12.735 | 13.809 |
| 6/15/2017 1:21 | 35160.001 | 586 | 3.315 | 7.65 | 11.57 | 19.99 | 12.734 | 13.819 |
| 6/15/2017 1:22 | 35220.001 | 587 | 3.315 | 7.65 | 11.57 | 19.99 | 12.735 | 13.814 |
| 6/15/2017 1:23 | 35280.001 | 588 | 3.318 | 7.66 | 11.57 | 19.99 | 12.727 | 13.831 |
| 6/15/2017 1:24 | 35340.001 | 589 | 3.317 | 7.66 | 11.57 | 19.99 | 12.73 | 13.799 |
| 6/15/2017 1:25 | 35400.001 | 590 | 3.316 | 7.66 | 11.57 | 19.99 | 12.732 | 13.802 |
| 6/15/2017 1:26 | 35460.001 | 591 | 3.316 | 7.66 | 11.57 | 19.99 | 12.733 | 13.81 |
| 6/15/2017 1:27 | 35520.001 | 592 | 3.315 | 7.65 | 11.57 | 19.99 | 12.734 | 13.824 |
| 6/15/2017 1:28 | 35580.001 | 593 | 3.316 | 7.66 | 11.57 | 19.99 | 12.731 | 13.822 |
| 6/15/2017 1:29 | 35640.001 | 594 | 3.316 | 7.66 | 11.57 | 19.99 | 12.731 | 13.818 |
| 6/15/2017 1:30 | 35700.001 | 595 | 3.316 | 7.66 | 11.57 | 19.99 | 12.731 | 13.815 |
| 6/15/2017 1:31 | 35760.001 | 596 | 3.316 | 7.66 | 11.57 | 19.99 | 12.732 | 13.811 |
| 6/15/2017 1:32 | 35820.001 | 597 | 3.315 | 7.65 | 11.57 | 19.99 | 12.735 | 13.818 |
| 6/15/2017 1:33 | 35880.001 | 598 | 3.315 | 7.65 | 11.57 | 19.99 | 12.733 | 13.798 |
| 6/15/2017 1:34 | 35940.001 | 599 | 3.317 | 7.66 | 11.57 | 19.99 | 12.73 | 13.801 |
| 6/15/2017 1:35 | 36000.001 | 600 | 3.315 | 7.65 | 11.57 | 19.99 | 12.734 | 13.803 |
| 6/15/2017 1:36 | 36060.001 | 601 | 3.317 | 7.66 | 11.57 | 19.99 | 12.729 | 13.826 |
| 6/15/2017 1:37 | 36120.001 | 602 | 3.316 | 7.66 | 11.57 | 19.99 | 12.731 | 13.809 |
| 6/15/2017 1:38 | 36180.001 | 603 | 3.318 | 7.66 | 11.57 | 19.99 | 12.726 | 13.795 |
| 6/15/2017 1:39 | 36240.001 | 604 | 3.317 | 7.66 | 11.57 | 19.99 | 12.73 | 13.829 |
| 6/15/2017 1:40 | 36300.001 | 605 | 3.321 | 7.67 | 11.58 | 19.98 | 12.72 | 13.815 |
| 6/15/2017 1:41 | 36360.001 | 606 | 3.328 | 7.68 | 11.60 | 19.96 | 12.705 | 13.829 |
| 6/15/2017 1:42 | 36420.001 | 607 | 3.335 | 7.70 | 11.61 | 19.95 | 12.688 | 13.811 |
| 6/15/2017 1:43 | 36480.001 | 608 | 3.339 | 7.71 | 11.62 | 19.94 | 12.679 | 13.808 |
| 6/15/2017 1:44 | 36540.001 | 609 | 3.345 | 7.72 | 11.63 | 19.93 | 12.664 | 13.823 |
| 6/15/2017 1:45 | 36600.001 | 610 | 3.348 | 7.73 | 11.64 | 19.92 | 12.658 | 13.805 |
| 6/15/2017 1:46 | 36660.001 | 611 | 3.348 | 7.73 | 11.64 | 19.92 | 12.658 | 13.821 |
| 6/15/2017 1:47 | 36720.001 | 612 | 3.344 | 7.72 | 11.63 | 19.93 | 12.667 | 13.8 |
| 6/15/2017 1:48 | 36780.001 | 613 | 3.343 | 7.72 | 11.63 | 19.93 | 12.668 | 13.821 |
| 6/15/2017 1:49 | 36840.001 | 614 | 3.339 | 7.71 | 11.62 | 19.94 | 12.678 | 13.836 |
| 6/15/2017 1:50 | 36900.001 | 615 | 3.336 | 7.70 | 11.61 | 19.95 | 12.686 | 13.82 |
| 6/15/2017 1:51 | 36960.001 | 616 | 3.335 | 7.70 | 11.61 | 19.95 | 12.689 | 13.818 |
| 6/15/2017 1:52 | 37020.001 | 617 | 3.332 | 7.69 | 11.60 | 19.96 | 12.694 | 13.819 |
| 6/15/2017 1:53 | 37080.001 | 618 | 3.333 | 7.70 | 11.61 | 19.95 | 12.691 | 13.809 |
| 6/15/2017 1:54 | 37140.001 | 619 | 3.333 | 7.70 | 11.61 | 19.95 | 12.693 | 13.807 |
| 6/15/2017 1:55 | 37200.001 | 620 | 3.33 | 7.69 | 11.60 | 19.96 | 12.699 | 13.806 |
| 6/15/2017 1:56 | 37260.001 | 621 | 3.329 | 7.69 | 11.60 | 19.96 | 12.701 | 13.809 |
| 6/15/2017 1:57 | 37320.001 | 622 | 3.328 | 7.68 | 11.60 | 19.96 | 12.703 | 13.817 |
| 6/15/2017 1:58 | 37380.001 | 623 | 3.326 | 7.68 | 11.59 | 19.97 | 12.708 | 13.81 |
| 6/15/2017 1:59 | 37440.001 | 624 | 3.327 | 7.68 | 11.59 | 19.97 | 12.706 | 13.818 |
| 6/15/2017 2:00 | 37500.001 | 625 | 3.325 | 7.68 | 11.59 | 19.97 | 12.71 | 13.814 |
| 6/15/2017 2:01 | 37560.001 | 626 | 3.325 | 7.68 | 11.59 | 19.97 | 12.711 | 13.826 |
| 6/15/2017 2:02 | 37620.001 | 627 | 3.325 | 7.68 | 11.59 | 19.97 | 12.711 | 13.806 |

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|----------------|-----------|-----|-------|------|-------|-------|--------|--------|
| 6/15/2017 2:03 | 37680.001 | 628 | 3.323 | 7.67 | 11.58 | 19.98 | 12.715 | 13.792 |
| 6/15/2017 2:04 | 37740.001 | 629 | 3.322 | 7.67 | 11.58 | 19.98 | 12.717 | 13.823 |
| 6/15/2017 2:05 | 37800.001 | 630 | 3.324 | 7.67 | 11.59 | 19.97 | 12.713 | 13.804 |
| 6/15/2017 2:06 | 37860.001 | 631 | 3.323 | 7.67 | 11.58 | 19.98 | 12.716 | 13.823 |
| 6/15/2017 2:07 | 37920.001 | 632 | 3.324 | 7.67 | 11.59 | 19.97 | 12.714 | 13.772 |
| 6/15/2017 2:08 | 37980.001 | 633 | 3.323 | 7.67 | 11.58 | 19.98 | 12.715 | 13.801 |
| 6/15/2017 2:09 | 38040.001 | 634 | 3.323 | 7.67 | 11.58 | 19.98 | 12.715 | 13.817 |
| 6/15/2017 2:10 | 38100.001 | 635 | 3.322 | 7.67 | 11.58 | 19.98 | 12.718 | 13.811 |
| 6/15/2017 2:11 | 38160.001 | 636 | 3.321 | 7.67 | 11.58 | 19.98 | 12.721 | 13.807 |
| 6/15/2017 2:12 | 38220.001 | 637 | 3.322 | 7.67 | 11.58 | 19.98 | 12.718 | 13.822 |
| 6/15/2017 2:13 | 38280.001 | 638 | 3.32 | 7.67 | 11.58 | 19.98 | 12.723 | 13.81 |
| 6/15/2017 2:14 | 38340.001 | 639 | 3.32 | 7.67 | 11.58 | 19.98 | 12.722 | 13.819 |
| 6/15/2017 2:15 | 38400.001 | 640 | 3.321 | 7.67 | 11.58 | 19.98 | 12.719 | 13.813 |
| 6/15/2017 2:16 | 38460.001 | 641 | 3.319 | 7.66 | 11.57 | 19.99 | 12.724 | 13.824 |
| 6/15/2017 2:17 | 38520.001 | 642 | 3.321 | 7.67 | 11.58 | 19.98 | 12.719 | 13.817 |
| 6/15/2017 2:18 | 38580.001 | 643 | 3.317 | 7.66 | 11.57 | 19.99 | 12.728 | 13.802 |
| 6/15/2017 2:19 | 38640.001 | 644 | 3.319 | 7.66 | 11.57 | 19.99 | 12.726 | 13.806 |
| 6/15/2017 2:20 | 38700.001 | 645 | 3.318 | 7.66 | 11.57 | 19.99 | 12.728 | 13.82 |
| 6/15/2017 2:21 | 38760.001 | 646 | 3.319 | 7.66 | 11.57 | 19.99 | 12.725 | 13.822 |
| 6/15/2017 2:22 | 38820.001 | 647 | 3.321 | 7.67 | 11.58 | 19.98 | 12.721 | 13.787 |
| 6/15/2017 2:23 | 38880.001 | 648 | 3.321 | 7.67 | 11.58 | 19.98 | 12.719 | 13.81 |
| 6/15/2017 2:24 | 38940.001 | 649 | 3.319 | 7.66 | 11.57 | 19.99 | 12.724 | 13.812 |
| 6/15/2017 2:25 | 39000.001 | 650 | 3.318 | 7.66 | 11.57 | 19.99 | 12.726 | 13.818 |
| 6/15/2017 2:26 | 39060.001 | 651 | 3.319 | 7.66 | 11.57 | 19.99 | 12.725 | 13.801 |
| 6/15/2017 2:27 | 39120.001 | 652 | 3.319 | 7.66 | 11.57 | 19.99 | 12.724 | 13.801 |
| 6/15/2017 2:28 | 39180.001 | 653 | 3.321 | 7.67 | 11.58 | 19.98 | 12.721 | 13.837 |
| 6/15/2017 2:29 | 39240.001 | 654 | 3.32 | 7.67 | 11.58 | 19.98 | 12.722 | 13.826 |
| 6/15/2017 2:30 | 39300.001 | 655 | 3.321 | 7.67 | 11.58 | 19.98 | 12.72 | 13.816 |
| 6/15/2017 2:31 | 39360.001 | 656 | 3.319 | 7.66 | 11.57 | 19.99 | 12.724 | 13.795 |
| 6/15/2017 2:32 | 39420.001 | 657 | 3.319 | 7.66 | 11.57 | 19.99 | 12.724 | 13.836 |
| 6/15/2017 2:33 | 39480.001 | 658 | 3.32 | 7.67 | 11.58 | 19.98 | 12.721 | 13.806 |
| 6/15/2017 2:34 | 39540.001 | 659 | 3.322 | 7.67 | 11.58 | 19.98 | 12.719 | 13.79 |
| 6/15/2017 2:35 | 39600.001 | 660 | 3.319 | 7.66 | 11.57 | 19.99 | 12.724 | 13.826 |
| 6/15/2017 2:36 | 39660.001 | 661 | 3.321 | 7.67 | 11.58 | 19.98 | 12.72 | 13.805 |
| 6/15/2017 2:37 | 39720.001 | 662 | 3.322 | 7.67 | 11.58 | 19.98 | 12.717 | 13.787 |
| 6/15/2017 2:38 | 39780.001 | 663 | 3.327 | 7.68 | 11.59 | 19.97 | 12.706 | 13.816 |
| 6/15/2017 2:39 | 39840.001 | 664 | 3.333 | 7.70 | 11.61 | 19.95 | 12.691 | 13.802 |
| 6/15/2017 2:40 | 39900.001 | 665 | 3.334 | 7.70 | 11.61 | 19.95 | 12.69 | 13.809 |
| 6/15/2017 2:41 | 39960.001 | 666 | 3.338 | 7.71 | 11.62 | 19.94 | 12.68 | 13.825 |
| 6/15/2017 2:42 | 40020.001 | 667 | 3.34 | 7.71 | 11.62 | 19.94 | 12.676 | 13.826 |
| 6/15/2017 2:43 | 40080.001 | 668 | 3.343 | 7.72 | 11.63 | 19.93 | 12.669 | 13.822 |
| 6/15/2017 2:44 | 40140.001 | 669 | 3.345 | 7.72 | 11.63 | 19.93 | 12.665 | 13.824 |
| 6/15/2017 2:45 | 40200.001 | 670 | 3.346 | 7.73 | 11.64 | 19.92 | 12.663 | 13.817 |
| 6/15/2017 2:46 | 40260.001 | 671 | 3.348 | 7.73 | 11.64 | 19.92 | 12.657 | 13.805 |
| 6/15/2017 2:47 | 40320.001 | 672 | 3.347 | 7.73 | 11.64 | 19.92 | 12.66 | 13.81 |
| 6/15/2017 2:48 | 40380.001 | 673 | 3.351 | 7.74 | 11.65 | 19.91 | 12.652 | 13.783 |
| 6/15/2017 2:49 | 40440.001 | 674 | 3.35 | 7.73 | 11.65 | 19.91 | 12.653 | 13.811 |

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|----------------|-----------|-----|-------|------|-------|-------|--------|--------|
| 6/15/2017 3:37 | 43320.001 | 722 | 3.334 | 7.70 | 11.61 | 19.95 | 12.69 | 13.789 |
| 6/15/2017 3:38 | 43380.001 | 723 | 3.332 | 7.69 | 11.60 | 19.96 | 12.694 | 13.812 |
| 6/15/2017 3:39 | 43440.001 | 724 | 3.329 | 7.69 | 11.60 | 19.96 | 12.7 | 13.805 |
| 6/15/2017 3:40 | 43500.001 | 725 | 3.329 | 7.69 | 11.60 | 19.96 | 12.701 | 13.806 |
| 6/15/2017 3:41 | 43560.001 | 726 | 3.329 | 7.69 | 11.60 | 19.96 | 12.7 | 13.789 |
| 6/15/2017 3:42 | 43620.001 | 727 | 3.33 | 7.69 | 11.60 | 19.96 | 12.698 | 13.792 |
| 6/15/2017 3:43 | 43680.001 | 728 | 3.325 | 7.68 | 11.59 | 19.97 | 12.71 | 13.803 |
| 6/15/2017 3:44 | 43740.001 | 729 | 3.326 | 7.68 | 11.59 | 19.97 | 12.708 | 13.817 |
| 6/15/2017 3:45 | 43800.001 | 730 | 3.325 | 7.68 | 11.59 | 19.97 | 12.71 | 13.808 |
| 6/15/2017 3:46 | 43860.001 | 731 | 3.326 | 7.68 | 11.59 | 19.97 | 12.708 | 13.814 |
| 6/15/2017 3:47 | 43920.001 | 732 | 3.326 | 7.68 | 11.59 | 19.97 | 12.709 | 13.804 |
| 6/15/2017 3:48 | 43980.001 | 733 | 3.323 | 7.67 | 11.58 | 19.98 | 12.716 | 13.804 |
| 6/15/2017 3:49 | 44040.001 | 734 | 3.326 | 7.68 | 11.59 | 19.97 | 12.709 | 13.793 |
| 6/15/2017 3:50 | 44100.001 | 735 | 3.324 | 7.67 | 11.59 | 19.97 | 12.713 | 13.815 |
| 6/15/2017 3:51 | 44160.001 | 736 | 3.325 | 7.68 | 11.59 | 19.97 | 12.711 | 13.819 |
| 6/15/2017 3:52 | 44220.001 | 737 | 3.323 | 7.67 | 11.58 | 19.98 | 12.716 | 13.807 |
| 6/15/2017 3:53 | 44280.001 | 738 | 3.321 | 7.67 | 11.58 | 19.98 | 12.72 | 13.836 |
| 6/15/2017 3:54 | 44340.001 | 739 | 3.324 | 7.67 | 11.59 | 19.97 | 12.714 | 13.8 |
| 6/15/2017 3:55 | 44400.001 | 740 | 3.323 | 7.67 | 11.58 | 19.98 | 12.716 | 13.81 |
| 6/15/2017 3:56 | 44460.001 | 741 | 3.322 | 7.67 | 11.58 | 19.98 | 12.717 | 13.812 |
| 6/15/2017 3:57 | 44520.001 | 742 | 3.321 | 7.67 | 11.58 | 19.98 | 12.72 | 13.812 |
| 6/15/2017 3:58 | 44580.001 | 743 | 3.323 | 7.67 | 11.58 | 19.98 | 12.716 | 13.805 |
| 6/15/2017 3:59 | 44640.001 | 744 | 3.32 | 7.67 | 11.58 | 19.98 | 12.722 | 13.788 |
| 6/15/2017 4:00 | 44700.001 | 745 | 3.32 | 7.67 | 11.58 | 19.98 | 12.723 | 13.811 |
| 6/15/2017 4:01 | 44760.001 | 746 | 3.32 | 7.67 | 11.58 | 19.98 | 12.723 | 13.795 |
| 6/15/2017 4:02 | 44820.001 | 747 | 3.322 | 7.67 | 11.58 | 19.98 | 12.717 | 13.814 |
| 6/15/2017 4:03 | 44880.001 | 748 | 3.32 | 7.67 | 11.58 | 19.98 | 12.723 | 13.808 |
| 6/15/2017 4:04 | 44940.001 | 749 | 3.321 | 7.67 | 11.58 | 19.98 | 12.72 | 13.803 |
| 6/15/2017 4:05 | 45000.001 | 750 | 3.321 | 7.67 | 11.58 | 19.98 | 12.719 | 13.793 |
| 6/15/2017 4:06 | 45060.001 | 751 | 3.32 | 7.67 | 11.58 | 19.98 | 12.722 | 13.812 |
| 6/15/2017 4:07 | 45120.001 | 752 | 3.321 | 7.67 | 11.58 | 19.98 | 12.721 | 13.823 |
| 6/15/2017 4:08 | 45180.001 | 753 | 3.32 | 7.67 | 11.58 | 19.98 | 12.721 | 13.815 |
| 6/15/2017 4:09 | 45240.001 | 754 | 3.32 | 7.67 | 11.58 | 19.98 | 12.721 | 13.809 |
| 6/15/2017 4:10 | 45300.001 | 755 | 3.319 | 7.66 | 11.57 | 19.99 | 12.725 | 13.814 |
| 6/15/2017 4:11 | 45360.001 | 756 | 3.322 | 7.67 | 11.58 | 19.98 | 12.717 | 13.823 |
| 6/15/2017 4:12 | 45420.001 | 757 | 3.323 | 7.67 | 11.58 | 19.98 | 12.715 | 13.808 |
| 6/15/2017 4:13 | 45480.001 | 758 | 3.321 | 7.67 | 11.58 | 19.98 | 12.719 | 13.828 |
| 6/15/2017 4:14 | 45540.001 | 759 | 3.321 | 7.67 | 11.58 | 19.98 | 12.719 | 13.809 |
| 6/15/2017 4:15 | 45600.001 | 760 | 3.322 | 7.67 | 11.58 | 19.98 | 12.717 | 13.784 |
| 6/15/2017 4:16 | 45660.001 | 761 | 3.319 | 7.66 | 11.57 | 19.99 | 12.725 | 13.811 |
| 6/15/2017 4:17 | 45720.001 | 762 | 3.322 | 7.67 | 11.58 | 19.98 | 12.718 | 13.81 |
| 6/15/2017 4:18 | 45780.001 | 763 | 3.319 | 7.66 | 11.57 | 19.99 | 12.724 | 13.813 |
| 6/15/2017 4:19 | 45840.001 | 764 | 3.322 | 7.67 | 11.58 | 19.98 | 12.718 | 13.795 |
| 6/15/2017 4:20 | 45900.001 | 765 | 3.321 | 7.67 | 11.58 | 19.98 | 12.72 | 13.831 |
| 6/15/2017 4:21 | 45960.001 | 766 | 3.322 | 7.67 | 11.58 | 19.98 | 12.718 | 13.807 |
| 6/15/2017 4:22 | 46020.001 | 767 | 3.319 | 7.66 | 11.57 | 19.99 | 12.725 | 13.824 |
| 6/15/2017 4:23 | 46080.001 | 768 | 3.321 | 7.67 | 11.58 | 19.98 | 12.72 | 13.813 |

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| 6/15/2017 4:24 | 46140.001 | 769 | 3.32 | 7.67 | 11.58 | 19.98 | 12.722 | 13.821 |
| 6/15/2017 4:25 | 46200.001 | 770 | 3.319 | 7.66 | 11.57 | 19.99 | 12.724 | 13.81 |
| 6/15/2017 4:26 | 46260.001 | 771 | 3.321 | 7.67 | 11.58 | 19.98 | 12.721 | 13.823 |
| 6/15/2017 4:27 | 46320.001 | 772 | 3.319 | 7.66 | 11.57 | 19.99 | 12.724 | 13.803 |
| 6/15/2017 4:28 | 46380.001 | 773 | 3.32 | 7.67 | 11.58 | 19.98 | 12.723 | 13.8 |
| 6/15/2017 4:29 | 46440.001 | 774 | 3.318 | 7.66 | 11.57 | 19.99 | 12.726 | 13.809 |
| 6/15/2017 4:30 | 46500.001 | 775 | 3.321 | 7.67 | 11.58 | 19.98 | 12.72 | 13.81 |
| 6/15/2017 4:31 | 46560.001 | 776 | 3.318 | 7.66 | 11.57 | 19.99 | 12.726 | 13.825 |
| 6/15/2017 4:32 | 46620.001 | 777 | 3.32 | 7.67 | 11.58 | 19.98 | 12.723 | 13.825 |
| 6/15/2017 4:33 | 46680.001 | 778 | 3.32 | 7.67 | 11.58 | 19.98 | 12.722 | 13.83 |
| 6/15/2017 4:34 | 46740.001 | 779 | 3.321 | 7.67 | 11.58 | 19.98 | 12.719 | 13.822 |
| 6/15/2017 4:35 | 46800.001 | 780 | 3.32 | 7.67 | 11.58 | 19.98 | 12.722 | 13.814 |
| 6/15/2017 4:36 | 46860.001 | 781 | 3.32 | 7.67 | 11.58 | 19.98 | 12.722 | 13.812 |
| 6/15/2017 4:37 | 46920.001 | 782 | 3.32 | 7.67 | 11.58 | 19.98 | 12.723 | 13.808 |
| 6/15/2017 4:38 | 46980.001 | 783 | 3.318 | 7.66 | 11.57 | 19.99 | 12.727 | 13.806 |
| 6/15/2017 4:39 | 47040.001 | 784 | 3.321 | 7.67 | 11.58 | 19.98 | 12.721 | 13.8 |
| 6/15/2017 4:40 | 47100.001 | 785 | 3.32 | 7.67 | 11.58 | 19.98 | 12.723 | 13.801 |
| 6/15/2017 4:41 | 47160.001 | 786 | 3.32 | 7.67 | 11.58 | 19.98 | 12.723 | 13.801 |
| 6/15/2017 4:42 | 47220.001 | 787 | 3.318 | 7.66 | 11.57 | 19.99 | 12.728 | 13.828 |
| 6/15/2017 4:43 | 47280.001 | 788 | 3.318 | 7.66 | 11.57 | 19.99 | 12.727 | 13.797 |
| 6/15/2017 4:44 | 47340.001 | 789 | 3.321 | 7.67 | 11.58 | 19.98 | 12.721 | 13.828 |
| 6/15/2017 4:45 | 47400.001 | 790 | 3.32 | 7.67 | 11.58 | 19.98 | 12.723 | 13.815 |
| 6/15/2017 4:46 | 47460.001 | 791 | 3.319 | 7.66 | 11.57 | 19.99 | 12.724 | 13.828 |
| 6/15/2017 4:47 | 47520.001 | 792 | 3.317 | 7.66 | 11.57 | 19.99 | 12.728 | 13.822 |
| 6/15/2017 4:48 | 47580.001 | 793 | 3.321 | 7.67 | 11.58 | 19.98 | 12.719 | 13.812 |
| 6/15/2017 4:49 | 47640.001 | 794 | 3.317 | 7.66 | 11.57 | 19.99 | 12.729 | 13.809 |
| 6/15/2017 4:50 | 47700.001 | 795 | 3.32 | 7.67 | 11.58 | 19.98 | 12.721 | 13.827 |
| 6/15/2017 4:51 | 47760.001 | 796 | 3.317 | 7.66 | 11.57 | 19.99 | 12.73 | 13.826 |
| 6/15/2017 4:52 | 47820.001 | 797 | 3.317 | 7.66 | 11.57 | 19.99 | 12.73 | 13.814 |
| 6/15/2017 4:53 | 47880.001 | 798 | 3.318 | 7.66 | 11.57 | 19.99 | 12.727 | 13.821 |
| 6/15/2017 4:54 | 47940.001 | 799 | 3.32 | 7.67 | 11.58 | 19.98 | 12.723 | 13.806 |
| 6/15/2017 4:55 | 48000.001 | 800 | 3.317 | 7.66 | 11.57 | 19.99 | 12.729 | 13.82 |
| 6/15/2017 4:56 | 48060.001 | 801 | 3.319 | 7.66 | 11.57 | 19.99 | 12.724 | 13.817 |
| 6/15/2017 4:57 | 48120.001 | 802 | 3.319 | 7.66 | 11.57 | 19.99 | 12.724 | 13.816 |
| 6/15/2017 4:58 | 48180.001 | 803 | 3.317 | 7.66 | 11.57 | 19.99 | 12.73 | 13.814 |
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| 6/15/2017 5:00 | 48300.001 | 805 | 3.319 | 7.66 | 11.57 | 19.99 | 12.724 | 13.815 |
| 6/15/2017 5:01 | 48360.001 | 806 | 3.317 | 7.66 | 11.57 | 19.99 | 12.728 | 13.799 |
| 6/15/2017 5:02 | 48420.001 | 807 | 3.318 | 7.66 | 11.57 | 19.99 | 12.728 | 13.812 |
| 6/15/2017 5:03 | 48480.001 | 808 | 3.317 | 7.66 | 11.57 | 19.99 | 12.729 | 13.814 |
| 6/15/2017 5:04 | 48540.001 | 809 | 3.317 | 7.66 | 11.57 | 19.99 | 12.73 | 13.817 |
| 6/15/2017 5:05 | 48600.001 | 810 | 3.317 | 7.66 | 11.57 | 19.99 | 12.73 | 13.812 |
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| 6/15/2017 5:07 | 48720.001 | 812 | 3.317 | 7.66 | 11.57 | 19.99 | 12.729 | 13.826 |
| 6/15/2017 5:08 | 48780.001 | 813 | 3.317 | 7.66 | 11.57 | 19.99 | 12.728 | 13.826 |
| 6/15/2017 5:09 | 48840.001 | 814 | 3.319 | 7.66 | 11.57 | 19.99 | 12.724 | 13.817 |
| 6/15/2017 5:10 | 48900.001 | 815 | 3.316 | 7.66 | 11.57 | 19.99 | 12.731 | 13.832 |

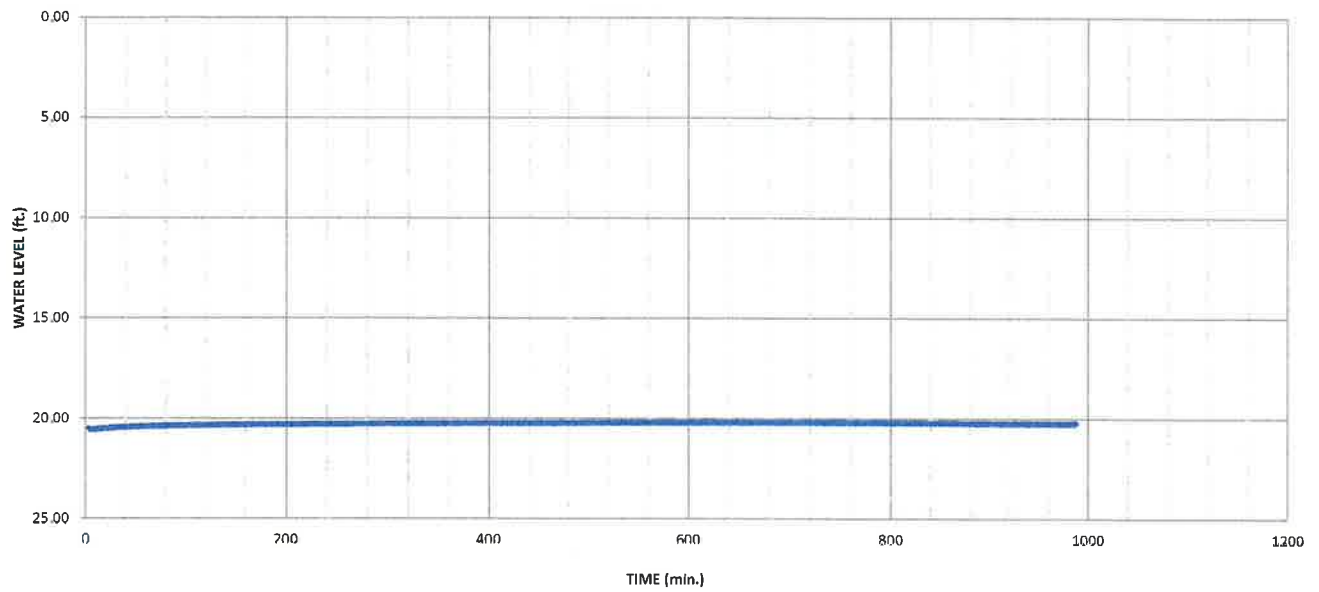
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|----------------|-----------|-----|-------|------|-------|-------|--------|--------|
| 6/15/2017 5:11 | 48960.001 | 816 | 3.316 | 7.66 | 11.57 | 19.99 | 12.732 | 13.834 |
| 6/15/2017 5:12 | 49020.001 | 817 | 3.317 | 7.66 | 11.57 | 19.99 | 12.729 | 13.811 |
| 6/15/2017 5:13 | 49080.001 | 818 | 3.317 | 7.66 | 11.57 | 19.99 | 12.729 | 13.806 |
| 6/15/2017 5:14 | 49140.001 | 819 | 3.315 | 7.65 | 11.57 | 19.99 | 12.735 | 13.815 |
| 6/15/2017 5:15 | 49200.001 | 820 | 3.316 | 7.66 | 11.57 | 19.99 | 12.731 | 13.824 |
| 6/15/2017 5:16 | 49260.001 | 821 | 3.316 | 7.66 | 11.57 | 19.99 | 12.733 | 13.807 |
| 6/15/2017 5:17 | 49320.001 | 822 | 3.316 | 7.66 | 11.57 | 19.99 | 12.732 | 13.814 |
| 6/15/2017 5:18 | 49380.001 | 823 | 3.316 | 7.66 | 11.57 | 19.99 | 12.731 | 13.815 |
| 6/15/2017 5:19 | 49440.001 | 824 | 3.316 | 7.66 | 11.57 | 19.99 | 12.732 | 13.809 |
| 6/15/2017 5:20 | 49500.001 | 825 | 3.316 | 7.66 | 11.57 | 19.99 | 12.732 | 13.817 |
| 6/15/2017 5:21 | 49560.001 | 826 | 3.314 | 7.65 | 11.56 | 20.00 | 12.736 | 13.832 |
| 6/15/2017 5:22 | 49620.001 | 827 | 3.316 | 7.66 | 11.57 | 19.99 | 12.73 | 13.802 |
| 6/15/2017 5:23 | 49680.001 | 828 | 3.316 | 7.66 | 11.57 | 19.99 | 12.731 | 13.829 |
| 6/15/2017 5:24 | 49740.001 | 829 | 3.314 | 7.65 | 11.56 | 20.00 | 12.737 | 13.807 |
| 6/15/2017 5:25 | 49800.001 | 830 | 3.317 | 7.66 | 11.57 | 19.99 | 12.729 | 13.821 |
| 6/15/2017 5:26 | 49860.001 | 831 | 3.317 | 7.66 | 11.57 | 19.99 | 12.729 | 13.801 |
| 6/15/2017 5:27 | 49920.001 | 832 | 3.314 | 7.65 | 11.56 | 20.00 | 12.735 | 13.816 |
| 6/15/2017 5:28 | 49980.001 | 833 | 3.315 | 7.65 | 11.57 | 19.99 | 12.734 | 13.815 |
| 6/15/2017 5:29 | 50040.001 | 834 | 3.315 | 7.65 | 11.57 | 19.99 | 12.735 | 13.809 |
| 6/15/2017 5:30 | 50100.001 | 835 | 3.316 | 7.66 | 11.57 | 19.99 | 12.732 | 13.804 |
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| 6/15/2017 5:32 | 50220.001 | 837 | 3.315 | 7.65 | 11.57 | 19.99 | 12.734 | 13.801 |
| 6/15/2017 5:33 | 50280.001 | 838 | 3.317 | 7.66 | 11.57 | 19.99 | 12.729 | 13.831 |
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| 6/15/2017 5:38 | 50580.001 | 843 | 3.314 | 7.65 | 11.56 | 20.00 | 12.736 | 13.817 |
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| 6/15/2017 5:40 | 50700.001 | 845 | 3.314 | 7.65 | 11.56 | 20.00 | 12.736 | 13.798 |
| 6/15/2017 5:41 | 50760.001 | 846 | 3.315 | 7.65 | 11.57 | 19.99 | 12.735 | 13.794 |
| 6/15/2017 5:42 | 50820.001 | 847 | 3.314 | 7.65 | 11.56 | 20.00 | 12.736 | 13.796 |
| 6/15/2017 5:43 | 50880.001 | 848 | 3.315 | 7.65 | 11.57 | 19.99 | 12.735 | 13.819 |
| 6/15/2017 5:44 | 50940.001 | 849 | 3.314 | 7.65 | 11.56 | 20.00 | 12.735 | 13.821 |
| 6/15/2017 5:45 | 51000.001 | 850 | 3.317 | 7.66 | 11.57 | 19.99 | 12.73 | 13.833 |
| 6/15/2017 5:46 | 51060.001 | 851 | 3.314 | 7.65 | 11.56 | 20.00 | 12.737 | 13.804 |
| 6/15/2017 5:47 | 51120.001 | 852 | 3.315 | 7.65 | 11.57 | 19.99 | 12.734 | 13.813 |
| 6/15/2017 5:48 | 51180.001 | 853 | 3.313 | 7.65 | 11.56 | 20.00 | 12.739 | 13.811 |
| 6/15/2017 5:49 | 51240.001 | 854 | 3.313 | 7.65 | 11.56 | 20.00 | 12.738 | 13.803 |
| 6/15/2017 5:50 | 51300.001 | 855 | 3.315 | 7.65 | 11.57 | 19.99 | 12.734 | 13.802 |
| 6/15/2017 5:51 | 51360.001 | 856 | 3.312 | 7.65 | 11.56 | 20.00 | 12.741 | 13.815 |
| 6/15/2017 5:52 | 51420.001 | 857 | 3.316 | 7.66 | 11.57 | 19.99 | 12.732 | 13.828 |
| 6/15/2017 5:53 | 51480.001 | 858 | 3.315 | 7.65 | 11.57 | 19.99 | 12.734 | 13.811 |
| 6/15/2017 5:54 | 51540.001 | 859 | 3.314 | 7.65 | 11.56 | 20.00 | 12.735 | 13.793 |
| 6/15/2017 5:55 | 51600.001 | 860 | 3.314 | 7.65 | 11.56 | 20.00 | 12.736 | 13.824 |
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| 6/15/2017 5:57 | 51720.001 | 862 | 3.314 | 7.65 | 11.56 | 20.00 | 12.736 | 13.802 |

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| 6/15/2017 5:58 | 51780.001 | 863 | 3.315 | 7.65 | 11.57 | 19.99 | 12.734 | 13.824 |
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| 6/15/2017 6:00 | 51900.001 | 865 | 3.315 | 7.65 | 11.57 | 19.99 | 12.734 | 13.814 |
| 6/15/2017 6:01 | 51960.001 | 866 | 3.315 | 7.65 | 11.57 | 19.99 | 12.734 | 13.817 |
| 6/15/2017 6:02 | 52020.001 | 867 | 3.313 | 7.65 | 11.56 | 20.00 | 12.738 | 13.82 |
| 6/15/2017 6:03 | 52080.001 | 868 | 3.315 | 7.65 | 11.57 | 19.99 | 12.735 | 13.814 |
| 6/15/2017 6:04 | 52140.001 | 869 | 3.313 | 7.65 | 11.56 | 20.00 | 12.738 | 13.808 |
| 6/15/2017 6:05 | 52200.001 | 870 | 3.313 | 7.65 | 11.56 | 20.00 | 12.739 | 13.794 |
| 6/15/2017 6:06 | 52260.001 | 871 | 3.313 | 7.65 | 11.56 | 20.00 | 12.738 | 13.808 |
| 6/15/2017 6:07 | 52320.001 | 872 | 3.313 | 7.65 | 11.56 | 20.00 | 12.739 | 13.811 |
| 6/15/2017 6:08 | 52380.001 | 873 | 3.317 | 7.66 | 11.57 | 19.99 | 12.729 | 13.813 |
| 6/15/2017 6:09 | 52440.001 | 874 | 3.313 | 7.65 | 11.56 | 20.00 | 12.739 | 13.794 |
| 6/15/2017 6:10 | 52500.001 | 875 | 3.312 | 7.65 | 11.56 | 20.00 | 12.74 | 13.817 |
| 6/15/2017 6:11 | 52560.001 | 876 | 3.311 | 7.64 | 11.56 | 20.00 | 12.743 | 13.81 |
| 6/15/2017 6:12 | 52620.001 | 877 | 3.313 | 7.65 | 11.56 | 20.00 | 12.738 | 13.798 |
| 6/15/2017 6:13 | 52680.001 | 878 | 3.314 | 7.65 | 11.56 | 20.00 | 12.736 | 13.817 |
| 6/15/2017 6:14 | 52740.001 | 879 | 3.312 | 7.65 | 11.56 | 20.00 | 12.74 | 13.828 |
| 6/15/2017 6:15 | 52800.001 | 880 | 3.311 | 7.64 | 11.56 | 20.00 | 12.742 | 13.815 |
| 6/15/2017 6:16 | 52860.001 | 881 | 3.314 | 7.65 | 11.56 | 20.00 | 12.737 | 13.825 |
| 6/15/2017 6:17 | 52920.001 | 882 | 3.312 | 7.65 | 11.56 | 20.00 | 12.742 | 13.826 |
| 6/15/2017 6:18 | 52980.001 | 883 | 3.311 | 7.64 | 11.56 | 20.00 | 12.743 | 13.801 |
| 6/15/2017 6:19 | 53040.001 | 884 | 3.312 | 7.65 | 11.56 | 20.00 | 12.74 | 13.817 |
| 6/15/2017 6:20 | 53100.001 | 885 | 3.313 | 7.65 | 11.56 | 20.00 | 12.739 | 13.81 |
| 6/15/2017 6:21 | 53160.001 | 886 | 3.311 | 7.64 | 11.56 | 20.00 | 12.743 | 13.809 |
| 6/15/2017 6:22 | 53220.001 | 887 | 3.31 | 7.64 | 11.55 | 20.01 | 12.745 | 13.825 |
| 6/15/2017 6:23 | 53280.001 | 888 | 3.31 | 7.64 | 11.55 | 20.01 | 12.745 | 13.798 |
| 6/15/2017 6:24 | 53340.001 | 889 | 3.312 | 7.65 | 11.56 | 20.00 | 12.741 | 13.806 |
| 6/15/2017 6:25 | 53400.001 | 890 | 3.312 | 7.65 | 11.56 | 20.00 | 12.742 | 13.816 |
| 6/15/2017 6:26 | 53460.001 | 891 | 3.31 | 7.64 | 11.55 | 20.01 | 12.744 | 13.803 |
| 6/15/2017 6:27 | 53520.001 | 892 | 3.31 | 7.64 | 11.55 | 20.01 | 12.744 | 13.803 |
| 6/15/2017 6:28 | 53580.001 | 893 | 3.31 | 7.64 | 11.55 | 20.01 | 12.745 | 13.828 |
| 6/15/2017 6:29 | 53640.001 | 894 | 3.31 | 7.64 | 11.55 | 20.01 | 12.745 | 13.816 |
| 6/15/2017 6:30 | 53700.001 | 895 | 3.309 | 7.64 | 11.55 | 20.01 | 12.747 | 13.802 |
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| 6/15/2017 6:32 | 53820.001 | 897 | 3.31 | 7.64 | 11.55 | 20.01 | 12.745 | 13.808 |
| 6/15/2017 6:33 | 53880.001 | 898 | 3.309 | 7.64 | 11.55 | 20.01 | 12.748 | 13.806 |
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| 6/15/2017 6:35 | 54000.001 | 900 | 3.31 | 7.64 | 11.55 | 20.01 | 12.744 | 13.815 |
| 6/15/2017 6:36 | 54060.001 | 901 | 3.311 | 7.64 | 11.56 | 20.00 | 12.743 | 13.809 |
| 6/15/2017 6:37 | 54120.001 | 902 | 3.311 | 7.64 | 11.56 | 20.00 | 12.743 | 13.792 |
| 6/15/2017 6:38 | 54180.001 | 903 | 3.311 | 7.64 | 11.56 | 20.00 | 12.744 | 13.795 |
| 6/15/2017 6:39 | 54240.001 | 904 | 3.309 | 7.64 | 11.55 | 20.01 | 12.747 | 13.812 |
| 6/15/2017 6:40 | 54300.001 | 905 | 3.311 | 7.64 | 11.56 | 20.00 | 12.743 | 13.826 |
| 6/15/2017 6:41 | 54360.001 | 906 | 3.309 | 7.64 | 11.55 | 20.01 | 12.748 | 13.801 |
| 6/15/2017 6:42 | 54420.001 | 907 | 3.309 | 7.64 | 11.55 | 20.01 | 12.748 | 13.809 |
| 6/15/2017 6:43 | 54480.001 | 908 | 3.311 | 7.64 | 11.56 | 20.00 | 12.743 | 13.822 |
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| 6/15/2017 6:45 | 54600.001 | 910 | 3.308 | 7.64 | 11.55 | 20.01 | 12.751 | 13.82 |
| 6/15/2017 6:46 | 54660.001 | 911 | 3.31 | 7.64 | 11.55 | 20.01 | 12.746 | 13.819 |
| 6/15/2017 6:47 | 54720.001 | 912 | 3.309 | 7.64 | 11.55 | 20.01 | 12.747 | 13.801 |
| 6/15/2017 6:48 | 54780.001 | 913 | 3.309 | 7.64 | 11.55 | 20.01 | 12.747 | 13.809 |
| 6/15/2017 6:49 | 54840.001 | 914 | 3.309 | 7.64 | 11.55 | 20.01 | 12.749 | 13.805 |
| 6/15/2017 6:50 | 54900.001 | 915 | 3.309 | 7.64 | 11.55 | 20.01 | 12.748 | 13.809 |
| 6/15/2017 6:51 | 54960.001 | 916 | 3.309 | 7.64 | 11.55 | 20.01 | 12.747 | 13.817 |
| 6/15/2017 6:52 | 55020.001 | 917 | 3.309 | 7.64 | 11.55 | 20.01 | 12.747 | 13.803 |
| 6/15/2017 6:53 | 55080.001 | 918 | 3.312 | 7.65 | 11.56 | 20.00 | 12.742 | 13.801 |
| 6/15/2017 6:54 | 55140.001 | 919 | 3.31 | 7.64 | 11.55 | 20.01 | 12.746 | 13.823 |
| 6/15/2017 6:55 | 55200.001 | 920 | 3.309 | 7.64 | 11.55 | 20.01 | 12.747 | 13.798 |
| 6/15/2017 6:56 | 55260.001 | 921 | 3.311 | 7.64 | 11.56 | 20.00 | 12.742 | 13.814 |
| 6/15/2017 6:57 | 55320.001 | 922 | 3.307 | 7.64 | 11.55 | 20.01 | 12.751 | 13.828 |
| 6/15/2017 6:58 | 55380.001 | 923 | 3.308 | 7.64 | 11.55 | 20.01 | 12.749 | 13.787 |
| 6/15/2017 6:59 | 55440.001 | 924 | 3.307 | 7.64 | 11.55 | 20.01 | 12.751 | 13.815 |
| 6/15/2017 7:00 | 55500.001 | 925 | 3.309 | 7.64 | 11.55 | 20.01 | 12.747 | 13.798 |
| 6/15/2017 7:01 | 55560.001 | 926 | 3.306 | 7.63 | 11.54 | 20.02 | 12.754 | 13.8 |
| 6/15/2017 7:02 | 55620.001 | 927 | 3.308 | 7.64 | 11.55 | 20.01 | 12.75 | 13.806 |
| 6/15/2017 7:03 | 55680.001 | 928 | 3.308 | 7.64 | 11.55 | 20.01 | 12.751 | 13.804 |
| 6/15/2017 7:04 | 55740.001 | 929 | 3.308 | 7.64 | 11.55 | 20.01 | 12.75 | 13.798 |
| 6/15/2017 7:05 | 55800.001 | 930 | 3.312 | 7.65 | 11.56 | 20.00 | 12.742 | 13.818 |
| 6/15/2017 7:06 | 55860.001 | 931 | 3.309 | 7.64 | 11.55 | 20.01 | 12.748 | 13.817 |
| 6/15/2017 7:07 | 55920.001 | 932 | 3.309 | 7.64 | 11.55 | 20.01 | 12.749 | 13.817 |
| 6/15/2017 7:08 | 55980.001 | 933 | 3.308 | 7.64 | 11.55 | 20.01 | 12.749 | 13.817 |
| 6/15/2017 7:09 | 56040.001 | 934 | 3.307 | 7.64 | 11.55 | 20.01 | 12.752 | 13.814 |
| 6/15/2017 7:10 | 56100.001 | 935 | 3.306 | 7.63 | 11.54 | 20.02 | 12.754 | 13.824 |
| 6/15/2017 7:11 | 56160.001 | 936 | 3.307 | 7.64 | 11.55 | 20.01 | 12.752 | 13.817 |
| 6/15/2017 7:12 | 56220.001 | 937 | 3.307 | 7.64 | 11.55 | 20.01 | 12.752 | 13.825 |
| 6/15/2017 7:13 | 56280.001 | 938 | 3.317 | 7.66 | 11.57 | 19.99 | 12.728 | 13.821 |
| 6/15/2017 7:14 | 56340.001 | 939 | 3.319 | 7.66 | 11.57 | 19.99 | 12.725 | 13.796 |
| 6/15/2017 7:15 | 56400.001 | 940 | 3.315 | 7.65 | 11.57 | 19.99 | 12.734 | 13.806 |
| 6/15/2017 7:16 | 56460.001 | 941 | 3.314 | 7.65 | 11.56 | 20.00 | 12.736 | 13.812 |
| 6/15/2017 7:17 | 56520.001 | 942 | 3.315 | 7.65 | 11.57 | 19.99 | 12.733 | 13.831 |
| 6/15/2017 7:18 | 56580.001 | 943 | 3.313 | 7.65 | 11.56 | 20.00 | 12.739 | 13.826 |
| 6/15/2017 7:19 | 56640.001 | 944 | 3.315 | 7.65 | 11.57 | 19.99 | 12.734 | 13.809 |
| 6/15/2017 7:20 | 56700.001 | 945 | 3.311 | 7.64 | 11.56 | 20.00 | 12.742 | 13.824 |
| 6/15/2017 7:21 | 56760.001 | 946 | 3.311 | 7.64 | 11.56 | 20.00 | 12.743 | 13.812 |
| 6/15/2017 7:22 | 56820.001 | 947 | 3.31 | 7.64 | 11.55 | 20.01 | 12.745 | 13.828 |
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| 6/15/2017 7:24 | 56940.001 | 949 | 3.306 | 7.63 | 11.54 | 20.02 | 12.754 | 13.81 |
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| 6/15/2017 7:27 | 57120.001 | 952 | 3.306 | 7.63 | 11.54 | 20.02 | 12.753 | 13.807 |
| 6/15/2017 7:28 | 57180.001 | 953 | 3.308 | 7.64 | 11.55 | 20.01 | 12.75 | 13.832 |
| 6/15/2017 7:29 | 57240.001 | 954 | 3.31 | 7.64 | 11.55 | 20.01 | 12.746 | 13.811 |
| 6/15/2017 7:30 | 57300.001 | 955 | 3.308 | 7.64 | 11.55 | 20.01 | 12.751 | 13.801 |
| 6/15/2017 7:31 | 57360.001 | 956 | 3.31 | 7.64 | 11.55 | 20.01 | 12.746 | 13.798 |

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| 6/15/2017 7:32 | 57420.001 | 957 | 3.307 | 7.64 | 11.55 | 20.01 | 12.752 | 13.822 |
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| 6/15/2017 7:34 | 57540.001 | 959 | 3.306 | 7.63 | 11.54 | 20.02 | 12.754 | 13.838 |
| 6/15/2017 7:35 | 57600.001 | 960 | 3.31 | 7.64 | 11.55 | 20.01 | 12.745 | 13.835 |
| 6/15/2017 7:36 | 57660.001 | 961 | 3.31 | 7.64 | 11.55 | 20.01 | 12.746 | 13.818 |
| 6/15/2017 7:37 | 57720.001 | 962 | 3.31 | 7.64 | 11.55 | 20.01 | 12.746 | 13.83 |
| 6/15/2017 7:38 | 57780.001 | 963 | 3.309 | 7.64 | 11.55 | 20.01 | 12.747 | 13.828 |
| 6/15/2017 7:39 | 57840.001 | 964 | 3.308 | 7.64 | 11.55 | 20.01 | 12.749 | 13.833 |
| 6/15/2017 7:40 | 57900.001 | 965 | 3.309 | 7.64 | 11.55 | 20.01 | 12.748 | 13.815 |
| 6/15/2017 7:41 | 57960.001 | 966 | 3.31 | 7.64 | 11.55 | 20.01 | 12.744 | 13.811 |
| 6/15/2017 7:42 | 58020.001 | 967 | 3.31 | 7.64 | 11.55 | 20.01 | 12.746 | 13.809 |
| 6/15/2017 7:43 | 58080.001 | 968 | 3.308 | 7.64 | 11.55 | 20.01 | 12.749 | 13.824 |
| 6/15/2017 7:44 | 58140.001 | 969 | 3.311 | 7.64 | 11.56 | 20.00 | 12.743 | 13.812 |
| 6/15/2017 7:45 | 58200.001 | 970 | 3.309 | 7.64 | 11.55 | 20.01 | 12.747 | 13.815 |
| 6/15/2017 7:46 | 58260.001 | 971 | 3.307 | 7.64 | 11.55 | 20.01 | 12.753 | 13.806 |
| 6/15/2017 7:47 | 58320.001 | 972 | 3.308 | 7.64 | 11.55 | 20.01 | 12.75 | 13.81 |
| 6/15/2017 7:48 | 58380.001 | 973 | 3.309 | 7.64 | 11.55 | 20.01 | 12.748 | 13.812 |
| 6/15/2017 7:49 | 58440.001 | 974 | 3.308 | 7.64 | 11.55 | 20.01 | 12.75 | 13.795 |
| 6/15/2017 7:50 | 58500.001 | 975 | 3.309 | 7.64 | 11.55 | 20.01 | 12.748 | 13.811 |
| 6/15/2017 7:51 | 58560.001 | 976 | 3.307 | 7.64 | 11.55 | 20.01 | 12.751 | 13.8 |
| 6/15/2017 7:52 | 58620.001 | 977 | 3.307 | 7.64 | 11.55 | 20.01 | 12.752 | 13.795 |
| 6/15/2017 7:53 | 58680.001 | 978 | 3.308 | 7.64 | 11.55 | 20.01 | 12.751 | 13.816 |
| 6/15/2017 7:54 | 58740.001 | 979 | 3.307 | 7.64 | 11.55 | 20.01 | 12.751 | 13.809 |
| 6/15/2017 7:55 | 58800.001 | 980 | 3.308 | 7.64 | 11.55 | 20.01 | 12.75 | 13.828 |
| 6/15/2017 7:56 | 58860.001 | 981 | 3.308 | 7.64 | 11.55 | 20.01 | 12.75 | 13.801 |
| 6/15/2017 7:57 | 58920.001 | 982 | 3.307 | 7.64 | 11.55 | 20.01 | 12.752 | 13.813 |
| 6/15/2017 7:58 | 58980.001 | 983 | 3.304 | 7.63 | 11.54 | 20.02 | 12.76 | 13.809 |
| 6/15/2017 7:59 | 59040.001 | 984 | 3.306 | 7.63 | 11.54 | 20.02 | 12.754 | 13.817 |
| 6/15/2017 8:00 | 59100.001 | 985 | 3.303 | 7.63 | 11.54 | 20.02 | 12.761 | 13.817 |
| 6/15/2017 8:00 | 59118.099 | 986 | 3.304 | 7.63 | 11.54 | 20.02 | 12.759 | 13.824 |
| 6/15/2017 8:01 | 59178.099 | 987 | 1.243 | 2.87 | 6.78 | 24.78 | 17.518 | 13.819 |
| 6/15/2017 8:02 | 59238.099 | 988 | 3.318 | 7.66 | 11.57 | 19.99 | 12.726 | 13.633 |

PZ-17-2 Background - 6/14/2017



Report Date: 6/16/2017 11:37
Report User Name spauldingj
Report Computer LAPTOP04
Application: WinSitu.exe
Application Versio 5.6.25.0

Log File Properties

File Name PZ-17-2_Append_2017-06-15_08-15-25-239.wsl
Create Date 6/15/2017 8:15

Device Properties

Device Level TROLL 700
Site Orange County Landfill
Device Name
Serial Number 428981
Firmware Version 3.03
Hardware Version 5
Device Address 1
Device Comm Cfg 19200
Used Memory 0
Used Battery 11

Even

8

1

Log Configuration

Log Name PZ-17-2
Created By SpauldingJ
Computer Name LAPTOP04
Application WinSitu.exe
Application Version 5.6.25.0
Create Date 6/14/2017 3:47:07 PM Eastern Daylight Time
Log Setup Time Zone Eastern Daylight Time
Notes Size (bytes) 4096
Overwrite when full Disabled
Scheduled Start Time Manual Start
Scheduled Stop Time No Stop Time
Type Linear
Interval Days: 0 hrs: 00 mins: 01 secs: 00

Level Reference Settings At Log Creation

Level Measurement Mode
Specific Gravity Level Depth To Water 0.999
Level Reference Mode: Set first logged value to offset
Level Reference Offset: 20.48 (ft)

Other Log Settings

Depth of Probe: 0.0609372 (ft)
Head Pressure: 0.0263915 (PSI)
Temperature: 46.673 (C)

Log Notes:

Date and Time Note
6/14/2017 15:47 Used Battery: 11% Used Memory: 1% User Name: SpauldingJ
6/14/2017 15:47 Manual Start Command
6/15/2017 7:52 Log Download - Used Battery: 11% Used Memory: 1% User Name: SpauldingJ
6/15/2017 8:14 Used Battery: 11% Used Memory: 1% User Name: SpauldingJ
6/15/2017 8:14 Manual Stop Command

Log Data:
Record Count 988

Sensors 1

428981

Pressure/Temp 15 PSIG (11m/35ft)

Time Zone: Eastern Daylight Time

| Date and Time | | Elapsed Time | Sensor: Pres(G) 35ft | | Sensor: Pres(G) 35ft | | Sensor: Pres(G) 35ft | |
|-----------------|----------|--------------|----------------------|----------------|----------------------|---------------------------|----------------------|-----------------|
| Date and Time | | Seconds | SN# | Pressure (PSI) | Water Level (ft.) | Level Depth To Water (ft) | SN# | Temperature (C) |
| 6/14/2017 15:47 | 0 | 0.026 | 428981 | 0 | | | 428981 | 20.48 |
| 6/14/2017 15:48 | 60.001 | 0.012 | | 1 | | | | 20.512 |
| 6/14/2017 15:49 | 120.001 | 2.889 | | 2 | | | | 13.87 |
| 6/14/2017 15:50 | 180.001 | 3.037 | | 3 | | | | 13.526 |
| 6/14/2017 15:51 | 240.001 | 3.021 | | 4 | 7.01 | 20.48 | | 13.563 |
| 6/14/2017 15:52 | 300.001 | 3.014 | | 5 | 6.98 | 20.52 | | 13.58 |
| 6/14/2017 15:53 | 360.001 | 3.011 | | 6 | 6.96 | 20.53 | | 13.588 |
| 6/14/2017 15:54 | 420.001 | 3.011 | | 7 | 6.95 | 20.54 | | 13.587 |
| 6/14/2017 15:55 | 480.001 | 3.009 | | 8 | 6.95 | 20.54 | | 13.592 |
| 6/14/2017 15:56 | 540.001 | 3.011 | | 9 | 6.95 | 20.54 | | 13.588 |
| 6/14/2017 15:57 | 600.001 | 3.012 | | 10 | 6.95 | 20.54 | | 13.584 |
| 6/14/2017 15:58 | 660.001 | 3.013 | | 11 | 6.96 | 20.54 | | 13.583 |
| 6/14/2017 15:59 | 720.001 | 3.014 | | 12 | 6.96 | 20.53 | | 13.581 |
| 6/14/2017 16:00 | 780.001 | 3.017 | | 13 | 6.97 | 20.53 | | 13.573 |
| 6/14/2017 16:01 | 840.001 | 3.02 | | 14 | 6.97 | 20.52 | | 13.566 |
| 6/14/2017 16:02 | 900.001 | 3.021 | | 15 | 6.98 | 20.52 | | 13.563 |
| 6/14/2017 16:03 | 960.001 | 3.023 | | 16 | 6.98 | 20.51 | | 13.56 |
| 6/14/2017 16:04 | 1020.001 | 3.028 | | 17 | 6.99 | 20.50 | | 13.549 |
| 6/14/2017 16:05 | 1080.001 | 3.029 | | 18 | 6.99 | 20.50 | | 13.547 |

46.68
45.875
35.707
28.691
24.49
21.855
20.032
18.776
17.758
17.006
16.426
15.969
15.61
15.383
15.161
14.959
14.839
14.736
14.62

| | | | | | | | | |
|-----------------|----------|----|-------|------|-------|-------|--------|--------|
| 6/14/2017 16:06 | 1140.001 | 19 | 3.03 | 7.00 | 11.73 | 20.50 | 13.544 | 14.56 |
| 6/14/2017 16:07 | 1200.001 | 20 | 3.032 | 7.00 | 11.74 | 20.49 | 13.54 | 14.473 |
| 6/14/2017 16:08 | 1260.001 | 21 | 3.034 | 7.01 | 11.74 | 20.49 | 13.535 | 14.421 |
| 6/14/2017 16:09 | 1320.001 | 22 | 3.037 | 7.01 | 11.75 | 20.48 | 13.526 | 14.386 |
| 6/14/2017 16:10 | 1380.001 | 23 | 3.037 | 7.01 | 11.75 | 20.48 | 13.527 | 14.339 |
| 6/14/2017 16:11 | 1440.001 | 24 | 3.038 | 7.01 | 11.75 | 20.48 | 13.525 | 14.32 |
| 6/14/2017 16:12 | 1500.001 | 25 | 3.041 | 7.02 | 11.76 | 20.47 | 13.519 | 14.284 |
| 6/14/2017 16:13 | 1560.001 | 26 | 3.045 | 7.03 | 11.77 | 20.46 | 13.509 | 14.265 |
| 6/14/2017 16:14 | 1620.001 | 27 | 3.044 | 7.03 | 11.77 | 20.46 | 13.512 | 14.222 |
| 6/14/2017 16:15 | 1680.001 | 28 | 3.045 | 7.03 | 11.77 | 20.46 | 13.509 | 14.251 |
| 6/14/2017 16:16 | 1740.001 | 29 | 3.047 | 7.04 | 11.77 | 20.46 | 13.505 | 14.213 |
| 6/14/2017 16:17 | 1800.001 | 30 | 3.048 | 7.04 | 11.78 | 20.45 | 13.503 | 14.2 |
| 6/14/2017 16:18 | 1860.001 | 31 | 3.051 | 7.04 | 11.78 | 20.45 | 13.496 | 14.181 |
| 6/14/2017 16:19 | 1920.001 | 32 | 3.054 | 7.05 | 11.79 | 20.44 | 13.489 | 14.166 |
| 6/14/2017 16:20 | 1980.001 | 33 | 3.053 | 7.05 | 11.79 | 20.44 | 13.491 | 14.161 |
| 6/14/2017 16:21 | 2040.001 | 34 | 3.053 | 7.05 | 11.79 | 20.44 | 13.491 | 14.143 |
| 6/14/2017 16:22 | 2100.001 | 35 | 3.056 | 7.06 | 11.79 | 20.44 | 13.484 | 14.139 |
| 6/14/2017 16:23 | 2160.001 | 36 | 3.055 | 7.05 | 11.79 | 20.44 | 13.485 | 14.137 |
| 6/14/2017 16:24 | 2220.001 | 37 | 3.056 | 7.06 | 11.79 | 20.44 | 13.483 | 14.108 |
| 6/14/2017 16:25 | 2280.001 | 38 | 3.059 | 7.06 | 11.80 | 20.43 | 13.477 | 14.134 |
| 6/14/2017 16:26 | 2340.001 | 39 | 3.06 | 7.07 | 11.80 | 20.43 | 13.474 | 14.115 |
| 6/14/2017 16:27 | 2400.001 | 40 | 3.062 | 7.07 | 11.81 | 20.42 | 13.47 | 14.11 |
| 6/14/2017 16:28 | 2460.001 | 41 | 3.063 | 7.07 | 11.81 | 20.42 | 13.466 | 14.098 |
| 6/14/2017 16:29 | 2520.001 | 42 | 3.063 | 7.07 | 11.81 | 20.42 | 13.468 | 14.104 |
| 6/14/2017 16:30 | 2580.001 | 43 | 3.064 | 7.07 | 11.81 | 20.42 | 13.466 | 14.081 |
| 6/14/2017 16:31 | 2640.001 | 44 | 3.061 | 7.07 | 11.81 | 20.42 | 13.471 | 14.126 |
| 6/14/2017 16:32 | 2700.001 | 45 | 3.066 | 7.08 | 11.82 | 20.41 | 13.461 | 14.11 |
| 6/14/2017 16:33 | 2760.001 | 46 | 3.065 | 7.08 | 11.81 | 20.42 | 13.464 | 14.104 |
| 6/14/2017 16:34 | 2820.001 | 47 | 3.07 | 7.09 | 11.83 | 20.40 | 13.45 | 14.082 |
| 6/14/2017 16:35 | 2880.001 | 48 | 3.068 | 7.08 | 11.82 | 20.41 | 13.456 | 14.076 |
| 6/14/2017 16:36 | 2940.001 | 49 | 3.07 | 7.09 | 11.83 | 20.40 | 13.452 | 14.098 |
| 6/14/2017 16:37 | 3000.001 | 50 | 3.071 | 7.09 | 11.83 | 20.40 | 13.449 | 14.082 |
| 6/14/2017 16:38 | 3060.001 | 51 | 3.071 | 7.09 | 11.83 | 20.40 | 13.448 | 14.078 |
| 6/14/2017 16:39 | 3120.001 | 52 | 3.071 | 7.09 | 11.83 | 20.40 | 13.449 | 14.079 |
| 6/14/2017 16:40 | 3180.001 | 53 | 3.071 | 7.09 | 11.83 | 20.40 | 13.448 | 14.086 |
| 6/14/2017 16:41 | 3240.001 | 54 | 3.072 | 7.09 | 11.83 | 20.40 | 13.447 | 14.091 |
| 6/14/2017 16:42 | 3300.001 | 55 | 3.073 | 7.10 | 11.83 | 20.40 | 13.444 | 14.09 |
| 6/14/2017 16:43 | 3360.001 | 56 | 3.074 | 7.10 | 11.84 | 20.39 | 13.442 | 14.084 |
| 6/14/2017 16:44 | 3420.001 | 57 | 3.075 | 7.10 | 11.84 | 20.39 | 13.439 | 14.06 |
| 6/14/2017 16:45 | 3480.001 | 58 | 3.074 | 7.10 | 11.84 | 20.39 | 13.442 | 14.058 |
| 6/14/2017 16:46 | 3540.001 | 59 | 3.076 | 7.10 | 11.84 | 20.39 | 13.438 | 14.079 |
| 6/14/2017 16:47 | 3600.001 | 60 | 3.076 | 7.10 | 11.84 | 20.39 | 13.438 | 14.065 |
| 6/14/2017 16:48 | 3660.001 | 61 | 3.077 | 7.10 | 11.84 | 20.39 | 13.436 | 14.087 |
| 6/14/2017 16:49 | 3720.001 | 62 | 3.078 | 7.11 | 11.84 | 20.39 | 13.433 | 14.076 |
| 6/14/2017 16:50 | 3780.001 | 63 | 3.08 | 7.11 | 11.85 | 20.38 | 13.429 | 14.091 |
| 6/14/2017 16:51 | 3840.001 | 64 | 3.078 | 7.11 | 11.84 | 20.39 | 13.432 | 14.086 |
| 6/14/2017 16:52 | 3900.001 | 65 | 3.082 | 7.12 | 11.85 | 20.38 | 13.423 | 14.062 |

| | | | | | | | | |
|-----------------|----------|-----|-------|------|-------|-------|--------|--------|
| 6/14/2017 16:53 | 3960.001 | 66 | 3.08 | 7.11 | 11.85 | 20.38 | 13.428 | 14.086 |
| 6/14/2017 16:54 | 4020.001 | 67 | 3.082 | 7.12 | 11.85 | 20.38 | 13.423 | 14.066 |
| 6/14/2017 16:55 | 4080.001 | 68 | 3.078 | 7.11 | 11.84 | 20.39 | 13.432 | 14.075 |
| 6/14/2017 16:56 | 4140.001 | 69 | 3.084 | 7.12 | 11.86 | 20.37 | 13.418 | 14.068 |
| 6/14/2017 16:57 | 4200.001 | 70 | 3.082 | 7.12 | 11.85 | 20.38 | 13.424 | 14.086 |
| 6/14/2017 16:58 | 4260.001 | 71 | 3.082 | 7.12 | 11.85 | 20.38 | 13.424 | 14.068 |
| 6/14/2017 16:59 | 4320.001 | 72 | 3.084 | 7.12 | 11.86 | 20.37 | 13.419 | 14.067 |
| 6/14/2017 17:00 | 4380.001 | 73 | 3.086 | 7.13 | 11.86 | 20.37 | 13.414 | 14.074 |
| 6/14/2017 17:01 | 4440.001 | 74 | 3.083 | 7.12 | 11.86 | 20.37 | 13.42 | 14.066 |
| 6/14/2017 17:02 | 4500.001 | 75 | 3.083 | 7.12 | 11.86 | 20.37 | 13.421 | 14.06 |
| 6/14/2017 17:03 | 4560.001 | 76 | 3.086 | 7.13 | 11.86 | 20.37 | 13.415 | 14.051 |
| 6/14/2017 17:04 | 4620.001 | 77 | 3.087 | 7.13 | 11.87 | 20.36 | 13.411 | 14.072 |
| 6/14/2017 17:05 | 4680.001 | 78 | 3.085 | 7.12 | 11.86 | 20.37 | 13.415 | 14.048 |
| 6/14/2017 17:06 | 4740.001 | 79 | 3.088 | 7.13 | 11.87 | 20.36 | 13.408 | 14.05 |
| 6/14/2017 17:07 | 4800.001 | 80 | 3.089 | 7.13 | 11.87 | 20.36 | 13.408 | 14.051 |
| 6/14/2017 17:08 | 4860.001 | 81 | 3.088 | 7.13 | 11.87 | 20.36 | 13.41 | 14.051 |
| 6/14/2017 17:09 | 4920.001 | 82 | 3.089 | 7.13 | 11.87 | 20.36 | 13.407 | 14.065 |
| 6/14/2017 17:10 | 4980.001 | 83 | 3.089 | 7.13 | 11.87 | 20.36 | 13.407 | 14.042 |
| 6/14/2017 17:11 | 5040.001 | 84 | 3.09 | 7.13 | 11.87 | 20.36 | 13.404 | 14.079 |
| 6/14/2017 17:12 | 5100.001 | 85 | 3.09 | 7.13 | 11.87 | 20.36 | 13.404 | 14.052 |
| 6/14/2017 17:13 | 5160.001 | 86 | 3.089 | 7.13 | 11.87 | 20.36 | 13.408 | 14.067 |
| 6/14/2017 17:14 | 5220.001 | 87 | 3.091 | 7.14 | 11.87 | 20.36 | 13.401 | 14.05 |
| 6/14/2017 17:15 | 5280.001 | 88 | 3.093 | 7.14 | 11.88 | 20.35 | 13.399 | 14.073 |
| 6/14/2017 17:16 | 5340.001 | 89 | 3.091 | 7.14 | 11.87 | 20.36 | 13.402 | 14.049 |
| 6/14/2017 17:17 | 5400.001 | 90 | 3.094 | 7.14 | 11.88 | 20.35 | 13.396 | 14.051 |
| 6/14/2017 17:18 | 5460.001 | 91 | 3.094 | 7.14 | 11.88 | 20.35 | 13.395 | 14.068 |
| 6/14/2017 17:19 | 5520.001 | 92 | 3.092 | 7.14 | 11.88 | 20.35 | 13.399 | 14.035 |
| 6/14/2017 17:20 | 5580.001 | 93 | 3.091 | 7.14 | 11.87 | 20.36 | 13.403 | 14.062 |
| 6/14/2017 17:21 | 5640.001 | 94 | 3.093 | 7.14 | 11.88 | 20.35 | 13.398 | 14.068 |
| 6/14/2017 17:22 | 5700.001 | 95 | 3.095 | 7.15 | 11.88 | 20.35 | 13.394 | 14.025 |
| 6/14/2017 17:23 | 5760.001 | 96 | 3.093 | 7.14 | 11.88 | 20.35 | 13.398 | 14.079 |
| 6/14/2017 17:24 | 5820.001 | 97 | 3.095 | 7.15 | 11.88 | 20.35 | 13.394 | 14.047 |
| 6/14/2017 17:25 | 5880.001 | 98 | 3.096 | 7.15 | 11.89 | 20.34 | 13.391 | 14.053 |
| 6/14/2017 17:26 | 5940.001 | 99 | 3.096 | 7.15 | 11.89 | 20.34 | 13.39 | 14.064 |
| 6/14/2017 17:27 | 6000.001 | 100 | 3.096 | 7.15 | 11.89 | 20.34 | 13.392 | 14.065 |
| 6/14/2017 17:28 | 6060.001 | 101 | 3.096 | 7.15 | 11.89 | 20.34 | 13.39 | 14.048 |
| 6/14/2017 17:29 | 6120.001 | 102 | 3.095 | 7.15 | 11.88 | 20.35 | 13.394 | 14.049 |
| 6/14/2017 17:30 | 6180.001 | 103 | 3.096 | 7.15 | 11.89 | 20.34 | 13.392 | 14.049 |
| 6/14/2017 17:31 | 6240.001 | 104 | 3.094 | 7.14 | 11.88 | 20.35 | 13.395 | 14.029 |
| 6/14/2017 17:32 | 6300.001 | 105 | 3.096 | 7.15 | 11.89 | 20.34 | 13.391 | 14.061 |
| 6/14/2017 17:33 | 6360.001 | 106 | 3.097 | 7.15 | 11.89 | 20.34 | 13.389 | 14.051 |
| 6/14/2017 17:34 | 6420.001 | 107 | 3.097 | 7.15 | 11.89 | 20.34 | 13.389 | 14.022 |
| 6/14/2017 17:35 | 6480.001 | 108 | 3.098 | 7.15 | 11.89 | 20.34 | 13.387 | 14.054 |
| 6/14/2017 17:36 | 6540.001 | 109 | 3.099 | 7.16 | 11.89 | 20.34 | 13.384 | 14.051 |
| 6/14/2017 17:37 | 6600.001 | 110 | 3.099 | 7.16 | 11.89 | 20.34 | 13.385 | 14.051 |
| 6/14/2017 17:38 | 6660.001 | 111 | 3.101 | 7.16 | 11.90 | 20.33 | 13.379 | 14.071 |
| 6/14/2017 17:39 | 6720.001 | 112 | 3.099 | 7.16 | 11.89 | 20.34 | 13.384 | 14.058 |

| | | | | | | | | |
|-----------------|----------|-----|-------|------|-------|-------|--------|--------|
| 6/14/2017 17:40 | 6780.001 | 113 | 3.099 | 7.16 | 11.89 | 20.34 | 13.385 | 14.057 |
| 6/14/2017 17:41 | 6840.001 | 114 | 3.101 | 7.16 | 11.90 | 20.33 | 13.38 | 14.071 |
| 6/14/2017 17:42 | 6900.001 | 115 | 3.099 | 7.16 | 11.89 | 20.34 | 13.384 | 14.065 |
| 6/14/2017 17:43 | 6960.001 | 116 | 3.101 | 7.16 | 11.90 | 20.33 | 13.379 | 14.061 |
| 6/14/2017 17:44 | 7020.001 | 117 | 3.099 | 7.16 | 11.89 | 20.34 | 13.384 | 14.05 |
| 6/14/2017 17:45 | 7080.001 | 118 | 3.101 | 7.16 | 11.90 | 20.33 | 13.379 | 14.054 |
| 6/14/2017 17:46 | 7140.001 | 119 | 3.1 | 7.16 | 11.90 | 20.33 | 13.381 | 14.054 |
| 6/14/2017 17:47 | 7200.001 | 120 | 3.1 | 7.16 | 11.90 | 20.33 | 13.381 | 14.06 |
| 6/14/2017 17:48 | 7260.001 | 121 | 3.1 | 7.16 | 11.90 | 20.33 | 13.381 | 14.046 |
| 6/14/2017 17:49 | 7320.001 | 122 | 3.104 | 7.17 | 11.90 | 20.33 | 13.373 | 14.052 |
| 6/14/2017 17:50 | 7380.001 | 123 | 3.103 | 7.16 | 11.90 | 20.33 | 13.376 | 14.07 |
| 6/14/2017 17:51 | 7440.001 | 124 | 3.101 | 7.16 | 11.90 | 20.33 | 13.38 | 14.073 |
| 6/14/2017 17:52 | 7500.001 | 125 | 3.102 | 7.16 | 11.90 | 20.33 | 13.378 | 14.07 |
| 6/14/2017 17:53 | 7560.001 | 126 | 3.103 | 7.16 | 11.90 | 20.33 | 13.375 | 14.049 |
| 6/14/2017 17:54 | 7620.001 | 127 | 3.103 | 7.16 | 11.90 | 20.33 | 13.374 | 14.038 |
| 6/14/2017 17:55 | 7680.001 | 128 | 3.105 | 7.17 | 11.91 | 20.32 | 13.37 | 14.042 |
| 6/14/2017 17:56 | 7740.001 | 129 | 3.103 | 7.16 | 11.90 | 20.33 | 13.375 | 14.055 |
| 6/14/2017 17:57 | 7800.001 | 130 | 3.103 | 7.16 | 11.90 | 20.33 | 13.375 | 14.036 |
| 6/14/2017 17:58 | 7860.001 | 131 | 3.105 | 7.17 | 11.91 | 20.32 | 13.37 | 14.046 |
| 6/14/2017 17:59 | 7920.001 | 132 | 3.106 | 7.17 | 11.91 | 20.32 | 13.368 | 14.046 |
| 6/14/2017 18:00 | 7980.001 | 133 | 3.102 | 7.16 | 11.90 | 20.33 | 13.376 | 14.06 |
| 6/14/2017 18:01 | 8040.001 | 134 | 3.105 | 7.17 | 11.91 | 20.32 | 13.371 | 14.063 |
| 6/14/2017 18:02 | 8100.001 | 135 | 3.105 | 7.17 | 11.91 | 20.32 | 13.37 | 14.066 |
| 6/14/2017 18:03 | 8160.001 | 136 | 3.105 | 7.17 | 11.91 | 20.32 | 13.371 | 14.03 |
| 6/14/2017 18:04 | 8220.001 | 137 | 3.106 | 7.17 | 11.91 | 20.32 | 13.368 | 14.053 |
| 6/14/2017 18:05 | 8280.001 | 138 | 3.108 | 7.18 | 11.91 | 20.32 | 13.363 | 14.039 |
| 6/14/2017 18:06 | 8340.001 | 139 | 3.106 | 7.17 | 11.91 | 20.32 | 13.368 | 14.052 |
| 6/14/2017 18:07 | 8400.001 | 140 | 3.105 | 7.17 | 11.91 | 20.32 | 13.371 | 14.041 |
| 6/14/2017 18:08 | 8460.001 | 141 | 3.108 | 7.18 | 11.91 | 20.32 | 13.364 | 14.062 |
| 6/14/2017 18:09 | 8520.001 | 142 | 3.105 | 7.17 | 11.91 | 20.32 | 13.37 | 14.05 |
| 6/14/2017 18:10 | 8580.001 | 143 | 3.104 | 7.17 | 11.90 | 20.33 | 13.372 | 14.054 |
| 6/14/2017 18:11 | 8640.001 | 144 | 3.109 | 7.18 | 11.92 | 20.31 | 13.361 | 14.056 |
| 6/14/2017 18:12 | 8700.001 | 145 | 3.109 | 7.18 | 11.92 | 20.31 | 13.361 | 14.041 |
| 6/14/2017 18:13 | 8760.001 | 146 | 3.109 | 7.18 | 11.92 | 20.31 | 13.362 | 14.051 |
| 6/14/2017 18:14 | 8820.001 | 147 | 3.11 | 7.18 | 11.92 | 20.31 | 13.358 | 14.067 |
| 6/14/2017 18:15 | 8880.001 | 148 | 3.109 | 7.18 | 11.92 | 20.31 | 13.361 | 14.063 |
| 6/14/2017 18:16 | 8940.001 | 149 | 3.11 | 7.18 | 11.92 | 20.31 | 13.359 | 14.041 |
| 6/14/2017 18:17 | 9000.001 | 150 | 3.109 | 7.18 | 11.92 | 20.31 | 13.36 | 14.065 |
| 6/14/2017 18:18 | 9060.001 | 151 | 3.111 | 7.18 | 11.92 | 20.31 | 13.356 | 14.055 |
| 6/14/2017 18:19 | 9120.001 | 152 | 3.108 | 7.18 | 11.91 | 20.32 | 13.364 | 14.034 |
| 6/14/2017 18:20 | 9180.001 | 153 | 3.112 | 7.19 | 11.92 | 20.31 | 13.354 | 14.054 |
| 6/14/2017 18:21 | 9240.001 | 154 | 3.109 | 7.18 | 11.92 | 20.31 | 13.36 | 14.054 |
| 6/14/2017 18:22 | 9300.001 | 155 | 3.109 | 7.18 | 11.92 | 20.31 | 13.361 | 14.054 |
| 6/14/2017 18:23 | 9360.001 | 156 | 3.11 | 7.18 | 11.92 | 20.31 | 13.358 | 14.053 |
| 6/14/2017 18:24 | 9420.001 | 157 | 3.11 | 7.18 | 11.92 | 20.31 | 13.36 | 14.026 |
| 6/14/2017 18:25 | 9480.001 | 158 | 3.11 | 7.18 | 11.92 | 20.31 | 13.358 | 14.034 |
| 6/14/2017 18:26 | 9540.001 | 159 | 3.111 | 7.18 | 11.92 | 20.31 | 13.356 | 14.047 |

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| 6/14/2017 18:27 | 9600.001 | 160 | 3.111 | 7.18 | 11.92 | 20.31 | 13.356 | 14.07 |
| 6/14/2017 18:28 | 9660.001 | 161 | 3.111 | 7.18 | 11.92 | 20.31 | 13.356 | 13.999 |
| 6/14/2017 18:29 | 9720.001 | 162 | 3.109 | 7.18 | 11.92 | 20.31 | 13.36 | 14.046 |
| 6/14/2017 18:30 | 9780.001 | 163 | 3.112 | 7.19 | 11.92 | 20.31 | 13.354 | 14.043 |
| 6/14/2017 18:31 | 9840.001 | 164 | 3.114 | 7.19 | 11.93 | 20.30 | 13.349 | 14.049 |
| 6/14/2017 18:32 | 9900.001 | 165 | 3.115 | 7.19 | 11.93 | 20.30 | 13.347 | 14.046 |
| 6/14/2017 18:33 | 9960.001 | 166 | 3.113 | 7.19 | 11.93 | 20.30 | 13.351 | 14.016 |
| 6/14/2017 18:34 | 10020.001 | 167 | 3.111 | 7.18 | 11.92 | 20.31 | 13.355 | 14.044 |
| 6/14/2017 18:35 | 10080.001 | 168 | 3.111 | 7.18 | 11.92 | 20.31 | 13.356 | 14.025 |
| 6/14/2017 18:36 | 10140.001 | 169 | 3.113 | 7.19 | 11.93 | 20.30 | 13.352 | 14.036 |
| 6/14/2017 18:37 | 10200.001 | 170 | 3.112 | 7.19 | 11.92 | 20.31 | 13.354 | 14.041 |
| 6/14/2017 18:38 | 10260.001 | 171 | 3.115 | 7.19 | 11.93 | 20.30 | 13.348 | 14.051 |
| 6/14/2017 18:39 | 10320.001 | 172 | 3.116 | 7.19 | 11.93 | 20.30 | 13.346 | 14.019 |
| 6/14/2017 18:40 | 10380.001 | 173 | 3.114 | 7.19 | 11.93 | 20.30 | 13.35 | 14.023 |
| 6/14/2017 18:41 | 10440.001 | 174 | 3.114 | 7.19 | 11.93 | 20.30 | 13.349 | 14.039 |
| 6/14/2017 18:42 | 10500.001 | 175 | 3.114 | 7.19 | 11.93 | 20.30 | 13.348 | 14.074 |
| 6/14/2017 18:43 | 10560.001 | 176 | 3.117 | 7.20 | 11.93 | 20.30 | 13.344 | 14.051 |
| 6/14/2017 18:44 | 10620.001 | 177 | 3.114 | 7.19 | 11.93 | 20.30 | 13.349 | 14.049 |
| 6/14/2017 18:45 | 10680.001 | 178 | 3.115 | 7.19 | 11.93 | 20.30 | 13.346 | 14.049 |
| 6/14/2017 18:46 | 10740.001 | 179 | 3.116 | 7.19 | 11.93 | 20.30 | 13.345 | 14.051 |
| 6/14/2017 18:47 | 10800.001 | 180 | 3.113 | 7.19 | 11.93 | 20.30 | 13.351 | 14.025 |
| 6/14/2017 18:48 | 10860.001 | 181 | 3.117 | 7.20 | 11.93 | 20.30 | 13.343 | 14.023 |
| 6/14/2017 18:49 | 10920.001 | 182 | 3.117 | 7.20 | 11.93 | 20.30 | 13.343 | 14.042 |
| 6/14/2017 18:50 | 10980.001 | 183 | 3.115 | 7.19 | 11.93 | 20.30 | 13.347 | 14.044 |
| 6/14/2017 18:51 | 11040.001 | 184 | 3.116 | 7.19 | 11.93 | 20.30 | 13.345 | 14.05 |
| 6/14/2017 18:52 | 11100.001 | 185 | 3.119 | 7.20 | 11.94 | 20.29 | 13.338 | 14.02 |
| 6/14/2017 18:53 | 11160.001 | 186 | 3.117 | 7.20 | 11.93 | 20.30 | 13.342 | 14.043 |
| 6/14/2017 18:54 | 11220.001 | 187 | 3.117 | 7.20 | 11.93 | 20.30 | 13.343 | 14.063 |
| 6/14/2017 18:55 | 11280.001 | 188 | 3.119 | 7.20 | 11.94 | 20.29 | 13.338 | 14.036 |
| 6/14/2017 18:56 | 11340.001 | 189 | 3.118 | 7.20 | 11.94 | 20.29 | 13.34 | 14.029 |
| 6/14/2017 18:57 | 11400.001 | 190 | 3.117 | 7.20 | 11.93 | 20.30 | 13.342 | 14.046 |
| 6/14/2017 18:58 | 11460.001 | 191 | 3.119 | 7.20 | 11.94 | 20.29 | 13.338 | 14.029 |
| 6/14/2017 18:59 | 11520.001 | 192 | 3.118 | 7.20 | 11.94 | 20.29 | 13.34 | 14.042 |
| 6/14/2017 19:00 | 11580.001 | 193 | 3.118 | 7.20 | 11.94 | 20.29 | 13.341 | 14.032 |
| 6/14/2017 19:01 | 11640.001 | 194 | 3.117 | 7.20 | 11.93 | 20.30 | 13.343 | 14.05 |
| 6/14/2017 19:02 | 11700.001 | 195 | 3.118 | 7.20 | 11.94 | 20.29 | 13.339 | 14.05 |
| 6/14/2017 19:03 | 11760.001 | 196 | 3.118 | 7.20 | 11.94 | 20.29 | 13.34 | 14.054 |
| 6/14/2017 19:04 | 11820.001 | 197 | 3.121 | 7.21 | 11.94 | 20.29 | 13.333 | 14.035 |
| 6/14/2017 19:05 | 11880.001 | 198 | 3.115 | 7.19 | 11.93 | 20.30 | 13.348 | 14.037 |
| 6/14/2017 19:06 | 11940.001 | 199 | 3.118 | 7.20 | 11.94 | 20.29 | 13.34 | 14.031 |
| 6/14/2017 19:07 | 12000.001 | 200 | 3.119 | 7.20 | 11.94 | 20.29 | 13.338 | 14.037 |
| 6/14/2017 19:08 | 12060.001 | 201 | 3.118 | 7.20 | 11.94 | 20.29 | 13.341 | 14.051 |
| 6/14/2017 19:09 | 12120.001 | 202 | 3.119 | 7.20 | 11.94 | 20.29 | 13.338 | 14.031 |
| 6/14/2017 19:10 | 12180.001 | 203 | 3.12 | 7.20 | 11.94 | 20.29 | 13.335 | 14.049 |
| 6/14/2017 19:11 | 12240.001 | 204 | 3.119 | 7.20 | 11.94 | 20.29 | 13.337 | 14.01 |
| 6/14/2017 19:12 | 12300.001 | 205 | 3.121 | 7.21 | 11.94 | 20.29 | 13.332 | 14.04 |
| 6/14/2017 19:13 | 12360.001 | 206 | 3.121 | 7.21 | 11.94 | 20.29 | 13.334 | 14.033 |

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| 6/14/2017 19:14 | 12420.001 | 207 | 3.121 | 7.21 | 11.94 | 20.29 | 13.334 | 14.046 |
| 6/14/2017 19:15 | 12480.001 | 208 | 3.122 | 7.21 | 11.95 | 20.28 | 13.33 | 14.042 |
| 6/14/2017 19:16 | 12540.001 | 209 | 3.121 | 7.21 | 11.94 | 20.29 | 13.332 | 14.041 |
| 6/14/2017 19:17 | 12600.001 | 210 | 3.12 | 7.20 | 11.94 | 20.29 | 13.335 | 14.027 |
| 6/14/2017 19:18 | 12660.001 | 211 | 3.121 | 7.21 | 11.94 | 20.29 | 13.334 | 14.045 |
| 6/14/2017 19:19 | 12720.001 | 212 | 3.122 | 7.21 | 11.95 | 20.28 | 13.33 | 14.037 |
| 6/14/2017 19:20 | 12780.001 | 213 | 3.121 | 7.21 | 11.94 | 20.29 | 13.333 | 14.027 |
| 6/14/2017 19:21 | 12840.001 | 214 | 3.121 | 7.21 | 11.94 | 20.29 | 13.334 | 14.017 |
| 6/14/2017 19:22 | 12900.001 | 215 | 3.122 | 7.21 | 11.95 | 20.28 | 13.331 | 14.049 |
| 6/14/2017 19:23 | 12960.001 | 216 | 3.121 | 7.21 | 11.94 | 20.29 | 13.333 | 14.03 |
| 6/14/2017 19:24 | 13020.001 | 217 | 3.121 | 7.21 | 11.94 | 20.29 | 13.333 | 14.035 |
| 6/14/2017 19:25 | 13080.001 | 218 | 3.124 | 7.21 | 11.95 | 20.28 | 13.327 | 14.035 |
| 6/14/2017 19:26 | 13140.001 | 219 | 3.121 | 7.21 | 11.94 | 20.29 | 13.332 | 14.053 |
| 6/14/2017 19:27 | 13200.001 | 220 | 3.125 | 7.22 | 11.95 | 20.28 | 13.324 | 14.044 |
| 6/14/2017 19:28 | 13260.001 | 221 | 3.125 | 7.22 | 11.95 | 20.28 | 13.324 | 14.052 |
| 6/14/2017 19:29 | 13320.001 | 222 | 3.125 | 7.22 | 11.95 | 20.28 | 13.324 | 14.013 |
| 6/14/2017 19:30 | 13380.001 | 223 | 3.122 | 7.21 | 11.95 | 20.28 | 13.331 | 14.022 |
| 6/14/2017 19:31 | 13440.001 | 224 | 3.125 | 7.22 | 11.95 | 20.28 | 13.324 | 14.054 |
| 6/14/2017 19:32 | 13500.001 | 225 | 3.125 | 7.22 | 11.95 | 20.28 | 13.324 | 14.054 |
| 6/14/2017 19:33 | 13560.001 | 226 | 3.126 | 7.22 | 11.96 | 20.27 | 13.323 | 14.023 |
| 6/14/2017 19:34 | 13620.001 | 227 | 3.126 | 7.22 | 11.96 | 20.27 | 13.321 | 14.051 |
| 6/14/2017 19:35 | 13680.001 | 228 | 3.125 | 7.22 | 11.95 | 20.28 | 13.323 | 14.023 |
| 6/14/2017 19:36 | 13740.001 | 229 | 3.124 | 7.21 | 11.95 | 20.28 | 13.326 | 14.028 |
| 6/14/2017 19:37 | 13800.001 | 230 | 3.128 | 7.22 | 11.96 | 20.27 | 13.318 | 14.047 |
| 6/14/2017 19:38 | 13860.001 | 231 | 3.123 | 7.21 | 11.95 | 20.28 | 13.329 | 14.033 |
| 6/14/2017 19:39 | 13920.001 | 232 | 3.126 | 7.22 | 11.96 | 20.27 | 13.323 | 14.016 |
| 6/14/2017 19:40 | 13980.001 | 233 | 3.124 | 7.21 | 11.95 | 20.28 | 13.326 | 14.032 |
| 6/14/2017 19:41 | 14040.001 | 234 | 3.125 | 7.22 | 11.95 | 20.28 | 13.323 | 14.031 |
| 6/14/2017 19:42 | 14100.001 | 235 | 3.124 | 7.21 | 11.95 | 20.28 | 13.327 | 14.016 |
| 6/14/2017 19:43 | 14160.001 | 236 | 3.127 | 7.22 | 11.96 | 20.27 | 13.319 | 14.021 |
| 6/14/2017 19:44 | 14220.001 | 237 | 3.126 | 7.22 | 11.96 | 20.27 | 13.323 | 14.039 |
| 6/14/2017 19:45 | 14280.001 | 238 | 3.126 | 7.22 | 11.96 | 20.27 | 13.323 | 14.025 |
| 6/14/2017 19:46 | 14340.001 | 239 | 3.127 | 7.22 | 11.96 | 20.27 | 13.32 | 14.032 |
| 6/14/2017 19:47 | 14400.001 | 240 | 3.127 | 7.22 | 11.96 | 20.27 | 13.32 | 13.993 |
| 6/14/2017 19:48 | 14460.001 | 241 | 3.127 | 7.22 | 11.96 | 20.27 | 13.319 | 14.032 |
| 6/14/2017 19:49 | 14520.001 | 242 | 3.128 | 7.22 | 11.96 | 20.27 | 13.316 | 14.032 |
| 6/14/2017 19:50 | 14580.001 | 243 | 3.13 | 7.23 | 11.96 | 20.27 | 13.313 | 14.028 |
| 6/14/2017 19:51 | 14640.001 | 244 | 3.13 | 7.23 | 11.96 | 20.27 | 13.313 | 14.026 |
| 6/14/2017 19:52 | 14700.001 | 245 | 3.129 | 7.22 | 11.96 | 20.27 | 13.315 | 14.024 |
| 6/14/2017 19:53 | 14760.001 | 246 | 3.126 | 7.22 | 11.96 | 20.27 | 13.322 | 14.028 |
| 6/14/2017 19:54 | 14820.001 | 247 | 3.129 | 7.22 | 11.96 | 20.27 | 13.314 | 14.032 |
| 6/14/2017 19:55 | 14880.001 | 248 | 3.127 | 7.22 | 11.96 | 20.27 | 13.32 | 14.041 |
| 6/14/2017 19:56 | 14940.001 | 249 | 3.129 | 7.22 | 11.96 | 20.27 | 13.316 | 14.05 |
| 6/14/2017 19:57 | 15000.001 | 250 | 3.129 | 7.22 | 11.96 | 20.27 | 13.315 | 14.018 |
| 6/14/2017 19:58 | 15060.001 | 251 | 3.13 | 7.23 | 11.96 | 20.27 | 13.312 | 14.035 |
| 6/14/2017 19:59 | 15120.001 | 252 | 3.127 | 7.22 | 11.96 | 20.27 | 13.319 | 14.009 |
| 6/14/2017 20:00 | 15180.001 | 253 | 3.129 | 7.22 | 11.96 | 20.27 | 13.315 | 14.029 |

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| 6/14/2017 20:01 | 15240.001 | 254 | 3.129 | 7.22 | 11.96 | 20.27 | 13.315 | 14.035 |
| 6/14/2017 20:02 | 15300.001 | 255 | 3.128 | 7.22 | 11.96 | 20.27 | 13.318 | 14.037 |
| 6/14/2017 20:03 | 15360.001 | 256 | 3.129 | 7.22 | 11.96 | 20.27 | 13.315 | 14.026 |
| 6/14/2017 20:04 | 15420.001 | 257 | 3.13 | 7.23 | 11.96 | 20.27 | 13.314 | 14.028 |
| 6/14/2017 20:05 | 15480.001 | 258 | 3.13 | 7.23 | 11.96 | 20.27 | 13.313 | 14.024 |
| 6/14/2017 20:06 | 15540.001 | 259 | 3.13 | 7.23 | 11.96 | 20.27 | 13.314 | 14.014 |
| 6/14/2017 20:07 | 15600.001 | 260 | 3.13 | 7.23 | 11.96 | 20.27 | 13.312 | 14.002 |
| 6/14/2017 20:08 | 15660.001 | 261 | 3.13 | 7.23 | 11.96 | 20.27 | 13.313 | 14.043 |
| 6/14/2017 20:09 | 15720.001 | 262 | 3.13 | 7.23 | 11.96 | 20.27 | 13.312 | 14.026 |
| 6/14/2017 20:10 | 15780.001 | 263 | 3.132 | 7.23 | 11.97 | 20.26 | 13.309 | 14.034 |
| 6/14/2017 20:11 | 15840.001 | 264 | 3.13 | 7.23 | 11.96 | 20.27 | 13.313 | 14.018 |
| 6/14/2017 20:12 | 15900.001 | 265 | 3.131 | 7.23 | 11.97 | 20.26 | 13.31 | 14.005 |
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| 6/14/2017 20:14 | 16020.001 | 267 | 3.131 | 7.23 | 11.97 | 20.26 | 13.311 | 14.049 |
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| 6/14/2017 20:16 | 16140.001 | 269 | 3.131 | 7.23 | 11.97 | 20.26 | 13.31 | 14.018 |
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| 6/14/2017 20:18 | 16260.001 | 271 | 3.132 | 7.23 | 11.97 | 20.26 | 13.308 | 14.013 |
| 6/14/2017 20:19 | 16320.001 | 272 | 3.132 | 7.23 | 11.97 | 20.26 | 13.307 | 14.027 |
| 6/14/2017 20:20 | 16380.001 | 273 | 3.132 | 7.23 | 11.97 | 20.26 | 13.309 | 14.044 |
| 6/14/2017 20:21 | 16440.001 | 274 | 3.134 | 7.24 | 11.97 | 20.26 | 13.303 | 14.037 |
| 6/14/2017 20:22 | 16500.001 | 275 | 3.135 | 7.24 | 11.98 | 20.25 | 13.301 | 14.043 |
| 6/14/2017 20:23 | 16560.001 | 276 | 3.132 | 7.23 | 11.97 | 20.26 | 13.308 | 14.012 |
| 6/14/2017 20:24 | 16620.001 | 277 | 3.133 | 7.23 | 11.97 | 20.26 | 13.306 | 14.041 |
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| 6/14/2017 20:26 | 16740.001 | 279 | 3.133 | 7.23 | 11.97 | 20.26 | 13.305 | 14.035 |
| 6/14/2017 20:27 | 16800.001 | 280 | 3.135 | 7.24 | 11.98 | 20.25 | 13.301 | 14.052 |
| 6/14/2017 20:28 | 16860.001 | 281 | 3.134 | 7.24 | 11.97 | 20.26 | 13.303 | 14.044 |
| 6/14/2017 20:29 | 16920.001 | 282 | 3.134 | 7.24 | 11.97 | 20.26 | 13.303 | 14.039 |
| 6/14/2017 20:30 | 16980.001 | 283 | 3.136 | 7.24 | 11.98 | 20.25 | 13.299 | 14.058 |
| 6/14/2017 20:31 | 17040.001 | 284 | 3.134 | 7.24 | 11.97 | 20.26 | 13.304 | 14.041 |
| 6/14/2017 20:32 | 17100.001 | 285 | 3.134 | 7.24 | 11.97 | 20.26 | 13.303 | 14.03 |
| 6/14/2017 20:33 | 17160.001 | 286 | 3.131 | 7.23 | 11.97 | 20.26 | 13.31 | 14.05 |
| 6/14/2017 20:34 | 17220.001 | 287 | 3.134 | 7.24 | 11.97 | 20.26 | 13.303 | 14.035 |
| 6/14/2017 20:35 | 17280.001 | 288 | 3.134 | 7.24 | 11.97 | 20.26 | 13.302 | 14.028 |
| 6/14/2017 20:36 | 17340.001 | 289 | 3.134 | 7.24 | 11.97 | 20.26 | 13.304 | 14.022 |
| 6/14/2017 20:37 | 17400.001 | 290 | 3.135 | 7.24 | 11.98 | 20.25 | 13.301 | 13.998 |
| 6/14/2017 20:38 | 17460.001 | 291 | 3.136 | 7.24 | 11.98 | 20.25 | 13.3 | 14.029 |
| 6/14/2017 20:39 | 17520.001 | 292 | 3.134 | 7.24 | 11.97 | 20.26 | 13.302 | 14.037 |
| 6/14/2017 20:40 | 17580.001 | 293 | 3.135 | 7.24 | 11.98 | 20.25 | 13.301 | 14.043 |
| 6/14/2017 20:41 | 17640.001 | 294 | 3.135 | 7.24 | 11.98 | 20.25 | 13.302 | 14.02 |
| 6/14/2017 20:42 | 17700.001 | 295 | 3.134 | 7.24 | 11.97 | 20.26 | 13.303 | 14.026 |
| 6/14/2017 20:43 | 17760.001 | 296 | 3.135 | 7.24 | 11.98 | 20.25 | 13.302 | 14.046 |
| 6/14/2017 20:44 | 17820.001 | 297 | 3.136 | 7.24 | 11.98 | 20.25 | 13.3 | 14.023 |
| 6/14/2017 20:45 | 17880.001 | 298 | 3.138 | 7.25 | 11.98 | 20.25 | 13.295 | 14.029 |
| 6/14/2017 20:46 | 17940.001 | 299 | 3.135 | 7.24 | 11.98 | 20.25 | 13.3 | 14.015 |
| 6/14/2017 20:47 | 18000.001 | 300 | 3.137 | 7.24 | 11.98 | 20.25 | 13.296 | 14.019 |

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| 6/14/2017 20:48 | 18060.001 | 301 | 3.136 | 7.24 | 11.98 | 20.25 | 13.299 | 14.027 |
| 6/14/2017 20:49 | 18120.001 | 302 | 3.136 | 7.24 | 11.98 | 20.25 | 13.3 | 14.014 |
| 6/14/2017 20:50 | 18180.001 | 303 | 3.136 | 7.24 | 11.98 | 20.25 | 13.3 | 14.02 |
| 6/14/2017 20:51 | 18240.001 | 304 | 3.135 | 7.24 | 11.98 | 20.25 | 13.301 | 14.032 |
| 6/14/2017 20:52 | 18300.001 | 305 | 3.138 | 7.25 | 11.98 | 20.25 | 13.294 | 14.023 |
| 6/14/2017 20:53 | 18360.001 | 306 | 3.138 | 7.25 | 11.98 | 20.25 | 13.295 | 13.999 |
| 6/14/2017 20:54 | 18420.001 | 307 | 3.138 | 7.25 | 11.98 | 20.25 | 13.294 | 14.014 |
| 6/14/2017 20:55 | 18480.001 | 308 | 3.138 | 7.25 | 11.98 | 20.25 | 13.294 | 14.027 |
| 6/14/2017 20:56 | 18540.001 | 309 | 3.137 | 7.24 | 11.98 | 20.25 | 13.296 | 14.019 |
| 6/14/2017 20:57 | 18600.001 | 310 | 3.138 | 7.25 | 11.98 | 20.25 | 13.294 | 14.032 |
| 6/14/2017 20:58 | 18660.001 | 311 | 3.137 | 7.24 | 11.98 | 20.25 | 13.295 | 14.035 |
| 6/14/2017 20:59 | 18720.001 | 312 | 3.137 | 7.24 | 11.98 | 20.25 | 13.296 | 14.018 |
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| 6/14/2017 21:01 | 18840.001 | 314 | 3.139 | 7.25 | 11.99 | 20.24 | 13.292 | 14.013 |
| 6/14/2017 21:02 | 18900.001 | 315 | 3.137 | 7.24 | 11.98 | 20.25 | 13.295 | 14.01 |
| 6/14/2017 21:03 | 18960.001 | 316 | 3.136 | 7.24 | 11.98 | 20.25 | 13.298 | 14.021 |
| 6/14/2017 21:04 | 19020.001 | 317 | 3.137 | 7.24 | 11.98 | 20.25 | 13.296 | 14.037 |
| 6/14/2017 21:05 | 19080.001 | 318 | 3.14 | 7.25 | 11.99 | 20.24 | 13.29 | 14.002 |
| 6/14/2017 21:06 | 19140.001 | 319 | 3.139 | 7.25 | 11.99 | 20.24 | 13.292 | 14.023 |
| 6/14/2017 21:07 | 19200.001 | 320 | 3.141 | 7.25 | 11.99 | 20.24 | 13.287 | 14.008 |
| 6/14/2017 21:08 | 19260.001 | 321 | 3.139 | 7.25 | 11.99 | 20.24 | 13.292 | 14.019 |
| 6/14/2017 21:09 | 19320.001 | 322 | 3.139 | 7.25 | 11.99 | 20.24 | 13.293 | 14.024 |
| 6/14/2017 21:10 | 19380.001 | 323 | 3.139 | 7.25 | 11.99 | 20.24 | 13.293 | 14.013 |
| 6/14/2017 21:11 | 19440.001 | 324 | 3.137 | 7.24 | 11.98 | 20.25 | 13.297 | 14.029 |
| 6/14/2017 21:12 | 19500.001 | 325 | 3.138 | 7.25 | 11.98 | 20.25 | 13.293 | 14.013 |
| 6/14/2017 21:13 | 19560.001 | 326 | 3.14 | 7.25 | 11.99 | 20.24 | 13.29 | 14.021 |
| 6/14/2017 21:14 | 19620.001 | 327 | 3.138 | 7.25 | 11.98 | 20.25 | 13.294 | 14.022 |
| 6/14/2017 21:15 | 19680.001 | 328 | 3.139 | 7.25 | 11.99 | 20.24 | 13.292 | 14.002 |
| 6/14/2017 21:16 | 19740.001 | 329 | 3.14 | 7.25 | 11.99 | 20.24 | 13.289 | 13.997 |
| 6/14/2017 21:17 | 19800.001 | 330 | 3.141 | 7.25 | 11.99 | 20.24 | 13.287 | 14.026 |
| 6/14/2017 21:18 | 19860.001 | 331 | 3.138 | 7.25 | 11.98 | 20.25 | 13.293 | 14.026 |
| 6/14/2017 21:19 | 19920.001 | 332 | 3.139 | 7.25 | 11.99 | 20.24 | 13.291 | 14.029 |
| 6/14/2017 21:20 | 19980.001 | 333 | 3.141 | 7.25 | 11.99 | 20.24 | 13.287 | 14.009 |
| 6/14/2017 21:21 | 20040.001 | 334 | 3.141 | 7.25 | 11.99 | 20.24 | 13.288 | 14.019 |
| 6/14/2017 21:22 | 20100.001 | 335 | 3.14 | 7.25 | 11.99 | 20.24 | 13.288 | 14.034 |
| 6/14/2017 21:23 | 20160.001 | 336 | 3.139 | 7.25 | 11.99 | 20.24 | 13.291 | 14.027 |
| 6/14/2017 21:24 | 20220.001 | 337 | 3.14 | 7.25 | 11.99 | 20.24 | 13.289 | 14.004 |
| 6/14/2017 21:25 | 20280.001 | 338 | 3.139 | 7.25 | 11.99 | 20.24 | 13.291 | 13.994 |
| 6/14/2017 21:26 | 20340.001 | 339 | 3.14 | 7.25 | 11.99 | 20.24 | 13.289 | 14.023 |
| 6/14/2017 21:27 | 20400.001 | 340 | 3.138 | 7.25 | 11.98 | 20.25 | 13.295 | 14.045 |
| 6/14/2017 21:28 | 20460.001 | 341 | 3.139 | 7.25 | 11.99 | 20.24 | 13.291 | 13.997 |
| 6/14/2017 21:29 | 20520.001 | 342 | 3.139 | 7.25 | 11.99 | 20.24 | 13.292 | 14.043 |
| 6/14/2017 21:30 | 20580.001 | 343 | 3.142 | 7.25 | 11.99 | 20.24 | 13.285 | 14.02 |
| 6/14/2017 21:31 | 20640.001 | 344 | 3.142 | 7.25 | 11.99 | 20.24 | 13.285 | 14.025 |
| 6/14/2017 21:32 | 20700.001 | 345 | 3.141 | 7.25 | 11.99 | 20.24 | 13.287 | 14.017 |
| 6/14/2017 21:33 | 20760.001 | 346 | 3.143 | 7.26 | 11.99 | 20.24 | 13.283 | 14.03 |
| 6/14/2017 21:34 | 20820.001 | 347 | 3.14 | 7.25 | 11.99 | 20.24 | 13.289 | 14.036 |

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| 6/14/2017 21:35 | 20880.001 | 348 | 3.139 | 7.25 | 11.99 | 20.24 | 13.291 | 13.999 |
| 6/14/2017 21:36 | 20940.001 | 349 | 3.141 | 7.25 | 11.99 | 20.24 | 13.286 | 14.031 |
| 6/14/2017 21:37 | 21000.001 | 350 | 3.139 | 7.25 | 11.99 | 20.24 | 13.291 | 14.024 |
| 6/14/2017 21:38 | 21060.001 | 351 | 3.14 | 7.25 | 11.99 | 20.24 | 13.288 | 14.005 |
| 6/14/2017 21:39 | 21120.001 | 352 | 3.141 | 7.25 | 11.99 | 20.24 | 13.287 | 14.013 |
| 6/14/2017 21:40 | 21180.001 | 353 | 3.14 | 7.25 | 11.99 | 20.24 | 13.289 | 14.028 |
| 6/14/2017 21:41 | 21240.001 | 354 | 3.144 | 7.26 | 12.00 | 20.23 | 13.28 | 14.04 |
| 6/14/2017 21:42 | 21300.001 | 355 | 3.142 | 7.25 | 11.99 | 20.24 | 13.284 | 13.996 |
| 6/14/2017 21:43 | 21360.001 | 356 | 3.14 | 7.25 | 11.99 | 20.24 | 13.291 | 14.024 |
| 6/14/2017 21:44 | 21420.001 | 357 | 3.142 | 7.25 | 11.99 | 20.24 | 13.284 | 14.003 |
| 6/14/2017 21:45 | 21480.001 | 358 | 3.14 | 7.25 | 11.99 | 20.24 | 13.291 | 14.019 |
| 6/14/2017 21:46 | 21540.001 | 359 | 3.144 | 7.26 | 12.00 | 20.23 | 13.28 | 14.013 |
| 6/14/2017 21:47 | 21600.001 | 360 | 3.143 | 7.26 | 11.99 | 20.24 | 13.283 | 14.034 |
| 6/14/2017 21:48 | 21660.001 | 361 | 3.143 | 7.26 | 11.99 | 20.24 | 13.283 | 13.997 |
| 6/14/2017 21:49 | 21720.001 | 362 | 3.142 | 7.25 | 11.99 | 20.24 | 13.285 | 14.044 |
| 6/14/2017 21:50 | 21780.001 | 363 | 3.141 | 7.25 | 11.99 | 20.24 | 13.286 | 14.035 |
| 6/14/2017 21:51 | 21840.001 | 364 | 3.141 | 7.25 | 11.99 | 20.24 | 13.287 | 13.994 |
| 6/14/2017 21:52 | 21900.001 | 365 | 3.142 | 7.25 | 11.99 | 20.24 | 13.286 | 14.017 |
| 6/14/2017 21:53 | 21960.001 | 366 | 3.143 | 7.26 | 11.99 | 20.24 | 13.282 | 14.007 |
| 6/14/2017 21:54 | 22020.001 | 367 | 3.142 | 7.25 | 11.99 | 20.24 | 13.285 | 14.01 |
| 6/14/2017 21:55 | 22080.001 | 368 | 3.141 | 7.25 | 11.99 | 20.24 | 13.288 | 14.03 |
| 6/14/2017 21:56 | 22140.001 | 369 | 3.144 | 7.26 | 12.00 | 20.23 | 13.28 | 14.031 |
| 6/14/2017 21:57 | 22200.001 | 370 | 3.141 | 7.25 | 11.99 | 20.24 | 13.287 | 14.024 |
| 6/14/2017 21:58 | 22260.001 | 371 | 3.141 | 7.25 | 11.99 | 20.24 | 13.286 | 14.016 |
| 6/14/2017 21:59 | 22320.001 | 372 | 3.142 | 7.25 | 11.99 | 20.24 | 13.285 | 14.002 |
| 6/14/2017 22:00 | 22380.001 | 373 | 3.141 | 7.25 | 11.99 | 20.24 | 13.286 | 14.02 |
| 6/14/2017 22:01 | 22440.001 | 374 | 3.144 | 7.26 | 12.00 | 20.23 | 13.28 | 14.008 |
| 6/14/2017 22:02 | 22500.001 | 375 | 3.143 | 7.26 | 11.99 | 20.24 | 13.283 | 14.024 |
| 6/14/2017 22:03 | 22560.001 | 376 | 3.142 | 7.25 | 11.99 | 20.24 | 13.284 | 14.012 |
| 6/14/2017 22:04 | 22620.001 | 377 | 3.144 | 7.26 | 12.00 | 20.23 | 13.28 | 14.02 |
| 6/14/2017 22:05 | 22680.001 | 378 | 3.143 | 7.26 | 11.99 | 20.24 | 13.283 | 14.005 |
| 6/14/2017 22:06 | 22740.001 | 379 | 3.144 | 7.26 | 12.00 | 20.23 | 13.279 | 14.021 |
| 6/14/2017 22:07 | 22800.001 | 380 | 3.143 | 7.26 | 11.99 | 20.24 | 13.281 | 14.015 |
| 6/14/2017 22:08 | 22860.001 | 381 | 3.144 | 7.26 | 12.00 | 20.23 | 13.28 | 14.01 |
| 6/14/2017 22:09 | 22920.001 | 382 | 3.142 | 7.25 | 11.99 | 20.24 | 13.285 | 14.027 |
| 6/14/2017 22:10 | 22980.001 | 383 | 3.143 | 7.26 | 11.99 | 20.24 | 13.283 | 13.994 |
| 6/14/2017 22:11 | 23040.001 | 384 | 3.143 | 7.26 | 11.99 | 20.24 | 13.282 | 14.024 |
| 6/14/2017 22:12 | 23100.001 | 385 | 3.144 | 7.26 | 12.00 | 20.23 | 13.28 | 14.034 |
| 6/14/2017 22:13 | 23160.001 | 386 | 3.144 | 7.26 | 12.00 | 20.23 | 13.28 | 14.002 |
| 6/14/2017 22:14 | 23220.001 | 387 | 3.146 | 7.26 | 12.00 | 20.23 | 13.275 | 14.011 |
| 6/14/2017 22:15 | 23280.001 | 388 | 3.145 | 7.26 | 12.00 | 20.23 | 13.279 | 14.013 |
| 6/14/2017 22:16 | 23340.001 | 389 | 3.143 | 7.26 | 11.99 | 20.24 | 13.282 | 14.017 |
| 6/14/2017 22:17 | 23400.001 | 390 | 3.144 | 7.26 | 12.00 | 20.23 | 13.281 | 14.013 |
| 6/14/2017 22:18 | 23460.001 | 391 | 3.144 | 7.26 | 12.00 | 20.23 | 13.279 | 14.035 |
| 6/14/2017 22:19 | 23520.001 | 392 | 3.144 | 7.26 | 12.00 | 20.23 | 13.28 | 14.031 |
| 6/14/2017 22:20 | 23580.001 | 393 | 3.144 | 7.26 | 12.00 | 20.23 | 13.281 | 14.002 |
| 6/14/2017 22:21 | 23640.001 | 394 | 3.145 | 7.26 | 12.00 | 20.23 | 13.279 | 14.031 |

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| 6/14/2017 22:22 | 23700.001 | 395 | 3.142 | 7.25 | 11.99 | 20.24 | 13.284 | 14.043 |
| 6/14/2017 22:23 | 23760.001 | 396 | 3.145 | 7.26 | 12.00 | 20.23 | 13.279 | 14.016 |
| 6/14/2017 22:24 | 23820.001 | 397 | 3.144 | 7.26 | 12.00 | 20.23 | 13.281 | 14.012 |
| 6/14/2017 22:25 | 23880.001 | 398 | 3.146 | 7.26 | 12.00 | 20.23 | 13.275 | 13.993 |
| 6/14/2017 22:26 | 23940.001 | 399 | 3.145 | 7.26 | 12.00 | 20.23 | 13.279 | 14.024 |
| 6/14/2017 22:27 | 24000.001 | 400 | 3.144 | 7.26 | 12.00 | 20.23 | 13.28 | 13.991 |
| 6/14/2017 22:28 | 24060.001 | 401 | 3.147 | 7.27 | 12.00 | 20.23 | 13.273 | 14.018 |
| 6/14/2017 22:29 | 24120.001 | 402 | 3.145 | 7.26 | 12.00 | 20.23 | 13.278 | 14.018 |
| 6/14/2017 22:30 | 24180.001 | 403 | 3.146 | 7.26 | 12.00 | 20.23 | 13.275 | 14.008 |
| 6/14/2017 22:31 | 24240.001 | 404 | 3.142 | 7.25 | 11.99 | 20.24 | 13.284 | 14.025 |
| 6/14/2017 22:32 | 24300.001 | 405 | 3.144 | 7.26 | 12.00 | 20.23 | 13.279 | 14.016 |
| 6/14/2017 22:33 | 24360.001 | 406 | 3.146 | 7.26 | 12.00 | 20.23 | 13.275 | 13.995 |
| 6/14/2017 22:34 | 24420.001 | 407 | 3.144 | 7.26 | 12.00 | 20.23 | 13.279 | 14.016 |
| 6/14/2017 22:35 | 24480.001 | 408 | 3.144 | 7.26 | 12.00 | 20.23 | 13.28 | 14.014 |
| 6/14/2017 22:36 | 24540.001 | 409 | 3.145 | 7.26 | 12.00 | 20.23 | 13.278 | 14.016 |
| 6/14/2017 22:37 | 24600.001 | 410 | 3.145 | 7.26 | 12.00 | 20.23 | 13.277 | 14.04 |
| 6/14/2017 22:38 | 24660.001 | 411 | 3.142 | 7.25 | 11.99 | 20.24 | 13.284 | 14.007 |
| 6/14/2017 22:39 | 24720.001 | 412 | 3.144 | 7.26 | 12.00 | 20.23 | 13.281 | 14.013 |
| 6/14/2017 22:40 | 24780.001 | 413 | 3.145 | 7.26 | 12.00 | 20.23 | 13.277 | 14.005 |
| 6/14/2017 22:41 | 24840.001 | 414 | 3.147 | 7.27 | 12.00 | 20.23 | 13.273 | 14.028 |
| 6/14/2017 22:42 | 24900.001 | 415 | 3.145 | 7.26 | 12.00 | 20.23 | 13.279 | 14.015 |
| 6/14/2017 22:43 | 24960.001 | 416 | 3.147 | 7.27 | 12.00 | 20.23 | 13.273 | 14.026 |
| 6/14/2017 22:44 | 25020.001 | 417 | 3.146 | 7.26 | 12.00 | 20.23 | 13.275 | 13.99 |
| 6/14/2017 22:45 | 25080.001 | 418 | 3.145 | 7.26 | 12.00 | 20.23 | 13.278 | 13.999 |
| 6/14/2017 22:46 | 25140.001 | 419 | 3.147 | 7.27 | 12.00 | 20.23 | 13.273 | 14.034 |
| 6/14/2017 22:47 | 25200.001 | 420 | 3.147 | 7.27 | 12.00 | 20.23 | 13.272 | 13.997 |
| 6/14/2017 22:48 | 25260.001 | 421 | 3.148 | 7.27 | 12.01 | 20.22 | 13.275 | 14.013 |
| 6/14/2017 22:49 | 25320.001 | 422 | 3.146 | 7.26 | 12.00 | 20.23 | 13.275 | 14.015 |
| 6/14/2017 22:50 | 25380.001 | 423 | 3.145 | 7.26 | 12.00 | 20.23 | 13.279 | 14.015 |
| 6/14/2017 22:51 | 25440.001 | 424 | 3.147 | 7.27 | 12.00 | 20.23 | 13.274 | 14.01 |
| 6/14/2017 22:52 | 25500.001 | 425 | 3.147 | 7.27 | 12.00 | 20.23 | 13.274 | 14.023 |
| 6/14/2017 22:53 | 25560.001 | 426 | 3.146 | 7.26 | 12.00 | 20.23 | 13.275 | 14.005 |
| 6/14/2017 22:54 | 25620.001 | 427 | 3.143 | 7.26 | 11.99 | 20.24 | 13.283 | 14.032 |
| 6/14/2017 22:55 | 25680.001 | 428 | 3.15 | 7.27 | 12.01 | 20.22 | 13.266 | 14.014 |
| 6/14/2017 22:56 | 25740.001 | 429 | 3.148 | 7.27 | 12.01 | 20.22 | 13.272 | 14.002 |
| 6/14/2017 22:57 | 25800.001 | 430 | 3.149 | 7.27 | 12.01 | 20.22 | 13.269 | 14.015 |
| 6/14/2017 22:58 | 25860.001 | 431 | 3.149 | 7.27 | 12.01 | 20.22 | 13.27 | 14.024 |
| 6/14/2017 22:59 | 25920.001 | 432 | 3.148 | 7.27 | 12.01 | 20.22 | 13.271 | 13.994 |
| 6/14/2017 23:00 | 25980.001 | 433 | 3.147 | 7.27 | 12.00 | 20.23 | 13.272 | 14.002 |
| 6/14/2017 23:01 | 26040.001 | 434 | 3.147 | 7.27 | 12.00 | 20.23 | 13.274 | 13.995 |
| 6/14/2017 23:02 | 26100.001 | 435 | 3.148 | 7.27 | 12.01 | 20.22 | 13.271 | 14.031 |
| 6/14/2017 23:03 | 26160.001 | 436 | 3.148 | 7.27 | 12.01 | 20.22 | 13.27 | 14.018 |
| 6/14/2017 23:04 | 26220.001 | 437 | 3.149 | 7.27 | 12.01 | 20.22 | 13.268 | 14.012 |
| 6/14/2017 23:05 | 26280.001 | 438 | 3.147 | 7.27 | 12.00 | 20.23 | 13.273 | 14.024 |
| 6/14/2017 23:06 | 26340.001 | 439 | 3.146 | 7.26 | 12.00 | 20.23 | 13.275 | 14.019 |
| 6/14/2017 23:07 | 26400.001 | 440 | 3.15 | 7.27 | 12.01 | 20.22 | 13.266 | 14.024 |
| 6/14/2017 23:08 | 26460.001 | 441 | 3.148 | 7.27 | 12.01 | 20.22 | 13.271 | 13.999 |

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| 6/14/2017 23:09 | 26520.001 | 442 | 3.146 | 7.26 | 12.00 | 20.23 | 13.277 | 13.972 |
| 6/14/2017 23:10 | 26580.001 | 443 | 3.149 | 7.27 | 12.01 | 20.22 | 13.269 | 14.013 |
| 6/14/2017 23:11 | 26640.001 | 444 | 3.15 | 7.27 | 12.01 | 20.22 | 13.267 | 14.019 |
| 6/14/2017 23:12 | 26700.001 | 445 | 3.148 | 7.27 | 12.01 | 20.22 | 13.272 | 14.019 |
| 6/14/2017 23:13 | 26760.001 | 446 | 3.148 | 7.27 | 12.01 | 20.22 | 13.27 | 14.026 |
| 6/14/2017 23:14 | 26820.001 | 447 | 3.149 | 7.27 | 12.01 | 20.22 | 13.27 | 14.007 |
| 6/14/2017 23:15 | 26880.001 | 448 | 3.149 | 7.27 | 12.01 | 20.22 | 13.27 | 14.002 |
| 6/14/2017 23:16 | 26940.001 | 449 | 3.15 | 7.27 | 12.01 | 20.22 | 13.267 | 13.991 |
| 6/14/2017 23:17 | 27000.001 | 450 | 3.15 | 7.27 | 12.01 | 20.22 | 13.266 | 14.002 |
| 6/14/2017 23:18 | 27060.001 | 451 | 3.149 | 7.27 | 12.01 | 20.22 | 13.269 | 14.005 |
| 6/14/2017 23:19 | 27120.001 | 452 | 3.15 | 7.27 | 12.01 | 20.22 | 13.267 | 14.004 |
| 6/14/2017 23:20 | 27180.001 | 453 | 3.149 | 7.27 | 12.01 | 20.22 | 13.268 | 13.991 |
| 6/14/2017 23:21 | 27240.001 | 454 | 3.149 | 7.27 | 12.01 | 20.22 | 13.269 | 14.002 |
| 6/14/2017 23:22 | 27300.001 | 455 | 3.149 | 7.27 | 12.01 | 20.22 | 13.268 | 14.019 |
| 6/14/2017 23:23 | 27360.001 | 456 | 3.151 | 7.28 | 12.01 | 20.22 | 13.263 | 13.993 |
| 6/14/2017 23:24 | 27420.001 | 457 | 3.15 | 7.27 | 12.01 | 20.22 | 13.267 | 14.018 |
| 6/14/2017 23:25 | 27480.001 | 458 | 3.15 | 7.27 | 12.01 | 20.22 | 13.266 | 14 |
| 6/14/2017 23:26 | 27540.001 | 459 | 3.154 | 7.28 | 12.02 | 20.21 | 13.258 | 14.024 |
| 6/14/2017 23:27 | 27600.001 | 460 | 3.149 | 7.27 | 12.01 | 20.22 | 13.268 | 14.023 |
| 6/14/2017 23:28 | 27660.001 | 461 | 3.152 | 7.28 | 12.02 | 20.21 | 13.262 | 14.014 |
| 6/14/2017 23:29 | 27720.001 | 462 | 3.148 | 7.27 | 12.01 | 20.22 | 13.271 | 14.01 |
| 6/14/2017 23:30 | 27780.001 | 463 | 3.153 | 7.28 | 12.02 | 20.21 | 13.26 | 14.002 |
| 6/14/2017 23:31 | 27840.001 | 464 | 3.151 | 7.28 | 12.01 | 20.22 | 13.264 | 14.008 |
| 6/14/2017 23:32 | 27900.001 | 465 | 3.151 | 7.28 | 12.01 | 20.22 | 13.263 | 13.998 |
| 6/14/2017 23:33 | 27960.001 | 466 | 3.153 | 7.28 | 12.02 | 20.21 | 13.259 | 14.003 |
| 6/14/2017 23:34 | 28020.001 | 467 | 3.151 | 7.28 | 12.01 | 20.22 | 13.263 | 14.021 |
| 6/14/2017 23:35 | 28080.001 | 468 | 3.151 | 7.28 | 12.01 | 20.22 | 13.263 | 14.008 |
| 6/14/2017 23:36 | 28140.001 | 469 | 3.153 | 7.28 | 12.02 | 20.21 | 13.26 | 13.992 |
| 6/14/2017 23:37 | 28200.001 | 470 | 3.153 | 7.28 | 12.02 | 20.21 | 13.259 | 14.006 |
| 6/14/2017 23:38 | 28260.001 | 471 | 3.153 | 7.28 | 12.02 | 20.21 | 13.259 | 14.014 |
| 6/14/2017 23:39 | 28320.001 | 472 | 3.154 | 7.28 | 12.02 | 20.21 | 13.258 | 14.019 |
| 6/14/2017 23:40 | 28380.001 | 473 | 3.152 | 7.28 | 12.02 | 20.21 | 13.262 | 14.024 |
| 6/14/2017 23:41 | 28440.001 | 474 | 3.152 | 7.28 | 12.02 | 20.21 | 13.261 | 13.993 |
| 6/14/2017 23:42 | 28500.001 | 475 | 3.152 | 7.28 | 12.02 | 20.21 | 13.262 | 13.997 |
| 6/14/2017 23:43 | 28560.001 | 476 | 3.153 | 7.28 | 12.02 | 20.21 | 13.259 | 14.009 |
| 6/14/2017 23:44 | 28620.001 | 477 | 3.153 | 7.28 | 12.02 | 20.21 | 13.259 | 13.993 |
| 6/14/2017 23:45 | 28680.001 | 478 | 3.153 | 7.28 | 12.02 | 20.21 | 13.26 | 13.991 |
| 6/14/2017 23:46 | 28740.001 | 479 | 3.152 | 7.28 | 12.02 | 20.21 | 13.262 | 13.999 |
| 6/14/2017 23:47 | 28800.001 | 480 | 3.153 | 7.28 | 12.02 | 20.21 | 13.259 | 14.002 |
| 6/14/2017 23:48 | 28860.001 | 481 | 3.154 | 7.28 | 12.02 | 20.21 | 13.257 | 14.002 |
| 6/14/2017 23:49 | 28920.001 | 482 | 3.157 | 7.29 | 12.03 | 20.20 | 13.25 | 13.983 |
| 6/14/2017 23:50 | 28980.001 | 483 | 3.154 | 7.28 | 12.02 | 20.21 | 13.256 | 13.999 |
| 6/14/2017 23:51 | 29040.001 | 484 | 3.154 | 7.28 | 12.02 | 20.21 | 13.257 | 13.988 |
| 6/14/2017 23:52 | 29100.001 | 485 | 3.154 | 7.28 | 12.02 | 20.21 | 13.258 | 13.988 |
| 6/14/2017 23:53 | 29160.001 | 486 | 3.154 | 7.28 | 12.02 | 20.21 | 13.256 | 14.007 |
| 6/14/2017 23:54 | 29220.001 | 487 | 3.153 | 7.28 | 12.02 | 20.21 | 13.259 | 13.985 |
| 6/14/2017 23:55 | 29280.001 | 488 | 3.154 | 7.28 | 12.02 | 20.21 | 13.256 | 14.022 |

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| 6/14/2017 23:56 | 29340.001 | 489 | 3.154 | 7.28 | 12.02 | 20.21 | 13.258 | 14.021 |
| 6/14/2017 23:57 | 29400.001 | 490 | 3.155 | 7.28 | 12.02 | 20.21 | 13.254 | 13.997 |
| 6/14/2017 23:58 | 29460.001 | 491 | 3.155 | 7.28 | 12.02 | 20.21 | 13.256 | 14.025 |
| 6/14/2017 23:59 | 29520.001 | 492 | 3.153 | 7.28 | 12.02 | 20.21 | 13.258 | 13.999 |
| 6/15/2017 0:00 | 29580.001 | 493 | 3.153 | 7.28 | 12.02 | 20.21 | 13.26 | 13.986 |
| 6/15/2017 0:01 | 29640.001 | 494 | 3.153 | 7.28 | 12.02 | 20.21 | 13.26 | 14.007 |
| 6/15/2017 0:02 | 29700.001 | 495 | 3.154 | 7.28 | 12.02 | 20.21 | 13.258 | 13.991 |
| 6/15/2017 0:03 | 29760.001 | 496 | 3.156 | 7.29 | 12.02 | 20.21 | 13.258 | 14.005 |
| 6/15/2017 0:04 | 29820.001 | 497 | 3.154 | 7.28 | 12.02 | 20.21 | 13.256 | 14.003 |
| 6/15/2017 0:05 | 29880.001 | 498 | 3.154 | 7.28 | 12.02 | 20.21 | 13.258 | 13.987 |
| 6/15/2017 0:06 | 29940.001 | 499 | 3.154 | 7.28 | 12.02 | 20.21 | 13.258 | 13.982 |
| 6/15/2017 0:07 | 30000.001 | 500 | 3.155 | 7.28 | 12.02 | 20.21 | 13.255 | 13.999 |
| 6/15/2017 0:08 | 30060.001 | 501 | 3.155 | 7.28 | 12.02 | 20.21 | 13.255 | 14.027 |
| 6/15/2017 0:09 | 30120.001 | 502 | 3.157 | 7.29 | 12.03 | 20.20 | 13.251 | 13.999 |
| 6/15/2017 0:10 | 30180.001 | 503 | 3.154 | 7.28 | 12.02 | 20.21 | 13.257 | 14 |
| 6/15/2017 0:11 | 30240.001 | 504 | 3.157 | 7.29 | 12.03 | 20.20 | 13.25 | 14.018 |
| 6/15/2017 0:12 | 30300.001 | 505 | 3.156 | 7.29 | 12.03 | 20.21 | 13.252 | 14 |
| 6/15/2017 0:13 | 30360.001 | 506 | 3.154 | 7.28 | 12.02 | 20.21 | 13.256 | 14.008 |
| 6/15/2017 0:14 | 30420.001 | 507 | 3.155 | 7.28 | 12.02 | 20.21 | 13.254 | 13.999 |
| 6/15/2017 0:15 | 30480.001 | 508 | 3.153 | 7.28 | 12.02 | 20.21 | 13.261 | 13.986 |
| 6/15/2017 0:16 | 30540.001 | 509 | 3.154 | 7.28 | 12.02 | 20.21 | 13.256 | 13.998 |
| 6/15/2017 0:17 | 30600.001 | 510 | 3.155 | 7.28 | 12.02 | 20.21 | 13.255 | 14.019 |
| 6/15/2017 0:18 | 30660.001 | 511 | 3.154 | 7.28 | 12.02 | 20.21 | 13.252 | 14.022 |
| 6/15/2017 0:19 | 30720.001 | 512 | 3.154 | 7.28 | 12.02 | 20.21 | 13.257 | 14.005 |
| 6/15/2017 0:20 | 30780.001 | 513 | 3.156 | 7.29 | 12.03 | 20.20 | 13.25 | 14.012 |
| 6/15/2017 0:21 | 30840.001 | 514 | 3.157 | 7.29 | 12.03 | 20.20 | 13.25 | 13.999 |
| 6/15/2017 0:22 | 30900.001 | 515 | 3.157 | 7.29 | 12.03 | 20.20 | 13.25 | 13.973 |
| 6/15/2017 0:23 | 30960.001 | 516 | 3.157 | 7.29 | 12.03 | 20.20 | 13.249 | 13.992 |
| 6/15/2017 0:24 | 31020.001 | 517 | 3.157 | 7.29 | 12.03 | 20.20 | 13.249 | 13.988 |
| 6/15/2017 0:25 | 31080.001 | 518 | 3.157 | 7.29 | 12.03 | 20.20 | 13.248 | 13.999 |
| 6/15/2017 0:26 | 31140.001 | 519 | 3.158 | 7.29 | 12.03 | 20.20 | 13.244 | 14.016 |
| 6/15/2017 0:27 | 31200.001 | 520 | 3.16 | 7.30 | 12.03 | 20.20 | 13.247 | 14.023 |
| 6/15/2017 0:28 | 31260.001 | 521 | 3.158 | 7.29 | 12.03 | 20.20 | 13.252 | 13.994 |
| 6/15/2017 0:29 | 31320.001 | 522 | 3.156 | 7.29 | 12.02 | 20.21 | 13.247 | 13.987 |
| 6/15/2017 0:30 | 31380.001 | 523 | 3.159 | 7.29 | 12.03 | 20.20 | 13.245 | 13.975 |
| 6/15/2017 0:31 | 31440.001 | 524 | 3.159 | 7.29 | 12.03 | 20.20 | 13.249 | 13.989 |
| 6/15/2017 0:32 | 31500.001 | 525 | 3.157 | 7.29 | 12.03 | 20.20 | 13.244 | 14.01 |
| 6/15/2017 0:33 | 31560.001 | 526 | 3.16 | 7.30 | 12.03 | 20.20 | 13.245 | 14.007 |
| 6/15/2017 0:34 | 31620.001 | 527 | 3.159 | 7.29 | 12.03 | 20.20 | 13.25 | 13.998 |
| 6/15/2017 0:35 | 31680.001 | 528 | 3.157 | 7.29 | 12.03 | 20.20 | 13.245 | 13.972 |
| 6/15/2017 0:36 | 31740.001 | 529 | 3.159 | 7.29 | 12.03 | 20.20 | 13.246 | 14.002 |
| 6/15/2017 0:37 | 31800.001 | 530 | 3.159 | 7.29 | 12.03 | 20.20 | 13.249 | 14.008 |
| 6/15/2017 0:38 | 31860.001 | 531 | 3.157 | 7.29 | 12.03 | 20.20 | 13.246 | 14.013 |
| 6/15/2017 0:39 | 31920.001 | 532 | 3.159 | 7.29 | 12.03 | 20.20 | 13.252 | 14.007 |
| 6/15/2017 0:40 | 31980.001 | 533 | 3.156 | 7.29 | 12.02 | 20.21 | 13.242 | 13.995 |
| 6/15/2017 0:41 | 32040.001 | 534 | 3.16 | 7.30 | 12.03 | 20.20 | 13.242 | 14.001 |
| 6/15/2017 0:42 | 32100.001 | 535 | 3.159 | 7.29 | 12.03 | 20.20 | 13.246 | |

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| 6/15/2017 0:43 | 32160.001 | 536 | 3.156 | 7.29 | 12.02 | 20.21 | 13.253 | 14.01 |
| 6/15/2017 0:44 | 32220.001 | 537 | 3.157 | 7.29 | 12.03 | 20.20 | 13.251 | 14.003 |
| 6/15/2017 0:45 | 32280.001 | 538 | 3.159 | 7.29 | 12.03 | 20.20 | 13.247 | 14.013 |
| 6/15/2017 0:46 | 32340.001 | 539 | 3.159 | 7.29 | 12.03 | 20.20 | 13.246 | 13.975 |
| 6/15/2017 0:47 | 32400.001 | 540 | 3.16 | 7.30 | 12.03 | 20.20 | 13.244 | 13.995 |
| 6/15/2017 0:48 | 32460.001 | 541 | 3.162 | 7.30 | 12.04 | 20.19 | 13.239 | 13.982 |
| 6/15/2017 0:49 | 32520.001 | 542 | 3.158 | 7.29 | 12.03 | 20.20 | 13.248 | 13.998 |
| 6/15/2017 0:50 | 32580.001 | 543 | 3.161 | 7.30 | 12.04 | 20.19 | 13.241 | 14.013 |
| 6/15/2017 0:51 | 32640.001 | 544 | 3.158 | 7.29 | 12.03 | 20.20 | 13.249 | 13.986 |
| 6/15/2017 0:52 | 32700.001 | 545 | 3.157 | 7.29 | 12.03 | 20.20 | 13.249 | 14.01 |
| 6/15/2017 0:53 | 32760.001 | 546 | 3.156 | 7.29 | 12.02 | 20.21 | 13.251 | 14.019 |
| 6/15/2017 0:54 | 32820.001 | 547 | 3.154 | 7.28 | 12.02 | 20.21 | 13.257 | 13.979 |
| 6/15/2017 0:55 | 32880.001 | 548 | 3.159 | 7.29 | 12.03 | 20.20 | 13.246 | 13.986 |
| 6/15/2017 0:56 | 32940.001 | 549 | 3.16 | 7.30 | 12.03 | 20.20 | 13.242 | 13.991 |
| 6/15/2017 0:57 | 33000.001 | 550 | 3.158 | 7.29 | 12.03 | 20.20 | 13.248 | 13.994 |
| 6/15/2017 0:58 | 33060.001 | 551 | 3.159 | 7.29 | 12.03 | 20.20 | 13.245 | 13.984 |
| 6/15/2017 0:59 | 33120.001 | 552 | 3.16 | 7.30 | 12.03 | 20.20 | 13.243 | 13.977 |
| 6/15/2017 1:00 | 33180.001 | 553 | 3.159 | 7.29 | 12.03 | 20.20 | 13.245 | 13.997 |
| 6/15/2017 1:01 | 33240.001 | 554 | 3.162 | 7.30 | 12.04 | 20.19 | 13.239 | 14.01 |
| 6/15/2017 1:02 | 33300.001 | 555 | 3.158 | 7.29 | 12.03 | 20.20 | 13.249 | 13.979 |
| 6/15/2017 1:03 | 33360.001 | 556 | 3.159 | 7.29 | 12.03 | 20.20 | 13.246 | 13.992 |
| 6/15/2017 1:04 | 33420.001 | 557 | 3.16 | 7.30 | 12.03 | 20.20 | 13.244 | 13.991 |
| 6/15/2017 1:05 | 33480.001 | 558 | 3.161 | 7.30 | 12.04 | 20.19 | 13.241 | 13.99 |
| 6/15/2017 1:06 | 33540.001 | 559 | 3.16 | 7.30 | 12.03 | 20.20 | 13.242 | 13.975 |
| 6/15/2017 1:07 | 33600.001 | 560 | 3.161 | 7.30 | 12.04 | 20.19 | 13.242 | 13.993 |
| 6/15/2017 1:08 | 33660.001 | 561 | 3.161 | 7.30 | 12.04 | 20.19 | 13.242 | 13.997 |
| 6/15/2017 1:09 | 33720.001 | 562 | 3.158 | 7.29 | 12.03 | 20.20 | 13.247 | 14.004 |
| 6/15/2017 1:10 | 33780.001 | 563 | 3.158 | 7.29 | 12.03 | 20.20 | 13.248 | 13.974 |
| 6/15/2017 1:11 | 33840.001 | 564 | 3.162 | 7.30 | 12.04 | 20.19 | 13.238 | 13.958 |
| 6/15/2017 1:12 | 33900.001 | 565 | 3.159 | 7.29 | 12.03 | 20.20 | 13.245 | 13.984 |
| 6/15/2017 1:13 | 33960.001 | 566 | 3.161 | 7.30 | 12.04 | 20.19 | 13.241 | 14.005 |
| 6/15/2017 1:14 | 34020.001 | 567 | 3.159 | 7.29 | 12.03 | 20.20 | 13.246 | 13.987 |
| 6/15/2017 1:15 | 34080.001 | 568 | 3.161 | 7.30 | 12.04 | 20.19 | 13.24 | 14.003 |
| 6/15/2017 1:16 | 34140.001 | 569 | 3.16 | 7.30 | 12.03 | 20.20 | 13.243 | 13.997 |
| 6/15/2017 1:17 | 34200.001 | 570 | 3.16 | 7.30 | 12.03 | 20.20 | 13.244 | 13.97 |
| 6/15/2017 1:18 | 34260.001 | 571 | 3.161 | 7.30 | 12.04 | 20.19 | 13.242 | 14.01 |
| 6/15/2017 1:19 | 34320.001 | 572 | 3.162 | 7.30 | 12.04 | 20.19 | 13.238 | 13.976 |
| 6/15/2017 1:20 | 34380.001 | 573 | 3.16 | 7.30 | 12.03 | 20.20 | 13.243 | 13.984 |
| 6/15/2017 1:21 | 34440.001 | 574 | 3.16 | 7.30 | 12.03 | 20.20 | 13.244 | 14.011 |
| 6/15/2017 1:22 | 34500.001 | 575 | 3.161 | 7.30 | 12.04 | 20.19 | 13.24 | 13.999 |
| 6/15/2017 1:23 | 34560.001 | 576 | 3.16 | 7.30 | 12.03 | 20.20 | 13.242 | 13.98 |
| 6/15/2017 1:24 | 34620.001 | 577 | 3.157 | 7.29 | 12.03 | 20.20 | 13.249 | 13.988 |
| 6/15/2017 1:25 | 34680.001 | 578 | 3.161 | 7.30 | 12.04 | 20.19 | 13.241 | 13.964 |
| 6/15/2017 1:26 | 34740.001 | 579 | 3.162 | 7.30 | 12.04 | 20.19 | 13.239 | 13.994 |
| 6/15/2017 1:27 | 34800.001 | 580 | 3.162 | 7.30 | 12.04 | 20.19 | 13.239 | 13.998 |
| 6/15/2017 1:28 | 34860.001 | 581 | 3.161 | 7.30 | 12.04 | 20.19 | 13.24 | 13.981 |
| 6/15/2017 1:29 | 34920.001 | 582 | 3.165 | 7.31 | 12.05 | 20.18 | 13.232 | 14.005 |

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|----------------|-----------|-----|-------|------|-------|-------|--------|--------|
| 6/15/2017 1:30 | 34980.001 | 583 | 3.16 | 7.30 | 12.03 | 20.20 | 13.244 | 13.986 |
| 6/15/2017 1:31 | 35040.001 | 584 | 3.16 | 7.30 | 12.03 | 20.20 | 13.243 | 13.988 |
| 6/15/2017 1:32 | 35100.001 | 585 | 3.159 | 7.29 | 12.03 | 20.20 | 13.246 | 13.992 |
| 6/15/2017 1:33 | 35160.001 | 586 | 3.16 | 7.30 | 12.03 | 20.20 | 13.242 | 13.975 |
| 6/15/2017 1:34 | 35220.001 | 587 | 3.161 | 7.30 | 12.04 | 20.19 | 13.24 | 14.008 |
| 6/15/2017 1:35 | 35280.001 | 588 | 3.161 | 7.30 | 12.04 | 20.19 | 13.241 | 13.971 |
| 6/15/2017 1:36 | 35340.001 | 589 | 3.16 | 7.30 | 12.03 | 20.20 | 13.244 | 13.965 |
| 6/15/2017 1:37 | 35400.001 | 590 | 3.163 | 7.30 | 12.04 | 20.19 | 13.236 | 13.992 |
| 6/15/2017 1:38 | 35460.001 | 591 | 3.16 | 7.30 | 12.03 | 20.20 | 13.242 | 13.991 |
| 6/15/2017 1:39 | 35520.001 | 592 | 3.162 | 7.30 | 12.04 | 20.19 | 13.238 | 14 |
| 6/15/2017 1:40 | 35580.001 | 593 | 3.162 | 7.30 | 12.04 | 20.19 | 13.238 | 13.979 |
| 6/15/2017 1:41 | 35640.001 | 594 | 3.161 | 7.30 | 12.04 | 20.19 | 13.241 | 13.983 |
| 6/15/2017 1:42 | 35700.001 | 595 | 3.162 | 7.30 | 12.04 | 20.19 | 13.239 | 13.991 |
| 6/15/2017 1:43 | 35760.001 | 596 | 3.163 | 7.30 | 12.04 | 20.19 | 13.236 | 13.956 |
| 6/15/2017 1:44 | 35820.001 | 597 | 3.162 | 7.30 | 12.04 | 20.19 | 13.238 | 13.997 |
| 6/15/2017 1:45 | 35880.001 | 598 | 3.161 | 7.30 | 12.04 | 20.19 | 13.241 | 13.985 |
| 6/15/2017 1:46 | 35940.001 | 599 | 3.162 | 7.30 | 12.04 | 20.19 | 13.24 | 13.989 |
| 6/15/2017 1:47 | 36000.001 | 600 | 3.167 | 7.31 | 12.05 | 20.18 | 13.228 | 14.01 |
| 6/15/2017 1:48 | 36060.001 | 601 | 3.161 | 7.30 | 12.04 | 20.19 | 13.242 | 13.991 |
| 6/15/2017 1:49 | 36120.001 | 602 | 3.165 | 7.31 | 12.05 | 20.18 | 13.231 | 13.993 |
| 6/15/2017 1:50 | 36180.001 | 603 | 3.161 | 7.30 | 12.04 | 20.19 | 13.24 | 13.991 |
| 6/15/2017 1:51 | 36240.001 | 604 | 3.16 | 7.30 | 12.03 | 20.20 | 13.244 | 14.007 |
| 6/15/2017 1:52 | 36300.001 | 605 | 3.162 | 7.30 | 12.04 | 20.19 | 13.239 | 14.008 |
| 6/15/2017 1:53 | 36360.001 | 606 | 3.162 | 7.30 | 12.04 | 20.19 | 13.238 | 13.991 |
| 6/15/2017 1:54 | 36420.001 | 607 | 3.163 | 7.30 | 12.04 | 20.19 | 13.236 | 13.979 |
| 6/15/2017 1:55 | 36480.001 | 608 | 3.164 | 7.31 | 12.04 | 20.19 | 13.235 | 13.983 |
| 6/15/2017 1:56 | 36540.001 | 609 | 3.163 | 7.30 | 12.04 | 20.19 | 13.236 | 13.989 |
| 6/15/2017 1:57 | 36600.001 | 610 | 3.162 | 7.30 | 12.04 | 20.19 | 13.239 | 13.989 |
| 6/15/2017 1:58 | 36660.001 | 611 | 3.167 | 7.31 | 12.05 | 20.18 | 13.228 | 14.005 |
| 6/15/2017 1:59 | 36720.001 | 612 | 3.162 | 7.30 | 12.04 | 20.19 | 13.238 | 13.989 |
| 6/15/2017 2:00 | 36780.001 | 613 | 3.164 | 7.31 | 12.04 | 20.19 | 13.234 | 13.954 |
| 6/15/2017 2:01 | 36840.001 | 614 | 3.164 | 7.31 | 12.04 | 20.19 | 13.234 | 14.016 |
| 6/15/2017 2:02 | 36900.001 | 615 | 3.166 | 7.31 | 12.05 | 20.18 | 13.229 | 13.986 |
| 6/15/2017 2:03 | 36960.001 | 616 | 3.164 | 7.31 | 12.04 | 20.19 | 13.234 | 13.993 |
| 6/15/2017 2:04 | 37020.001 | 617 | 3.163 | 7.30 | 12.04 | 20.19 | 13.235 | 13.991 |
| 6/15/2017 2:05 | 37080.001 | 618 | 3.163 | 7.30 | 12.04 | 20.19 | 13.236 | 13.973 |
| 6/15/2017 2:06 | 37140.001 | 619 | 3.164 | 7.31 | 12.04 | 20.19 | 13.235 | 14.002 |
| 6/15/2017 2:07 | 37200.001 | 620 | 3.162 | 7.30 | 12.04 | 20.19 | 13.238 | 14.001 |
| 6/15/2017 2:08 | 37260.001 | 621 | 3.164 | 7.31 | 12.04 | 20.19 | 13.233 | 13.991 |
| 6/15/2017 2:09 | 37320.001 | 622 | 3.163 | 7.30 | 12.04 | 20.19 | 13.237 | 13.993 |
| 6/15/2017 2:10 | 37380.001 | 623 | 3.164 | 7.31 | 12.04 | 20.19 | 13.235 | 13.97 |
| 6/15/2017 2:11 | 37440.001 | 624 | 3.159 | 7.29 | 12.03 | 20.20 | 13.245 | 13.994 |
| 6/15/2017 2:12 | 37500.001 | 625 | 3.164 | 7.31 | 12.04 | 20.19 | 13.234 | 13.994 |
| 6/15/2017 2:13 | 37560.001 | 626 | 3.166 | 7.31 | 12.05 | 20.18 | 13.228 | 13.986 |
| 6/15/2017 2:14 | 37620.001 | 627 | 3.165 | 7.31 | 12.05 | 20.18 | 13.232 | 13.977 |
| 6/15/2017 2:15 | 37680.001 | 628 | 3.164 | 7.31 | 12.04 | 20.19 | 13.234 | 13.994 |
| 6/15/2017 2:16 | 37740.001 | 629 | 3.165 | 7.31 | 12.05 | 20.18 | 13.232 | 13.967 |

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| 6/15/2017 2:17 | 37800.001 | 630 | 3.163 | 7.30 | 12.04 | 20.19 | 13.235 | 13.989 |
| 6/15/2017 2:18 | 37860.001 | 631 | 3.162 | 7.30 | 12.04 | 20.19 | 13.239 | 13.999 |
| 6/15/2017 2:19 | 37920.001 | 632 | 3.163 | 7.30 | 12.04 | 20.19 | 13.235 | 14.016 |
| 6/15/2017 2:20 | 37980.001 | 633 | 3.164 | 7.31 | 12.04 | 20.19 | 13.233 | 13.984 |
| 6/15/2017 2:21 | 38040.001 | 634 | 3.163 | 7.30 | 12.04 | 20.19 | 13.235 | 13.995 |
| 6/15/2017 2:22 | 38100.001 | 635 | 3.163 | 7.30 | 12.04 | 20.19 | 13.236 | 13.972 |
| 6/15/2017 2:23 | 38160.001 | 636 | 3.164 | 7.31 | 12.04 | 20.19 | 13.234 | 13.994 |
| 6/15/2017 2:24 | 38220.001 | 637 | 3.163 | 7.30 | 12.04 | 20.19 | 13.237 | 14 |
| 6/15/2017 2:25 | 38280.001 | 638 | 3.164 | 7.31 | 12.04 | 20.19 | 13.233 | 13.984 |
| 6/15/2017 2:26 | 38340.001 | 639 | 3.162 | 7.30 | 12.04 | 20.19 | 13.239 | 13.986 |
| 6/15/2017 2:27 | 38400.001 | 640 | 3.162 | 7.30 | 12.04 | 20.19 | 13.238 | 13.983 |
| 6/15/2017 2:28 | 38460.001 | 641 | 3.162 | 7.30 | 12.04 | 20.19 | 13.239 | 14 |
| 6/15/2017 2:29 | 38520.001 | 642 | 3.163 | 7.30 | 12.04 | 20.19 | 13.237 | 13.966 |
| 6/15/2017 2:30 | 38580.001 | 643 | 3.165 | 7.31 | 12.05 | 20.18 | 13.232 | 13.976 |
| 6/15/2017 2:31 | 38640.001 | 644 | 3.164 | 7.31 | 12.04 | 20.19 | 13.235 | 13.985 |
| 6/15/2017 2:32 | 38700.001 | 645 | 3.166 | 7.31 | 12.05 | 20.18 | 13.229 | 13.99 |
| 6/15/2017 2:33 | 38760.001 | 646 | 3.166 | 7.31 | 12.05 | 20.18 | 13.231 | 13.964 |
| 6/15/2017 2:34 | 38820.001 | 647 | 3.164 | 7.31 | 12.04 | 20.19 | 13.234 | 13.979 |
| 6/15/2017 2:35 | 38880.001 | 648 | 3.164 | 7.31 | 12.04 | 20.19 | 13.234 | 13.983 |
| 6/15/2017 2:36 | 38940.001 | 649 | 3.163 | 7.30 | 12.04 | 20.19 | 13.236 | 13.993 |
| 6/15/2017 2:37 | 39000.001 | 650 | 3.165 | 7.31 | 12.05 | 20.18 | 13.232 | 13.985 |
| 6/15/2017 2:38 | 39060.001 | 651 | 3.165 | 7.31 | 12.05 | 20.18 | 13.233 | 13.988 |
| 6/15/2017 2:39 | 39120.001 | 652 | 3.163 | 7.30 | 12.04 | 20.19 | 13.236 | 13.983 |
| 6/15/2017 2:40 | 39180.001 | 653 | 3.162 | 7.30 | 12.04 | 20.19 | 13.238 | 13.964 |
| 6/15/2017 2:41 | 39240.001 | 654 | 3.165 | 7.31 | 12.05 | 20.18 | 13.233 | 13.985 |
| 6/15/2017 2:42 | 39300.001 | 655 | 3.164 | 7.31 | 12.04 | 20.19 | 13.234 | 13.994 |
| 6/15/2017 2:43 | 39360.001 | 656 | 3.164 | 7.31 | 12.04 | 20.19 | 13.234 | 14.016 |
| 6/15/2017 2:44 | 39420.001 | 657 | 3.166 | 7.31 | 12.05 | 20.18 | 13.229 | 14.002 |
| 6/15/2017 2:45 | 39480.001 | 658 | 3.166 | 7.31 | 12.05 | 20.18 | 13.229 | 13.989 |
| 6/15/2017 2:46 | 39540.001 | 659 | 3.165 | 7.31 | 12.05 | 20.18 | 13.232 | 13.988 |
| 6/15/2017 2:47 | 39600.001 | 660 | 3.166 | 7.31 | 12.05 | 20.18 | 13.229 | 13.988 |
| 6/15/2017 2:48 | 39660.001 | 661 | 3.164 | 7.31 | 12.04 | 20.19 | 13.234 | 14 |
| 6/15/2017 2:49 | 39720.001 | 662 | 3.163 | 7.30 | 12.04 | 20.19 | 13.236 | 13.972 |
| 6/15/2017 2:50 | 39780.001 | 663 | 3.166 | 7.31 | 12.05 | 20.18 | 13.23 | 13.98 |
| 6/15/2017 2:51 | 39840.001 | 664 | 3.165 | 7.31 | 12.05 | 20.18 | 13.233 | 13.986 |
| 6/15/2017 2:52 | 39900.001 | 665 | 3.164 | 7.31 | 12.04 | 20.19 | 13.235 | 13.994 |
| 6/15/2017 2:53 | 39960.001 | 666 | 3.164 | 7.31 | 12.04 | 20.19 | 13.233 | 14.008 |
| 6/15/2017 2:54 | 40020.001 | 667 | 3.165 | 7.31 | 12.05 | 20.18 | 13.231 | 13.983 |
| 6/15/2017 2:55 | 40080.001 | 668 | 3.167 | 7.31 | 12.05 | 20.18 | 13.227 | 13.958 |
| 6/15/2017 2:56 | 40140.001 | 669 | 3.167 | 7.31 | 12.05 | 20.18 | 13.226 | 14.003 |
| 6/15/2017 2:57 | 40200.001 | 670 | 3.165 | 7.31 | 12.05 | 20.18 | 13.233 | 14.023 |
| 6/15/2017 2:58 | 40260.001 | 671 | 3.164 | 7.31 | 12.04 | 20.19 | 13.234 | 13.988 |
| 6/15/2017 2:59 | 40320.001 | 672 | 3.165 | 7.31 | 12.05 | 20.18 | 13.231 | 13.966 |
| 6/15/2017 3:00 | 40380.001 | 673 | 3.165 | 7.31 | 12.05 | 20.18 | 13.231 | 13.991 |
| 6/15/2017 3:01 | 40440.001 | 674 | 3.164 | 7.31 | 12.04 | 20.19 | 13.235 | 13.976 |
| 6/15/2017 3:02 | 40500.001 | 675 | 3.167 | 7.31 | 12.05 | 20.18 | 13.228 | 14.003 |
| 6/15/2017 3:03 | 40560.001 | 676 | 3.166 | 7.31 | 12.05 | 20.18 | 13.23 | 13.992 |

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| 6/15/2017 3:04 | 40620.001 | 677 | 3.165 | 7.31 | 12.05 | 20.18 | 13.231 | 13.996 |
| 6/15/2017 3:05 | 40680.001 | 678 | 3.166 | 7.31 | 12.05 | 20.18 | 13.228 | 13.991 |
| 6/15/2017 3:06 | 40740.001 | 679 | 3.165 | 7.31 | 12.05 | 20.18 | 13.232 | 13.961 |
| 6/15/2017 3:07 | 40800.001 | 680 | 3.164 | 7.31 | 12.04 | 20.19 | 13.233 | 13.988 |
| 6/15/2017 3:08 | 40860.001 | 681 | 3.163 | 7.30 | 12.04 | 20.19 | 13.237 | 13.964 |
| 6/15/2017 3:09 | 40920.001 | 682 | 3.164 | 7.31 | 12.04 | 20.19 | 13.234 | 13.98 |
| 6/15/2017 3:10 | 40980.001 | 683 | 3.167 | 7.31 | 12.05 | 20.18 | 13.227 | 13.988 |
| 6/15/2017 3:11 | 41040.001 | 684 | 3.164 | 7.31 | 12.04 | 20.19 | 13.234 | 13.988 |
| 6/15/2017 3:12 | 41100.001 | 685 | 3.167 | 7.31 | 12.05 | 20.18 | 13.228 | 13.958 |
| 6/15/2017 3:13 | 41160.001 | 686 | 3.166 | 7.31 | 12.05 | 20.18 | 13.231 | 13.962 |
| 6/15/2017 3:14 | 41220.001 | 687 | 3.166 | 7.31 | 12.05 | 20.18 | 13.229 | 13.973 |
| 6/15/2017 3:15 | 41280.001 | 688 | 3.163 | 7.30 | 12.04 | 20.19 | 13.236 | 13.98 |
| 6/15/2017 3:16 | 41340.001 | 689 | 3.165 | 7.31 | 12.05 | 20.18 | 13.232 | 13.956 |
| 6/15/2017 3:17 | 41400.001 | 690 | 3.164 | 7.31 | 12.04 | 20.19 | 13.235 | 13.949 |
| 6/15/2017 3:18 | 41460.001 | 691 | 3.162 | 7.30 | 12.04 | 20.19 | 13.239 | 13.986 |
| 6/15/2017 3:19 | 41520.001 | 692 | 3.165 | 7.31 | 12.05 | 20.18 | 13.231 | 13.984 |
| 6/15/2017 3:20 | 41580.001 | 693 | 3.163 | 7.30 | 12.04 | 20.19 | 13.236 | 13.991 |
| 6/15/2017 3:21 | 41640.001 | 694 | 3.164 | 7.31 | 12.04 | 20.19 | 13.234 | 13.978 |
| 6/15/2017 3:22 | 41700.001 | 695 | 3.166 | 7.31 | 12.05 | 20.18 | 13.229 | 13.98 |
| 6/15/2017 3:23 | 41760.001 | 696 | 3.167 | 7.31 | 12.05 | 20.18 | 13.227 | 13.994 |
| 6/15/2017 3:24 | 41820.001 | 697 | 3.165 | 7.31 | 12.05 | 20.18 | 13.231 | 13.994 |
| 6/15/2017 3:25 | 41880.001 | 698 | 3.163 | 7.30 | 12.04 | 20.19 | 13.236 | 13.992 |
| 6/15/2017 3:26 | 41940.001 | 699 | 3.166 | 7.31 | 12.05 | 20.18 | 13.229 | 13.965 |
| 6/15/2017 3:27 | 42000.001 | 700 | 3.162 | 7.30 | 12.04 | 20.19 | 13.239 | 13.993 |
| 6/15/2017 3:28 | 42060.001 | 701 | 3.166 | 7.31 | 12.05 | 20.18 | 13.229 | 13.995 |
| 6/15/2017 3:29 | 42120.001 | 702 | 3.164 | 7.31 | 12.04 | 20.19 | 13.233 | 13.96 |
| 6/15/2017 3:30 | 42180.001 | 703 | 3.165 | 7.31 | 12.05 | 20.18 | 13.232 | 13.995 |
| 6/15/2017 3:31 | 42240.001 | 704 | 3.164 | 7.31 | 12.04 | 20.19 | 13.234 | 13.973 |
| 6/15/2017 3:32 | 42300.001 | 705 | 3.164 | 7.31 | 12.04 | 20.19 | 13.234 | 13.975 |
| 6/15/2017 3:33 | 42360.001 | 706 | 3.166 | 7.31 | 12.05 | 20.18 | 13.229 | 13.951 |
| 6/15/2017 3:34 | 42420.001 | 707 | 3.165 | 7.31 | 12.05 | 20.18 | 13.233 | 13.982 |
| 6/15/2017 3:35 | 42480.001 | 708 | 3.165 | 7.31 | 12.05 | 20.18 | 13.232 | 13.976 |
| 6/15/2017 3:36 | 42540.001 | 709 | 3.165 | 7.31 | 12.05 | 20.18 | 13.232 | 13.976 |
| 6/15/2017 3:37 | 42600.001 | 710 | 3.163 | 7.30 | 12.04 | 20.19 | 13.237 | 13.974 |
| 6/15/2017 3:38 | 42660.001 | 711 | 3.165 | 7.31 | 12.05 | 20.18 | 13.233 | 13.962 |
| 6/15/2017 3:39 | 42720.001 | 712 | 3.166 | 7.31 | 12.05 | 20.18 | 13.229 | 13.975 |
| 6/15/2017 3:40 | 42780.001 | 713 | 3.164 | 7.31 | 12.04 | 20.19 | 13.234 | 13.96 |
| 6/15/2017 3:41 | 42840.001 | 714 | 3.163 | 7.30 | 12.04 | 20.19 | 13.237 | 13.977 |
| 6/15/2017 3:42 | 42900.001 | 715 | 3.165 | 7.31 | 12.05 | 20.18 | 13.233 | 13.979 |
| 6/15/2017 3:43 | 42960.001 | 716 | 3.164 | 7.31 | 12.04 | 20.19 | 13.234 | 13.972 |
| 6/15/2017 3:44 | 43020.001 | 717 | 3.164 | 7.31 | 12.04 | 20.19 | 13.235 | 13.962 |
| 6/15/2017 3:45 | 43080.001 | 718 | 3.162 | 7.30 | 12.04 | 20.19 | 13.239 | 13.962 |
| 6/15/2017 3:46 | 43140.001 | 719 | 3.164 | 7.31 | 12.04 | 20.19 | 13.235 | 13.956 |
| 6/15/2017 3:47 | 43200.001 | 720 | 3.163 | 7.30 | 12.04 | 20.19 | 13.235 | 13.994 |
| 6/15/2017 3:48 | 43260.001 | 721 | 3.163 | 7.30 | 12.04 | 20.19 | 13.236 | 13.988 |
| 6/15/2017 3:49 | 43320.001 | 722 | 3.164 | 7.31 | 12.04 | 20.19 | 13.234 | 13.991 |
| 6/15/2017 3:50 | 43380.001 | 723 | 3.164 | 7.31 | 12.04 | 20.19 | 13.235 | 13.963 |

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| 6/15/2017 3:51 | 43440.001 | 724 | 3.167 | 7.31 | 12.05 | 20.18 | 13.227 | 13.969 |
| 6/15/2017 3:52 | 43500.001 | 725 | 3.163 | 7.30 | 12.04 | 20.19 | 13.237 | 13.97 |
| 6/15/2017 3:53 | 43560.001 | 726 | 3.162 | 7.30 | 12.04 | 20.19 | 13.239 | 13.997 |
| 6/15/2017 3:54 | 43620.001 | 727 | 3.163 | 7.30 | 12.04 | 20.19 | 13.237 | 13.988 |
| 6/15/2017 3:55 | 43680.001 | 728 | 3.166 | 7.31 | 12.05 | 20.18 | 13.23 | 13.986 |
| 6/15/2017 3:56 | 43740.001 | 729 | 3.166 | 7.31 | 12.05 | 20.18 | 13.23 | 13.999 |
| 6/15/2017 3:57 | 43800.001 | 730 | 3.162 | 7.30 | 12.04 | 20.19 | 13.239 | 13.988 |
| 6/15/2017 3:58 | 43860.001 | 731 | 3.163 | 7.30 | 12.04 | 20.19 | 13.236 | 13.979 |
| 6/15/2017 3:59 | 43920.001 | 732 | 3.163 | 7.30 | 12.04 | 20.19 | 13.237 | 13.973 |
| 6/15/2017 4:00 | 43980.001 | 733 | 3.162 | 7.30 | 12.04 | 20.19 | 13.239 | 13.982 |
| 6/15/2017 4:01 | 44040.001 | 734 | 3.163 | 7.30 | 12.04 | 20.19 | 13.237 | 13.986 |
| 6/15/2017 4:02 | 44100.001 | 735 | 3.161 | 7.30 | 12.04 | 20.19 | 13.24 | 13.977 |
| 6/15/2017 4:03 | 44160.001 | 736 | 3.165 | 7.31 | 12.05 | 20.18 | 13.232 | 13.984 |
| 6/15/2017 4:04 | 44220.001 | 737 | 3.166 | 7.31 | 12.05 | 20.18 | 13.23 | 13.992 |
| 6/15/2017 4:05 | 44280.001 | 738 | 3.164 | 7.31 | 12.04 | 20.19 | 13.235 | 13.99 |
| 6/15/2017 4:06 | 44340.001 | 739 | 3.162 | 7.30 | 12.04 | 20.19 | 13.239 | 13.969 |
| 6/15/2017 4:07 | 44400.001 | 740 | 3.16 | 7.30 | 12.03 | 20.20 | 13.243 | 13.993 |
| 6/15/2017 4:08 | 44460.001 | 741 | 3.163 | 7.30 | 12.04 | 20.19 | 13.237 | 13.968 |
| 6/15/2017 4:09 | 44520.001 | 742 | 3.164 | 7.31 | 12.04 | 20.19 | 13.234 | 13.994 |
| 6/15/2017 4:10 | 44580.001 | 743 | 3.168 | 7.31 | 12.05 | 20.18 | 13.226 | 13.972 |
| 6/15/2017 4:11 | 44640.001 | 744 | 3.163 | 7.30 | 12.04 | 20.19 | 13.235 | 13.976 |
| 6/15/2017 4:12 | 44700.001 | 745 | 3.162 | 7.30 | 12.04 | 20.19 | 13.239 | 13.98 |
| 6/15/2017 4:13 | 44760.001 | 746 | 3.162 | 7.30 | 12.04 | 20.19 | 13.239 | 13.989 |
| 6/15/2017 4:14 | 44820.001 | 747 | 3.164 | 7.31 | 12.04 | 20.19 | 13.235 | 13.972 |
| 6/15/2017 4:15 | 44880.001 | 748 | 3.161 | 7.30 | 12.04 | 20.19 | 13.242 | 13.958 |
| 6/15/2017 4:16 | 44940.001 | 749 | 3.163 | 7.30 | 12.04 | 20.19 | 13.237 | 13.988 |
| 6/15/2017 4:17 | 45000.001 | 750 | 3.164 | 7.31 | 12.04 | 20.19 | 13.234 | 13.985 |
| 6/15/2017 4:18 | 45060.001 | 751 | 3.163 | 7.30 | 12.04 | 20.19 | 13.236 | 13.969 |
| 6/15/2017 4:19 | 45120.001 | 752 | 3.165 | 7.31 | 12.05 | 20.18 | 13.231 | 13.983 |
| 6/15/2017 4:20 | 45180.001 | 753 | 3.165 | 7.31 | 12.05 | 20.18 | 13.232 | 13.956 |
| 6/15/2017 4:21 | 45240.001 | 754 | 3.163 | 7.30 | 12.04 | 20.19 | 13.236 | 13.949 |
| 6/15/2017 4:22 | 45300.001 | 755 | 3.164 | 7.31 | 12.04 | 20.19 | 13.234 | 13.975 |
| 6/15/2017 4:23 | 45360.001 | 756 | 3.164 | 7.31 | 12.04 | 20.19 | 13.235 | 13.967 |
| 6/15/2017 4:24 | 45420.001 | 757 | 3.163 | 7.30 | 12.04 | 20.19 | 13.237 | 13.996 |
| 6/15/2017 4:25 | 45480.001 | 758 | 3.163 | 7.30 | 12.04 | 20.19 | 13.236 | 13.96 |
| 6/15/2017 4:26 | 45540.001 | 759 | 3.162 | 7.30 | 12.04 | 20.19 | 13.238 | 13.963 |
| 6/15/2017 4:27 | 45600.001 | 760 | 3.162 | 7.30 | 12.04 | 20.19 | 13.239 | 13.964 |
| 6/15/2017 4:28 | 45660.001 | 761 | 3.162 | 7.30 | 12.04 | 20.19 | 13.239 | 13.97 |
| 6/15/2017 4:29 | 45720.001 | 762 | 3.164 | 7.31 | 12.04 | 20.19 | 13.234 | 13.981 |
| 6/15/2017 4:30 | 45780.001 | 763 | 3.162 | 7.30 | 12.04 | 20.19 | 13.24 | 13.964 |
| 6/15/2017 4:31 | 45840.001 | 764 | 3.163 | 7.30 | 12.04 | 20.19 | 13.236 | 13.972 |
| 6/15/2017 4:32 | 45900.001 | 765 | 3.162 | 7.30 | 12.04 | 20.19 | 13.239 | 13.992 |
| 6/15/2017 4:33 | 45960.001 | 766 | 3.164 | 7.31 | 12.04 | 20.19 | 13.233 | 13.967 |
| 6/15/2017 4:34 | 46020.001 | 767 | 3.164 | 7.31 | 12.04 | 20.19 | 13.234 | 13.979 |
| 6/15/2017 4:35 | 46080.001 | 768 | 3.164 | 7.31 | 12.04 | 20.19 | 13.235 | 13.983 |
| 6/15/2017 4:36 | 46140.001 | 769 | 3.162 | 7.30 | 12.04 | 20.19 | 13.24 | 13.966 |
| 6/15/2017 4:37 | 46200.001 | 770 | 3.161 | 7.30 | 12.04 | 20.19 | 13.242 | 13.986 |

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|----------------|-----------|-----|-------|------|-------|-------|--------|--------|
| 6/15/2017 4:38 | 46260.001 | 771 | 3.162 | 7.30 | 12.04 | 20.19 | 13.238 | 13.989 |
| 6/15/2017 4:39 | 46320.001 | 772 | 3.163 | 7.30 | 12.04 | 20.19 | 13.236 | 13.986 |
| 6/15/2017 4:40 | 46380.001 | 773 | 3.162 | 7.30 | 12.04 | 20.19 | 13.238 | 13.985 |
| 6/15/2017 4:41 | 46440.001 | 774 | 3.164 | 7.31 | 12.04 | 20.19 | 13.235 | 13.969 |
| 6/15/2017 4:42 | 46500.001 | 775 | 3.164 | 7.31 | 12.04 | 20.19 | 13.233 | 13.977 |
| 6/15/2017 4:43 | 46560.001 | 776 | 3.164 | 7.31 | 12.04 | 20.19 | 13.235 | 13.966 |
| 6/15/2017 4:44 | 46620.001 | 777 | 3.165 | 7.31 | 12.05 | 20.18 | 13.231 | 13.955 |
| 6/15/2017 4:45 | 46680.001 | 778 | 3.163 | 7.30 | 12.04 | 20.19 | 13.237 | 13.996 |
| 6/15/2017 4:46 | 46740.001 | 779 | 3.162 | 7.30 | 12.04 | 20.19 | 13.24 | 13.956 |
| 6/15/2017 4:47 | 46800.001 | 780 | 3.162 | 7.30 | 12.04 | 20.19 | 13.239 | 13.965 |
| 6/15/2017 4:48 | 46860.001 | 781 | 3.164 | 7.31 | 12.04 | 20.19 | 13.235 | 13.967 |
| 6/15/2017 4:49 | 46920.001 | 782 | 3.164 | 7.31 | 12.04 | 20.19 | 13.233 | 13.991 |
| 6/15/2017 4:50 | 46980.001 | 783 | 3.163 | 7.30 | 12.04 | 20.19 | 13.237 | 13.953 |
| 6/15/2017 4:51 | 47040.001 | 784 | 3.164 | 7.31 | 12.04 | 20.19 | 13.235 | 13.962 |
| 6/15/2017 4:52 | 47100.001 | 785 | 3.162 | 7.30 | 12.04 | 20.19 | 13.238 | 13.977 |
| 6/15/2017 4:53 | 47160.001 | 786 | 3.164 | 7.31 | 12.04 | 20.19 | 13.233 | 13.966 |
| 6/15/2017 4:54 | 47220.001 | 787 | 3.163 | 7.30 | 12.04 | 20.19 | 13.236 | 13.98 |
| 6/15/2017 4:55 | 47280.001 | 788 | 3.161 | 7.30 | 12.04 | 20.19 | 13.24 | 13.985 |
| 6/15/2017 4:56 | 47340.001 | 789 | 3.164 | 7.31 | 12.04 | 20.19 | 13.234 | 13.986 |
| 6/15/2017 4:57 | 47400.001 | 790 | 3.161 | 7.30 | 12.04 | 20.19 | 13.241 | 13.968 |
| 6/15/2017 4:58 | 47460.001 | 791 | 3.162 | 7.30 | 12.04 | 20.19 | 13.238 | 13.99 |
| 6/15/2017 4:59 | 47520.001 | 792 | 3.163 | 7.30 | 12.04 | 20.19 | 13.237 | 13.968 |
| 6/15/2017 5:00 | 47580.001 | 793 | 3.161 | 7.30 | 12.04 | 20.19 | 13.241 | 13.977 |
| 6/15/2017 5:01 | 47640.001 | 794 | 3.16 | 7.30 | 12.03 | 20.20 | 13.243 | 13.974 |
| 6/15/2017 5:02 | 47700.001 | 795 | 3.162 | 7.30 | 12.04 | 20.19 | 13.239 | 13.949 |
| 6/15/2017 5:03 | 47760.001 | 796 | 3.162 | 7.30 | 12.04 | 20.19 | 13.238 | 13.96 |
| 6/15/2017 5:04 | 47820.001 | 797 | 3.159 | 7.29 | 12.03 | 20.20 | 13.246 | 13.981 |
| 6/15/2017 5:05 | 47880.001 | 798 | 3.16 | 7.30 | 12.03 | 20.20 | 13.242 | 13.972 |
| 6/15/2017 5:06 | 47940.001 | 799 | 3.159 | 7.29 | 12.03 | 20.20 | 13.246 | 13.96 |
| 6/15/2017 5:07 | 48000.001 | 800 | 3.16 | 7.30 | 12.03 | 20.20 | 13.243 | 13.962 |
| 6/15/2017 5:08 | 48060.001 | 801 | 3.161 | 7.30 | 12.04 | 20.19 | 13.241 | 13.961 |
| 6/15/2017 5:09 | 48120.001 | 802 | 3.16 | 7.30 | 12.03 | 20.20 | 13.243 | 13.946 |
| 6/15/2017 5:10 | 48180.001 | 803 | 3.162 | 7.30 | 12.04 | 20.19 | 13.239 | 13.972 |
| 6/15/2017 5:11 | 48240.001 | 804 | 3.16 | 7.30 | 12.03 | 20.20 | 13.244 | 13.975 |
| 6/15/2017 5:12 | 48300.001 | 805 | 3.161 | 7.30 | 12.04 | 20.19 | 13.241 | 13.963 |
| 6/15/2017 5:13 | 48360.001 | 806 | 3.16 | 7.30 | 12.03 | 20.20 | 13.242 | 13.962 |
| 6/15/2017 5:14 | 48420.001 | 807 | 3.159 | 7.29 | 12.03 | 20.20 | 13.246 | 13.946 |
| 6/15/2017 5:15 | 48480.001 | 808 | 3.159 | 7.29 | 12.03 | 20.20 | 13.246 | 13.973 |
| 6/15/2017 5:16 | 48540.001 | 809 | 3.159 | 7.29 | 12.03 | 20.20 | 13.246 | 13.955 |
| 6/15/2017 5:17 | 48600.001 | 810 | 3.161 | 7.30 | 12.04 | 20.19 | 13.242 | 13.974 |
| 6/15/2017 5:18 | 48660.001 | 811 | 3.159 | 7.29 | 12.03 | 20.20 | 13.246 | 13.978 |
| 6/15/2017 5:19 | 48720.001 | 812 | 3.159 | 7.29 | 12.03 | 20.20 | 13.246 | 13.962 |
| 6/15/2017 5:20 | 48780.001 | 813 | 3.16 | 7.30 | 12.03 | 20.20 | 13.242 | 13.937 |
| 6/15/2017 5:21 | 48840.001 | 814 | 3.159 | 7.29 | 12.03 | 20.20 | 13.245 | 13.983 |
| 6/15/2017 5:22 | 48900.001 | 815 | 3.16 | 7.30 | 12.03 | 20.20 | 13.244 | 13.972 |
| 6/15/2017 5:23 | 48960.001 | 816 | 3.156 | 7.29 | 12.02 | 20.21 | 13.252 | 13.954 |
| 6/15/2017 5:24 | 49020.001 | 817 | 3.159 | 7.29 | 12.03 | 20.20 | 13.244 | 13.994 |

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| 6/15/2017 5:25 | 49080.001 | 818 | 3.159 | 7.29 | 12.03 | 20.20 | 13.246 | 13.988 |
| 6/15/2017 5:26 | 49140.001 | 819 | 3.158 | 7.29 | 12.03 | 20.20 | 13.248 | 13.986 |
| 6/15/2017 5:27 | 49200.001 | 820 | 3.159 | 7.29 | 12.03 | 20.20 | 13.245 | 13.942 |
| 6/15/2017 5:28 | 49260.001 | 821 | 3.157 | 7.29 | 12.03 | 20.20 | 13.25 | 13.966 |
| 6/15/2017 5:29 | 49320.001 | 822 | 3.157 | 7.29 | 12.03 | 20.20 | 13.249 | 13.994 |
| 6/15/2017 5:30 | 49380.001 | 823 | 3.157 | 7.29 | 12.03 | 20.20 | 13.25 | 13.978 |
| 6/15/2017 5:31 | 49440.001 | 824 | 3.16 | 7.30 | 12.03 | 20.20 | 13.244 | 13.964 |
| 6/15/2017 5:32 | 49500.001 | 825 | 3.159 | 7.29 | 12.03 | 20.20 | 13.245 | 13.969 |
| 6/15/2017 5:33 | 49560.001 | 826 | 3.157 | 7.29 | 12.03 | 20.20 | 13.251 | 13.977 |
| 6/15/2017 5:34 | 49620.001 | 827 | 3.159 | 7.29 | 12.03 | 20.20 | 13.246 | 13.981 |
| 6/15/2017 5:35 | 49680.001 | 828 | 3.157 | 7.29 | 12.03 | 20.20 | 13.251 | 13.968 |
| 6/15/2017 5:36 | 49740.001 | 829 | 3.156 | 7.29 | 12.02 | 20.21 | 13.251 | 13.95 |
| 6/15/2017 5:37 | 49800.001 | 830 | 3.155 | 7.28 | 12.02 | 20.21 | 13.254 | 13.96 |
| 6/15/2017 5:38 | 49860.001 | 831 | 3.159 | 7.29 | 12.03 | 20.20 | 13.244 | 13.964 |
| 6/15/2017 5:39 | 49920.001 | 832 | 3.159 | 7.29 | 12.03 | 20.20 | 13.246 | 13.957 |
| 6/15/2017 5:40 | 49980.001 | 833 | 3.157 | 7.29 | 12.03 | 20.20 | 13.251 | 13.945 |
| 6/15/2017 5:41 | 50040.001 | 834 | 3.157 | 7.29 | 12.03 | 20.20 | 13.251 | 13.972 |
| 6/15/2017 5:42 | 50100.001 | 835 | 3.159 | 7.29 | 12.03 | 20.20 | 13.246 | 13.952 |
| 6/15/2017 5:43 | 50160.001 | 836 | 3.159 | 7.29 | 12.03 | 20.20 | 13.246 | 13.96 |
| 6/15/2017 5:44 | 50220.001 | 837 | 3.158 | 7.29 | 12.03 | 20.20 | 13.248 | 13.963 |
| 6/15/2017 5:45 | 50280.001 | 838 | 3.156 | 7.29 | 12.02 | 20.21 | 13.252 | 13.958 |
| 6/15/2017 5:46 | 50340.001 | 839 | 3.154 | 7.28 | 12.02 | 20.21 | 13.258 | 13.988 |
| 6/15/2017 5:47 | 50400.001 | 840 | 3.158 | 7.29 | 12.03 | 20.20 | 13.248 | 13.956 |
| 6/15/2017 5:48 | 50460.001 | 841 | 3.157 | 7.29 | 12.03 | 20.20 | 13.25 | 13.95 |
| 6/15/2017 5:49 | 50520.001 | 842 | 3.156 | 7.29 | 12.02 | 20.21 | 13.253 | 13.947 |
| 6/15/2017 5:50 | 50580.001 | 843 | 3.154 | 7.28 | 12.02 | 20.21 | 13.257 | 13.98 |
| 6/15/2017 5:51 | 50640.001 | 844 | 3.155 | 7.28 | 12.02 | 20.21 | 13.255 | 13.973 |
| 6/15/2017 5:52 | 50700.001 | 845 | 3.155 | 7.28 | 12.02 | 20.21 | 13.254 | 13.968 |
| 6/15/2017 5:53 | 50760.001 | 846 | 3.158 | 7.29 | 12.03 | 20.20 | 13.248 | 13.991 |
| 6/15/2017 5:54 | 50820.001 | 847 | 3.156 | 7.29 | 12.02 | 20.21 | 13.252 | 13.956 |
| 6/15/2017 5:55 | 50880.001 | 848 | 3.156 | 7.29 | 12.02 | 20.21 | 13.252 | 14.013 |
| 6/15/2017 5:56 | 50940.001 | 849 | 3.158 | 7.29 | 12.03 | 20.20 | 13.248 | 13.962 |
| 6/15/2017 5:57 | 51000.001 | 850 | 3.156 | 7.29 | 12.02 | 20.21 | 13.253 | 13.951 |
| 6/15/2017 5:58 | 51060.001 | 851 | 3.155 | 7.28 | 12.02 | 20.21 | 13.255 | 13.959 |
| 6/15/2017 5:59 | 51120.001 | 852 | 3.158 | 7.29 | 12.03 | 20.20 | 13.248 | 13.953 |
| 6/15/2017 6:00 | 51180.001 | 853 | 3.157 | 7.29 | 12.03 | 20.20 | 13.251 | 13.952 |
| 6/15/2017 6:01 | 51240.001 | 854 | 3.157 | 7.29 | 12.03 | 20.21 | 13.252 | 13.957 |
| 6/15/2017 6:02 | 51300.001 | 855 | 3.156 | 7.29 | 12.02 | 20.21 | 13.252 | 13.935 |
| 6/15/2017 6:03 | 51360.001 | 856 | 3.156 | 7.29 | 12.02 | 20.21 | 13.252 | 13.972 |
| 6/15/2017 6:04 | 51420.001 | 857 | 3.156 | 7.29 | 12.02 | 20.21 | 13.254 | 13.98 |
| 6/15/2017 6:05 | 51480.001 | 858 | 3.156 | 7.29 | 12.02 | 20.21 | 13.252 | 13.975 |
| 6/15/2017 6:06 | 51540.001 | 859 | 3.157 | 7.29 | 12.03 | 20.20 | 13.251 | 13.987 |
| 6/15/2017 6:07 | 51600.001 | 860 | 3.152 | 7.28 | 12.02 | 20.21 | 13.262 | 13.946 |
| 6/15/2017 6:08 | 51660.001 | 861 | 3.155 | 7.28 | 12.02 | 20.21 | 13.254 | 13.98 |
| 6/15/2017 6:09 | 51720.001 | 862 | 3.16 | 7.30 | 12.03 | 20.20 | 13.242 | 13.974 |
| 6/15/2017 6:10 | 51780.001 | 863 | 3.155 | 7.28 | 12.02 | 20.21 | 13.254 | 13.944 |
| 6/15/2017 6:11 | 51840.001 | 864 | 3.155 | 7.28 | 12.02 | 20.21 | 13.255 | |

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| 6/15/2017 6:12 | 51900.001 | 865 | 3.156 | 7.29 | 12.02 | 20.21 | 13.252 | 13.97 |
| 6/15/2017 6:13 | 51960.001 | 866 | 3.156 | 7.29 | 12.02 | 20.21 | 13.252 | 13.979 |
| 6/15/2017 6:14 | 52020.001 | 867 | 3.154 | 7.28 | 12.02 | 20.21 | 13.258 | 13.969 |
| 6/15/2017 6:15 | 52080.001 | 868 | 3.154 | 7.28 | 12.02 | 20.21 | 13.258 | 13.976 |
| 6/15/2017 6:16 | 52140.001 | 869 | 3.156 | 7.29 | 12.02 | 20.21 | 13.253 | 13.948 |
| 6/15/2017 6:17 | 52200.001 | 870 | 3.154 | 7.28 | 12.02 | 20.21 | 13.258 | 13.962 |
| 6/15/2017 6:18 | 52260.001 | 871 | 3.154 | 7.28 | 12.02 | 20.21 | 13.257 | 13.964 |
| 6/15/2017 6:19 | 52320.001 | 872 | 3.154 | 7.28 | 12.02 | 20.21 | 13.258 | 13.98 |
| 6/15/2017 6:20 | 52380.001 | 873 | 3.154 | 7.28 | 12.02 | 20.21 | 13.258 | 13.966 |
| 6/15/2017 6:21 | 52440.001 | 874 | 3.154 | 7.28 | 12.02 | 20.21 | 13.257 | 13.959 |
| 6/15/2017 6:22 | 52500.001 | 875 | 3.154 | 7.28 | 12.02 | 20.21 | 13.258 | 13.975 |
| 6/15/2017 6:23 | 52560.001 | 876 | 3.153 | 7.28 | 12.02 | 20.21 | 13.259 | 14.005 |
| 6/15/2017 6:24 | 52620.001 | 877 | 3.153 | 7.28 | 12.02 | 20.21 | 13.26 | 13.983 |
| 6/15/2017 6:25 | 52680.001 | 878 | 3.153 | 7.28 | 12.02 | 20.21 | 13.259 | 13.969 |
| 6/15/2017 6:26 | 52740.001 | 879 | 3.15 | 7.27 | 12.01 | 20.22 | 13.265 | 13.954 |
| 6/15/2017 6:27 | 52800.001 | 880 | 3.154 | 7.28 | 12.02 | 20.21 | 13.256 | 13.99 |
| 6/15/2017 6:28 | 52860.001 | 881 | 3.155 | 7.28 | 12.02 | 20.21 | 13.255 | 13.964 |
| 6/15/2017 6:29 | 52920.001 | 882 | 3.156 | 7.29 | 12.02 | 20.21 | 13.254 | 13.953 |
| 6/15/2017 6:30 | 52980.001 | 883 | 3.153 | 7.28 | 12.02 | 20.21 | 13.26 | 13.975 |
| 6/15/2017 6:31 | 53040.001 | 884 | 3.152 | 7.28 | 12.02 | 20.21 | 13.262 | 13.972 |
| 6/15/2017 6:32 | 53100.001 | 885 | 3.152 | 7.28 | 12.02 | 20.21 | 13.262 | 13.942 |
| 6/15/2017 6:33 | 53160.001 | 886 | 3.15 | 7.27 | 12.01 | 20.22 | 13.266 | 13.937 |
| 6/15/2017 6:34 | 53220.001 | 887 | 3.15 | 7.27 | 12.01 | 20.22 | 13.267 | 13.969 |
| 6/15/2017 6:35 | 53280.001 | 888 | 3.153 | 7.28 | 12.02 | 20.21 | 13.259 | 13.956 |
| 6/15/2017 6:36 | 53340.001 | 889 | 3.151 | 7.28 | 12.01 | 20.22 | 13.264 | 13.964 |
| 6/15/2017 6:37 | 53400.001 | 890 | 3.152 | 7.28 | 12.02 | 20.21 | 13.261 | 13.958 |
| 6/15/2017 6:38 | 53460.001 | 891 | 3.152 | 7.28 | 12.02 | 20.21 | 13.263 | 13.97 |
| 6/15/2017 6:39 | 53520.001 | 892 | 3.151 | 7.28 | 12.01 | 20.22 | 13.265 | 13.956 |
| 6/15/2017 6:40 | 53580.001 | 893 | 3.15 | 7.27 | 12.01 | 20.22 | 13.267 | 13.98 |
| 6/15/2017 6:41 | 53640.001 | 894 | 3.151 | 7.28 | 12.01 | 20.22 | 13.264 | 13.966 |
| 6/15/2017 6:42 | 53700.001 | 895 | 3.154 | 7.28 | 12.02 | 20.21 | 13.264 | 13.957 |
| 6/15/2017 6:43 | 53760.001 | 896 | 3.152 | 7.28 | 12.02 | 20.21 | 13.258 | 13.945 |
| 6/15/2017 6:44 | 53820.001 | 897 | 3.152 | 7.28 | 12.02 | 20.21 | 13.261 | 13.946 |
| 6/15/2017 6:45 | 53880.001 | 898 | 3.149 | 7.27 | 12.01 | 20.22 | 13.268 | 13.936 |
| 6/15/2017 6:46 | 53940.001 | 899 | 3.153 | 7.28 | 12.02 | 20.21 | 13.259 | 13.935 |
| 6/15/2017 6:47 | 54000.001 | 900 | 3.152 | 7.28 | 12.02 | 20.21 | 13.263 | 13.975 |
| 6/15/2017 6:48 | 54060.001 | 901 | 3.149 | 7.27 | 12.01 | 20.22 | 13.269 | 13.959 |
| 6/15/2017 6:49 | 54120.001 | 902 | 3.153 | 7.28 | 12.02 | 20.21 | 13.259 | 13.981 |
| 6/15/2017 6:50 | 54180.001 | 903 | 3.151 | 7.28 | 12.01 | 20.22 | 13.264 | 13.983 |
| 6/15/2017 6:51 | 54240.001 | 904 | 3.153 | 7.28 | 12.02 | 20.21 | 13.26 | 13.963 |
| 6/15/2017 6:52 | 54300.001 | 905 | 3.149 | 7.27 | 12.01 | 20.22 | 13.268 | 13.958 |
| 6/15/2017 6:53 | 54360.001 | 906 | 3.151 | 7.28 | 12.01 | 20.22 | 13.264 | 14.005 |
| 6/15/2017 6:54 | 54420.001 | 907 | 3.152 | 7.28 | 12.02 | 20.21 | 13.262 | 13.958 |
| 6/15/2017 6:55 | 54480.001 | 908 | 3.151 | 7.28 | 12.01 | 20.22 | 13.264 | 13.954 |
| 6/15/2017 6:56 | 54540.001 | 909 | 3.151 | 7.28 | 12.01 | 20.22 | 13.265 | 13.961 |
| 6/15/2017 6:57 | 54600.001 | 910 | 3.15 | 7.27 | 12.01 | 20.22 | 13.266 | 13.945 |
| 6/15/2017 6:58 | 54660.001 | 911 | 3.15 | 7.27 | 12.01 | 20.22 | 13.265 | 13.968 |

| | | | | | | | | |
|----------------|-----------|-----|-------|------|-------|-------|--------|--------|
| 6/15/2017 6:59 | 54720.001 | 912 | 3.148 | 7.27 | 12.01 | 20.22 | 13.272 | 13.978 |
| 6/15/2017 7:00 | 54780.001 | 913 | 3.149 | 7.27 | 12.01 | 20.22 | 13.268 | 13.953 |
| 6/15/2017 7:01 | 54840.001 | 914 | 3.15 | 7.27 | 12.01 | 20.22 | 13.266 | 13.955 |
| 6/15/2017 7:02 | 54900.001 | 915 | 3.15 | 7.27 | 12.01 | 20.22 | 13.267 | 13.986 |
| 6/15/2017 7:03 | 54960.001 | 916 | 3.149 | 7.27 | 12.01 | 20.22 | 13.269 | 13.954 |
| 6/15/2017 7:04 | 55020.001 | 917 | 3.151 | 7.28 | 12.01 | 20.22 | 13.265 | 13.953 |
| 6/15/2017 7:05 | 55080.001 | 918 | 3.149 | 7.27 | 12.01 | 20.22 | 13.268 | 13.953 |
| 6/15/2017 7:06 | 55140.001 | 919 | 3.153 | 7.28 | 12.02 | 20.21 | 13.26 | 13.954 |
| 6/15/2017 7:07 | 55200.001 | 920 | 3.15 | 7.27 | 12.01 | 20.22 | 13.267 | 13.962 |
| 6/15/2017 7:08 | 55260.001 | 921 | 3.148 | 7.27 | 12.01 | 20.22 | 13.271 | 13.948 |
| 6/15/2017 7:09 | 55320.001 | 922 | 3.148 | 7.27 | 12.01 | 20.22 | 13.27 | 13.956 |
| 6/15/2017 7:10 | 55380.001 | 923 | 3.149 | 7.27 | 12.01 | 20.22 | 13.268 | 13.943 |
| 6/15/2017 7:11 | 55440.001 | 924 | 3.151 | 7.28 | 12.01 | 20.22 | 13.263 | 13.944 |
| 6/15/2017 7:12 | 55500.001 | 925 | 3.15 | 7.27 | 12.01 | 20.22 | 13.265 | 13.956 |
| 6/15/2017 7:13 | 55560.001 | 926 | 3.15 | 7.27 | 12.01 | 20.22 | 13.266 | 13.961 |
| 6/15/2017 7:14 | 55620.001 | 927 | 3.151 | 7.28 | 12.01 | 20.22 | 13.264 | 13.953 |
| 6/15/2017 7:15 | 55680.001 | 928 | 3.152 | 7.28 | 12.02 | 20.21 | 13.262 | 13.966 |
| 6/15/2017 7:16 | 55740.001 | 929 | 3.15 | 7.27 | 12.01 | 20.22 | 13.266 | 13.977 |
| 6/15/2017 7:17 | 55800.001 | 930 | 3.15 | 7.27 | 12.01 | 20.22 | 13.267 | 13.935 |
| 6/15/2017 7:18 | 55860.001 | 931 | 3.149 | 7.27 | 12.01 | 20.22 | 13.268 | 13.962 |
| 6/15/2017 7:19 | 55920.001 | 932 | 3.152 | 7.28 | 12.02 | 20.21 | 13.261 | 13.942 |
| 6/15/2017 7:20 | 55980.001 | 933 | 3.147 | 7.27 | 12.00 | 20.23 | 13.273 | 13.969 |
| 6/15/2017 7:21 | 56040.001 | 934 | 3.148 | 7.27 | 12.01 | 20.22 | 13.27 | 13.981 |
| 6/15/2017 7:22 | 56100.001 | 935 | 3.15 | 7.27 | 12.01 | 20.22 | 13.266 | 13.982 |
| 6/15/2017 7:23 | 56160.001 | 936 | 3.15 | 7.27 | 12.01 | 20.22 | 13.267 | 13.969 |
| 6/15/2017 7:24 | 56220.001 | 937 | 3.151 | 7.28 | 12.01 | 20.22 | 13.264 | 13.97 |
| 6/15/2017 7:25 | 56280.001 | 938 | 3.15 | 7.27 | 12.01 | 20.22 | 13.266 | 13.948 |
| 6/15/2017 7:26 | 56340.001 | 939 | 3.151 | 7.28 | 12.01 | 20.22 | 13.263 | 13.981 |
| 6/15/2017 7:27 | 56400.001 | 940 | 3.148 | 7.27 | 12.01 | 20.22 | 13.27 | 13.984 |
| 6/15/2017 7:28 | 56460.001 | 941 | 3.15 | 7.27 | 12.01 | 20.22 | 13.266 | 13.952 |
| 6/15/2017 7:29 | 56520.001 | 942 | 3.148 | 7.27 | 12.01 | 20.22 | 13.27 | 13.965 |
| 6/15/2017 7:30 | 56580.001 | 943 | 3.148 | 7.27 | 12.01 | 20.22 | 13.271 | 13.973 |
| 6/15/2017 7:31 | 56640.001 | 944 | 3.146 | 7.26 | 12.00 | 20.23 | 13.275 | 13.946 |
| 6/15/2017 7:32 | 56700.001 | 945 | 3.15 | 7.27 | 12.01 | 20.22 | 13.266 | 13.978 |
| 6/15/2017 7:33 | 56760.001 | 946 | 3.149 | 7.27 | 12.01 | 20.22 | 13.268 | 13.96 |
| 6/15/2017 7:34 | 56820.001 | 947 | 3.147 | 7.27 | 12.00 | 20.23 | 13.273 | 13.962 |
| 6/15/2017 7:35 | 56880.001 | 948 | 3.149 | 7.27 | 12.01 | 20.22 | 13.269 | 13.975 |
| 6/15/2017 7:36 | 56940.001 | 949 | 3.147 | 7.27 | 12.00 | 20.23 | 13.274 | 13.959 |
| 6/15/2017 7:37 | 57000.001 | 950 | 3.144 | 7.26 | 12.00 | 20.23 | 13.279 | 13.954 |
| 6/15/2017 7:38 | 57060.001 | 951 | 3.147 | 7.27 | 12.00 | 20.23 | 13.273 | 13.963 |
| 6/15/2017 7:39 | 57120.001 | 952 | 3.147 | 7.27 | 12.00 | 20.23 | 13.274 | 13.972 |
| 6/15/2017 7:40 | 57180.001 | 953 | 3.147 | 7.27 | 12.00 | 20.23 | 13.273 | 13.956 |
| 6/15/2017 7:41 | 57240.001 | 954 | 3.147 | 7.27 | 12.00 | 20.23 | 13.273 | 13.942 |
| 6/15/2017 7:42 | 57300.001 | 955 | 3.145 | 7.26 | 12.00 | 20.23 | 13.279 | 13.948 |
| 6/15/2017 7:43 | 57360.001 | 956 | 3.146 | 7.26 | 12.00 | 20.23 | 13.276 | 13.953 |
| 6/15/2017 7:44 | 57420.001 | 957 | 3.144 | 7.26 | 12.00 | 20.23 | 13.281 | 13.947 |
| 6/15/2017 7:45 | 57480.001 | 958 | 3.146 | 7.26 | 12.00 | 20.23 | 13.277 | 13.956 |

| | | | | | | | | |
|----------------|-----------|-----|-------|------|-------|-------|--------|--------|
| 6/15/2017 7:46 | 57540.001 | 959 | 3.148 | 7.27 | 12.01 | 20.22 | 13.272 | 13.927 |
| 6/15/2017 7:47 | 57600.001 | 960 | 3.146 | 7.26 | 12.00 | 20.23 | 13.276 | 13.953 |
| 6/15/2017 7:48 | 57660.001 | 961 | 3.146 | 7.26 | 12.00 | 20.23 | 13.276 | 13.967 |
| 6/15/2017 7:49 | 57720.001 | 962 | 3.146 | 7.26 | 12.00 | 20.23 | 13.275 | 13.977 |
| 6/15/2017 7:50 | 57780.001 | 963 | 3.147 | 7.27 | 12.00 | 20.23 | 13.274 | 13.966 |
| 6/15/2017 7:51 | 57840.001 | 964 | 3.144 | 7.26 | 12.00 | 20.23 | 13.28 | 13.948 |
| 6/15/2017 7:52 | 57900.001 | 965 | 3.142 | 7.25 | 11.99 | 20.24 | 13.286 | 13.981 |
| 6/15/2017 7:53 | 57960.001 | 966 | 3.147 | 7.27 | 12.00 | 20.23 | 13.274 | 13.967 |
| 6/15/2017 7:54 | 58020.001 | 967 | 3.144 | 7.26 | 12.00 | 20.23 | 13.28 | 13.98 |
| 6/15/2017 7:55 | 58080.001 | 968 | 3.145 | 7.26 | 12.00 | 20.23 | 13.278 | 13.97 |
| 6/15/2017 7:56 | 58140.001 | 969 | 3.148 | 7.27 | 12.01 | 20.22 | 13.27 | 13.955 |
| 6/15/2017 7:57 | 58200.001 | 970 | 3.146 | 7.26 | 12.00 | 20.23 | 13.276 | 13.964 |
| 6/15/2017 7:58 | 58260.001 | 971 | 3.144 | 7.26 | 12.00 | 20.23 | 13.281 | 13.945 |
| 6/15/2017 7:59 | 58320.001 | 972 | 3.141 | 7.25 | 11.99 | 20.24 | 13.286 | 13.967 |
| 6/15/2017 8:01 | 58440.001 | 973 | 3.141 | 7.25 | 11.99 | 20.24 | 13.287 | 13.978 |
| 6/15/2017 8:02 | 58500.001 | 974 | 3.143 | 7.26 | 11.99 | 20.24 | 13.283 | 13.969 |
| 6/15/2017 8:03 | 58560.001 | 975 | 3.141 | 7.25 | 11.99 | 20.24 | 13.288 | 13.95 |
| 6/15/2017 8:04 | 58620.001 | 976 | 3.142 | 7.25 | 11.99 | 20.24 | 13.285 | 13.961 |
| 6/15/2017 8:05 | 58680.001 | 977 | 3.142 | 7.25 | 11.99 | 20.24 | 13.285 | 13.96 |
| 6/15/2017 8:06 | 58740.001 | 978 | 3.142 | 7.25 | 11.99 | 20.24 | 13.285 | 13.972 |
| 6/15/2017 8:07 | 58800.001 | 979 | 3.14 | 7.25 | 11.99 | 20.24 | 13.289 | 13.958 |
| 6/15/2017 8:08 | 58860.001 | 980 | 3.143 | 7.26 | 11.99 | 20.24 | 13.282 | 13.965 |
| 6/15/2017 8:09 | 58920.001 | 981 | 3.141 | 7.25 | 11.99 | 20.24 | 13.286 | 13.964 |
| 6/15/2017 8:10 | 58980.001 | 982 | 3.142 | 7.25 | 11.99 | 20.24 | 13.285 | 13.969 |
| 6/15/2017 8:11 | 59040.001 | 983 | 3.144 | 7.26 | 12.00 | 20.23 | 13.281 | 13.972 |
| 6/15/2017 8:12 | 59100.001 | 984 | 3.142 | 7.25 | 11.99 | 20.24 | 13.286 | 13.956 |
| 6/15/2017 8:13 | 59160.001 | 985 | 3.144 | 7.26 | 12.00 | 20.23 | 13.28 | 13.956 |
| 6/15/2017 8:14 | 59220.001 | 986 | 3.144 | 7.26 | 12.00 | 20.23 | 13.281 | 13.972 |
| | | 987 | 3.143 | 7.26 | 11.99 | 20.24 | 13.282 | 13.972 |

APPENDIX D
PUMPING TEST DATA

PUMPING TEST RECORD
Sterling Environmental Engineering, P.C.
24 Wade Road
Latham, New York 12110

| | | | |
|-----------------|-------------------------------|------------------------|-------------------------|
| Project | <u>Orange County Landfill</u> | Dates | <u>6/15/2017</u> |
| Location | <u>New Hampton, NY</u> | Pumping Well | <u>RW-17-1</u> |
| Well No. | <u>RW-17-1</u> | Measuring Point | <u>Top of PVC Riser</u> |

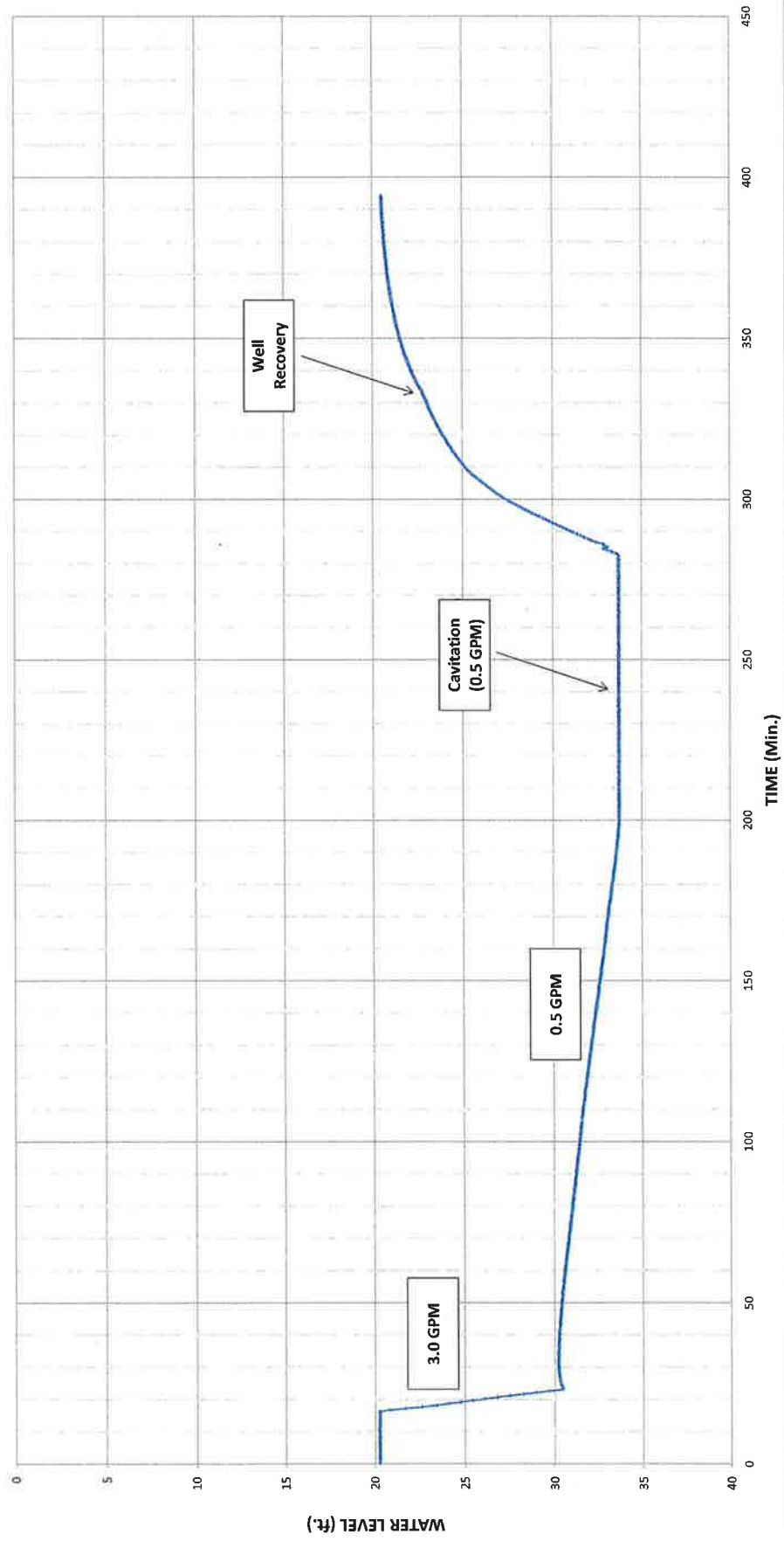
| Date | Time | Water Level (Feet) | Pumping Rate (GPM) | Remarks |
|-----------|-------|-----------------------|-----------------------|---------------------|
| 6/15/2017 | 8:30 | 20.25 | 0.0 | Before Pumping Test |
| 6/15/2017 | 8:38 | --- | 3.0 | Pump Test Start |
| 6/15/2017 | 8:42 | 25.85 | 2.0 | |
| 6/15/2017 | 8:46 | --- | 0.5 | |
| 6/15/2017 | 8:50 | 30.25 | 0.5 | |
| 6/15/2017 | 8:55 | 30.26 | 0.5 | |
| 6/15/2017 | 9:03 | 30.31 | 0.5 | |
| 6/15/2017 | 9:15 | 30.52 | 0.5 | |
| 6/15/2017 | 9:37 | 30.95 | 0.5 | |
| 6/15/2017 | 10:13 | 31.73 | 0.5 | |
| 6/15/2017 | 10:34 | 32.25 | 0.5 | |
| 6/15/2017 | 11:12 | 33.14 | 0.5 | |
| 6/15/2017 | 11:43 | 33.79 | 0.5 | |
| 6/15/2017 | 12:00 | 33.8 | 0.5 | |
| 6/15/2017 | 12:20 | 33.79 | 0.5 | |
| 6/15/2017 | 12:44 | 33.79 | 0.5 | |
| 6/15/2017 | 13:05 | --- | 0.0 | |
| 6/15/2017 | 13:12 | 31.2 | 0.0 | |
| 6/15/2017 | 14:08 | 23.81 | 0.0 | |
| 6/15/2017 | 14:29 | 20.94 | 0.0 | |
| 6/15/2017 | 14:41 | 20.7 | 0.0 | |
| 6/15/2017 | 14:50 | 20.6 | 0.0 | |
| 6/15/2017 | 14:55 | 20.55 | 0.0 | Transducer Stopped |
| 6/15/2017 | 15:33 | 20.4 | 0.0 | |
| | | | | |
| | | | | |
| | | | | |
| | | | | |
| | | | | |

Latham, New York 12110

Pumping Well RW-17-1

S:\Sterling\Projects\2010 Projects\Orange County - 2010-15\Field Investigations\Pumping Test_RW-17-1\Pumping Test Data\RW-17-1WQ Pumping Test

RW-17-1 Pumping Test - 6/15/2017



Report Date: 6/16/2017 11:37

Report User Name: spauldingj

Report Computer Name: LAPTOP04

Application: WinSitu.exe

Application Version: 5.6.25.0

Log File Properties

File Name RW-17-1 (Pump)_2017-06-15_14-56-42-176.wsl

Create Date 6/15/2017 14:56

19.596
20.339
33.254

Device Properties

Device Level TROLL 700
Site Orange County Landfill

Device Name

Serial Number 477224

Firmware Version 3.03

Hardware Version 5

Device Address 1

Device Comm Cfg 19200

Used Memory 3

Used Battery 4

8 Even

1

2

3

4

5

6

7

8

9

10

11

12

13

14

15

16

17

18

19

20

21

22

23

24

25

26

27

28

29

Log Configuration

Log Name

Created By

Computer Name

Application

Application Version

Create Date

Log Setup Time Zone

Notes Size(bytes)

Overwrite when full

Scheduled Start Time

Scheduled Stop Time

Type

Interval

RW-17-1 (Pump)

Spauldingj

LAPTOP04

WinSitu.exe

5.6.25.0

6/15/2017 8:22:02 AM Eastern Daylight Time

Eastern Daylight Time

4096

Disabled

Manual Start

No Stop Time

Fast Linear

Days: 0 hrs: 00 mins: 00 secs: 30

Level Reference Settings At Log Creation

Level Measurement Mode

Specific Gravity

Depth

0.999

Other Log Settings

Depth of Probe: 14.0166 (ft)
Head Pressure: 6.07052 (PSI)
Temperature: 14.273 (C)

Log Notes:

Date and Time Note

6/15/2017 8:22 Used Battery: 4% Used Memory: 3% User Name: SpauldingJ
6/15/2017 8:22 Manual Start Command
6/15/2017 14:56 Suspend Command
6/15/2017 14:56 Log Download - Used Battery: 4% Used Memory: 3% User Name: SpauldingJ

Log Data:

Record Count 789

Sensors

1
1

477224 Pressure/Temp 15 PSIG (11m/35ft)

Time Zone: Eastern Daylight Time

| Date and Time | Elapsed Time | | Sensor: Pres(G) 35ft SN#: 477224 | | Sensor: Pres(G) 35ft SN#: 477224 | | Sensor: Pres(G) 35ft SN#: 477224 | |
|----------------|--------------|---------|-------------------------------------|------------|-------------------------------------|------------------|-------------------------------------|--------|
| | Seconds | Minutes | Pressure (PSI) | Depth (ft) | Calculation | Water Level (ft) | Temperature (C) | |
| 6/15/2017 8:22 | 0 | 0 | 0 | 6.069 | 14.012 | 17.26 | 20.25 | 14.274 |
| 6/15/2017 8:22 | 30.001 | 30.001 | 0.5 | 6.07 | 14.015 | 17.263 | 20.247 | 14.268 |
| 6/15/2017 8:23 | 60.001 | 60.001 | 1 | 6.07 | 14.015 | 17.263 | 20.247 | 14.271 |
| 6/15/2017 8:23 | 90.001 | 90.001 | 1.5 | 6.071 | 14.017 | 17.265 | 20.245 | 14.239 |
| 6/15/2017 8:24 | 120.001 | 120.001 | 2 | 6.073 | 14.022 | 17.27 | 20.24 | 14.263 |
| 6/15/2017 8:24 | 150.001 | 150.001 | 2.5 | 6.073 | 14.022 | 17.27 | 20.24 | 14.226 |
| 6/15/2017 8:25 | 180.001 | 180.001 | 3 | 6.071 | 14.018 | 17.266 | 20.244 | 14.245 |
| 6/15/2017 8:25 | 210.001 | 210.001 | 3.5 | 6.071 | 14.017 | 17.265 | 20.245 | 14.247 |
| 6/15/2017 8:26 | 240.001 | 240.001 | 4 | 6.072 | 14.02 | 17.268 | 20.242 | 14.253 |
| 6/15/2017 8:26 | 270.001 | 270.001 | 4.5 | 6.071 | 14.018 | 17.266 | 20.244 | 14.245 |
| 6/15/2017 8:27 | 300.001 | 300.001 | 5 | 6.072 | 14.02 | 17.268 | 20.242 | 14.25 |
| 6/15/2017 8:27 | 330.001 | 330.001 | 5.5 | 6.07 | 14.016 | 17.264 | 20.246 | 14.237 |
| 6/15/2017 8:28 | 360.001 | 360.001 | 6 | 6.072 | 14.02 | 17.268 | 20.242 | 14.24 |
| 6/15/2017 8:28 | 390.001 | 390.001 | 6.5 | 6.074 | 14.025 | 17.273 | 20.237 | 14.232 |
| 6/15/2017 8:29 | 420.001 | 420.001 | 7 | 6.072 | 14.021 | 17.269 | 20.241 | 14.23 |
| 6/15/2017 8:29 | 450.001 | 450.001 | 7.5 | 6.074 | 14.025 | 17.273 | 20.237 | 14.24 |
| 6/15/2017 8:30 | 480.001 | 480.001 | 8 | 6.072 | 14.021 | 17.269 | 20.241 | 14.221 |
| 6/15/2017 8:30 | 510.001 | 510.001 | 8.5 | 6.074 | 14.025 | 17.273 | 20.237 | 14.25 |
| 6/15/2017 8:31 | 540.001 | 540.001 | 9 | 6.073 | 14.023 | 17.271 | 20.239 | 14.236 |
| 6/15/2017 8:31 | 570.001 | 570.001 | 9.5 | 6.072 | 14.019 | 17.267 | 20.243 | 14.221 |

| | | | | | | | |
|----------------|----------|------|-------|--------|--------|--------|--------|
| 6/15/2017 8:32 | 600.001 | 10 | 6.074 | 14.024 | 17.272 | 20.238 | 14.22 |
| 6/15/2017 8:32 | 630.001 | 10.5 | 6.074 | 14.025 | 17.273 | 20.237 | 14.231 |
| 6/15/2017 8:33 | 660.001 | 11 | 6.071 | 14.017 | 17.265 | 20.245 | 14.249 |
| 6/15/2017 8:33 | 690.001 | 11.5 | 6.072 | 14.019 | 17.267 | 20.243 | 14.227 |
| 6/15/2017 8:34 | 720.001 | 12 | 6.072 | 14.019 | 17.267 | 20.243 | 14.255 |
| 6/15/2017 8:34 | 750.001 | 12.5 | 6.071 | 14.018 | 17.266 | 20.244 | 14.239 |
| 6/15/2017 8:35 | 780.001 | 13 | 6.071 | 14.017 | 17.265 | 20.245 | 14.23 |
| 6/15/2017 8:35 | 810.001 | 13.5 | 6.071 | 14.017 | 17.265 | 20.245 | 14.254 |
| 6/15/2017 8:36 | 840.001 | 14 | 6.068 | 14.011 | 17.259 | 20.251 | 14.219 |
| 6/15/2017 8:36 | 870.001 | 14.5 | 6.071 | 14.017 | 17.265 | 20.245 | 14.234 |
| 6/15/2017 8:37 | 900.001 | 15 | 6.071 | 14.018 | 17.266 | 20.244 | 14.269 |
| 6/15/2017 8:37 | 930.001 | 15.5 | 6.071 | 14.018 | 17.266 | 20.244 | 14.243 |
| 6/15/2017 8:38 | 960.001 | 16 | 6.072 | 14.02 | 17.268 | 20.242 | 14.249 |
| 6/15/2017 8:38 | 990.001 | 16.5 | 5.83 | 13.462 | 16.71 | 20.8 | 14.244 |
| 6/15/2017 8:39 | 1020.001 | 17 | 5.448 | 12.58 | 15.828 | 21.682 | 14.242 |
| 6/15/2017 8:39 | 1050.001 | 17.5 | 5.062 | 11.687 | 14.935 | 22.575 | 14.265 |
| 6/15/2017 8:40 | 1080.001 | 18 | 4.699 | 10.85 | 14.098 | 23.412 | 14.281 |
| 6/15/2017 8:40 | 1110.001 | 18.5 | 4.411 | 10.185 | 13.433 | 24.077 | 14.326 |
| 6/15/2017 8:41 | 1140.001 | 19 | 4.13 | 9.536 | 12.784 | 24.726 | 14.394 |
| 6/15/2017 8:41 | 1170.001 | 19.5 | 3.848 | 8.885 | 12.133 | 25.377 | 14.434 |
| 6/15/2017 8:42 | 1200.001 | 20 | 3.546 | 8.187 | 11.435 | 26.075 | 14.503 |
| 6/15/2017 8:42 | 1230.001 | 20.5 | 3.241 | 7.484 | 10.732 | 26.778 | 14.564 |
| 6/15/2017 8:43 | 1260.001 | 21 | 2.938 | 6.783 | 10.031 | 27.479 | 14.604 |
| 6/15/2017 8:43 | 1290.001 | 21.5 | 2.614 | 6.037 | 9.285 | 28.225 | 14.616 |
| 6/15/2017 8:44 | 1320.001 | 22 | 2.306 | 5.324 | 8.572 | 28.938 | 14.64 |
| 6/15/2017 8:44 | 1350.001 | 22.5 | 1.984 | 4.58 | 7.828 | 29.682 | 14.645 |
| 6/15/2017 8:45 | 1380.001 | 23 | 1.658 | 3.828 | 7.076 | 30.434 | 14.632 |
| 6/15/2017 8:45 | 1410.001 | 23.5 | 1.656 | 3.824 | 7.072 | 30.438 | 14.634 |
| 6/15/2017 8:46 | 1440.001 | 24 | 1.677 | 3.872 | 7.12 | 30.39 | 14.689 |
| 6/15/2017 8:46 | 1470.001 | 24.5 | 1.692 | 3.907 | 7.155 | 30.355 | 14.683 |
| 6/15/2017 8:47 | 1500.001 | 25 | 1.711 | 3.95 | 7.198 | 30.312 | 14.735 |
| 6/15/2017 8:47 | 1530.001 | 25.5 | 1.714 | 3.958 | 7.206 | 30.304 | 14.778 |
| 6/15/2017 8:48 | 1560.001 | 26 | 1.727 | 3.989 | 7.237 | 30.273 | 14.832 |
| 6/15/2017 8:48 | 1590.001 | 26.5 | 1.736 | 4.008 | 7.256 | 30.254 | 14.904 |
| 6/15/2017 8:49 | 1620.001 | 27 | 1.741 | 4.02 | 7.268 | 30.242 | 14.974 |
| 6/15/2017 8:49 | 1650.001 | 27.5 | 1.743 | 4.026 | 7.274 | 30.236 | 15.014 |
| 6/15/2017 8:50 | 1680.001 | 28 | 1.75 | 4.042 | 7.29 | 30.22 | 15.045 |
| 6/15/2017 8:50 | 1710.001 | 28.5 | 1.753 | 4.049 | 7.297 | 30.213 | 15.139 |
| 6/15/2017 8:51 | 1740.001 | 29 | 1.757 | 4.057 | 7.305 | 30.205 | 15.188 |
| 6/15/2017 8:51 | 1770.001 | 29.5 | 1.758 | 4.06 | 7.308 | 30.202 | 15.218 |
| 6/15/2017 8:52 | 1800.001 | 30 | 1.753 | 4.047 | 7.295 | 30.215 | 15.241 |
| 6/15/2017 8:52 | 1830.001 | 30.5 | 1.762 | 4.068 | 7.316 | 30.194 | 15.273 |
| 6/15/2017 8:53 | 1860.001 | 31 | 1.76 | 4.063 | 7.311 | 30.199 | 15.294 |
| 6/15/2017 8:53 | 1890.001 | 31.5 | 1.761 | 4.067 | 7.315 | 30.195 | 15.331 |
| 6/15/2017 8:54 | 1920.001 | 32 | 1.759 | 4.061 | 7.309 | 30.201 | 15.358 |
| 6/15/2017 8:54 | 1950.001 | 32.5 | 1.762 | 4.067 | 7.315 | 30.195 | 15.416 |
| 6/15/2017 8:55 | 1980.001 | 33 | 1.76 | 4.064 | 7.312 | 30.198 | 15.452 |

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|----------------|----------|------|-------|-------|-------|--------|--------|
| 6/15/2017 8:55 | 2010.001 | 33.5 | 1.762 | 4.067 | 7.315 | 30.195 | 15.48 |
| 6/15/2017 8:56 | 2040.001 | 34 | 1.763 | 4.07 | 7.318 | 30.192 | 15.516 |
| 6/15/2017 8:56 | 2070.001 | 34.5 | 1.758 | 4.058 | 7.306 | 30.204 | 15.523 |
| 6/15/2017 8:57 | 2100.001 | 35 | 1.757 | 4.057 | 7.305 | 30.205 | 15.563 |
| 6/15/2017 8:57 | 2130.001 | 35.5 | 1.754 | 4.049 | 7.297 | 30.213 | 15.602 |
| 6/15/2017 8:58 | 2160.001 | 36 | 1.75 | 4.041 | 7.289 | 30.221 | 15.618 |
| 6/15/2017 8:58 | 2190.001 | 36.5 | 1.753 | 4.047 | 7.295 | 30.215 | 15.641 |
| 6/15/2017 8:59 | 2220.001 | 37 | 1.755 | 4.052 | 7.3 | 30.21 | 15.644 |
| 6/15/2017 8:59 | 2250.001 | 37.5 | 1.751 | 4.044 | 7.292 | 30.218 | 15.664 |
| 6/15/2017 9:00 | 2280.001 | 38 | 1.752 | 4.045 | 7.293 | 30.217 | 15.707 |
| 6/15/2017 9:00 | 2310.001 | 38.5 | 1.744 | 4.026 | 7.274 | 30.236 | 15.68 |
| 6/15/2017 9:01 | 2340.001 | 39 | 1.747 | 4.034 | 7.282 | 30.228 | 15.689 |
| 6/15/2017 9:01 | 2370.001 | 39.5 | 1.742 | 4.023 | 7.271 | 30.239 | 15.739 |
| 6/15/2017 9:02 | 2400.001 | 40 | 1.736 | 4.009 | 7.257 | 30.253 | 15.751 |
| 6/15/2017 9:02 | 2430.001 | 40.5 | 1.74 | 4.017 | 7.265 | 30.245 | 15.731 |
| 6/15/2017 9:03 | 2460.001 | 41 | 1.736 | 4.009 | 7.257 | 30.253 | 15.793 |
| 6/15/2017 9:03 | 2490.001 | 41.5 | 1.735 | 4.006 | 7.254 | 30.256 | 15.781 |
| 6/15/2017 9:04 | 2520.001 | 42 | 1.731 | 3.998 | 7.246 | 30.264 | 15.774 |
| 6/15/2017 9:04 | 2550.001 | 42.5 | 1.727 | 3.988 | 7.236 | 30.274 | 15.792 |
| 6/15/2017 9:05 | 2580.001 | 43 | 1.724 | 3.98 | 7.228 | 30.282 | 15.854 |
| 6/15/2017 9:05 | 2610.001 | 43.5 | 1.719 | 3.97 | 7.218 | 30.292 | 15.836 |
| 6/15/2017 9:06 | 2640.001 | 44 | 1.723 | 3.978 | 7.226 | 30.284 | 15.839 |
| 6/15/2017 9:06 | 2670.001 | 44.5 | 1.714 | 3.957 | 7.205 | 30.305 | 15.855 |
| 6/15/2017 9:07 | 2700.001 | 45 | 1.713 | 3.955 | 7.203 | 30.307 | 15.857 |
| 6/15/2017 9:07 | 2730.001 | 45.5 | 1.706 | 3.94 | 7.188 | 30.322 | 15.901 |
| 6/15/2017 9:08 | 2760.001 | 46 | 1.703 | 3.931 | 7.179 | 30.331 | 15.892 |
| 6/15/2017 9:08 | 2790.001 | 46.5 | 1.698 | 3.92 | 7.168 | 30.342 | 15.893 |
| 6/15/2017 9:09 | 2820.001 | 47 | 1.699 | 3.924 | 7.172 | 30.338 | 15.905 |
| 6/15/2017 9:09 | 2850.001 | 47.5 | 1.695 | 3.913 | 7.161 | 30.349 | 15.898 |
| 6/15/2017 9:10 | 2880.001 | 48 | 1.692 | 3.906 | 7.154 | 30.356 | 15.919 |
| 6/15/2017 9:10 | 2910.001 | 48.5 | 1.688 | 3.898 | 7.146 | 30.364 | 15.923 |
| 6/15/2017 9:11 | 2940.001 | 49 | 1.687 | 3.896 | 7.144 | 30.366 | 15.89 |
| 6/15/2017 9:11 | 2970.001 | 49.5 | 1.681 | 3.881 | 7.129 | 30.381 | 15.936 |
| 6/15/2017 9:12 | 3000.001 | 50 | 1.675 | 3.868 | 7.116 | 30.394 | 15.94 |
| 6/15/2017 9:12 | 3030.001 | 50.5 | 1.671 | 3.858 | 7.106 | 30.404 | 15.956 |
| 6/15/2017 9:13 | 3060.001 | 51 | 1.666 | 3.846 | 7.094 | 30.416 | 15.959 |
| 6/15/2017 9:13 | 3090.001 | 51.5 | 1.665 | 3.845 | 7.093 | 30.417 | 15.988 |
| 6/15/2017 9:14 | 3120.001 | 52 | 1.661 | 3.834 | 7.082 | 30.428 | 15.97 |
| 6/15/2017 9:14 | 3150.001 | 52.5 | 1.659 | 3.831 | 7.079 | 30.431 | 15.967 |
| 6/15/2017 9:15 | 3180.001 | 53 | 1.662 | 3.838 | 7.086 | 30.424 | 15.982 |
| 6/15/2017 9:15 | 3210.001 | 53.5 | 1.651 | 3.812 | 7.06 | 30.45 | 16.018 |
| 6/15/2017 9:16 | 3240.001 | 54 | 1.644 | 3.797 | 7.045 | 30.465 | 16.05 |
| 6/15/2017 9:16 | 3270.001 | 54.5 | 1.639 | 3.785 | 7.033 | 30.477 | 16.08 |
| 6/15/2017 9:17 | 3300.001 | 55 | 1.634 | 3.773 | 7.021 | 30.489 | 16.074 |
| 6/15/2017 9:17 | 3330.039 | 55.5 | 1.636 | 3.778 | 7.026 | 30.484 | 16.103 |
| 6/15/2017 9:18 | 3360.067 | 56 | 1.624 | 3.75 | 6.998 | 30.512 | 16.138 |
| 6/15/2017 9:18 | 3390.001 | 56.5 | 1.623 | 3.748 | 6.996 | 30.514 | 16.152 |

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| 6/15/2017 9:19 | 3420.001 | 57 | 1.623 | 3.748 | 6.996 | 30.514 | 16.167 |
| 6/15/2017 9:19 | 3450.009 | 57.5 | 1.615 | 3.73 | 6.978 | 30.532 | 16.147 |
| 6/15/2017 9:20 | 3480.052 | 58 | 1.615 | 3.729 | 6.977 | 30.533 | 16.189 |
| 6/15/2017 9:20 | 3510.095 | 58.5 | 1.61 | 3.718 | 6.966 | 30.544 | 16.187 |
| 6/15/2017 9:21 | 3540.001 | 59 | 1.604 | 3.704 | 6.952 | 30.558 | 16.186 |
| 6/15/2017 9:21 | 3570.009 | 59.5 | 1.602 | 3.7 | 6.948 | 30.562 | 16.186 |
| 6/15/2017 9:22 | 3600.053 | 60 | 1.592 | 3.675 | 6.923 | 30.587 | 16.188 |
| 6/15/2017 9:22 | 3630.095 | 60.5 | 1.592 | 3.676 | 6.924 | 30.586 | 16.174 |
| 6/15/2017 9:23 | 3660.001 | 61 | 1.583 | 3.656 | 6.904 | 30.606 | 16.163 |
| 6/15/2017 9:23 | 3690.001 | 61.5 | 1.581 | 3.65 | 6.898 | 30.612 | 16.187 |
| 6/15/2017 9:24 | 3720.001 | 62 | 1.576 | 3.639 | 6.887 | 30.623 | 16.162 |
| 6/15/2017 9:24 | 3750.001 | 62.5 | 1.568 | 3.62 | 6.868 | 30.642 | 16.189 |
| 6/15/2017 9:25 | 3780.001 | 63 | 1.574 | 3.635 | 6.883 | 30.627 | 16.189 |
| 6/15/2017 9:25 | 3810.001 | 63.5 | 1.564 | 3.612 | 6.86 | 30.65 | 16.206 |
| 6/15/2017 9:26 | 3840.001 | 64 | 1.56 | 3.601 | 6.849 | 30.661 | 16.223 |
| 6/15/2017 9:26 | 3870.001 | 64.5 | 1.557 | 3.595 | 6.843 | 30.667 | 16.178 |
| 6/15/2017 9:27 | 3900.001 | 65 | 1.548 | 3.574 | 6.822 | 30.688 | 16.189 |
| 6/15/2017 9:27 | 3930.001 | 65.5 | 1.545 | 3.568 | 6.816 | 30.694 | 16.208 |
| 6/15/2017 9:28 | 3960.001 | 66 | 1.542 | 3.561 | 6.809 | 30.701 | 16.228 |
| 6/15/2017 9:28 | 3990.001 | 66.5 | 1.532 | 3.537 | 6.785 | 30.725 | 16.184 |
| 6/15/2017 9:29 | 4020.001 | 67 | 1.528 | 3.527 | 6.775 | 30.735 | 16.213 |
| 6/15/2017 9:29 | 4050.001 | 67.5 | 1.526 | 3.523 | 6.771 | 30.739 | 16.206 |
| 6/15/2017 9:30 | 4080.001 | 68 | 1.52 | 3.51 | 6.758 | 30.752 | 16.206 |
| 6/15/2017 9:30 | 4110.001 | 68.5 | 1.521 | 3.512 | 6.76 | 30.75 | 16.198 |
| 6/15/2017 9:31 | 4140.001 | 69 | 1.508 | 3.482 | 6.73 | 30.78 | 16.232 |
| 6/15/2017 9:31 | 4170.001 | 69.5 | 1.506 | 3.477 | 6.725 | 30.785 | 16.182 |
| 6/15/2017 9:32 | 4200.001 | 70 | 1.5 | 3.463 | 6.711 | 30.799 | 16.223 |
| 6/15/2017 9:32 | 4230.001 | 70.5 | 1.502 | 3.469 | 6.717 | 30.793 | 16.184 |
| 6/15/2017 9:33 | 4260.001 | 71 | 1.491 | 3.443 | 6.691 | 30.819 | 16.204 |
| 6/15/2017 9:33 | 4290.001 | 71.5 | 1.49 | 3.44 | 6.688 | 30.822 | 16.222 |
| 6/15/2017 9:34 | 4320.001 | 72 | 1.48 | 3.416 | 6.664 | 30.846 | 16.219 |
| 6/15/2017 9:34 | 4350.001 | 72.5 | 1.472 | 3.4 | 6.648 | 30.862 | 16.202 |
| 6/15/2017 9:35 | 4380.001 | 73 | 1.47 | 3.394 | 6.642 | 30.868 | 16.164 |
| 6/15/2017 9:35 | 4410.001 | 73.5 | 1.468 | 3.391 | 6.639 | 30.871 | 16.202 |
| 6/15/2017 9:36 | 4440.001 | 74 | 1.467 | 3.387 | 6.635 | 30.875 | 16.226 |
| 6/15/2017 9:36 | 4470.001 | 74.5 | 1.459 | 3.368 | 6.616 | 30.894 | 16.229 |
| 6/15/2017 9:37 | 4500.001 | 75 | 1.457 | 3.364 | 6.612 | 30.898 | 16.176 |
| 6/15/2017 9:37 | 4530.001 | 75.5 | 1.451 | 3.35 | 6.598 | 30.912 | 16.139 |
| 6/15/2017 9:38 | 4560.001 | 76 | 1.445 | 3.336 | 6.584 | 30.926 | 16.124 |
| 6/15/2017 9:38 | 4590.001 | 76.5 | 1.447 | 3.34 | 6.588 | 30.922 | 16.08 |
| 6/15/2017 9:39 | 4620.001 | 77 | 1.437 | 3.319 | 6.567 | 30.943 | 16.06 |
| 6/15/2017 9:39 | 4650.001 | 77.5 | 1.431 | 3.304 | 6.552 | 30.958 | 16.097 |
| 6/15/2017 9:40 | 4680.001 | 78 | 1.426 | 3.292 | 6.54 | 30.97 | 16.046 |
| 6/15/2017 9:40 | 4710.001 | 78.5 | 1.423 | 3.287 | 6.535 | 30.975 | 16.061 |
| 6/15/2017 9:41 | 4740.001 | 79 | 1.414 | 3.265 | 6.513 | 30.997 | 16.041 |
| 6/15/2017 9:41 | 4770.001 | 79.5 | 1.414 | 3.264 | 6.512 | 30.998 | 16.013 |
| 6/15/2017 9:42 | 4800.001 | 80 | 1.406 | 3.247 | 6.495 | 31.015 | 16.004 |

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| 6/15/2017 9:42 | 4830.001 | 80.5 | 1.408 | 3.251 | 6.499 | 31.011 | 16.054 |
| 6/15/2017 9:43 | 4860.001 | 81 | 1.403 | 3.24 | 6.488 | 31.022 | 15.981 |
| 6/15/2017 9:43 | 4890.001 | 81.5 | 1.393 | 3.216 | 6.464 | 31.046 | 15.989 |
| 6/15/2017 9:44 | 4920.001 | 82 | 1.393 | 3.217 | 6.465 | 31.045 | 16.006 |
| 6/15/2017 9:44 | 4950.001 | 82.5 | 1.38 | 3.186 | 6.434 | 31.076 | 15.975 |
| 6/15/2017 9:45 | 4980.001 | 83 | 1.381 | 3.188 | 6.436 | 31.074 | 16.023 |
| 6/15/2017 9:45 | 5010.001 | 83.5 | 1.379 | 3.185 | 6.433 | 31.077 | 15.991 |
| 6/15/2017 9:46 | 5040.001 | 84 | 1.373 | 3.17 | 6.418 | 31.092 | 15.983 |
| 6/15/2017 9:46 | 5070.001 | 84.5 | 1.369 | 3.162 | 6.41 | 31.1 | 15.991 |
| 6/15/2017 9:47 | 5100.001 | 85 | 1.368 | 3.158 | 6.406 | 31.104 | 15.955 |
| 6/15/2017 9:47 | 5130.001 | 85.5 | 1.363 | 3.146 | 6.394 | 31.116 | 15.983 |
| 6/15/2017 9:48 | 5160.001 | 86 | 1.355 | 3.13 | 6.378 | 31.132 | 16.007 |
| 6/15/2017 9:48 | 5190.001 | 86.5 | 1.35 | 3.117 | 6.365 | 31.145 | 15.987 |
| 6/15/2017 9:49 | 5220.001 | 87 | 1.342 | 3.099 | 6.347 | 31.163 | 15.984 |
| 6/15/2017 9:49 | 5250.001 | 87.5 | 1.341 | 3.097 | 6.345 | 31.165 | 15.986 |
| 6/15/2017 9:50 | 5280.001 | 88 | 1.336 | 3.085 | 6.333 | 31.177 | 15.963 |
| 6/15/2017 9:50 | 5310.001 | 88.5 | 1.332 | 3.076 | 6.324 | 31.186 | 15.951 |
| 6/15/2017 9:51 | 5340.001 | 89 | 1.33 | 3.072 | 6.32 | 31.19 | 16.01 |
| 6/15/2017 9:51 | 5370.001 | 89.5 | 1.318 | 3.043 | 6.291 | 31.219 | 15.991 |
| 6/15/2017 9:52 | 5400.001 | 90 | 1.314 | 3.033 | 6.281 | 31.229 | 15.991 |
| 6/15/2017 9:52 | 5430.001 | 90.5 | 1.316 | 3.039 | 6.287 | 31.223 | 15.978 |
| 6/15/2017 9:53 | 5460.001 | 91 | 1.306 | 3.016 | 6.264 | 31.246 | 15.997 |
| 6/15/2017 9:53 | 5490.001 | 91.5 | 1.303 | 3.008 | 6.256 | 31.254 | 16.01 |
| 6/15/2017 9:54 | 5520.001 | 92 | 1.304 | 3.011 | 6.259 | 31.251 | 15.977 |
| 6/15/2017 9:54 | 5550.001 | 92.5 | 1.296 | 2.992 | 6.24 | 31.27 | 15.962 |
| 6/15/2017 9:55 | 5580.001 | 93 | 1.291 | 2.981 | 6.229 | 31.281 | 15.991 |
| 6/15/2017 9:55 | 5610.001 | 93.5 | 1.289 | 2.975 | 6.223 | 31.287 | 16.018 |
| 6/15/2017 9:56 | 5640.001 | 94 | 1.284 | 2.964 | 6.212 | 31.298 | 15.932 |
| 6/15/2017 9:56 | 5670.001 | 94.5 | 1.278 | 2.952 | 6.2 | 31.31 | 15.983 |
| 6/15/2017 9:57 | 5700.001 | 95 | 1.271 | 2.934 | 6.182 | 31.328 | 15.967 |
| 6/15/2017 9:57 | 5730.001 | 95.5 | 1.268 | 2.928 | 6.176 | 31.334 | 15.97 |
| 6/15/2017 9:58 | 5760.001 | 96 | 1.263 | 2.916 | 6.164 | 31.346 | 15.998 |
| 6/15/2017 9:58 | 5790.001 | 96.5 | 1.262 | 2.913 | 6.161 | 31.349 | 15.96 |
| 6/15/2017 9:59 | 5820.001 | 97 | 1.257 | 2.902 | 6.15 | 31.36 | 15.994 |
| 6/15/2017 9:59 | 5850.001 | 97.5 | 1.252 | 2.891 | 6.139 | 31.371 | 16.007 |
| 6/15/2017 10:00 | 5880.001 | 98 | 1.245 | 2.875 | 6.123 | 31.387 | 15.951 |
| 6/15/2017 10:00 | 5910.001 | 98.5 | 1.244 | 2.872 | 6.12 | 31.39 | 15.97 |
| 6/15/2017 10:01 | 5940.001 | 99 | 1.233 | 2.846 | 6.094 | 31.416 | 15.982 |
| 6/15/2017 10:01 | 5970.001 | 99.5 | 1.235 | 2.853 | 6.101 | 31.409 | 16.007 |
| 6/15/2017 10:02 | 6000.001 | 100 | 1.228 | 2.834 | 6.082 | 31.428 | 15.983 |
| 6/15/2017 10:02 | 6030.001 | 100.5 | 1.226 | 2.83 | 6.078 | 31.432 | 16.004 |
| 6/15/2017 10:03 | 6060.001 | 101 | 1.224 | 2.827 | 6.075 | 31.435 | 15.971 |
| 6/15/2017 10:03 | 6090.001 | 101.5 | 1.213 | 2.802 | 6.05 | 31.46 | 16.009 |
| 6/15/2017 10:04 | 6120.001 | 102 | 1.216 | 2.807 | 6.055 | 31.455 | 15.996 |
| 6/15/2017 10:04 | 6150.001 | 102.5 | 1.211 | 2.797 | 6.045 | 31.465 | 15.989 |
| 6/15/2017 10:05 | 6180.001 | 103 | 1.202 | 2.775 | 6.023 | 31.487 | 15.997 |
| 6/15/2017 10:05 | 6210.001 | 103.5 | 1.2 | 2.771 | 6.019 | 31.491 | 16.007 |

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| 6/15/2017 10:06 | 6240.001 | 104 | 1.198 | 2.767 | 6.015 | 31.495 | 15.991 |
| 6/15/2017 10:06 | 6270.001 | 104.5 | 1.197 | 2.763 | 6.011 | 31.499 | 16.013 |
| 6/15/2017 10:07 | 6300.001 | 105 | 1.19 | 2.747 | 5.995 | 31.515 | 16.01 |
| 6/15/2017 10:07 | 6330.001 | 105.5 | 1.188 | 2.744 | 5.992 | 31.518 | 15.991 |
| 6/15/2017 10:08 | 6360.001 | 106 | 1.182 | 2.728 | 5.976 | 31.534 | 15.991 |
| 6/15/2017 10:08 | 6390.001 | 106.5 | 1.179 | 2.721 | 5.969 | 31.541 | 16.015 |
| 6/15/2017 10:09 | 6420.001 | 107 | 1.17 | 2.702 | 5.95 | 31.56 | 15.943 |
| 6/15/2017 10:09 | 6450.001 | 107.5 | 1.169 | 2.699 | 5.947 | 31.563 | 16.016 |
| 6/15/2017 10:10 | 6480.001 | 108 | 1.164 | 2.687 | 5.935 | 31.575 | 15.981 |
| 6/15/2017 10:10 | 6510.001 | 108.5 | 1.156 | 2.67 | 5.918 | 31.592 | 15.974 |
| 6/15/2017 10:11 | 6540.001 | 109 | 1.155 | 2.667 | 5.915 | 31.595 | 15.998 |
| 6/15/2017 10:11 | 6570.001 | 109.5 | 1.149 | 2.654 | 5.902 | 31.608 | 15.991 |
| 6/15/2017 10:12 | 6600.035 | 110 | 1.144 | 2.64 | 5.888 | 31.622 | 15.994 |
| 6/15/2017 10:12 | 6630.079 | 110.5 | 1.14 | 2.632 | 5.88 | 31.63 | 15.991 |
| 6/15/2017 10:13 | 6660.107 | 111 | 1.135 | 2.62 | 5.868 | 31.642 | 16.008 |
| 6/15/2017 10:13 | 6690.001 | 111.5 | 1.127 | 2.602 | 5.85 | 31.66 | 15.997 |
| 6/15/2017 10:14 | 6720.006 | 112 | 1.127 | 2.601 | 5.849 | 31.661 | 15.964 |
| 6/15/2017 10:14 | 6750.049 | 112.5 | 1.116 | 2.577 | 5.825 | 31.685 | 15.962 |
| 6/15/2017 10:15 | 6780.093 | 113 | 1.114 | 2.572 | 5.82 | 31.69 | 15.994 |
| 6/15/2017 10:15 | 6810.001 | 113.5 | 1.107 | 2.555 | 5.803 | 31.707 | 15.997 |
| 6/15/2017 10:16 | 6840.006 | 114 | 1.108 | 2.558 | 5.806 | 31.704 | 15.997 |
| 6/15/2017 10:16 | 6870.049 | 114.5 | 1.1 | 2.539 | 5.787 | 31.723 | 15.978 |
| 6/15/2017 10:17 | 6900.001 | 115 | 1.099 | 2.538 | 5.786 | 31.724 | 15.934 |
| 6/15/2017 10:17 | 6930.001 | 115.5 | 1.095 | 2.528 | 5.776 | 31.734 | 15.934 |
| 6/15/2017 10:18 | 6960.001 | 116 | 1.091 | 2.518 | 5.766 | 31.744 | 16.001 |
| 6/15/2017 10:18 | 6990.001 | 116.5 | 1.082 | 2.499 | 5.747 | 31.763 | 16.013 |
| 6/15/2017 10:19 | 7020.001 | 117 | 1.077 | 2.487 | 5.735 | 31.775 | 15.936 |
| 6/15/2017 10:19 | 7050.001 | 117.5 | 1.062 | 2.453 | 5.701 | 31.809 | 15.945 |
| 6/15/2017 10:20 | 7080.001 | 118 | 1.063 | 2.454 | 5.702 | 31.808 | 15.943 |
| 6/15/2017 10:20 | 7110.001 | 118.5 | 1.054 | 2.433 | 5.681 | 31.829 | 15.965 |
| 6/15/2017 10:21 | 7140.001 | 119 | 1.051 | 2.427 | 5.675 | 31.835 | 15.93 |
| 6/15/2017 10:21 | 7170.001 | 119.5 | 1.051 | 2.427 | 5.675 | 31.835 | 15.951 |
| 6/15/2017 10:22 | 7200.001 | 120 | 1.045 | 2.414 | 5.662 | 31.848 | 15.975 |
| 6/15/2017 10:22 | 7230.001 | 120.5 | 1.039 | 2.398 | 5.646 | 31.864 | 15.948 |
| 6/15/2017 10:23 | 7260.001 | 121 | 1.028 | 2.374 | 5.622 | 31.888 | 15.977 |
| 6/15/2017 10:23 | 7290.001 | 121.5 | 1.031 | 2.38 | 5.628 | 31.882 | 15.95 |
| 6/15/2017 10:24 | 7320.001 | 122 | 1.025 | 2.367 | 5.615 | 31.895 | 15.955 |
| 6/15/2017 10:24 | 7350.001 | 122.5 | 1.018 | 2.351 | 5.599 | 31.911 | 15.971 |
| 6/15/2017 10:25 | 7380.001 | 123 | 1.015 | 2.344 | 5.592 | 31.918 | 15.911 |
| 6/15/2017 10:25 | 7410.001 | 123.5 | 1.012 | 2.336 | 5.584 | 31.926 | 15.961 |
| 6/15/2017 10:26 | 7440.001 | 124 | 1.004 | 2.319 | 5.567 | 31.943 | 15.984 |
| 6/15/2017 10:26 | 7470.001 | 124.5 | 0.994 | 2.295 | 5.543 | 31.967 | 15.947 |
| 6/15/2017 10:27 | 7500.001 | 125 | 0.993 | 2.294 | 5.542 | 31.968 | 15.966 |
| 6/15/2017 10:27 | 7530.001 | 125.5 | 0.988 | 2.282 | 5.53 | 31.98 | 15.985 |
| 6/15/2017 10:28 | 7560.001 | 126 | 0.981 | 2.265 | 5.513 | 31.997 | 15.951 |
| 6/15/2017 10:28 | 7590.001 | 126.5 | 0.978 | 2.257 | 5.505 | 32.005 | 15.972 |
| 6/15/2017 10:29 | 7620.001 | 127 | 0.973 | 2.247 | 5.495 | 32.015 | 15.973 |

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|-----------------|----------|-------|-------|-------|-------|--------|--------|
| 6/15/2017 10:29 | 7650.001 | 127.5 | 0.969 | 2.238 | 5.486 | 32.024 | 15.957 |
| 6/15/2017 10:30 | 7680.001 | 128 | 0.958 | 2.213 | 5.461 | 32.049 | 15.938 |
| 6/15/2017 10:30 | 7710.001 | 128.5 | 0.953 | 2.2 | 5.448 | 32.062 | 15.95 |
| 6/15/2017 10:31 | 7740.001 | 129 | 0.947 | 2.187 | 5.435 | 32.075 | 15.965 |
| 6/15/2017 10:31 | 7770.001 | 129.5 | 0.949 | 2.19 | 5.438 | 32.072 | 15.957 |
| 6/15/2017 10:32 | 7800.001 | 130 | 0.942 | 2.174 | 5.422 | 32.088 | 15.954 |
| 6/15/2017 10:32 | 7830.001 | 130.5 | 0.933 | 2.154 | 5.402 | 32.108 | 16.007 |
| 6/15/2017 10:33 | 7860.001 | 131 | 0.928 | 2.144 | 5.392 | 32.118 | 15.914 |
| 6/15/2017 10:33 | 7890.001 | 131.5 | 0.923 | 2.131 | 5.379 | 32.131 | 15.964 |
| 6/15/2017 10:34 | 7920.001 | 132 | 0.921 | 2.126 | 5.374 | 32.136 | 15.934 |
| 6/15/2017 10:34 | 7950.001 | 132.5 | 0.915 | 2.112 | 5.36 | 32.15 | 15.923 |
| 6/15/2017 10:35 | 7980.001 | 133 | 0.908 | 2.098 | 5.346 | 32.164 | 15.994 |
| 6/15/2017 10:35 | 8010.001 | 133.5 | 0.905 | 2.089 | 5.337 | 32.173 | 15.938 |
| 6/15/2017 10:36 | 8040.001 | 134 | 0.896 | 2.069 | 5.317 | 32.193 | 15.924 |
| 6/15/2017 10:36 | 8070.001 | 134.5 | 0.892 | 2.06 | 5.308 | 32.202 | 15.957 |
| 6/15/2017 10:37 | 8100.001 | 135 | 0.885 | 2.043 | 5.291 | 32.219 | 15.993 |
| 6/15/2017 10:37 | 8130.001 | 135.5 | 0.884 | 2.042 | 5.29 | 32.22 | 15.948 |
| 6/15/2017 10:38 | 8160.001 | 136 | 0.878 | 2.028 | 5.276 | 32.234 | 15.973 |
| 6/15/2017 10:38 | 8190.001 | 136.5 | 0.874 | 2.018 | 5.266 | 32.244 | 15.954 |
| 6/15/2017 10:39 | 8220.014 | 137 | 0.866 | 1.999 | 5.247 | 32.263 | 15.919 |
| 6/15/2017 10:39 | 8250.001 | 137.5 | 0.865 | 1.997 | 5.245 | 32.265 | 15.934 |
| 6/15/2017 10:40 | 8280.001 | 138 | 0.854 | 1.973 | 5.221 | 32.289 | 15.979 |
| 6/15/2017 10:40 | 8310.001 | 138.5 | 0.853 | 1.969 | 5.217 | 32.293 | 15.948 |
| 6/15/2017 10:41 | 8340.001 | 139 | 0.843 | 1.946 | 5.194 | 32.316 | 16 |
| 6/15/2017 10:41 | 8370.001 | 139.5 | 0.837 | 1.932 | 5.18 | 32.33 | 15.965 |
| 6/15/2017 10:42 | 8400.001 | 140 | 0.835 | 1.927 | 5.175 | 32.335 | 15.959 |
| 6/15/2017 10:42 | 8430.001 | 140.5 | 0.827 | 1.91 | 5.158 | 32.352 | 15.948 |
| 6/15/2017 10:43 | 8460.001 | 141 | 0.822 | 1.898 | 5.146 | 32.364 | 15.948 |
| 6/15/2017 10:43 | 8490.001 | 141.5 | 0.816 | 1.885 | 5.133 | 32.377 | 15.962 |
| 6/15/2017 10:44 | 8520.001 | 142 | 0.81 | 1.871 | 5.119 | 32.391 | 15.987 |
| 6/15/2017 10:44 | 8550.001 | 142.5 | 0.809 | 1.867 | 5.115 | 32.395 | 15.966 |
| 6/15/2017 10:45 | 8580.001 | 143 | 0.802 | 1.851 | 5.099 | 32.411 | 15.941 |
| 6/15/2017 10:45 | 8610.001 | 143.5 | 0.793 | 1.832 | 5.08 | 32.43 | 15.973 |
| 6/15/2017 10:46 | 8640.001 | 144 | 0.795 | 1.835 | 5.083 | 32.427 | 15.957 |
| 6/15/2017 10:46 | 8670.001 | 144.5 | 0.782 | 1.805 | 5.053 | 32.457 | 15.97 |
| 6/15/2017 10:47 | 8700.001 | 145 | 0.784 | 1.811 | 5.059 | 32.451 | 15.967 |
| 6/15/2017 10:47 | 8730.001 | 145.5 | 0.774 | 1.787 | 5.035 | 32.475 | 16.011 |
| 6/15/2017 10:48 | 8760.001 | 146 | 0.766 | 1.769 | 5.017 | 32.493 | 15.992 |
| 6/15/2017 10:48 | 8790.001 | 146.5 | 0.764 | 1.765 | 5.013 | 32.497 | 15.995 |
| 6/15/2017 10:49 | 8820.001 | 147 | 0.758 | 1.749 | 4.997 | 32.513 | 15.984 |
| 6/15/2017 10:49 | 8850.001 | 147.5 | 0.753 | 1.739 | 4.987 | 32.523 | 15.977 |
| 6/15/2017 10:50 | 8880.001 | 148 | 0.752 | 1.737 | 4.985 | 32.525 | 15.991 |
| 6/15/2017 10:50 | 8910.001 | 148.5 | 0.745 | 1.719 | 4.967 | 32.543 | 15.967 |
| 6/15/2017 10:51 | 8940.001 | 149 | 0.739 | 1.706 | 4.954 | 32.556 | 15.98 |
| 6/15/2017 10:51 | 8970.001 | 149.5 | 0.732 | 1.69 | 4.938 | 32.572 | 15.981 |
| 6/15/2017 10:52 | 9000.001 | 150 | 0.728 | 1.682 | 4.93 | 32.58 | 16.005 |
| 6/15/2017 10:52 | 9030.001 | 150.5 | 0.72 | 1.662 | 4.91 | 32.6 | 16.012 |

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| 6/15/2017 10:53 | 9060.001 | 151 | 0.718 | 1.657 | 4.905 | 32.605 | 15.979 |
| 6/15/2017 10:53 | 9090.001 | 151.5 | 0.711 | 1.641 | 4.889 | 32.621 | 15.999 |
| 6/15/2017 10:54 | 9120.001 | 152 | 0.707 | 1.632 | 4.88 | 32.63 | 15.983 |
| 6/15/2017 10:54 | 9150.001 | 152.5 | 0.695 | 1.605 | 4.853 | 32.657 | 15.988 |
| 6/15/2017 10:55 | 9180.001 | 153 | 0.696 | 1.606 | 4.854 | 32.656 | 15.986 |
| 6/15/2017 10:55 | 9210.001 | 153.5 | 0.692 | 1.598 | 4.846 | 32.664 | 16.01 |
| 6/15/2017 10:56 | 9240.001 | 154 | 0.689 | 1.591 | 4.839 | 32.671 | 16.004 |
| 6/15/2017 10:56 | 9270.001 | 154.5 | 0.682 | 1.575 | 4.823 | 32.687 | 15.978 |
| 6/15/2017 10:57 | 9300.001 | 155 | 0.673 | 1.554 | 4.802 | 32.708 | 16.01 |
| 6/15/2017 10:57 | 9330.001 | 155.5 | 0.664 | 1.533 | 4.781 | 32.729 | 16.001 |
| 6/15/2017 10:58 | 9360.001 | 156 | 0.662 | 1.529 | 4.777 | 32.733 | 16.029 |
| 6/15/2017 10:58 | 9390.001 | 156.5 | 0.657 | 1.516 | 4.764 | 32.746 | 16.005 |
| 6/15/2017 10:59 | 9420.001 | 157 | 0.652 | 1.505 | 4.753 | 32.757 | 16.039 |
| 6/15/2017 10:59 | 9450.001 | 157.5 | 0.646 | 1.492 | 4.74 | 32.77 | 16.034 |
| 6/15/2017 11:00 | 9480.001 | 158 | 0.641 | 1.48 | 4.728 | 32.782 | 16.006 |
| 6/15/2017 11:00 | 9510.001 | 158.5 | 0.633 | 1.463 | 4.711 | 32.799 | 16.031 |
| 6/15/2017 11:01 | 9540.001 | 159 | 0.631 | 1.456 | 4.704 | 32.806 | 16.048 |
| 6/15/2017 11:01 | 9570.001 | 159.5 | 0.628 | 1.449 | 4.697 | 32.813 | 16.064 |
| 6/15/2017 11:02 | 9600.001 | 160 | 0.623 | 1.437 | 4.685 | 32.825 | 16.047 |
| 6/15/2017 11:02 | 9630.001 | 160.5 | 0.62 | 1.43 | 4.678 | 32.832 | 16.072 |
| 6/15/2017 11:03 | 9660.001 | 161 | 0.606 | 1.4 | 4.648 | 32.862 | 16.071 |
| 6/15/2017 11:03 | 9690.001 | 161.5 | 0.602 | 1.389 | 4.637 | 32.873 | 16.048 |
| 6/15/2017 11:04 | 9720.001 | 162 | 0.59 | 1.361 | 4.609 | 32.901 | 16.039 |
| 6/15/2017 11:04 | 9750.001 | 162.5 | 0.593 | 1.37 | 4.618 | 32.892 | 16.065 |
| 6/15/2017 11:05 | 9780.001 | 163 | 0.595 | 1.373 | 4.621 | 32.889 | 16.016 |
| 6/15/2017 11:05 | 9810.001 | 163.5 | 0.585 | 1.352 | 4.6 | 32.91 | 16.042 |
| 6/15/2017 11:06 | 9840.001 | 164 | 0.582 | 1.343 | 4.591 | 32.919 | 16.054 |
| 6/15/2017 11:06 | 9870.001 | 164.5 | 0.577 | 1.333 | 4.581 | 32.929 | 16.064 |
| 6/15/2017 11:07 | 9900.001 | 165 | 0.575 | 1.327 | 4.575 | 32.935 | 16.03 |
| 6/15/2017 11:07 | 9930.001 | 165.5 | 0.57 | 1.316 | 4.564 | 32.946 | 16.033 |
| 6/15/2017 11:07 | 9960.001 | 166 | 0.563 | 1.301 | 4.549 | 32.961 | 16.028 |
| 6/15/2017 11:08 | 9990.001 | 166.5 | 0.561 | 1.295 | 4.543 | 32.967 | 16.025 |
| 6/15/2017 11:09 | 10020.001 | 167 | 0.555 | 1.283 | 4.531 | 32.979 | 16.015 |
| 6/15/2017 11:09 | 10050.001 | 167.5 | 0.552 | 1.275 | 4.523 | 32.987 | 16.032 |
| 6/15/2017 11:10 | 10080.001 | 168 | 0.548 | 1.266 | 4.514 | 32.996 | 16.034 |
| 6/15/2017 11:10 | 10110.001 | 168.5 | 0.542 | 1.251 | 4.499 | 33.011 | 16.022 |
| 6/15/2017 11:11 | 10140.001 | 169 | 0.536 | 1.237 | 4.485 | 33.025 | 16.039 |
| 6/15/2017 11:11 | 10170.001 | 169.5 | 0.533 | 1.23 | 4.478 | 33.032 | 16.032 |
| 6/15/2017 11:12 | 10200.001 | 170 | 0.526 | 1.215 | 4.463 | 33.047 | 16.023 |
| 6/15/2017 11:12 | 10230.001 | 170.5 | 0.521 | 1.204 | 4.452 | 33.058 | 16.018 |
| 6/15/2017 11:13 | 10260.001 | 171 | 0.516 | 1.191 | 4.439 | 33.071 | 16.012 |
| 6/15/2017 11:13 | 10290.001 | 171.5 | 0.511 | 1.181 | 4.429 | 33.081 | 16.015 |
| 6/15/2017 11:14 | 10320.001 | 172 | 0.508 | 1.173 | 4.421 | 33.089 | 16.036 |
| 6/15/2017 11:14 | 10350.001 | 172.5 | 0.504 | 1.163 | 4.411 | 33.099 | 16.029 |
| 6/15/2017 11:15 | 10380.001 | 173 | 0.495 | 1.144 | 4.392 | 33.118 | 15.971 |
| 6/15/2017 11:15 | 10410.001 | 173.5 | 0.489 | 1.13 | 4.378 | 33.132 | 16.002 |
| 6/15/2017 11:16 | 10440.001 | 174 | 0.485 | 1.12 | 4.368 | 33.142 | 16.005 |

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| 6/15/2017 11:16 | 10470.001 | 174.5 | 0.478 | 1.104 | 4.352 | 33.158 | 15.991 |
| 6/15/2017 11:17 | 10500.001 | 175 | 0.47 | 1.086 | 4.334 | 33.176 | 15.975 |
| 6/15/2017 11:17 | 10530.001 | 175.5 | 0.468 | 1.081 | 4.329 | 33.181 | 15.97 |
| 6/15/2017 11:18 | 10560.001 | 176 | 0.46 | 1.061 | 4.309 | 33.201 | 15.973 |
| 6/15/2017 11:18 | 10590.001 | 176.5 | 0.456 | 1.053 | 4.301 | 33.209 | 15.976 |
| 6/15/2017 11:19 | 10620.001 | 177 | 0.452 | 1.044 | 4.292 | 33.218 | 15.97 |
| 6/15/2017 11:19 | 10650.001 | 177.5 | 0.447 | 1.032 | 4.28 | 33.23 | 15.954 |
| 6/15/2017 11:20 | 10680.001 | 178 | 0.438 | 1.012 | 4.26 | 33.25 | 15.971 |
| 6/15/2017 11:20 | 10710.001 | 178.5 | 0.436 | 1.008 | 4.256 | 33.254 | 15.95 |
| 6/15/2017 11:21 | 10740.001 | 179 | 0.43 | 0.993 | 4.241 | 33.269 | 15.954 |
| 6/15/2017 11:21 | 10770.001 | 179.5 | 0.426 | 0.984 | 4.232 | 33.278 | 15.924 |
| 6/15/2017 11:22 | 10800.001 | 180 | 0.42 | 0.969 | 4.217 | 33.293 | 15.936 |
| 6/15/2017 11:22 | 10830.001 | 180.5 | 0.415 | 0.957 | 4.205 | 33.305 | 15.948 |
| 6/15/2017 11:23 | 10860.001 | 181 | 0.409 | 0.945 | 4.193 | 33.317 | 15.956 |
| 6/15/2017 11:23 | 10890.001 | 181.5 | 0.404 | 0.932 | 4.18 | 33.33 | 15.95 |
| 6/15/2017 11:24 | 10920.001 | 182 | 0.398 | 0.919 | 4.167 | 33.343 | 15.93 |
| 6/15/2017 11:24 | 10950.001 | 182.5 | 0.394 | 0.91 | 4.158 | 33.352 | 15.954 |
| 6/15/2017 11:25 | 10980.001 | 183 | 0.389 | 0.899 | 4.147 | 33.363 | 15.946 |
| 6/15/2017 11:25 | 11010.001 | 183.5 | 0.381 | 0.879 | 4.127 | 33.383 | 15.964 |
| 6/15/2017 11:26 | 11040.001 | 184 | 0.377 | 0.87 | 4.118 | 33.392 | 15.952 |
| 6/15/2017 11:26 | 11070.001 | 184.5 | 0.372 | 0.858 | 4.106 | 33.404 | 15.949 |
| 6/15/2017 11:27 | 11100.001 | 185 | 0.365 | 0.843 | 4.091 | 33.419 | 15.933 |
| 6/15/2017 11:27 | 11130.001 | 185.5 | 0.359 | 0.829 | 4.077 | 33.433 | 15.934 |
| 6/15/2017 11:28 | 11160.001 | 186 | 0.354 | 0.817 | 4.065 | 33.445 | 15.946 |
| 6/15/2017 11:28 | 11190.001 | 186.5 | 0.35 | 0.809 | 4.057 | 33.453 | 15.938 |
| 6/15/2017 11:29 | 11220.001 | 187 | 0.347 | 0.8 | 4.048 | 33.462 | 15.91 |
| 6/15/2017 11:29 | 11250.001 | 187.5 | 0.338 | 0.781 | 4.029 | 33.481 | 15.952 |
| 6/15/2017 11:30 | 11280.001 | 188 | 0.334 | 0.771 | 4.019 | 33.491 | 15.931 |
| 6/15/2017 11:30 | 11310.001 | 188.5 | 0.331 | 0.763 | 4.011 | 33.499 | 15.939 |
| 6/15/2017 11:31 | 11340.001 | 189 | 0.326 | 0.754 | 4.002 | 33.508 | 15.887 |
| 6/15/2017 11:31 | 11370.001 | 189.5 | 0.323 | 0.746 | 3.994 | 33.516 | 15.922 |
| 6/15/2017 11:32 | 11400.001 | 190 | 0.319 | 0.736 | 3.984 | 33.526 | 15.903 |
| 6/15/2017 11:32 | 11430.001 | 190.5 | 0.312 | 0.721 | 3.969 | 33.541 | 15.9 |
| 6/15/2017 11:33 | 11460.001 | 191 | 0.312 | 0.719 | 3.967 | 33.543 | 15.888 |
| 6/15/2017 11:33 | 11490.001 | 191.5 | 0.306 | 0.708 | 3.956 | 33.554 | 15.904 |
| 6/15/2017 11:34 | 11520.001 | 192 | 0.301 | 0.694 | 3.942 | 33.568 | 15.896 |
| 6/15/2017 11:34 | 11550.001 | 192.5 | 0.298 | 0.688 | 3.936 | 33.574 | 15.873 |
| 6/15/2017 11:35 | 11580.001 | 193 | 0.293 | 0.677 | 3.925 | 33.585 | 15.914 |
| 6/15/2017 11:35 | 11610.001 | 193.5 | 0.29 | 0.67 | 3.918 | 33.592 | 15.876 |
| 6/15/2017 11:36 | 11640.001 | 194 | 0.286 | 0.661 | 3.909 | 33.601 | 15.903 |
| 6/15/2017 11:36 | 11670.001 | 194.5 | 0.28 | 0.647 | 3.895 | 33.615 | 15.881 |
| 6/15/2017 11:37 | 11700.001 | 195 | 0.277 | 0.641 | 3.889 | 33.621 | 15.893 |
| 6/15/2017 11:37 | 11730.001 | 195.5 | 0.272 | 0.629 | 3.877 | 33.633 | 15.906 |
| 6/15/2017 11:38 | 11760.001 | 196 | 0.269 | 0.62 | 3.868 | 33.642 | 15.914 |
| 6/15/2017 11:38 | 11790.001 | 196.5 | 0.263 | 0.608 | 3.856 | 33.654 | 15.929 |
| 6/15/2017 11:39 | 11820.001 | 197 | 0.261 | 0.602 | 3.85 | 33.66 | 15.919 |
| 6/15/2017 11:39 | 11850.001 | 197.5 | 0.256 | 0.592 | 3.84 | 33.67 | 15.927 |

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| 6/15/2017 11:40 | 11880.001 | 198 | 0.25 | 0.578 | 3.826 | 33.684 | 15.892 |
| 6/15/2017 11:40 | 11910.001 | 198.5 | 0.25 | 0.577 | 3.825 | 33.685 | 15.914 |
| 6/15/2017 11:41 | 11940.001 | 199 | 0.25 | 0.578 | 3.826 | 33.684 | 15.857 |
| 6/15/2017 11:41 | 11970.001 | 199.5 | 0.249 | 0.575 | 3.823 | 33.687 | 15.868 |
| 6/15/2017 11:42 | 12000.001 | 200 | 0.249 | 0.574 | 3.822 | 33.688 | 15.854 |
| 6/15/2017 11:42 | 12030.001 | 200.5 | 0.25 | 0.578 | 3.826 | 33.684 | 15.799 |
| 6/15/2017 11:43 | 12060.001 | 201 | 0.252 | 0.582 | 3.83 | 33.68 | 15.826 |
| 6/15/2017 11:43 | 12090.001 | 201.5 | 0.25 | 0.577 | 3.825 | 33.685 | 15.793 |
| 6/15/2017 11:44 | 12120.001 | 202 | 0.249 | 0.575 | 3.823 | 33.687 | 15.793 |
| 6/15/2017 11:44 | 12150.001 | 202.5 | 0.247 | 0.57 | 3.818 | 33.692 | 15.798 |
| 6/15/2017 11:45 | 12180.001 | 203 | 0.249 | 0.576 | 3.824 | 33.686 | 15.77 |
| 6/15/2017 11:45 | 12210.001 | 203.5 | 0.249 | 0.575 | 3.823 | 33.687 | 15.767 |
| 6/15/2017 11:46 | 12240.001 | 204 | 0.25 | 0.577 | 3.825 | 33.685 | 15.757 |
| 6/15/2017 11:46 | 12270.001 | 204.5 | 0.25 | 0.577 | 3.825 | 33.685 | 15.745 |
| 6/15/2017 11:47 | 12300.001 | 205 | 0.253 | 0.584 | 3.832 | 33.678 | 15.744 |
| 6/15/2017 11:47 | 12330.001 | 205.5 | 0.25 | 0.576 | 3.824 | 33.686 | 15.776 |
| 6/15/2017 11:48 | 12360.001 | 206 | 0.247 | 0.571 | 3.819 | 33.691 | 15.731 |
| 6/15/2017 11:48 | 12390.001 | 206.5 | 0.247 | 0.57 | 3.818 | 33.692 | 15.745 |
| 6/15/2017 11:49 | 12420.001 | 207 | 0.249 | 0.575 | 3.823 | 33.687 | 15.728 |
| 6/15/2017 11:49 | 12450.001 | 207.5 | 0.249 | 0.575 | 3.823 | 33.687 | 15.727 |
| 6/15/2017 11:50 | 12480.001 | 208 | 0.249 | 0.574 | 3.822 | 33.688 | 15.712 |
| 6/15/2017 11:50 | 12510.001 | 208.5 | 0.248 | 0.573 | 3.821 | 33.689 | 15.716 |
| 6/15/2017 11:51 | 12540.001 | 209 | 0.249 | 0.576 | 3.824 | 33.686 | 15.723 |
| 6/15/2017 11:51 | 12570.001 | 209.5 | 0.247 | 0.57 | 3.818 | 33.692 | 15.72 |
| 6/15/2017 11:52 | 12600.001 | 210 | 0.25 | 0.576 | 3.824 | 33.686 | 15.736 |
| 6/15/2017 11:52 | 12630.001 | 210.5 | 0.251 | 0.579 | 3.827 | 33.683 | 15.696 |
| 6/15/2017 11:53 | 12660.001 | 211 | 0.252 | 0.581 | 3.829 | 33.681 | 15.692 |
| 6/15/2017 11:53 | 12690.001 | 211.5 | 0.248 | 0.573 | 3.821 | 33.689 | 15.711 |
| 6/15/2017 11:54 | 12720.001 | 212 | 0.249 | 0.576 | 3.824 | 33.686 | 15.72 |
| 6/15/2017 11:54 | 12750.001 | 212.5 | 0.25 | 0.577 | 3.825 | 33.685 | 15.681 |
| 6/15/2017 11:55 | 12780.001 | 213 | 0.248 | 0.572 | 3.82 | 33.69 | 15.707 |
| 6/15/2017 11:55 | 12810.001 | 213.5 | 0.249 | 0.575 | 3.823 | 33.687 | 15.704 |
| 6/15/2017 11:56 | 12840.001 | 214 | 0.245 | 0.565 | 3.813 | 33.697 | 15.678 |
| 6/15/2017 11:56 | 12870.001 | 214.5 | 0.25 | 0.576 | 3.824 | 33.686 | 15.646 |
| 6/15/2017 11:57 | 12900.001 | 215 | 0.25 | 0.577 | 3.825 | 33.685 | 15.667 |
| 6/15/2017 11:57 | 12930.001 | 215.5 | 0.249 | 0.574 | 3.822 | 33.688 | 15.694 |
| 6/15/2017 11:58 | 12960.001 | 216 | 0.25 | 0.578 | 3.826 | 33.684 | 15.691 |
| 6/15/2017 11:58 | 12990.001 | 216.5 | 0.251 | 0.579 | 3.827 | 33.683 | 15.68 |
| 6/15/2017 11:59 | 13020.001 | 217 | 0.249 | 0.576 | 3.824 | 33.686 | 15.691 |
| 6/15/2017 11:59 | 13050.001 | 217.5 | 0.247 | 0.571 | 3.819 | 33.691 | 15.672 |
| 6/15/2017 12:00 | 13080.001 | 218 | 0.248 | 0.572 | 3.82 | 33.69 | 15.65 |
| 6/15/2017 12:00 | 13110.001 | 218.5 | 0.248 | 0.573 | 3.821 | 33.689 | 15.671 |
| 6/15/2017 12:01 | 13140.001 | 219 | 0.251 | 0.58 | 3.828 | 33.682 | 15.653 |
| 6/15/2017 12:01 | 13170.001 | 219.5 | 0.253 | 0.583 | 3.831 | 33.679 | 15.651 |
| 6/15/2017 12:02 | 13200.001 | 220 | 0.246 | 0.567 | 3.815 | 33.695 | 15.634 |
| 6/15/2017 12:02 | 13230.001 | 220.5 | 0.251 | 0.58 | 3.828 | 33.682 | 15.656 |
| 6/15/2017 12:03 | 13260.001 | 221 | 0.249 | 0.574 | 3.822 | 33.688 | 15.679 |

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|-----------------|-----------|-------|-------|-------|-------|--------|--------|
| 6/15/2017 12:03 | 13290.001 | 221.5 | 0.248 | 0.573 | 3.821 | 33.689 | 15.671 |
| 6/15/2017 12:04 | 13320.001 | 222 | 0.249 | 0.574 | 3.822 | 33.688 | 15.681 |
| 6/15/2017 12:04 | 13350.001 | 222.5 | 0.254 | 0.586 | 3.834 | 33.676 | 15.654 |
| 6/15/2017 12:05 | 13380.001 | 223 | 0.251 | 0.579 | 3.827 | 33.683 | 15.657 |
| 6/15/2017 12:05 | 13410.001 | 223.5 | 0.249 | 0.574 | 3.822 | 33.688 | 15.643 |
| 6/15/2017 12:06 | 13440.001 | 224 | 0.249 | 0.574 | 3.822 | 33.688 | 15.657 |
| 6/15/2017 12:06 | 13470.001 | 224.5 | 0.248 | 0.573 | 3.821 | 33.689 | 15.614 |
| 6/15/2017 12:07 | 13500.001 | 225 | 0.249 | 0.575 | 3.823 | 33.687 | 15.644 |
| 6/15/2017 12:07 | 13530.001 | 225.5 | 0.247 | 0.571 | 3.819 | 33.691 | 15.665 |
| 6/15/2017 12:08 | 13560.001 | 226 | 0.252 | 0.582 | 3.83 | 33.68 | 15.651 |
| 6/15/2017 12:08 | 13590.001 | 226.5 | 0.249 | 0.575 | 3.823 | 33.687 | 15.653 |
| 6/15/2017 12:09 | 13620.001 | 227 | 0.244 | 0.562 | 3.81 | 33.7 | 15.646 |
| 6/15/2017 12:09 | 13650.001 | 227.5 | 0.249 | 0.574 | 3.822 | 33.688 | 15.652 |
| 6/15/2017 12:10 | 13680.001 | 228 | 0.25 | 0.576 | 3.824 | 33.686 | 15.653 |
| 6/15/2017 12:10 | 13710.04 | 228.5 | 0.246 | 0.568 | 3.816 | 33.694 | 15.642 |
| 6/15/2017 12:11 | 13740.083 | 229 | 0.251 | 0.579 | 3.827 | 33.683 | 15.637 |
| 6/15/2017 12:11 | 13770.001 | 229.5 | 0.252 | 0.583 | 3.831 | 33.679 | 15.626 |
| 6/15/2017 12:12 | 13800.001 | 230 | 0.251 | 0.58 | 3.828 | 33.682 | 15.612 |
| 6/15/2017 12:12 | 13830.025 | 230.5 | 0.247 | 0.57 | 3.818 | 33.692 | 15.643 |
| 6/15/2017 12:13 | 13860.069 | 231 | 0.25 | 0.576 | 3.824 | 33.686 | 15.637 |
| 6/15/2017 12:13 | 13890.097 | 231.5 | 0.248 | 0.572 | 3.82 | 33.69 | 15.637 |
| 6/15/2017 12:14 | 13920.001 | 232 | 0.25 | 0.576 | 3.824 | 33.686 | 15.621 |
| 6/15/2017 12:14 | 13950.011 | 232.5 | 0.247 | 0.57 | 3.818 | 33.692 | 15.621 |
| 6/15/2017 12:15 | 13980.054 | 233 | 0.248 | 0.573 | 3.821 | 33.689 | 15.567 |
| 6/15/2017 12:15 | 14010.098 | 233.5 | 0.252 | 0.581 | 3.829 | 33.681 | 15.618 |
| 6/15/2017 12:16 | 14040.001 | 234 | 0.249 | 0.574 | 3.822 | 33.688 | 15.594 |
| 6/15/2017 12:16 | 14070.001 | 234.5 | 0.245 | 0.567 | 3.815 | 33.695 | 15.62 |
| 6/15/2017 12:17 | 14100.001 | 235 | 0.252 | 0.581 | 3.829 | 33.681 | 15.621 |
| 6/15/2017 12:17 | 14130.001 | 235.5 | 0.251 | 0.579 | 3.827 | 33.683 | 15.637 |
| 6/15/2017 12:18 | 14160.001 | 236 | 0.25 | 0.578 | 3.826 | 33.684 | 15.594 |
| 6/15/2017 12:18 | 14190.001 | 236.5 | 0.25 | 0.577 | 3.825 | 33.685 | 15.616 |
| 6/15/2017 12:19 | 14220.001 | 237 | 0.249 | 0.576 | 3.824 | 33.686 | 15.618 |
| 6/15/2017 12:19 | 14250.001 | 237.5 | 0.248 | 0.572 | 3.82 | 33.69 | 15.605 |
| 6/15/2017 12:20 | 14280.001 | 238 | 0.252 | 0.581 | 3.829 | 33.681 | 15.601 |
| 6/15/2017 12:20 | 14310.001 | 238.5 | 0.248 | 0.573 | 3.821 | 33.689 | 15.641 |
| 6/15/2017 12:21 | 14340.001 | 239 | 0.253 | 0.584 | 3.832 | 33.678 | 15.629 |
| 6/15/2017 12:21 | 14370.001 | 239.5 | 0.249 | 0.575 | 3.823 | 33.687 | 15.668 |
| 6/15/2017 12:22 | 14400.001 | 240 | 0.249 | 0.576 | 3.824 | 33.686 | 15.65 |
| 6/15/2017 12:22 | 14430.001 | 240.5 | 0.248 | 0.573 | 3.821 | 33.689 | 15.647 |
| 6/15/2017 12:23 | 14460.001 | 241 | 0.25 | 0.577 | 3.825 | 33.685 | 15.653 |
| 6/15/2017 12:23 | 14490.001 | 241.5 | 0.252 | 0.582 | 3.83 | 33.68 | 15.619 |
| 6/15/2017 12:24 | 14520.001 | 242 | 0.248 | 0.573 | 3.821 | 33.689 | 15.676 |
| 6/15/2017 12:24 | 14550.001 | 242.5 | 0.247 | 0.569 | 3.817 | 33.693 | 15.63 |
| 6/15/2017 12:25 | 14580.001 | 243 | 0.251 | 0.579 | 3.827 | 33.683 | 15.653 |
| 6/15/2017 12:25 | 14610.001 | 243.5 | 0.25 | 0.577 | 3.825 | 33.685 | 15.643 |
| 6/15/2017 12:26 | 14640.001 | 244 | 0.246 | 0.569 | 3.817 | 33.693 | 15.643 |
| 6/15/2017 12:26 | 14670.001 | 244.5 | 0.251 | 0.58 | 3.828 | 33.682 | 15.597 |

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|-----------------|-----------|-------|-------|-------|-------|--------|--------|
| 6/15/2017 12:27 | 14700.001 | 245 | 0.251 | 0.58 | 3.828 | 33.682 | 15.594 |
| 6/15/2017 12:27 | 14730.001 | 245.5 | 0.248 | 0.573 | 3.821 | 33.689 | 15.63 |
| 6/15/2017 12:28 | 14760.001 | 246 | 0.25 | 0.577 | 3.825 | 33.685 | 15.637 |
| 6/15/2017 12:28 | 14790.001 | 246.5 | 0.249 | 0.574 | 3.822 | 33.688 | 15.605 |
| 6/15/2017 12:29 | 14820.001 | 247 | 0.247 | 0.571 | 3.819 | 33.691 | 15.633 |
| 6/15/2017 12:29 | 14850.001 | 247.5 | 0.249 | 0.576 | 3.824 | 33.686 | 15.626 |
| 6/15/2017 12:30 | 14880.001 | 248 | 0.25 | 0.578 | 3.826 | 33.684 | 15.599 |
| 6/15/2017 12:30 | 14910.001 | 248.5 | 0.252 | 0.581 | 3.829 | 33.681 | 15.613 |
| 6/15/2017 12:31 | 14940.001 | 249 | 0.249 | 0.575 | 3.823 | 33.687 | 15.648 |
| 6/15/2017 12:31 | 14970.001 | 249.5 | 0.251 | 0.579 | 3.827 | 33.683 | 15.656 |
| 6/15/2017 12:32 | 15000.001 | 250 | 0.247 | 0.569 | 3.817 | 33.693 | 15.586 |
| 6/15/2017 12:32 | 15030.001 | 250.5 | 0.252 | 0.581 | 3.829 | 33.681 | 15.597 |
| 6/15/2017 12:33 | 15060.001 | 251 | 0.247 | 0.57 | 3.818 | 33.692 | 15.607 |
| 6/15/2017 12:33 | 15090.001 | 251.5 | 0.248 | 0.573 | 3.821 | 33.689 | 15.637 |
| 6/15/2017 12:34 | 15120.001 | 252 | 0.252 | 0.581 | 3.829 | 33.681 | 15.661 |
| 6/15/2017 12:34 | 15150.001 | 252.5 | 0.247 | 0.571 | 3.819 | 33.691 | 15.621 |
| 6/15/2017 12:35 | 15180.001 | 253 | 0.248 | 0.573 | 3.821 | 33.689 | 15.6 |
| 6/15/2017 12:35 | 15210.001 | 253.5 | 0.248 | 0.573 | 3.821 | 33.689 | 15.644 |
| 6/15/2017 12:36 | 15240.001 | 254 | 0.253 | 0.584 | 3.832 | 33.678 | 15.645 |
| 6/15/2017 12:36 | 15270.001 | 254.5 | 0.248 | 0.572 | 3.82 | 33.69 | 15.605 |
| 6/15/2017 12:37 | 15300.001 | 255 | 0.252 | 0.582 | 3.83 | 33.68 | 15.614 |
| 6/15/2017 12:37 | 15330.001 | 255.5 | 0.25 | 0.578 | 3.826 | 33.68 | 15.618 |
| 6/15/2017 12:38 | 15360.001 | 256 | 0.25 | 0.578 | 3.824 | 33.684 | 15.601 |
| 6/15/2017 12:38 | 15390.001 | 256.5 | 0.25 | 0.576 | 3.824 | 33.686 | 15.626 |
| 6/15/2017 12:39 | 15420.001 | 257 | 0.25 | 0.578 | 3.826 | 33.684 | 15.611 |
| 6/15/2017 12:39 | 15450.001 | 257.5 | 0.252 | 0.582 | 3.83 | 33.68 | 15.624 |
| 6/15/2017 12:40 | 15480.001 | 258 | 0.252 | 0.581 | 3.829 | 33.681 | 15.592 |
| 6/15/2017 12:40 | 15510.001 | 258.5 | 0.25 | 0.576 | 3.824 | 33.686 | 15.602 |
| 6/15/2017 12:41 | 15540.001 | 259 | 0.248 | 0.574 | 3.822 | 33.688 | 15.64 |
| 6/15/2017 12:41 | 15570.001 | 259.5 | 0.252 | 0.581 | 3.829 | 33.681 | 15.659 |
| 6/15/2017 12:42 | 15600.001 | 260 | 0.25 | 0.577 | 3.825 | 33.685 | 15.621 |
| 6/15/2017 12:42 | 15630.001 | 260.5 | 0.251 | 0.579 | 3.827 | 33.683 | 15.616 |
| 6/15/2017 12:43 | 15660.001 | 261 | 0.249 | 0.575 | 3.823 | 33.687 | 15.626 |
| 6/15/2017 12:43 | 15690.001 | 261.5 | 0.252 | 0.583 | 3.831 | 33.679 | 15.636 |
| 6/15/2017 12:44 | 15720.001 | 262 | 0.248 | 0.573 | 3.821 | 33.689 | 15.641 |
| 6/15/2017 12:44 | 15750.001 | 262.5 | 0.249 | 0.575 | 3.823 | 33.687 | 15.621 |
| 6/15/2017 12:45 | 15780.001 | 263 | 0.251 | 0.579 | 3.827 | 33.683 | 15.609 |
| 6/15/2017 12:45 | 15810.001 | 263.5 | 0.25 | 0.578 | 3.826 | 33.684 | 15.61 |
| 6/15/2017 12:46 | 15840.001 | 264 | 0.249 | 0.575 | 3.823 | 33.687 | 15.609 |
| 6/15/2017 12:46 | 15870.001 | 264.5 | 0.236 | 0.545 | 3.793 | 33.717 | 15.597 |
| 6/15/2017 12:47 | 15900.001 | 265 | 0.248 | 0.573 | 3.821 | 33.689 | 15.616 |
| 6/15/2017 12:47 | 15930.001 | 265.5 | 0.252 | 0.581 | 3.829 | 33.681 | 15.624 |
| 6/15/2017 12:48 | 15960.001 | 266 | 0.248 | 0.574 | 3.822 | 33.688 | 15.592 |
| 6/15/2017 12:48 | 15990.001 | 266.5 | 0.25 | 0.578 | 3.826 | 33.684 | 15.63 |
| 6/15/2017 12:49 | 16020.001 | 267 | 0.25 | 0.577 | 3.825 | 33.685 | 15.59 |
| 6/15/2017 12:49 | 16050.001 | 267.5 | 0.25 | 0.578 | 3.826 | 33.684 | 15.61 |
| 6/15/2017 12:50 | 16080.001 | 268 | 0.25 | 0.577 | 3.825 | 33.685 | 15.605 |

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|-----------------|-----------|-------|-------|-------|-------|--------|--------|
| 6/15/2017 12:50 | 16110.001 | 268.5 | 0.251 | 0.579 | 3.827 | 33.683 | 15.605 |
| 6/15/2017 12:51 | 16140.001 | 269 | 0.246 | 0.569 | 3.817 | 33.693 | 15.618 |
| 6/15/2017 12:51 | 16170.001 | 269.5 | 0.248 | 0.573 | 3.821 | 33.689 | 15.594 |
| 6/15/2017 12:52 | 16200.001 | 270 | 0.248 | 0.573 | 3.821 | 33.689 | 15.594 |
| 6/15/2017 12:52 | 16230.001 | 270.5 | 0.25 | 0.578 | 3.826 | 33.684 | 15.579 |
| 6/15/2017 12:53 | 16260.001 | 271 | 0.25 | 0.576 | 3.824 | 33.686 | 15.607 |
| 6/15/2017 12:53 | 16290.001 | 271.5 | 0.252 | 0.582 | 3.83 | 33.68 | 15.616 |
| 6/15/2017 12:54 | 16320.001 | 272 | 0.249 | 0.575 | 3.823 | 33.687 | 15.61 |
| 6/15/2017 12:54 | 16350.001 | 272.5 | 0.247 | 0.571 | 3.819 | 33.691 | 15.585 |
| 6/15/2017 12:55 | 16380.001 | 273 | 0.246 | 0.567 | 3.815 | 33.695 | 15.597 |
| 6/15/2017 12:55 | 16410.001 | 273.5 | 0.249 | 0.576 | 3.824 | 33.686 | 15.581 |
| 6/15/2017 12:56 | 16440.001 | 274 | 0.25 | 0.578 | 3.826 | 33.684 | 15.632 |
| 6/15/2017 12:56 | 16470.001 | 274.5 | 0.248 | 0.574 | 3.822 | 33.688 | 15.6 |
| 6/15/2017 12:57 | 16500.001 | 275 | 0.249 | 0.574 | 3.822 | 33.688 | 15.592 |
| 6/15/2017 12:57 | 16530.001 | 275.5 | 0.248 | 0.573 | 3.821 | 33.689 | 15.581 |
| 6/15/2017 12:58 | 16560.001 | 276 | 0.25 | 0.577 | 3.825 | 33.685 | 15.605 |
| 6/15/2017 12:58 | 16590.001 | 276.5 | 0.249 | 0.574 | 3.822 | 33.688 | 15.6 |
| 6/15/2017 12:59 | 16620.001 | 277 | 0.248 | 0.572 | 3.82 | 33.69 | 15.592 |
| 6/15/2017 12:59 | 16650.001 | 277.5 | 0.249 | 0.576 | 3.824 | 33.686 | 15.586 |
| 6/15/2017 13:00 | 16680.001 | 278 | 0.25 | 0.578 | 3.826 | 33.684 | 15.612 |
| 6/15/2017 13:00 | 16710.001 | 278.5 | 0.25 | 0.578 | 3.826 | 33.684 | 15.608 |
| 6/15/2017 13:01 | 16740.001 | 279 | 0.249 | 0.576 | 3.824 | 33.686 | 15.603 |
| 6/15/2017 13:01 | 16770.001 | 279.5 | 0.247 | 0.57 | 3.818 | 33.692 | 15.589 |
| 6/15/2017 13:02 | 16800.001 | 280 | 0.248 | 0.573 | 3.821 | 33.689 | 15.569 |
| 6/15/2017 13:02 | 16830.001 | 280.5 | 0.25 | 0.577 | 3.825 | 33.685 | 15.578 |
| 6/15/2017 13:03 | 16860.001 | 281 | 0.249 | 0.575 | 3.823 | 33.687 | 15.6 |
| 6/15/2017 13:03 | 16890.001 | 281.5 | 0.25 | 0.578 | 3.826 | 33.684 | 15.598 |
| 6/15/2017 13:04 | 16920.001 | 282 | 0.25 | 0.577 | 3.825 | 33.685 | 15.565 |
| 6/15/2017 13:04 | 16950.001 | 282.5 | 0.252 | 0.581 | 3.829 | 33.681 | 15.595 |
| 6/15/2017 13:05 | 16980.001 | 283 | 0.301 | 0.696 | 3.944 | 33.566 | 15.612 |
| 6/15/2017 13:05 | 17010.001 | 283.5 | 0.416 | 0.96 | 4.208 | 33.302 | 15.565 |
| 6/15/2017 13:06 | 17040.001 | 284 | 0.526 | 1.213 | 4.461 | 33.049 | 15.526 |
| 6/15/2017 13:06 | 17070.001 | 284.5 | 0.625 | 1.443 | 4.691 | 32.819 | 15.493 |
| 6/15/2017 13:07 | 17100.001 | 285 | 0.517 | 1.194 | 4.442 | 33.068 | 15.406 |
| 6/15/2017 13:07 | 17130.001 | 285.5 | 0.609 | 1.407 | 4.655 | 32.855 | 15.336 |
| 6/15/2017 13:08 | 17160.001 | 286 | 0.625 | 1.444 | 4.692 | 32.818 | 15.263 |
| 6/15/2017 13:08 | 17190.001 | 286.5 | 0.808 | 1.865 | 5.113 | 32.397 | 15.192 |
| 6/15/2017 13:09 | 17220.001 | 287 | 0.899 | 2.075 | 5.323 | 32.187 | 15.116 |
| 6/15/2017 13:09 | 17250.001 | 287.5 | 0.986 | 2.277 | 5.525 | 31.985 | 15.057 |
| 6/15/2017 13:10 | 17280.001 | 288 | 1.081 | 2.497 | 5.745 | 31.765 | 15.01 |
| 6/15/2017 13:10 | 17310.001 | 288.5 | 1.174 | 2.71 | 5.958 | 31.552 | 14.991 |
| 6/15/2017 13:11 | 17340.001 | 289 | 1.263 | 2.917 | 6.165 | 31.345 | 14.95 |
| 6/15/2017 13:11 | 17370.001 | 289.5 | 1.351 | 3.119 | 6.367 | 31.143 | 14.924 |
| 6/15/2017 13:12 | 17400.001 | 290 | 1.431 | 3.305 | 6.553 | 30.957 | 14.931 |
| 6/15/2017 13:12 | 17430.001 | 290.5 | 1.515 | 3.498 | 6.746 | 30.764 | 14.909 |
| 6/15/2017 13:13 | 17460.001 | 291 | 1.599 | 3.691 | 6.939 | 30.571 | 14.905 |
| 6/15/2017 13:13 | 17490.001 | 291.5 | 1.684 | 3.889 | 7.137 | 30.373 | 14.948 |

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|-----------------|-----------|-------|-------|-------|--------|--------|--------|
| 6/15/2017 13:14 | 17520.001 | 292 | 1.767 | 4.081 | 7.329 | 30.181 | 14.881 |
| 6/15/2017 13:14 | 17550.001 | 292.5 | 1.856 | 4.286 | 7.534 | 29.976 | 14.871 |
| 6/15/2017 13:15 | 17580.001 | 293 | 1.938 | 4.475 | 7.723 | 29.787 | 14.843 |
| 6/15/2017 13:15 | 17610.001 | 293.5 | 2.02 | 4.664 | 7.912 | 29.598 | 14.784 |
| 6/15/2017 13:16 | 17640.001 | 294 | 2.105 | 4.861 | 8.109 | 29.401 | 14.794 |
| 6/15/2017 13:16 | 17670.001 | 294.5 | 2.19 | 5.058 | 8.306 | 29.204 | 14.806 |
| 6/15/2017 13:17 | 17700.001 | 295 | 2.272 | 5.245 | 8.493 | 29.017 | 14.79 |
| 6/15/2017 13:17 | 17730.001 | 295.5 | 2.349 | 5.424 | 8.672 | 28.838 | 14.746 |
| 6/15/2017 13:18 | 17760.001 | 296 | 2.432 | 5.615 | 8.863 | 28.647 | 14.784 |
| 6/15/2017 13:18 | 17790.001 | 296.5 | 2.504 | 5.781 | 9.029 | 28.481 | 14.749 |
| 6/15/2017 13:19 | 17820.001 | 297 | 2.577 | 5.949 | 9.197 | 28.313 | 14.767 |
| 6/15/2017 13:19 | 17850.001 | 297.5 | 2.647 | 6.112 | 9.36 | 28.15 | 14.75 |
| 6/15/2017 13:20 | 17880.001 | 298 | 2.718 | 6.275 | 9.523 | 27.987 | 14.735 |
| 6/15/2017 13:20 | 17910.001 | 298.5 | 2.793 | 6.45 | 9.698 | 27.812 | 14.718 |
| 6/15/2017 13:21 | 17940.001 | 299 | 2.865 | 6.616 | 9.864 | 27.646 | 14.671 |
| 6/15/2017 13:21 | 17970.001 | 299.5 | 2.936 | 6.78 | 10.028 | 27.482 | 14.676 |
| 6/15/2017 13:22 | 18000.001 | 300 | 3.004 | 6.937 | 10.185 | 27.325 | 14.647 |
| 6/15/2017 13:22 | 18030.001 | 300.5 | 3.066 | 7.08 | 10.328 | 27.182 | 14.686 |
| 6/15/2017 13:23 | 18060.001 | 301 | 3.129 | 7.226 | 10.474 | 27.036 | 14.658 |
| 6/15/2017 13:23 | 18090.001 | 301.5 | 3.184 | 7.352 | 10.6 | 26.91 | 14.678 |
| 6/15/2017 13:24 | 18120.001 | 302 | 3.241 | 7.484 | 10.732 | 26.778 | 14.672 |
| 6/15/2017 13:24 | 18150.001 | 302.5 | 3.294 | 7.605 | 10.853 | 26.657 | 14.668 |
| 6/15/2017 13:25 | 18180.001 | 303 | 3.342 | 7.717 | 10.965 | 26.545 | 14.662 |
| 6/15/2017 13:25 | 18210.001 | 303.5 | 3.391 | 7.829 | 11.077 | 26.433 | 14.627 |
| 6/15/2017 13:26 | 18240.001 | 304 | 3.442 | 7.947 | 11.195 | 26.315 | 14.635 |
| 6/15/2017 13:26 | 18270.001 | 304.5 | 3.492 | 8.062 | 11.31 | 26.2 | 14.656 |
| 6/15/2017 13:27 | 18300.001 | 305 | 3.544 | 8.184 | 11.432 | 26.078 | 14.658 |
| 6/15/2017 13:27 | 18330.001 | 305.5 | 3.596 | 8.302 | 11.55 | 25.96 | 14.66 |
| 6/15/2017 13:28 | 18360.001 | 306 | 3.648 | 8.423 | 11.671 | 25.839 | 14.607 |
| 6/15/2017 13:28 | 18390.001 | 306.5 | 3.698 | 8.539 | 11.787 | 25.723 | 14.663 |
| 6/15/2017 13:29 | 18420.001 | 307 | 3.743 | 8.643 | 11.891 | 25.619 | 14.602 |
| 6/15/2017 13:29 | 18450.001 | 307.5 | 3.785 | 8.74 | 11.988 | 25.522 | 14.594 |
| 6/15/2017 13:30 | 18480.001 | 308 | 3.827 | 8.836 | 12.084 | 25.426 | 14.597 |
| 6/15/2017 13:30 | 18510.001 | 308.5 | 3.868 | 8.931 | 12.179 | 25.331 | 14.596 |
| 6/15/2017 13:31 | 18540.001 | 309 | 3.904 | 9.015 | 12.263 | 25.247 | 14.578 |
| 6/15/2017 13:31 | 18570.001 | 309.5 | 3.937 | 9.091 | 12.339 | 25.171 | 14.562 |
| 6/15/2017 13:32 | 18600.001 | 310 | 3.969 | 9.165 | 12.413 | 25.097 | 14.587 |
| 6/15/2017 13:32 | 18630.001 | 310.5 | 4.001 | 9.238 | 12.486 | 25.024 | 14.599 |
| 6/15/2017 13:33 | 18660.001 | 311 | 4.035 | 9.316 | 12.564 | 24.946 | 14.586 |
| 6/15/2017 13:33 | 18690.001 | 311.5 | 4.064 | 9.383 | 12.631 | 24.879 | 14.599 |
| 6/15/2017 13:34 | 18720.001 | 312 | 4.092 | 9.449 | 12.697 | 24.813 | 14.581 |
| 6/15/2017 13:34 | 18750.001 | 312.5 | 4.124 | 9.522 | 12.77 | 24.74 | 14.563 |
| 6/15/2017 13:35 | 18780.001 | 313 | 4.152 | 9.587 | 12.835 | 24.675 | 14.553 |
| 6/15/2017 13:35 | 18810.001 | 313.5 | 4.179 | 9.649 | 12.897 | 24.613 | 14.524 |
| 6/15/2017 13:36 | 18840.001 | 314 | 4.207 | 9.715 | 12.963 | 24.547 | 14.52 |
| 6/15/2017 13:36 | 18870.001 | 314.5 | 4.238 | 9.785 | 13.033 | 24.477 | 14.549 |
| 6/15/2017 13:37 | 18900.001 | 315 | 4.262 | 9.84 | 13.088 | 24.422 | 14.507 |

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|-----------------|-----------|-------|-------|--------|--------|--------|--------|
| 6/15/2017 13:37 | 18930.001 | 315.5 | 4.288 | 9.902 | 13.15 | 24.36 | 14.499 |
| 6/15/2017 13:38 | 18960.001 | 316 | 4.312 | 9.957 | 13.205 | 24.305 | 14.529 |
| 6/15/2017 13:38 | 18990.001 | 316.5 | 4.34 | 10.022 | 13.27 | 24.24 | 14.521 |
| 6/15/2017 13:39 | 19020.001 | 317 | 4.366 | 10.082 | 13.33 | 24.18 | 14.535 |
| 6/15/2017 13:39 | 19050.001 | 317.5 | 4.392 | 10.141 | 13.389 | 24.121 | 14.526 |
| 6/15/2017 13:40 | 19080.001 | 318 | 4.414 | 10.193 | 13.441 | 24.069 | 14.539 |
| 6/15/2017 13:40 | 19110.001 | 318.5 | 4.436 | 10.242 | 13.49 | 24.02 | 14.524 |
| 6/15/2017 13:41 | 19140.001 | 319 | 4.461 | 10.301 | 13.549 | 23.961 | 14.53 |
| 6/15/2017 13:41 | 19170.001 | 319.5 | 4.486 | 10.358 | 13.606 | 23.904 | 14.518 |
| 6/15/2017 13:42 | 19200.001 | 320 | 4.508 | 10.409 | 13.657 | 23.853 | 14.518 |
| 6/15/2017 13:42 | 19230.001 | 320.5 | 4.528 | 10.455 | 13.703 | 23.807 | 14.486 |
| 6/15/2017 13:43 | 19260.001 | 321 | 4.552 | 10.511 | 13.759 | 23.751 | 14.51 |
| 6/15/2017 13:43 | 19290.001 | 321.5 | 4.574 | 10.56 | 13.808 | 23.702 | 14.518 |
| 6/15/2017 13:43 | 19320.001 | 322 | 4.594 | 10.607 | 13.855 | 23.655 | 14.497 |
| 6/15/2017 13:44 | 19350.001 | 322.5 | 4.617 | 10.66 | 13.908 | 23.602 | 14.502 |
| 6/15/2017 13:44 | 19380.001 | 323 | 4.636 | 10.705 | 13.953 | 23.557 | 14.468 |
| 6/15/2017 13:45 | 19410.001 | 323.5 | 4.659 | 10.758 | 14.006 | 23.504 | 14.512 |
| 6/15/2017 13:45 | 19440.001 | 324 | 4.681 | 10.808 | 14.056 | 23.454 | 14.489 |
| 6/15/2017 13:46 | 19470.001 | 324.5 | 4.698 | 10.849 | 14.097 | 23.413 | 14.512 |
| 6/15/2017 13:46 | 19500.001 | 325 | 4.716 | 10.889 | 14.137 | 23.373 | 14.483 |
| 6/15/2017 13:47 | 19530.001 | 325.5 | 4.738 | 10.939 | 14.187 | 23.323 | 14.5 |
| 6/15/2017 13:48 | 19560.001 | 326 | 4.755 | 10.979 | 14.227 | 23.283 | 14.491 |
| 6/15/2017 13:48 | 19590.001 | 326.5 | 4.775 | 11.025 | 14.273 | 23.237 | 14.465 |
| 6/15/2017 13:49 | 19620.001 | 327 | 4.794 | 11.069 | 14.317 | 23.193 | 14.46 |
| 6/15/2017 13:49 | 19650.001 | 327.5 | 4.812 | 11.112 | 14.36 | 23.15 | 14.457 |
| 6/15/2017 13:50 | 19680.001 | 328 | 4.827 | 11.145 | 14.393 | 23.117 | 14.448 |
| 6/15/2017 13:50 | 19710.001 | 328.5 | 4.848 | 11.194 | 14.442 | 23.068 | 14.426 |
| 6/15/2017 13:51 | 19740.001 | 329 | 4.863 | 11.229 | 14.477 | 23.033 | 14.444 |
| 6/15/2017 13:51 | 19770.001 | 329.5 | 4.879 | 11.266 | 14.514 | 22.996 | 14.448 |
| 6/15/2017 13:52 | 19800.001 | 330 | 4.894 | 11.3 | 14.548 | 22.962 | 14.461 |
| 6/15/2017 13:52 | 19830.001 | 330.5 | 4.911 | 11.339 | 14.587 | 22.923 | 14.453 |
| 6/15/2017 13:53 | 19860.001 | 331 | 4.928 | 11.378 | 14.626 | 22.884 | 14.469 |
| 6/15/2017 13:53 | 19890.001 | 331.5 | 4.944 | 11.414 | 14.662 | 22.848 | 14.464 |
| 6/15/2017 13:54 | 19920.001 | 332 | 4.959 | 11.45 | 14.698 | 22.812 | 14.453 |
| 6/15/2017 13:54 | 19950.001 | 332.5 | 4.976 | 11.49 | 14.738 | 22.772 | 14.455 |
| 6/15/2017 13:55 | 19980.001 | 333 | 4.99 | 11.521 | 14.769 | 22.741 | 14.429 |
| 6/15/2017 13:55 | 20010.001 | 333.5 | 5.005 | 11.557 | 14.805 | 22.705 | 14.453 |
| 6/15/2017 13:56 | 20040.001 | 334 | 5.026 | 11.604 | 14.852 | 22.658 | 14.437 |
| 6/15/2017 13:56 | 20070.001 | 334.5 | 5.045 | 11.648 | 14.896 | 22.614 | 14.423 |
| 6/15/2017 13:57 | 20100.001 | 335 | 5.069 | 11.703 | 14.951 | 22.559 | 14.446 |
| 6/15/2017 13:57 | 20130.001 | 335.5 | 5.088 | 11.748 | 14.996 | 22.514 | 14.434 |
| 6/15/2017 13:58 | 20160.001 | 336 | 5.108 | 11.795 | 15.043 | 22.467 | 14.44 |
| 6/15/2017 13:58 | 20190.001 | 336.5 | 5.128 | 11.84 | 15.088 | 22.422 | 14.437 |
| 6/15/2017 13:59 | 20220.001 | 337 | 5.146 | 11.881 | 15.129 | 22.381 | 14.437 |
| 6/15/2017 13:59 | 20250.001 | 337.5 | 5.166 | 11.928 | 15.176 | 22.334 | 14.437 |
| 6/15/2017 14:00 | 20280.001 | 338 | 5.185 | 11.971 | 15.219 | 22.291 | 14.434 |
| 6/15/2017 14:00 | 20310.001 | 338.5 | 5.206 | 12.02 | 15.268 | 22.242 | 14.432 |

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|-----------------|-----------|-------|-------|--------|--------|--------|--------|
| 6/15/2017 14:01 | 20340.001 | 339 | 5.222 | 12.058 | 15.306 | 22.204 | 14.444 |
| 6/15/2017 14:01 | 20370.001 | 339.5 | 5.239 | 12.098 | 15.346 | 22.164 | 14.423 |
| 6/15/2017 14:02 | 20400.001 | 340 | 5.257 | 12.139 | 15.387 | 22.123 | 14.415 |
| 6/15/2017 14:02 | 20430.001 | 340.5 | 5.273 | 12.176 | 15.424 | 22.086 | 14.43 |
| 6/15/2017 14:03 | 20460.001 | 341 | 5.286 | 12.204 | 15.452 | 22.058 | 14.425 |
| 6/15/2017 14:03 | 20490.001 | 341.5 | 5.303 | 12.244 | 15.492 | 22.018 | 14.413 |
| 6/15/2017 14:04 | 20520.001 | 342 | 5.32 | 12.284 | 15.532 | 21.978 | 14.434 |
| 6/15/2017 14:04 | 20550.001 | 342.5 | 5.334 | 12.317 | 15.565 | 21.945 | 14.425 |
| 6/15/2017 14:05 | 20580.001 | 343 | 5.35 | 12.352 | 15.6 | 21.91 | 14.411 |
| 6/15/2017 14:05 | 20610.001 | 343.5 | 5.363 | 12.384 | 15.632 | 21.878 | 14.408 |
| 6/15/2017 14:06 | 20640.001 | 344 | 5.379 | 12.421 | 15.669 | 21.841 | 14.405 |
| 6/15/2017 14:06 | 20670.001 | 344.5 | 5.392 | 12.45 | 15.698 | 21.812 | 14.381 |
| 6/15/2017 14:07 | 20700.001 | 345 | 5.407 | 12.484 | 15.732 | 21.778 | 14.399 |
| 6/15/2017 14:07 | 20730.001 | 345.5 | 5.424 | 12.523 | 15.771 | 21.739 | 14.396 |
| 6/15/2017 14:08 | 20760.001 | 346 | 5.432 | 12.541 | 15.789 | 21.721 | 14.394 |
| 6/15/2017 14:08 | 20790.001 | 346.5 | 5.444 | 12.571 | 15.819 | 21.691 | 14.408 |
| 6/15/2017 14:09 | 20820.001 | 347 | 5.457 | 12.601 | 15.849 | 21.661 | 14.373 |
| 6/15/2017 14:09 | 20850.001 | 347.5 | 5.469 | 12.628 | 15.876 | 21.634 | 14.366 |
| 6/15/2017 14:10 | 20880.001 | 348 | 5.482 | 12.657 | 15.905 | 21.605 | 14.367 |
| 6/15/2017 14:10 | 20910.001 | 348.5 | 5.492 | 12.68 | 15.928 | 21.582 | 14.364 |
| 6/15/2017 14:11 | 20940.001 | 349 | 5.505 | 12.711 | 15.959 | 21.551 | 14.387 |
| 6/15/2017 14:11 | 20970.001 | 349.5 | 5.515 | 12.735 | 15.983 | 21.527 | 14.345 |
| 6/15/2017 14:12 | 21000.001 | 350 | 5.527 | 12.761 | 16.009 | 21.501 | 14.366 |
| 6/15/2017 14:12 | 21030.001 | 350.5 | 5.538 | 12.788 | 16.036 | 21.474 | 14.362 |
| 6/15/2017 14:13 | 21060.001 | 351 | 5.547 | 12.808 | 16.056 | 21.454 | 14.362 |
| 6/15/2017 14:13 | 21090.001 | 351.5 | 5.558 | 12.833 | 16.081 | 21.429 | 14.386 |
| 6/15/2017 14:14 | 21120.001 | 352 | 5.567 | 12.855 | 16.103 | 21.407 | 14.379 |
| 6/15/2017 14:14 | 21150.001 | 352.5 | 5.577 | 12.877 | 16.125 | 21.385 | 14.387 |
| 6/15/2017 14:15 | 21180.001 | 353 | 5.59 | 12.906 | 16.154 | 21.356 | 14.379 |
| 6/15/2017 14:15 | 21210.001 | 353.5 | 5.598 | 12.926 | 16.174 | 21.336 | 14.356 |
| 6/15/2017 14:16 | 21240.001 | 354 | 5.606 | 12.944 | 16.192 | 21.318 | 14.366 |
| 6/15/2017 14:16 | 21270.001 | 354.5 | 5.617 | 12.97 | 16.218 | 21.292 | 14.363 |
| 6/15/2017 14:17 | 21300.001 | 355 | 5.626 | 12.991 | 16.239 | 21.271 | 14.361 |
| 6/15/2017 14:17 | 21330.001 | 355.5 | 5.633 | 13.006 | 16.254 | 21.256 | 14.361 |
| 6/15/2017 14:18 | 21360.001 | 356 | 5.642 | 13.026 | 16.274 | 21.236 | 14.36 |
| 6/15/2017 14:18 | 21390.001 | 356.5 | 5.65 | 13.046 | 16.294 | 21.216 | 14.369 |
| 6/15/2017 14:19 | 21420.001 | 357 | 5.658 | 13.064 | 16.312 | 21.198 | 14.345 |
| 6/15/2017 14:19 | 21450.001 | 357.5 | 5.667 | 13.086 | 16.334 | 21.176 | 14.339 |
| 6/15/2017 14:20 | 21480.001 | 358 | 5.677 | 13.107 | 16.355 | 21.155 | 14.369 |
| 6/15/2017 14:20 | 21510.001 | 358.5 | 5.682 | 13.12 | 16.368 | 21.142 | 14.348 |
| 6/15/2017 14:21 | 21540.001 | 359 | 5.688 | 13.133 | 16.381 | 21.129 | 14.36 |
| 6/15/2017 14:21 | 21570.001 | 359.5 | 5.694 | 13.148 | 16.396 | 21.114 | 14.34 |
| 6/15/2017 14:22 | 21600.001 | 360 | 5.706 | 13.174 | 16.422 | 21.088 | 14.359 |
| 6/15/2017 14:22 | 21630.001 | 360.5 | 5.711 | 13.186 | 16.434 | 21.076 | 14.369 |
| 6/15/2017 14:23 | 21660.001 | 361 | 5.717 | 13.2 | 16.448 | 21.062 | 14.338 |
| 6/15/2017 14:23 | 21690.001 | 361.5 | 5.725 | 13.218 | 16.466 | 21.044 | 14.339 |
| 6/15/2017 14:24 | 21720.001 | 362 | 5.731 | 13.233 | 16.481 | 21.029 | 14.362 |

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|-----------------|-----------|-------|-------|--------|--------|--------|--------|
| 6/15/2017 14:24 | 21750.001 | 362.5 | 5.736 | 13.245 | 16.493 | 21.017 | 14.323 |
| 6/15/2017 14:25 | 21780.001 | 363 | 5.745 | 13.266 | 16.514 | 20.996 | 14.343 |
| 6/15/2017 14:25 | 21810.001 | 363.5 | 5.753 | 13.283 | 16.531 | 20.979 | 14.353 |
| 6/15/2017 14:26 | 21840.001 | 364 | 5.758 | 13.295 | 16.543 | 20.967 | 14.328 |
| 6/15/2017 14:26 | 21870.001 | 364.5 | 5.76 | 13.3 | 16.548 | 20.962 | 14.333 |
| 6/15/2017 14:27 | 21900.001 | 365 | 5.77 | 13.323 | 16.571 | 20.939 | 14.325 |
| 6/15/2017 14:27 | 21930.001 | 365.5 | 5.776 | 13.338 | 16.586 | 20.924 | 14.337 |
| 6/15/2017 14:28 | 21960.001 | 366 | 5.78 | 13.345 | 16.593 | 20.917 | 14.347 |
| 6/15/2017 14:28 | 21990.001 | 366.5 | 5.786 | 13.36 | 16.608 | 20.902 | 14.344 |
| 6/15/2017 14:29 | 22020.001 | 367 | 5.791 | 13.371 | 16.619 | 20.891 | 14.321 |
| 6/15/2017 14:29 | 22050.001 | 367.5 | 5.797 | 13.386 | 16.634 | 20.876 | 14.358 |
| 6/15/2017 14:30 | 22080.001 | 368 | 5.801 | 13.395 | 16.643 | 20.867 | 14.315 |
| 6/15/2017 14:30 | 22110.001 | 368.5 | 5.807 | 13.409 | 16.657 | 20.853 | 14.337 |
| 6/15/2017 14:31 | 22140.001 | 369 | 5.811 | 13.418 | 16.666 | 20.844 | 14.352 |
| 6/15/2017 14:31 | 22170.001 | 369.5 | 5.819 | 13.435 | 16.683 | 20.827 | 14.326 |
| 6/15/2017 14:31 | 22200.001 | 370 | 5.821 | 13.44 | 16.688 | 20.822 | 14.342 |
| 6/15/2017 14:32 | 22230.001 | 370.5 | 5.827 | 13.454 | 16.702 | 20.808 | 14.351 |
| 6/15/2017 14:32 | 22260.001 | 371 | 5.83 | 13.461 | 16.709 | 20.801 | 14.332 |
| 6/15/2017 14:33 | 22290.001 | 371.5 | 5.834 | 13.47 | 16.718 | 20.792 | 14.342 |
| 6/15/2017 14:33 | 22320.001 | 372 | 5.841 | 13.486 | 16.734 | 20.776 | 14.356 |
| 6/15/2017 14:34 | 22350.001 | 372.5 | 5.843 | 13.492 | 16.74 | 20.77 | 14.348 |
| 6/15/2017 14:34 | 22380.001 | 373 | 5.848 | 13.503 | 16.751 | 20.759 | 14.319 |
| 6/15/2017 14:35 | 22410.001 | 373.5 | 5.851 | 13.509 | 16.757 | 20.753 | 14.321 |
| 6/15/2017 14:36 | 22440.001 | 374 | 5.856 | 13.521 | 16.769 | 20.741 | 14.343 |
| 6/15/2017 14:36 | 22470.001 | 374.5 | 5.861 | 13.532 | 16.78 | 20.73 | 14.333 |
| 6/15/2017 14:37 | 22500.001 | 375 | 5.861 | 13.534 | 16.782 | 20.728 | 14.304 |
| 6/15/2017 14:37 | 22530.001 | 375.5 | 5.868 | 13.549 | 16.797 | 20.713 | 14.309 |
| 6/15/2017 14:37 | 22560.001 | 376 | 5.871 | 13.557 | 16.805 | 20.705 | 14.314 |
| 6/15/2017 14:38 | 22590.001 | 376.5 | 5.875 | 13.564 | 16.812 | 20.698 | 14.338 |
| 6/15/2017 14:38 | 22620.001 | 377 | 5.879 | 13.574 | 16.822 | 20.688 | 14.314 |
| 6/15/2017 14:39 | 22650.001 | 377.5 | 5.883 | 13.584 | 16.832 | 20.678 | 14.332 |
| 6/15/2017 14:39 | 22680.001 | 378 | 5.884 | 13.585 | 16.833 | 20.677 | 14.331 |
| 6/15/2017 14:40 | 22710.001 | 378.5 | 5.889 | 13.597 | 16.845 | 20.665 | 14.32 |
| 6/15/2017 14:40 | 22740.001 | 379 | 5.893 | 13.607 | 16.855 | 20.655 | 14.31 |
| 6/15/2017 14:41 | 22770.001 | 379.5 | 5.893 | 13.607 | 16.855 | 20.655 | 14.315 |
| 6/15/2017 14:41 | 22800.001 | 380 | 5.897 | 13.616 | 16.864 | 20.646 | 14.35 |
| 6/15/2017 14:42 | 22830.001 | 380.5 | 5.9 | 13.622 | 16.87 | 20.64 | 14.342 |
| 6/15/2017 14:42 | 22860.001 | 381 | 5.905 | 13.634 | 16.882 | 20.628 | 14.303 |
| 6/15/2017 14:43 | 22890.001 | 381.5 | 5.908 | 13.64 | 16.888 | 20.622 | 14.345 |
| 6/15/2017 14:43 | 22920.001 | 382 | 5.91 | 13.646 | 16.894 | 20.616 | 14.323 |
| 6/15/2017 14:44 | 22950.001 | 382.5 | 5.91 | 13.646 | 16.894 | 20.616 | 14.335 |
| 6/15/2017 14:44 | 22980.001 | 383 | 5.916 | 13.661 | 16.909 | 20.601 | 14.334 |
| 6/15/2017 14:45 | 23010.001 | 383.5 | 5.915 | 13.659 | 16.907 | 20.603 | 14.355 |
| 6/15/2017 14:46 | 23040.001 | 384 | 5.92 | 13.669 | 16.917 | 20.593 | 14.318 |
| 6/15/2017 14:46 | 23070.001 | 384.5 | 5.921 | 13.672 | 16.92 | 20.59 | 14.325 |
| 6/15/2017 14:47 | 23100.001 | 385 | 5.927 | 13.686 | 16.934 | 20.576 | 14.298 |
| 6/15/2017 14:47 | 23130.001 | 385.5 | 5.927 | 13.685 | 16.933 | 20.577 | 14.326 |

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|-----------------|-----------|-------|-------|--------|--------|--------|--------|
| 6/15/2017 14:48 | 23160.001 | 386 | 5,929 | 13,691 | 16,939 | 20,571 | 14,35 |
| 6/15/2017 14:48 | 23190.001 | 386.5 | 5,937 | 13,707 | 16,955 | 20,555 | 14,325 |
| 6/15/2017 14:49 | 23220.001 | 387 | 5,94 | 13,715 | 16,963 | 20,547 | 14,326 |
| 6/15/2017 14:49 | 23250.001 | 387.5 | 5,94 | 13,716 | 16,964 | 20,546 | 14,34 |
| 6/15/2017 14:50 | 23280.001 | 388 | 5,944 | 13,723 | 16,971 | 20,539 | 14,295 |
| 6/15/2017 14:50 | 23310.001 | 388.5 | 5,945 | 13,727 | 16,975 | 20,535 | 14,293 |
| 6/15/2017 14:51 | 23340.001 | 389 | 5,95 | 13,738 | 16,986 | 20,524 | 14,307 |
| 6/15/2017 14:51 | 23370.001 | 389.5 | 5,949 | 13,735 | 16,983 | 20,527 | 14,296 |
| 6/15/2017 14:52 | 23400.001 | 390 | 5,952 | 13,744 | 16,992 | 20,518 | 14,311 |
| 6/15/2017 14:52 | 23430.001 | 390.5 | 5,954 | 13,749 | 16,997 | 20,513 | 14,318 |
| 6/15/2017 14:53 | 23460.001 | 391 | 5,957 | 13,754 | 17,002 | 20,508 | 14,327 |
| 6/15/2017 14:53 | 23490.001 | 391.5 | 5,957 | 13,754 | 17,002 | 20,508 | 14,333 |
| 6/15/2017 14:54 | 23520.001 | 392 | 5,96 | 13,76 | 17,008 | 20,502 | 14,325 |
| 6/15/2017 14:54 | 23550.001 | 392.5 | 5,96 | 13,762 | 17,01 | 20,5 | 14,321 |
| 6/15/2017 14:55 | 23580.001 | 393 | 5,961 | 13,764 | 17,012 | 20,498 | 14,309 |
| 6/15/2017 14:55 | 23610.001 | 393.5 | 5,963 | 13,769 | 17,017 | 20,493 | 14,307 |
| 6/15/2017 14:56 | 23640.001 | 394 | 5,965 | 13,774 | 17,022 | 20,488 | 14,278 |

Report Date: 6/16/2017 11:37

Report User Name: spauldingj
Report Computer Name: LAPTOP04
Application: WinSitu.exe
Application Version: 5.6.25.0

Log File Properties

File Name PZ-17-1 (Pump)_2017-06-15_15-27-17-617.wsl
Create Date 6/15/2017 15:27

Device Properties

Device Level TROLL 700
Site Orange County Landfill
Device Name 429368
Serial Number 3.03
Firmware Version 5
Hardware Version 1
Device Address 19200
Device Comm Cfg 4
Used Memory 11
Used Battery 8 Even

Log Configuration

| | |
|----------------------|--|
| Log Name | PZ-17-1 (Pump) |
| Created By | Spauldingj |
| Computer Name | LAPTOP04 |
| Application | WinSitu.exe |
| Application Version | 5.6.25.0 |
| Create Date | 6/15/2017 8:24:26 AM Eastern Daylight Time |
| Log Setup Time Zone | Eastern Daylight Time |
| Notes Size(bytes) | 4096 |
| Overwrite when full | Disabled |
| Scheduled Start Time | Manual Start |
| Scheduled Stop Time | No Stop Time |
| Type | Linear |
| Interval | Days: 0 hrs: 00 mins: 01 secs: 00 |

Level Reference Settings At Log Creation

| | |
|------------------------|-------|
| Level Measurement Mode | Depth |
| Specific Gravity | 0.999 |

Other Log Settings

Depth of Probe: 7.19792 (ft)

Head Pressure: 3.11737 (PSI)
Temperature: 13.8138 (C)

Log Notes:

Date and Time Note
6/15/2017 8:24 Used Battery: 11% Used Memory: 4% User Name: SpauldingJ
6/15/2017 8:24 Manual Start Command
6/15/2017 15:26 Suspend Command
6/15/2017 15:27 Log Download - Used Battery: 11% Used Memory: 4% User Name: SpauldingJ

Log Data:

Record Count 423

Sensors

1

429368 Pressure/Temp 15 PSIG (11m/35ft)

Time Zone: Eastern Daylight Time

| Date and Time | Elapsed Time Seconds | Minutes | Sensor: Pres(G) 35ft SN#: 429368 | | Sensor: Pres(G) 35ft SN#: 429368 | | Sensor: Pres(G) 35ft SN#: 429368 | |
|----------------|-------------------------|---------|-------------------------------------|------------|-------------------------------------|------------------|-------------------------------------|-----------------|
| | | | Pressure (PSI) | Depth (ft) | Calculations | Water Level (ft) | Temperature (C) | Temperature (C) |
| 6/15/2017 8:24 | 0 | 0 | 3.117 | 7.197 | 11.94 | 19.62 | 13.83 | |
| 6/15/2017 8:25 | 60.001 | | 3.145 | 7.262 | 12.005 | 19.555 | 13.814 | |
| 6/15/2017 8:26 | 120.001 | | 3.158 | 7.291 | 12.034 | 19.526 | 13.803 | |
| 6/15/2017 8:27 | 180.001 | | 3.151 | 7.276 | 12.019 | 19.541 | 13.792 | |
| 6/15/2017 8:28 | 240.001 | | 3.175 | 7.33 | 12.073 | 19.487 | 13.808 | |
| 6/15/2017 8:29 | 300.001 | | 3.172 | 7.324 | 12.067 | 19.493 | 13.776 | |
| 6/15/2017 8:30 | 360.001 | | 3.17 | 7.32 | 12.063 | 19.497 | 13.775 | |
| 6/15/2017 8:31 | 420.001 | | 3.168 | 7.314 | 12.057 | 19.503 | 13.788 | |
| 6/15/2017 8:32 | 480.001 | | 3.167 | 7.311 | 12.054 | 19.506 | 13.805 | |
| 6/15/2017 8:33 | 540.001 | | 3.163 | 7.302 | 12.045 | 19.515 | 13.79 | |
| 6/15/2017 8:34 | 600.001 | | 3.164 | 7.305 | 12.048 | 19.512 | 13.785 | |
| 6/15/2017 8:35 | 660.001 | | 3.159 | 7.294 | 12.037 | 19.523 | 13.784 | |
| 6/15/2017 8:36 | 720.001 | | 3.161 | 7.299 | 12.042 | 19.518 | 13.77 | |
| 6/15/2017 8:37 | 780.001 | | 3.16 | 7.297 | 12.04 | 19.52 | 13.811 | |
| 6/15/2017 8:38 | 840.001 | | 3.159 | 7.295 | 12.038 | 19.522 | 13.78 | |
| 6/15/2017 8:39 | 900.001 | | 3.152 | 7.278 | 12.021 | 19.539 | 13.784 | |
| 6/15/2017 8:40 | 960.001 | | 3.135 | 7.238 | 11.981 | 19.579 | 13.798 | |
| 6/15/2017 8:41 | 1020.001 | | 3.115 | 7.193 | 11.936 | 19.624 | 13.808 | |
| 6/15/2017 8:42 | 1080.001 | | 3.11 | 7.181 | 11.924 | 19.636 | 13.784 | |
| 6/15/2017 8:43 | 1140.001 | | 3.083 | 7.118 | 11.861 | 19.699 | 13.808 | |
| 6/15/2017 8:44 | 1200.001 | | 3.059 | 7.062 | 11.805 | 19.755 | 13.806 | |
| 6/15/2017 8:45 | 1260.001 | | 3.037 | 7.012 | 11.755 | 19.805 | 13.805 | |

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|----------------|----------|----|-------|-------|--------|--------|--------|
| 6/15/2017 8:46 | 1320.001 | 22 | 3.019 | 6.972 | 11.715 | 19.845 | 13.788 |
| 6/15/2017 8:47 | 1380.001 | 23 | 3.003 | 6.933 | 11.676 | 19.884 | 13.764 |
| 6/15/2017 8:48 | 1440.001 | 24 | 2.99 | 6.904 | 11.647 | 19.913 | 13.78 |
| 6/15/2017 8:49 | 1500.001 | 25 | 2.975 | 6.869 | 11.612 | 19.948 | 13.787 |
| 6/15/2017 8:50 | 1560.001 | 26 | 2.968 | 6.854 | 11.597 | 19.963 | 13.794 |
| 6/15/2017 8:51 | 1620.001 | 27 | 2.957 | 6.827 | 11.57 | 19.99 | 13.783 |
| 6/15/2017 8:52 | 1680.001 | 28 | 2.949 | 6.809 | 11.552 | 20.008 | 13.788 |
| 6/15/2017 8:53 | 1740.001 | 29 | 2.939 | 6.786 | 11.529 | 20.031 | 13.761 |
| 6/15/2017 8:54 | 1800.001 | 30 | 2.929 | 6.762 | 11.505 | 20.055 | 13.753 |
| 6/15/2017 8:55 | 1860.001 | 31 | 2.926 | 6.755 | 11.498 | 20.062 | 13.787 |
| 6/15/2017 8:56 | 1920.001 | 32 | 2.921 | 6.744 | 11.487 | 20.073 | 13.785 |
| 6/15/2017 8:57 | 1980.001 | 33 | 2.924 | 6.752 | 11.495 | 20.065 | 13.784 |
| 6/15/2017 8:58 | 2040.001 | 34 | 2.923 | 6.749 | 11.492 | 20.068 | 13.774 |
| 6/15/2017 8:59 | 2100.001 | 35 | 2.919 | 6.741 | 11.484 | 20.076 | 13.773 |
| 6/15/2017 9:00 | 2160.001 | 36 | 2.913 | 6.727 | 11.47 | 20.09 | 13.787 |
| 6/15/2017 9:01 | 2220.001 | 37 | 2.908 | 6.714 | 11.457 | 20.103 | 13.783 |
| 6/15/2017 9:02 | 2280.001 | 38 | 2.907 | 6.712 | 11.455 | 20.105 | 13.793 |
| 6/15/2017 9:03 | 2340.001 | 39 | 2.9 | 6.695 | 11.438 | 20.122 | 13.775 |
| 6/15/2017 9:04 | 2400.001 | 40 | 2.906 | 6.709 | 11.452 | 20.108 | 13.787 |
| 6/15/2017 9:05 | 2460.001 | 41 | 2.903 | 6.702 | 11.445 | 20.115 | 13.773 |
| 6/15/2017 9:06 | 2520.001 | 42 | 2.899 | 6.694 | 11.437 | 20.123 | 13.777 |
| 6/15/2017 9:07 | 2580.001 | 43 | 2.894 | 6.683 | 11.426 | 20.134 | 13.781 |
| 6/15/2017 9:08 | 2640.001 | 44 | 2.893 | 6.679 | 11.422 | 20.138 | 13.762 |
| 6/15/2017 9:09 | 2700.001 | 45 | 2.891 | 6.675 | 11.418 | 20.142 | 13.787 |
| 6/15/2017 9:10 | 2760.001 | 46 | 2.888 | 6.668 | 11.411 | 20.149 | 13.771 |
| 6/15/2017 9:11 | 2820.001 | 47 | 2.885 | 6.663 | 11.406 | 20.154 | 13.773 |
| 6/15/2017 9:12 | 2880.001 | 48 | 2.881 | 6.652 | 11.395 | 20.165 | 13.8 |
| 6/15/2017 9:13 | 2940.001 | 49 | 2.878 | 6.644 | 11.387 | 20.173 | 13.787 |
| 6/15/2017 9:14 | 3000.001 | 50 | 2.878 | 6.645 | 11.388 | 20.172 | 13.793 |
| 6/15/2017 9:15 | 3060.001 | 51 | 2.878 | 6.646 | 11.389 | 20.171 | 13.777 |
| 6/15/2017 9:16 | 3120.001 | 52 | 2.869 | 6.625 | 11.368 | 20.192 | 13.775 |
| 6/15/2017 9:17 | 3180.001 | 53 | 2.88 | 6.649 | 11.392 | 20.168 | 13.772 |
| 6/15/2017 9:18 | 3240.001 | 54 | 2.874 | 6.636 | 11.379 | 20.181 | 13.787 |
| 6/15/2017 9:19 | 3300.001 | 55 | 2.869 | 6.626 | 11.369 | 20.191 | 13.773 |
| 6/15/2017 9:20 | 3360.001 | 56 | 2.863 | 6.61 | 11.353 | 20.207 | 13.804 |
| 6/15/2017 9:21 | 3420.001 | 57 | 2.857 | 6.596 | 11.339 | 20.221 | 13.775 |
| 6/15/2017 9:22 | 3480.001 | 58 | 2.852 | 6.585 | 11.328 | 20.232 | 13.793 |
| 6/15/2017 9:23 | 3540.001 | 59 | 2.847 | 6.573 | 11.316 | 20.244 | 13.788 |
| 6/15/2017 9:24 | 3600.001 | 60 | 2.84 | 6.557 | 11.3 | 20.26 | 13.787 |
| 6/15/2017 9:25 | 3660.001 | 61 | 2.838 | 6.554 | 11.297 | 20.263 | 13.792 |
| 6/15/2017 9:26 | 3720.001 | 62 | 2.833 | 6.542 | 11.285 | 20.275 | 13.804 |
| 6/15/2017 9:27 | 3780.001 | 63 | 2.833 | 6.54 | 11.283 | 20.277 | 13.783 |
| 6/15/2017 9:28 | 3840.001 | 64 | 2.833 | 6.542 | 11.285 | 20.275 | 13.795 |
| 6/15/2017 9:29 | 3900.001 | 65 | 2.833 | 6.541 | 11.284 | 20.276 | 13.789 |
| 6/15/2017 9:30 | 3960.001 | 66 | 2.833 | 6.542 | 11.285 | 20.275 | 13.797 |
| 6/15/2017 9:31 | 4020.001 | 67 | 2.832 | 6.54 | 11.283 | 20.277 | 13.798 |
| 6/15/2017 9:32 | 4080.001 | 68 | 2.836 | 6.548 | 11.291 | 20.269 | 13.786 |

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|-----------------|----------|-----|-------|-------|--------|--------|--------|
| 6/15/2017 9:33 | 4140.001 | 69 | 2.835 | 6.546 | 11.289 | 20.271 | 13.801 |
| 6/15/2017 9:34 | 4200.001 | 70 | 2.834 | 6.543 | 11.286 | 20.274 | 13.795 |
| 6/15/2017 9:35 | 4260.001 | 71 | 2.834 | 6.544 | 11.287 | 20.273 | 13.797 |
| 6/15/2017 9:36 | 4320.001 | 72 | 2.835 | 6.547 | 11.29 | 20.27 | 13.805 |
| 6/15/2017 9:37 | 4380.001 | 73 | 2.839 | 6.555 | 11.298 | 20.262 | 13.784 |
| 6/15/2017 9:38 | 4440.001 | 74 | 2.84 | 6.558 | 11.301 | 20.259 | 13.767 |
| 6/15/2017 9:39 | 4500.001 | 75 | 2.839 | 6.554 | 11.297 | 20.263 | 13.792 |
| 6/15/2017 9:40 | 4560.001 | 76 | 2.839 | 6.555 | 11.298 | 20.262 | 13.779 |
| 6/15/2017 9:41 | 4620.001 | 77 | 2.838 | 6.553 | 11.296 | 20.264 | 13.771 |
| 6/15/2017 9:42 | 4680.001 | 78 | 2.837 | 6.55 | 11.293 | 20.267 | 13.798 |
| 6/15/2017 9:43 | 4740.001 | 79 | 2.838 | 6.552 | 11.295 | 20.265 | 13.8 |
| 6/15/2017 9:44 | 4800.001 | 80 | 2.836 | 6.548 | 11.291 | 20.269 | 13.794 |
| 6/15/2017 9:45 | 4860.001 | 81 | 2.835 | 6.547 | 11.29 | 20.27 | 13.78 |
| 6/15/2017 9:46 | 4920.001 | 82 | 2.834 | 6.543 | 11.286 | 20.274 | 13.785 |
| 6/15/2017 9:47 | 4980.001 | 83 | 2.833 | 6.542 | 11.285 | 20.275 | 13.793 |
| 6/15/2017 9:48 | 5040.001 | 84 | 2.832 | 6.538 | 11.281 | 20.279 | 13.793 |
| 6/15/2017 9:49 | 5100.001 | 85 | 2.831 | 6.536 | 11.279 | 20.281 | 13.787 |
| 6/15/2017 9:50 | 5160.001 | 86 | 2.833 | 6.54 | 11.283 | 20.277 | 13.807 |
| 6/15/2017 9:51 | 5220.001 | 87 | 2.83 | 6.535 | 11.278 | 20.282 | 13.775 |
| 6/15/2017 9:52 | 5280.001 | 88 | 2.83 | 6.535 | 11.278 | 20.282 | 13.793 |
| 6/15/2017 9:53 | 5340.001 | 89 | 2.831 | 6.537 | 11.28 | 20.28 | 13.815 |
| 6/15/2017 9:54 | 5400.001 | 90 | 2.83 | 6.535 | 11.278 | 20.282 | 13.8 |
| 6/15/2017 9:55 | 5460.001 | 91 | 2.829 | 6.531 | 11.274 | 20.286 | 13.784 |
| 6/15/2017 9:56 | 5520.001 | 92 | 2.829 | 6.532 | 11.275 | 20.285 | 13.773 |
| 6/15/2017 9:57 | 5580.001 | 93 | 2.827 | 6.528 | 11.271 | 20.289 | 13.794 |
| 6/15/2017 9:58 | 5640.001 | 94 | 2.827 | 6.528 | 11.271 | 20.289 | 13.775 |
| 6/15/2017 9:59 | 5700.001 | 95 | 2.826 | 6.524 | 11.267 | 20.293 | 13.77 |
| 6/15/2017 10:00 | 5760.001 | 96 | 2.828 | 6.53 | 11.273 | 20.287 | 13.784 |
| 6/15/2017 10:01 | 5820.001 | 97 | 2.826 | 6.525 | 11.268 | 20.292 | 13.779 |
| 6/15/2017 10:02 | 5880.001 | 98 | 2.826 | 6.525 | 11.268 | 20.292 | 13.776 |
| 6/15/2017 10:03 | 5940.001 | 99 | 2.825 | 6.523 | 11.266 | 20.294 | 13.79 |
| 6/15/2017 10:04 | 6000.001 | 100 | 2.826 | 6.524 | 11.267 | 20.293 | 13.795 |
| 6/15/2017 10:05 | 6060.001 | 101 | 2.824 | 6.52 | 11.263 | 20.297 | 13.816 |
| 6/15/2017 10:06 | 6120.001 | 102 | 2.823 | 6.519 | 11.262 | 20.298 | 13.793 |
| 6/15/2017 10:07 | 6180.001 | 103 | 2.824 | 6.52 | 11.263 | 20.297 | 13.776 |
| 6/15/2017 10:08 | 6240.001 | 104 | 2.823 | 6.517 | 11.26 | 20.3 | 13.792 |
| 6/15/2017 10:09 | 6300.001 | 105 | 2.823 | 6.518 | 11.261 | 20.299 | 13.782 |
| 6/15/2017 10:10 | 6360.001 | 106 | 2.822 | 6.516 | 11.259 | 20.301 | 13.78 |
| 6/15/2017 10:11 | 6420.001 | 107 | 2.821 | 6.513 | 11.256 | 20.304 | 13.782 |
| 6/15/2017 10:12 | 6480.001 | 108 | 2.819 | 6.51 | 11.253 | 20.307 | 13.771 |
| 6/15/2017 10:13 | 6540.001 | 109 | 2.816 | 6.502 | 11.245 | 20.315 | 13.799 |
| 6/15/2017 10:14 | 6600.001 | 110 | 2.814 | 6.498 | 11.241 | 20.319 | 13.805 |
| 6/15/2017 10:15 | 6660.001 | 111 | 2.815 | 6.499 | 11.242 | 20.318 | 13.789 |
| 6/15/2017 10:16 | 6720.001 | 112 | 2.812 | 6.494 | 11.237 | 20.323 | 13.787 |
| 6/15/2017 10:17 | 6780.001 | 113 | 2.812 | 6.492 | 11.235 | 20.325 | 13.787 |
| 6/15/2017 10:18 | 6840.001 | 114 | 2.811 | 6.491 | 11.234 | 20.326 | 13.808 |
| 6/15/2017 10:19 | 6900.001 | 115 | 2.807 | 6.481 | 11.224 | 20.336 | 13.798 |

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|-----------------|----------|-----|-------|-------|--------|--------|--------|
| 6/15/2017 10:20 | 6960.001 | 116 | 2.806 | 6.479 | 11.222 | 20.338 | 13.79 |
| 6/15/2017 10:21 | 7020.001 | 117 | 2.805 | 6.476 | 11.219 | 20.341 | 13.778 |
| 6/15/2017 10:22 | 7080.001 | 118 | 2.803 | 6.472 | 11.215 | 20.345 | 13.812 |
| 6/15/2017 10:23 | 7140.001 | 119 | 2.803 | 6.471 | 11.214 | 20.346 | 13.801 |
| 6/15/2017 10:24 | 7200.001 | 120 | 2.8 | 6.465 | 11.208 | 20.352 | 13.79 |
| 6/15/2017 10:25 | 7260.001 | 121 | 2.799 | 6.464 | 11.207 | 20.353 | 13.769 |
| 6/15/2017 10:26 | 7320.001 | 122 | 2.799 | 6.462 | 11.205 | 20.355 | 13.803 |
| 6/15/2017 10:27 | 7380.001 | 123 | 2.797 | 6.459 | 11.202 | 20.358 | 13.793 |
| 6/15/2017 10:28 | 7440.001 | 124 | 2.798 | 6.46 | 11.203 | 20.357 | 13.793 |
| 6/15/2017 10:29 | 7500.001 | 125 | 2.799 | 6.462 | 11.205 | 20.355 | 13.764 |
| 6/15/2017 10:30 | 7560.001 | 126 | 2.796 | 6.457 | 11.2 | 20.36 | 13.811 |
| 6/15/2017 10:31 | 7620.001 | 127 | 2.796 | 6.457 | 11.2 | 20.36 | 13.825 |
| 6/15/2017 10:32 | 7680.001 | 128 | 2.796 | 6.456 | 11.199 | 20.361 | 13.785 |
| 6/15/2017 10:33 | 7740.001 | 129 | 2.793 | 6.449 | 11.192 | 20.368 | 13.793 |
| 6/15/2017 10:34 | 7800.001 | 130 | 2.795 | 6.453 | 11.196 | 20.364 | 13.794 |
| 6/15/2017 10:35 | 7860.001 | 131 | 2.789 | 6.441 | 11.184 | 20.376 | 13.785 |
| 6/15/2017 10:36 | 7920.001 | 132 | 2.794 | 6.45 | 11.193 | 20.367 | 13.764 |
| 6/15/2017 10:37 | 7980.001 | 133 | 2.794 | 6.451 | 11.194 | 20.366 | 13.793 |
| 6/15/2017 10:38 | 8040.001 | 134 | 2.792 | 6.447 | 11.19 | 20.37 | 13.804 |
| 6/15/2017 10:39 | 8100.001 | 135 | 2.79 | 6.443 | 11.186 | 20.374 | 13.795 |
| 6/15/2017 10:40 | 8160.001 | 136 | 2.793 | 6.45 | 11.193 | 20.367 | 13.798 |
| 6/15/2017 10:41 | 8220.001 | 137 | 2.791 | 6.444 | 11.187 | 20.373 | 13.786 |
| 6/15/2017 10:42 | 8280.001 | 138 | 2.791 | 6.445 | 11.188 | 20.372 | 13.784 |
| 6/15/2017 10:43 | 8340.001 | 139 | 2.791 | 6.445 | 11.188 | 20.372 | 13.789 |
| 6/15/2017 10:44 | 8400.001 | 140 | 2.789 | 6.441 | 11.184 | 20.376 | 13.778 |
| 6/15/2017 10:45 | 8460.001 | 141 | 2.791 | 6.444 | 11.187 | 20.373 | 13.792 |
| 6/15/2017 10:46 | 8520.001 | 142 | 2.79 | 6.441 | 11.184 | 20.376 | 13.777 |
| 6/15/2017 10:47 | 8580.001 | 143 | 2.79 | 6.442 | 11.185 | 20.375 | 13.804 |
| 6/15/2017 10:48 | 8640.001 | 144 | 2.789 | 6.441 | 11.184 | 20.376 | 13.804 |
| 6/15/2017 10:49 | 8700.001 | 145 | 2.79 | 6.442 | 11.185 | 20.375 | 13.782 |
| 6/15/2017 10:50 | 8760.001 | 146 | 2.79 | 6.443 | 11.186 | 20.374 | 13.788 |
| 6/15/2017 10:51 | 8820.001 | 147 | 2.786 | 6.434 | 11.177 | 20.383 | 13.783 |
| 6/15/2017 10:52 | 8880.001 | 148 | 2.79 | 6.441 | 11.184 | 20.376 | 13.781 |
| 6/15/2017 10:53 | 8940.001 | 149 | 2.788 | 6.438 | 11.181 | 20.379 | 13.8 |
| 6/15/2017 10:54 | 9000.001 | 150 | 2.787 | 6.435 | 11.178 | 20.382 | 13.794 |
| 6/15/2017 10:55 | 9060.001 | 151 | 2.788 | 6.437 | 11.18 | 20.38 | 13.82 |
| 6/15/2017 10:56 | 9120.001 | 152 | 2.786 | 6.434 | 11.177 | 20.383 | 13.815 |
| 6/15/2017 10:57 | 9180.001 | 153 | 2.787 | 6.435 | 11.178 | 20.382 | 13.798 |
| 6/15/2017 10:58 | 9240.001 | 154 | 2.789 | 6.439 | 11.182 | 20.378 | 13.801 |
| 6/15/2017 10:59 | 9300.001 | 155 | 2.787 | 6.434 | 11.177 | 20.383 | 13.793 |
| 6/15/2017 11:00 | 9360.001 | 156 | 2.787 | 6.435 | 11.178 | 20.382 | 13.777 |
| 6/15/2017 11:01 | 9420.001 | 157 | 2.787 | 6.434 | 11.177 | 20.383 | 13.798 |
| 6/15/2017 11:02 | 9480.001 | 158 | 2.786 | 6.433 | 11.176 | 20.384 | 13.807 |
| 6/15/2017 11:03 | 9540.001 | 159 | 2.786 | 6.434 | 11.177 | 20.383 | 13.784 |
| 6/15/2017 11:04 | 9600.001 | 160 | 2.786 | 6.432 | 11.175 | 20.385 | 13.82 |
| 6/15/2017 11:05 | 9660.001 | 161 | 2.786 | 6.433 | 11.176 | 20.384 | 13.815 |
| 6/15/2017 11:06 | 9720.001 | 162 | 2.787 | 6.434 | 11.177 | 20.383 | 13.785 |

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|-----------------|-----------|-----|-------|-------|--------|--------|--------|
| 6/15/2017 11:07 | 9780.001 | 163 | 2.786 | 6.432 | 11.175 | 20.385 | 13.772 |
| 6/15/2017 11:08 | 9840.001 | 164 | 2.784 | 6.429 | 11.172 | 20.388 | 13.79 |
| 6/15/2017 11:09 | 9900.001 | 165 | 2.785 | 6.431 | 11.174 | 20.386 | 13.809 |
| 6/15/2017 11:10 | 9960.001 | 166 | 2.786 | 6.433 | 11.176 | 20.384 | 13.796 |
| 6/15/2017 11:11 | 10020.001 | 167 | 2.786 | 6.433 | 11.176 | 20.384 | 13.795 |
| 6/15/2017 11:12 | 10080.001 | 168 | 2.784 | 6.428 | 11.171 | 20.389 | 13.79 |
| 6/15/2017 11:13 | 10140.001 | 169 | 2.786 | 6.432 | 11.175 | 20.385 | 13.782 |
| 6/15/2017 11:14 | 10200.001 | 170 | 2.785 | 6.431 | 11.174 | 20.386 | 13.797 |
| 6/15/2017 11:15 | 10260.001 | 171 | 2.786 | 6.432 | 11.175 | 20.385 | 13.775 |
| 6/15/2017 11:16 | 10320.001 | 172 | 2.785 | 6.43 | 11.173 | 20.387 | 13.789 |
| 6/15/2017 11:17 | 10380.001 | 173 | 2.786 | 6.433 | 11.176 | 20.384 | 13.778 |
| 6/15/2017 11:18 | 10440.001 | 174 | 2.784 | 6.429 | 11.172 | 20.388 | 13.781 |
| 6/15/2017 11:19 | 10500.001 | 175 | 2.787 | 6.435 | 11.178 | 20.382 | 13.79 |
| 6/15/2017 11:20 | 10560.001 | 176 | 2.782 | 6.423 | 11.166 | 20.394 | 13.792 |
| 6/15/2017 11:21 | 10620.001 | 177 | 2.786 | 6.433 | 11.176 | 20.384 | 13.786 |
| 6/15/2017 11:22 | 10680.001 | 178 | 2.784 | 6.428 | 11.171 | 20.389 | 13.782 |
| 6/15/2017 11:23 | 10740.001 | 179 | 2.787 | 6.435 | 11.178 | 20.382 | 13.761 |
| 6/15/2017 11:24 | 10800.001 | 180 | 2.784 | 6.428 | 11.171 | 20.389 | 13.792 |
| 6/15/2017 11:25 | 10860.001 | 181 | 2.785 | 6.431 | 11.174 | 20.386 | 13.798 |
| 6/15/2017 11:26 | 10920.001 | 182 | 2.783 | 6.426 | 11.169 | 20.391 | 13.778 |
| 6/15/2017 11:27 | 10980.001 | 183 | 2.785 | 6.431 | 11.174 | 20.386 | 13.813 |
| 6/15/2017 11:28 | 11040.001 | 184 | 2.782 | 6.423 | 11.166 | 20.394 | 13.787 |
| 6/15/2017 11:29 | 11100.001 | 185 | 2.784 | 6.429 | 11.172 | 20.388 | 13.787 |
| 6/15/2017 11:30 | 11160.001 | 186 | 2.785 | 6.43 | 11.173 | 20.387 | 13.801 |
| 6/15/2017 11:31 | 11220.001 | 187 | 2.784 | 6.427 | 11.17 | 20.39 | 13.779 |
| 6/15/2017 11:32 | 11280.001 | 188 | 2.784 | 6.427 | 11.17 | 20.39 | 13.803 |
| 6/15/2017 11:33 | 11340.001 | 189 | 2.785 | 6.43 | 11.173 | 20.387 | 13.787 |
| 6/15/2017 11:34 | 11400.001 | 190 | 2.783 | 6.427 | 11.17 | 20.39 | 13.798 |
| 6/15/2017 11:35 | 11460.001 | 191 | 2.784 | 6.428 | 11.171 | 20.389 | 13.773 |
| 6/15/2017 11:36 | 11520.001 | 192 | 2.786 | 6.433 | 11.176 | 20.384 | 13.788 |
| 6/15/2017 11:37 | 11580.001 | 193 | 2.784 | 6.427 | 11.17 | 20.39 | 13.787 |
| 6/15/2017 11:38 | 11640.001 | 194 | 2.784 | 6.428 | 11.171 | 20.389 | 13.787 |
| 6/15/2017 11:39 | 11700.001 | 195 | 2.782 | 6.424 | 11.167 | 20.393 | 13.79 |
| 6/15/2017 11:40 | 11760.001 | 196 | 2.784 | 6.427 | 11.17 | 20.39 | 13.795 |
| 6/15/2017 11:41 | 11820.001 | 197 | 2.781 | 6.422 | 11.165 | 20.395 | 13.788 |
| 6/15/2017 11:42 | 11880.001 | 198 | 2.783 | 6.427 | 11.17 | 20.39 | 13.792 |
| 6/15/2017 11:43 | 11940.001 | 199 | 2.784 | 6.428 | 11.171 | 20.389 | 13.784 |
| 6/15/2017 11:44 | 12000.001 | 200 | 2.784 | 6.428 | 11.171 | 20.389 | 13.812 |
| 6/15/2017 11:45 | 12060.001 | 201 | 2.783 | 6.426 | 11.169 | 20.391 | 13.798 |
| 6/15/2017 11:46 | 12120.001 | 202 | 2.784 | 6.429 | 11.172 | 20.388 | 13.774 |
| 6/15/2017 11:47 | 12180.001 | 203 | 2.784 | 6.428 | 11.171 | 20.389 | 13.796 |
| 6/15/2017 11:48 | 12240.001 | 204 | 2.784 | 6.429 | 11.172 | 20.388 | 13.805 |
| 6/15/2017 11:49 | 12300.001 | 205 | 2.784 | 6.428 | 11.171 | 20.389 | 13.8 |
| 6/15/2017 11:50 | 12360.001 | 206 | 2.785 | 6.431 | 11.174 | 20.386 | 13.79 |
| 6/15/2017 11:51 | 12420.001 | 207 | 2.783 | 6.426 | 11.169 | 20.391 | 13.8 |
| 6/15/2017 11:52 | 12480.001 | 208 | 2.78 | 6.42 | 11.163 | 20.397 | 13.784 |
| 6/15/2017 11:53 | 12540.001 | 209 | 2.783 | 6.426 | 11.169 | 20.391 | 13.82 |

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| 6/15/2017 11:54 | 12600.001 | 210 | 2.782 | 6.423 | 11.166 | 20.394 | 13.792 |
| 6/15/2017 11:55 | 12660.001 | 211 | 2.783 | 6.427 | 11.17 | 20.39 | 13.808 |
| 6/15/2017 11:56 | 12720.001 | 212 | 2.781 | 6.422 | 11.165 | 20.395 | 13.801 |
| 6/15/2017 11:57 | 12780.001 | 213 | 2.784 | 6.429 | 11.172 | 20.388 | 13.789 |
| 6/15/2017 11:58 | 12840.001 | 214 | 2.781 | 6.421 | 11.164 | 20.396 | 13.793 |
| 6/15/2017 11:59 | 12900.001 | 215 | 2.782 | 6.423 | 11.166 | 20.394 | 13.798 |
| 6/15/2017 12:00 | 12960.001 | 216 | 2.782 | 6.424 | 11.167 | 20.393 | 13.787 |
| 6/15/2017 12:01 | 13020.001 | 217 | 2.788 | 6.438 | 11.181 | 20.379 | 13.804 |
| 6/15/2017 12:02 | 13080.001 | 218 | 2.788 | 6.438 | 11.181 | 20.379 | 13.784 |
| 6/15/2017 12:03 | 13140.001 | 219 | 2.789 | 6.44 | 11.183 | 20.377 | 13.795 |
| 6/15/2017 12:04 | 13200.001 | 220 | 2.787 | 6.434 | 11.177 | 20.383 | 13.791 |
| 6/15/2017 12:05 | 13260.001 | 221 | 2.786 | 6.434 | 11.177 | 20.383 | 13.814 |
| 6/15/2017 12:06 | 13320.001 | 222 | 2.786 | 6.433 | 11.176 | 20.384 | 13.789 |
| 6/15/2017 12:07 | 13380.001 | 223 | 2.788 | 6.437 | 11.18 | 20.38 | 13.797 |
| 6/15/2017 12:08 | 13440.001 | 224 | 2.785 | 6.431 | 11.174 | 20.386 | 13.782 |
| 6/15/2017 12:09 | 13500.001 | 225 | 2.784 | 6.429 | 11.172 | 20.388 | 13.803 |
| 6/15/2017 12:10 | 13560.001 | 226 | 2.787 | 6.435 | 11.178 | 20.382 | 13.793 |
| 6/15/2017 12:11 | 13620.001 | 227 | 2.787 | 6.436 | 11.179 | 20.381 | 13.797 |
| 6/15/2017 12:12 | 13680.001 | 228 | 2.788 | 6.437 | 11.18 | 20.38 | 13.783 |
| 6/15/2017 12:13 | 13740.001 | 229 | 2.787 | 6.436 | 11.179 | 20.381 | 13.756 |
| 6/15/2017 12:14 | 13800.001 | 230 | 2.787 | 6.435 | 11.178 | 20.382 | 13.821 |
| 6/15/2017 12:15 | 13860.001 | 231 | 2.787 | 6.435 | 11.178 | 20.382 | 13.79 |
| 6/15/2017 12:16 | 13920.001 | 232 | 2.785 | 6.431 | 11.174 | 20.386 | 13.8 |
| 6/15/2017 12:17 | 13980.001 | 233 | 2.786 | 6.433 | 11.176 | 20.384 | 13.754 |
| 6/15/2017 12:18 | 14040.001 | 234 | 2.786 | 6.432 | 11.175 | 20.385 | 13.791 |
| 6/15/2017 12:19 | 14100.001 | 235 | 2.787 | 6.434 | 11.177 | 20.383 | 13.796 |
| 6/15/2017 12:20 | 14160.001 | 236 | 2.787 | 6.434 | 11.177 | 20.383 | 13.798 |
| 6/15/2017 12:21 | 14220.001 | 237 | 2.785 | 6.429 | 11.172 | 20.388 | 13.789 |
| 6/15/2017 12:22 | 14280.001 | 238 | 2.793 | 6.45 | 11.193 | 20.367 | 13.809 |
| 6/15/2017 12:23 | 14340.001 | 239 | 2.799 | 6.463 | 11.206 | 20.354 | 13.782 |
| 6/15/2017 12:24 | 14400.001 | 240 | 2.803 | 6.472 | 11.215 | 20.345 | 13.793 |
| 6/15/2017 12:25 | 14460.001 | 241 | 2.809 | 6.486 | 11.229 | 20.331 | 13.795 |
| 6/15/2017 12:26 | 14520.001 | 242 | 2.813 | 6.496 | 11.239 | 20.321 | 13.771 |
| 6/15/2017 12:27 | 14580.001 | 243 | 2.814 | 6.498 | 11.241 | 20.319 | 13.81 |
| 6/15/2017 12:28 | 14640.001 | 244 | 2.819 | 6.508 | 11.251 | 20.309 | 13.802 |
| 6/15/2017 12:29 | 14700.001 | 245 | 2.822 | 6.517 | 11.26 | 20.3 | 13.795 |
| 6/15/2017 12:30 | 14760.001 | 246 | 2.825 | 6.523 | 11.266 | 20.294 | 13.798 |
| 6/15/2017 12:31 | 14820.001 | 247 | 2.824 | 6.519 | 11.262 | 20.298 | 13.8 |
| 6/15/2017 12:32 | 14880.001 | 248 | 2.826 | 6.525 | 11.268 | 20.292 | 13.793 |
| 6/15/2017 12:33 | 14940.001 | 249 | 2.828 | 6.529 | 11.272 | 20.288 | 13.798 |
| 6/15/2017 12:34 | 15000.001 | 250 | 2.828 | 6.53 | 11.273 | 20.287 | 13.793 |
| 6/15/2017 12:35 | 15060.001 | 251 | 2.829 | 6.533 | 11.276 | 20.284 | 13.79 |
| 6/15/2017 12:36 | 15120.001 | 252 | 2.83 | 6.535 | 11.278 | 20.282 | 13.792 |
| 6/15/2017 12:37 | 15180.001 | 253 | 2.832 | 6.538 | 11.281 | 20.279 | 13.799 |
| 6/15/2017 12:38 | 15240.001 | 254 | 2.83 | 6.534 | 11.277 | 20.283 | 13.804 |
| 6/15/2017 12:39 | 15300.001 | 255 | 2.83 | 6.535 | 11.278 | 20.282 | 13.768 |
| 6/15/2017 12:40 | 15360.001 | 256 | 2.83 | 6.534 | 11.277 | 20.283 | 13.792 |

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| 6/15/2017 12:41 | 15420.001 | 257 | 2.827 | 6.527 | 11.27 | 20.29 | 13.785 |
| 6/15/2017 12:42 | 15480.001 | 258 | 2.823 | 6.518 | 11.261 | 20.299 | 13.806 |
| 6/15/2017 12:43 | 15540.001 | 259 | 2.821 | 6.513 | 11.256 | 20.304 | 13.789 |
| 6/15/2017 12:44 | 15600.001 | 260 | 2.818 | 6.507 | 11.25 | 20.31 | 13.776 |
| 6/15/2017 12:45 | 15660.001 | 261 | 2.81 | 6.488 | 11.231 | 20.329 | 13.79 |
| 6/15/2017 12:46 | 15720.001 | 262 | 2.811 | 6.491 | 11.234 | 20.326 | 13.795 |
| 6/15/2017 12:47 | 15780.001 | 263 | 2.809 | 6.485 | 11.228 | 20.332 | 13.773 |
| 6/15/2017 12:48 | 15840.001 | 264 | 2.806 | 6.478 | 11.221 | 20.339 | 13.801 |
| 6/15/2017 12:49 | 15900.001 | 265 | 2.804 | 6.475 | 11.218 | 20.342 | 13.785 |
| 6/15/2017 12:50 | 15960.001 | 266 | 2.802 | 6.47 | 11.213 | 20.347 | 13.804 |
| 6/15/2017 12:51 | 16020.001 | 267 | 2.799 | 6.464 | 11.207 | 20.353 | 13.804 |
| 6/15/2017 12:52 | 16080.001 | 268 | 2.798 | 6.461 | 11.204 | 20.356 | 13.795 |
| 6/15/2017 12:53 | 16140.001 | 269 | 2.797 | 6.457 | 11.2 | 20.36 | 13.79 |
| 6/15/2017 12:54 | 16200.001 | 270 | 2.798 | 6.46 | 11.203 | 20.357 | 13.785 |
| 6/15/2017 12:55 | 16260.001 | 271 | 2.795 | 6.453 | 11.196 | 20.364 | 13.788 |
| 6/15/2017 12:56 | 16320.001 | 272 | 2.795 | 6.453 | 11.196 | 20.364 | 13.775 |
| 6/15/2017 12:57 | 16380.001 | 273 | 2.796 | 6.455 | 11.198 | 20.362 | 13.802 |
| 6/15/2017 12:58 | 16440.001 | 274 | 2.793 | 6.449 | 11.192 | 20.368 | 13.804 |
| 6/15/2017 12:59 | 16500.001 | 275 | 2.79 | 6.442 | 11.185 | 20.375 | 13.802 |
| 6/15/2017 13:00 | 16560.001 | 276 | 2.793 | 6.448 | 11.191 | 20.369 | 13.794 |
| 6/15/2017 13:01 | 16620.001 | 277 | 2.791 | 6.444 | 11.187 | 20.373 | 13.81 |
| 6/15/2017 13:02 | 16680.001 | 278 | 2.79 | 6.442 | 11.185 | 20.375 | 13.792 |
| 6/15/2017 13:03 | 16740.001 | 279 | 2.79 | 6.443 | 11.186 | 20.374 | 13.792 |
| 6/15/2017 13:04 | 16800.001 | 280 | 2.789 | 6.439 | 11.182 | 20.378 | 13.794 |
| 6/15/2017 13:05 | 16860.001 | 281 | 2.787 | 6.435 | 11.178 | 20.382 | 13.775 |
| 6/15/2017 13:06 | 16920.001 | 282 | 2.786 | 6.434 | 11.177 | 20.383 | 13.788 |
| 6/15/2017 13:07 | 16980.001 | 283 | 2.789 | 6.439 | 11.182 | 20.378 | 13.787 |
| 6/15/2017 13:08 | 17040.001 | 284 | 2.786 | 6.434 | 11.177 | 20.383 | 13.795 |
| 6/15/2017 13:09 | 17100.001 | 285 | 2.785 | 6.43 | 11.173 | 20.387 | 13.808 |
| 6/15/2017 13:10 | 17160.001 | 286 | 2.786 | 6.434 | 11.177 | 20.383 | 13.789 |
| 6/15/2017 13:11 | 17220.001 | 287 | 2.787 | 6.434 | 11.177 | 20.383 | 13.786 |
| 6/15/2017 13:12 | 17280.001 | 288 | 2.791 | 6.443 | 11.186 | 20.374 | 13.777 |
| 6/15/2017 13:13 | 17340.001 | 289 | 2.785 | 6.429 | 11.172 | 20.388 | 13.803 |
| 6/15/2017 13:14 | 17400.001 | 290 | 2.786 | 6.432 | 11.175 | 20.385 | 13.784 |
| 6/15/2017 13:15 | 17460.001 | 291 | 2.788 | 6.436 | 11.179 | 20.381 | 13.797 |
| 6/15/2017 13:16 | 17520.001 | 292 | 2.79 | 6.442 | 11.185 | 20.375 | 13.801 |
| 6/15/2017 13:17 | 17580.001 | 293 | 2.79 | 6.441 | 11.184 | 20.376 | 13.789 |
| 6/15/2017 13:18 | 17640.001 | 294 | 2.791 | 6.445 | 11.188 | 20.372 | 13.797 |
| 6/15/2017 13:19 | 17700.001 | 295 | 2.791 | 6.445 | 11.188 | 20.372 | 13.773 |
| 6/15/2017 13:20 | 17760.001 | 296 | 2.795 | 6.453 | 11.196 | 20.364 | 13.8 |
| 6/15/2017 13:21 | 17820.001 | 297 | 2.797 | 6.459 | 11.202 | 20.358 | 13.791 |
| 6/15/2017 13:22 | 17880.001 | 298 | 2.804 | 6.474 | 11.217 | 20.343 | 13.786 |
| 6/15/2017 13:23 | 17940.001 | 299 | 2.806 | 6.48 | 11.223 | 20.337 | 13.773 |
| 6/15/2017 13:24 | 18000.001 | 300 | 2.809 | 6.486 | 11.229 | 20.331 | 13.798 |
| 6/15/2017 13:25 | 18060.001 | 301 | 2.815 | 6.5 | 11.243 | 20.317 | 13.784 |
| 6/15/2017 13:26 | 18120.001 | 302 | 2.823 | 6.519 | 11.262 | 20.298 | 13.79 |
| 6/15/2017 13:27 | 18180.001 | 303 | 2.83 | 6.535 | 11.278 | 20.282 | 13.79 |

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| 6/15/2017 13:28 | 18240.001 | 304 | 2.835 | 6.547 | 11.29 | 20.27 | 13.793 |
| 6/15/2017 13:29 | 18300.001 | 305 | 2.844 | 6.566 | 11.309 | 20.251 | 13.827 |
| 6/15/2017 13:30 | 18360.001 | 306 | 2.853 | 6.587 | 11.33 | 20.23 | 13.819 |
| 6/15/2017 13:31 | 18420.001 | 307 | 2.86 | 6.604 | 11.347 | 20.213 | 13.779 |
| 6/15/2017 13:32 | 18480.001 | 308 | 2.865 | 6.614 | 11.357 | 20.203 | 13.817 |
| 6/15/2017 13:33 | 18540.001 | 309 | 2.874 | 6.635 | 11.378 | 20.182 | 13.791 |
| 6/15/2017 13:34 | 18600.001 | 310 | 2.883 | 6.658 | 11.401 | 20.159 | 13.799 |
| 6/15/2017 13:35 | 18660.001 | 311 | 2.892 | 6.677 | 11.42 | 20.14 | 13.79 |
| 6/15/2017 13:36 | 18720.001 | 312 | 2.899 | 6.693 | 11.436 | 20.124 | 13.788 |
| 6/15/2017 13:37 | 18780.001 | 313 | 2.905 | 6.707 | 11.45 | 20.11 | 13.833 |
| 6/15/2017 13:38 | 18840.001 | 314 | 2.914 | 6.727 | 11.47 | 20.09 | 13.787 |
| 6/15/2017 13:39 | 18900.001 | 315 | 2.921 | 6.745 | 11.488 | 20.072 | 13.806 |
| 6/15/2017 13:40 | 18960.001 | 316 | 2.927 | 6.758 | 11.501 | 20.059 | 13.795 |
| 6/15/2017 13:41 | 19020.001 | 317 | 2.937 | 6.782 | 11.525 | 20.035 | 13.827 |
| 6/15/2017 13:42 | 19080.001 | 318 | 2.941 | 6.791 | 11.534 | 20.026 | 13.792 |
| 6/15/2017 13:43 | 19140.001 | 319 | 2.947 | 6.806 | 11.549 | 20.011 | 13.791 |
| 6/15/2017 13:44 | 19200.001 | 320 | 2.953 | 6.817 | 11.56 | 20 | 13.803 |
| 6/15/2017 13:45 | 19260.001 | 321 | 2.96 | 6.834 | 11.577 | 19.983 | 13.786 |
| 6/15/2017 13:46 | 19320.001 | 322 | 2.968 | 6.852 | 11.595 | 19.965 | 13.794 |
| 6/15/2017 13:47 | 19380.001 | 323 | 2.974 | 6.867 | 11.61 | 19.95 | 13.797 |
| 6/15/2017 13:48 | 19440.001 | 324 | 2.979 | 6.879 | 11.622 | 19.938 | 13.801 |
| 6/15/2017 13:49 | 19500.001 | 325 | 2.985 | 6.892 | 11.635 | 19.925 | 13.776 |
| 6/15/2017 13:50 | 19560.001 | 326 | 2.988 | 6.9 | 11.643 | 19.917 | 13.784 |
| 6/15/2017 13:51 | 19620.001 | 327 | 2.995 | 6.916 | 11.659 | 19.901 | 13.793 |
| 6/15/2017 13:52 | 19680.001 | 328 | 3 | 6.928 | 11.671 | 19.889 | 13.795 |
| 6/15/2017 13:53 | 19740.001 | 329 | 3.006 | 6.94 | 11.683 | 19.877 | 13.795 |
| 6/15/2017 13:54 | 19800.001 | 330 | 3.01 | 6.951 | 11.694 | 19.866 | 13.793 |
| 6/15/2017 13:55 | 19860.001 | 331 | 3.016 | 6.963 | 11.706 | 19.854 | 13.795 |
| 6/15/2017 13:56 | 19920.001 | 332 | 3.024 | 6.982 | 11.725 | 19.835 | 13.798 |
| 6/15/2017 13:57 | 19980.001 | 333 | 3.027 | 6.989 | 11.732 | 19.828 | 13.773 |
| 6/15/2017 13:58 | 20040.001 | 334 | 3.032 | 7.001 | 11.744 | 19.816 | 13.799 |
| 6/15/2017 13:59 | 20100.001 | 335 | 3.037 | 7.013 | 11.756 | 19.804 | 13.801 |
| 6/15/2017 14:00 | 20160.001 | 336 | 3.046 | 7.033 | 11.776 | 19.784 | 13.816 |
| 6/15/2017 14:01 | 20220.001 | 337 | 3.047 | 7.035 | 11.778 | 19.782 | 13.773 |
| 6/15/2017 14:02 | 20280.001 | 338 | 3.052 | 7.047 | 11.79 | 19.77 | 13.782 |
| 6/15/2017 14:03 | 20340.001 | 339 | 3.057 | 7.059 | 11.802 | 19.758 | 13.806 |
| 6/15/2017 14:04 | 20400.001 | 340 | 3.062 | 7.071 | 11.814 | 19.746 | 13.79 |
| 6/15/2017 14:05 | 20460.001 | 341 | 3.067 | 7.082 | 11.825 | 19.735 | 13.782 |
| 6/15/2017 14:06 | 20520.001 | 342 | 3.072 | 7.093 | 11.836 | 19.724 | 13.789 |
| 6/15/2017 14:07 | 20580.001 | 343 | 3.075 | 7.101 | 11.844 | 19.716 | 13.795 |
| 6/15/2017 14:08 | 20640.001 | 344 | 3.08 | 7.112 | 11.855 | 19.705 | 13.791 |
| 6/15/2017 14:09 | 20700.001 | 345 | 3.082 | 7.117 | 11.86 | 19.7 | 13.784 |
| 6/15/2017 14:10 | 20760.001 | 346 | 3.091 | 7.137 | 11.88 | 19.68 | 13.793 |
| 6/15/2017 14:11 | 20820.001 | 347 | 3.092 | 7.139 | 11.882 | 19.678 | 13.812 |
| 6/15/2017 14:12 | 20880.001 | 348 | 3.099 | 7.156 | 11.899 | 19.661 | 13.784 |
| 6/15/2017 14:13 | 20940.001 | 349 | 3.102 | 7.162 | 11.905 | 19.655 | 13.818 |
| 6/15/2017 14:14 | 21000.001 | 350 | 3.106 | 7.171 | 11.914 | 19.646 | 13.795 |

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| 6/15/2017 14:15 | 21060.001 | 351 | 3.108 | 7.177 | 11.92 | 19.64 | 13.794 |
| 6/15/2017 14:16 | 21120.001 | 352 | 3.113 | 7.188 | 11.931 | 19.629 | 13.771 |
| 6/15/2017 14:17 | 21180.001 | 353 | 3.116 | 7.195 | 11.938 | 19.622 | 13.79 |
| 6/15/2017 14:18 | 21240.001 | 354 | 3.12 | 7.203 | 11.946 | 19.614 | 13.789 |
| 6/15/2017 14:19 | 21300.001 | 355 | 3.124 | 7.212 | 11.955 | 19.605 | 13.767 |
| 6/15/2017 14:20 | 21360.001 | 356 | 3.127 | 7.22 | 11.963 | 19.597 | 13.789 |
| 6/15/2017 14:21 | 21420.001 | 357 | 3.127 | 7.221 | 11.964 | 19.596 | 13.796 |
| 6/15/2017 14:22 | 21480.001 | 358 | 3.134 | 7.236 | 11.979 | 19.581 | 13.78 |
| 6/15/2017 14:23 | 21540.001 | 359 | 3.135 | 7.239 | 11.982 | 19.578 | 13.787 |
| 6/15/2017 14:24 | 21600.001 | 360 | 3.137 | 7.243 | 11.986 | 19.574 | 13.777 |
| 6/15/2017 14:25 | 21660.001 | 361 | 3.14 | 7.249 | 11.992 | 19.568 | 13.801 |
| 6/15/2017 14:26 | 21720.001 | 362 | 3.144 | 7.258 | 12.001 | 19.559 | 13.806 |
| 6/15/2017 14:27 | 21780.001 | 363 | 3.148 | 7.269 | 12.012 | 19.548 | 13.797 |
| 6/15/2017 14:28 | 21840.001 | 364 | 3.149 | 7.27 | 12.013 | 19.547 | 13.788 |
| 6/15/2017 14:29 | 21900.001 | 365 | 3.152 | 7.277 | 12.02 | 19.54 | 13.791 |
| 6/15/2017 14:30 | 21960.001 | 366 | 3.152 | 7.277 | 12.02 | 19.54 | 13.79 |
| 6/15/2017 14:31 | 22020.001 | 367 | 3.157 | 7.289 | 12.032 | 19.528 | 13.782 |
| 6/15/2017 14:32 | 22080.001 | 368 | 3.159 | 7.294 | 12.037 | 19.523 | 13.794 |
| 6/15/2017 14:33 | 22140.001 | 369 | 3.158 | 7.291 | 12.034 | 19.526 | 13.79 |
| 6/15/2017 14:34 | 22200.001 | 370 | 3.162 | 7.301 | 12.044 | 19.516 | 13.775 |
| 6/15/2017 14:35 | 22260.001 | 371 | 3.163 | 7.303 | 12.046 | 19.514 | 13.798 |
| 6/15/2017 14:36 | 22320.001 | 372 | 3.165 | 7.309 | 12.052 | 19.508 | 13.801 |
| 6/15/2017 14:37 | 22380.001 | 373 | 3.167 | 7.312 | 12.055 | 19.505 | 13.781 |
| 6/15/2017 14:38 | 22440.001 | 374 | 3.167 | 7.312 | 12.055 | 19.505 | 13.814 |
| 6/15/2017 14:39 | 22500.001 | 375 | 3.17 | 7.32 | 12.063 | 19.497 | 13.795 |
| 6/15/2017 14:40 | 22560.001 | 376 | 3.171 | 7.322 | 12.065 | 19.495 | 13.801 |
| 6/15/2017 14:41 | 22620.001 | 377 | 3.173 | 7.326 | 12.069 | 19.491 | 13.782 |
| 6/15/2017 14:42 | 22680.001 | 378 | 3.174 | 7.329 | 12.072 | 19.488 | 13.785 |
| 6/15/2017 14:43 | 22740.001 | 379 | 3.167 | 7.313 | 12.056 | 19.504 | 13.81 |
| 6/15/2017 14:44 | 22800.001 | 380 | 3.176 | 7.333 | 12.076 | 19.484 | 13.798 |
| 6/15/2017 14:45 | 22860.001 | 381 | 3.177 | 7.336 | 12.079 | 19.481 | 13.805 |
| 6/15/2017 14:46 | 22920.001 | 382 | 3.177 | 7.336 | 12.079 | 19.481 | 13.798 |
| 6/15/2017 14:47 | 22980.001 | 383 | 3.18 | 7.342 | 12.085 | 19.475 | 13.793 |
| 6/15/2017 14:48 | 23040.001 | 384 | 3.179 | 7.34 | 12.083 | 19.477 | 13.808 |
| 6/15/2017 14:49 | 23100.001 | 385 | 3.181 | 7.345 | 12.088 | 19.472 | 13.804 |
| 6/15/2017 14:50 | 23160.001 | 386 | 3.181 | 7.346 | 12.089 | 19.471 | 13.795 |
| 6/15/2017 14:51 | 23220.001 | 387 | 3.185 | 7.354 | 12.097 | 19.463 | 13.786 |
| 6/15/2017 14:52 | 23280.001 | 388 | 3.185 | 7.355 | 12.098 | 19.462 | 13.784 |
| 6/15/2017 14:53 | 23340.001 | 389 | 3.185 | 7.354 | 12.097 | 19.463 | 13.812 |
| 6/15/2017 14:54 | 23400.001 | 390 | 3.189 | 7.363 | 12.106 | 19.454 | 13.806 |
| 6/15/2017 14:55 | 23460.001 | 391 | 3.188 | 7.36 | 12.103 | 19.457 | 13.783 |
| 6/15/2017 14:56 | 23520.001 | 392 | 3.187 | 7.359 | 12.102 | 19.458 | 13.796 |
| 6/15/2017 14:57 | 23580.001 | 393 | 3.188 | 7.361 | 12.104 | 19.456 | 13.789 |
| 6/15/2017 14:58 | 23640.001 | 394 | 3.192 | 7.369 | 12.112 | 19.448 | 13.782 |
| 6/15/2017 14:59 | 23700.001 | 395 | 3.191 | 7.367 | 12.11 | 19.45 | 13.796 |
| 6/15/2017 15:00 | 23760.001 | 396 | 3.191 | 7.367 | 12.11 | 19.45 | 13.801 |
| 6/15/2017 15:01 | 23820.001 | 397 | 3.192 | 7.371 | 12.114 | 19.446 | 13.809 |

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| 6/15/2017 15:02 | 23880.001 | 398 | 3.19 | 7.366 | 12.109 | 19.451 | 13.786 |
| 6/15/2017 15:03 | 23940.001 | 399 | 3.198 | 7.383 | 12.126 | 19.434 | 13.778 |
| 6/15/2017 15:04 | 24000.001 | 400 | 3.195 | 7.378 | 12.121 | 19.439 | 13.787 |
| 6/15/2017 15:05 | 24060.001 | 401 | 3.197 | 7.383 | 12.126 | 19.434 | 13.811 |
| 6/15/2017 15:06 | 24120.001 | 402 | 3.197 | 7.381 | 12.124 | 19.436 | 13.801 |
| 6/15/2017 15:07 | 24180.001 | 403 | 3.197 | 7.381 | 12.124 | 19.436 | 13.817 |
| 6/15/2017 15:08 | 24240.001 | 404 | 3.199 | 7.386 | 12.129 | 19.431 | 13.795 |
| 6/15/2017 15:09 | 24300.001 | 405 | 3.198 | 7.384 | 12.127 | 19.433 | 13.784 |
| 6/15/2017 15:10 | 24360.001 | 406 | 3.198 | 7.383 | 12.126 | 19.434 | 13.793 |
| 6/15/2017 15:11 | 24420.001 | 407 | 3.198 | 7.384 | 12.127 | 19.433 | 13.798 |
| 6/15/2017 15:12 | 24480.001 | 408 | 3.199 | 7.387 | 12.13 | 19.43 | 13.806 |
| 6/15/2017 15:13 | 24540.001 | 409 | 3.198 | 7.383 | 12.126 | 19.434 | 13.796 |
| 6/15/2017 15:14 | 24600.001 | 410 | 3.198 | 7.383 | 12.126 | 19.434 | 13.799 |
| 6/15/2017 15:15 | 24660.001 | 411 | 3.199 | 7.387 | 12.13 | 19.43 | 13.812 |
| 6/15/2017 15:16 | 24720.001 | 412 | 3.198 | 7.385 | 12.128 | 19.432 | 13.784 |
| 6/15/2017 15:17 | 24780.001 | 413 | 3.199 | 7.387 | 12.13 | 19.43 | 13.801 |
| 6/15/2017 15:18 | 24840.001 | 414 | 3.2 | 7.39 | 12.133 | 19.427 | 13.78 |
| 6/15/2017 15:19 | 24900.001 | 415 | 3.2 | 7.389 | 12.132 | 19.428 | 13.787 |
| 6/15/2017 15:20 | 24960.001 | 416 | 3.2 | 7.389 | 12.132 | 19.428 | 13.804 |
| 6/15/2017 15:21 | 25020.001 | 417 | 3.204 | 7.398 | 12.141 | 19.419 | 13.815 |
| 6/15/2017 15:22 | 25080.001 | 418 | 3.198 | 7.385 | 12.128 | 19.432 | 13.779 |
| 6/15/2017 15:23 | 25140.001 | 419 | 3.201 | 7.391 | 12.134 | 19.426 | 13.794 |
| 6/15/2017 15:24 | 25200.001 | 420 | 3.202 | 7.393 | 12.136 | 19.424 | 13.784 |
| 6/15/2017 15:25 | 25260.001 | 421 | 3.202 | 7.393 | 12.136 | 19.424 | 13.794 |
| 6/15/2017 15:26 | 25320.001 | 422 | 3.186 | 7.356 | 12.099 | 19.461 | 13.801 |

Report Date: 6/16/2017 11:37

Report User Name: spauldingj

Report Computer Name: LAPTOP04

Application: WinSitu.exe

Application Version: 5.6.25.0

Log File Properties

File Name PZ-17-2(Pump)_2017-06-15_15-22-46-851.wsl

Create Date 6/15/2017 15:22

Device Properties

Device Level TROLL 700

Site Orange County Landfill

Device Name 428981

Serial Number 3.03

Firmware Version 5

Hardware Version 1

Device Address 19200

Device Comm Cfg 3

Used Memory 11

Used Battery 8 Even

Log Configuration

Log Name PZ-17-2(Pump)

Created By Spauldingj

Computer Name LAPTOP04

Application WinSitu.exe

Application Version 5.6.25.0

Create Date 6/15/2017 8:19:44 AM

Log Setup Time Zone Eastern Daylight Time

Notes Size(bytes) 4096

Overwrite when full Disabled

Scheduled Start Time Manual Start

Scheduled Stop Time No Stop Time

Type Linear

Interval Days: 0 hrs: 00 mins: 01 secs: 00

Level Reference Settings At Log Creation

Level Measurement Mode

Specific Gravity

Depth 0.999

Other Log Settings

Depth of Probe:

7.2851 (ft)

Head Pressure: 3.15513 (PSI)
Temperature: 13.8844 (C)

Log Notes:

Date and Time Note

6/15/2017 8:19 Used Battery: 11% Used Memory: 4% User Name: SpauldingJ
6/15/2017 8:19 Manual Start Command
6/15/2017 15:22 Suspend Command
6/15/2017 15:22 Log Download - Used Battery: 11% Used Memory: 4% User Name: SpauldingJ

Log Data:

Record Count 423

Sensors

1

428981 Pressure/Temp 15 PSIG (11m/35ft)

Time Zone: Eastern Daylight Time

| Date and Time | Elapsed Time Seconds | Minutes | Sensor: Pres(G) 35ft SN#: 428981 | | Sensor: Pres(G) 35ft SN#: 428981 | | Sensor: Pres(G) 35ft SN#: 428981 | |
|----------------|-------------------------|---------|-------------------------------------|------------|-------------------------------------|------------------|-------------------------------------|-----------------|
| | | | Pressure (PSI) | Depth (ft) | Calculations | Water Level (ft) | Temperature (C) | Temperature (C) |
| 6/15/2017 8:19 | 0 | 0 | 3.148 | 7.268 | 12.15 | 20.08 | 13.907 | 13.907 |
| 6/15/2017 8:20 | 60 | 1 | 3.151 | 7.275 | 12.157 | 20.073 | 13.888 | 13.888 |
| 6/15/2017 8:21 | 120 | 2 | 3.142 | 7.254 | 12.136 | 20.094 | 13.916 | 13.916 |
| 6/15/2017 8:22 | 180 | 3 | 3.138 | 7.246 | 12.128 | 20.102 | 13.872 | 13.872 |
| 6/15/2017 8:23 | 240 | 4 | 3.136 | 7.241 | 12.123 | 20.107 | 13.87 | 13.87 |
| 6/15/2017 8:24 | 300 | 5 | 3.137 | 7.242 | 12.124 | 20.106 | 13.851 | 13.851 |
| 6/15/2017 8:25 | 360 | 6 | 3.135 | 7.239 | 12.121 | 20.109 | 13.869 | 13.869 |
| 6/15/2017 8:26 | 420 | 7 | 3.138 | 7.245 | 12.127 | 20.103 | 13.839 | 13.839 |
| 6/15/2017 8:27 | 480 | 8 | 3.134 | 7.236 | 12.118 | 20.112 | 13.854 | 13.854 |
| 6/15/2017 8:28 | 540 | 9 | 3.135 | 7.238 | 12.12 | 20.11 | 13.875 | 13.875 |
| 6/15/2017 8:29 | 600 | 10 | 3.137 | 7.244 | 12.126 | 20.104 | 13.868 | 13.868 |
| 6/15/2017 8:30 | 660 | 11 | 3.132 | 7.232 | 12.114 | 20.116 | 13.875 | 13.875 |
| 6/15/2017 8:31 | 720 | 12 | 3.136 | 7.241 | 12.123 | 20.107 | 13.901 | 13.901 |
| 6/15/2017 8:32 | 780 | 13 | 3.137 | 7.243 | 12.125 | 20.105 | 13.872 | 13.872 |
| 6/15/2017 8:33 | 840 | 14 | 3.135 | 7.239 | 12.121 | 20.109 | 13.895 | 13.895 |
| 6/15/2017 8:34 | 900 | 15 | 3.133 | 7.234 | 12.116 | 20.114 | 13.858 | 13.858 |
| 6/15/2017 8:35 | 960 | 16 | 3.135 | 7.238 | 12.12 | 20.11 | 13.906 | 13.906 |
| 6/15/2017 8:36 | 1020 | 17 | 3.135 | 7.238 | 12.12 | 20.11 | 13.878 | 13.878 |
| 6/15/2017 8:37 | 1080 | 18 | 3.134 | 7.237 | 12.119 | 20.111 | 13.909 | 13.909 |
| 6/15/2017 8:38 | 1140 | 19 | 3.128 | 7.224 | 12.106 | 20.124 | 13.89 | 13.89 |
| 6/15/2017 8:39 | 1200 | 20 | 3.111 | 7.183 | 12.065 | 20.165 | 13.869 | 13.869 |
| 6/15/2017 8:40 | 1260 | 21 | 3.087 | 7.129 | 12.011 | 20.219 | 13.874 | 13.874 |

| | | | | | | | |
|----------------|------|----|-------|-------|--------|--------|--------|
| 6/15/2017 8:41 | 1320 | 22 | 3.053 | 7.049 | 11.931 | 20.299 | 13.898 |
| 6/15/2017 8:42 | 1380 | 23 | 3.021 | 6.975 | 11.857 | 20.373 | 13.873 |
| 6/15/2017 8:43 | 1440 | 24 | 2.984 | 6.89 | 11.772 | 20.458 | 13.828 |
| 6/15/2017 8:44 | 1500 | 25 | 2.957 | 6.827 | 11.709 | 20.521 | 13.857 |
| 6/15/2017 8:45 | 1560 | 26 | 2.934 | 6.775 | 11.657 | 20.573 | 13.86 |
| 6/15/2017 8:46 | 1620 | 27 | 2.916 | 6.733 | 11.615 | 20.615 | 13.848 |
| 6/15/2017 8:47 | 1680 | 28 | 2.903 | 6.702 | 11.584 | 20.646 | 13.845 |
| 6/15/2017 8:48 | 1740 | 29 | 2.89 | 6.673 | 11.555 | 20.675 | 13.84 |
| 6/15/2017 8:49 | 1800 | 30 | 2.882 | 6.654 | 11.536 | 20.694 | 13.841 |
| 6/15/2017 8:50 | 1860 | 31 | 2.877 | 6.642 | 11.524 | 20.706 | 13.81 |
| 6/15/2017 8:51 | 1920 | 32 | 2.867 | 6.621 | 11.503 | 20.727 | 13.826 |
| 6/15/2017 8:52 | 1980 | 33 | 2.864 | 6.613 | 11.495 | 20.735 | 13.835 |
| 6/15/2017 8:53 | 2040 | 34 | 2.856 | 6.594 | 11.476 | 20.754 | 13.832 |
| 6/15/2017 8:54 | 2100 | 35 | 2.853 | 6.588 | 11.47 | 20.76 | 13.826 |
| 6/15/2017 8:55 | 2160 | 36 | 2.851 | 6.583 | 11.465 | 20.765 | 13.862 |
| 6/15/2017 8:56 | 2220 | 37 | 2.846 | 6.57 | 11.452 | 20.778 | 13.813 |
| 6/15/2017 8:57 | 2280 | 38 | 2.844 | 6.567 | 11.449 | 20.781 | 13.806 |
| 6/15/2017 8:58 | 2340 | 39 | 2.842 | 6.562 | 11.444 | 20.786 | 13.846 |
| 6/15/2017 8:59 | 2400 | 40 | 2.839 | 6.554 | 11.436 | 20.794 | 13.817 |
| 6/15/2017 9:00 | 2460 | 41 | 2.838 | 6.552 | 11.434 | 20.796 | 13.825 |
| 6/15/2017 9:01 | 2520 | 42 | 2.835 | 6.547 | 11.429 | 20.801 | 13.837 |
| 6/15/2017 9:02 | 2580 | 43 | 2.835 | 6.547 | 11.429 | 20.801 | 13.837 |
| 6/15/2017 9:03 | 2640 | 44 | 2.832 | 6.539 | 11.421 | 20.809 | 13.834 |
| 6/15/2017 9:04 | 2700 | 45 | 2.83 | 6.534 | 11.416 | 20.814 | 13.833 |
| 6/15/2017 9:05 | 2760 | 46 | 2.829 | 6.533 | 11.415 | 20.815 | 13.871 |
| 6/15/2017 9:06 | 2820 | 47 | 2.829 | 6.532 | 11.414 | 20.816 | 13.874 |
| 6/15/2017 9:07 | 2880 | 48 | 2.825 | 6.524 | 11.406 | 20.824 | 13.871 |
| 6/15/2017 9:08 | 2940 | 49 | 2.825 | 6.522 | 11.404 | 20.826 | 13.87 |
| 6/15/2017 9:09 | 3000 | 50 | 2.823 | 6.519 | 11.401 | 20.829 | 13.84 |
| 6/15/2017 9:10 | 3060 | 51 | 2.822 | 6.515 | 11.397 | 20.833 | 13.877 |
| 6/15/2017 9:11 | 3120 | 52 | 2.821 | 6.513 | 11.395 | 20.835 | 13.825 |
| 6/15/2017 9:12 | 3180 | 53 | 2.819 | 6.51 | 11.392 | 20.838 | 13.821 |
| 6/15/2017 9:13 | 3240 | 54 | 2.818 | 6.507 | 11.389 | 20.841 | 13.843 |
| 6/15/2017 9:14 | 3300 | 55 | 2.817 | 6.503 | 11.385 | 20.845 | 13.84 |
| 6/15/2017 9:15 | 3360 | 56 | 2.813 | 6.495 | 11.377 | 20.853 | 13.829 |
| 6/15/2017 9:16 | 3420 | 57 | 2.815 | 6.499 | 11.381 | 20.849 | 13.854 |
| 6/15/2017 9:17 | 3480 | 58 | 2.817 | 6.505 | 11.387 | 20.843 | 13.832 |
| 6/15/2017 9:18 | 3540 | 59 | 2.817 | 6.505 | 11.387 | 20.843 | 13.848 |
| 6/15/2017 9:19 | 3600 | 60 | 2.814 | 6.498 | 11.38 | 20.85 | 13.857 |
| 6/15/2017 9:20 | 3660 | 61 | 2.814 | 6.496 | 11.378 | 20.852 | 13.879 |
| 6/15/2017 9:21 | 3720 | 62 | 2.814 | 6.497 | 11.379 | 20.851 | 13.841 |
| 6/15/2017 9:22 | 3780 | 63 | 2.81 | 6.488 | 11.37 | 20.86 | 13.848 |
| 6/15/2017 9:23 | 3840 | 64 | 2.81 | 6.488 | 11.37 | 20.86 | 13.84 |
| 6/15/2017 9:24 | 3900 | 65 | 2.81 | 6.488 | 11.37 | 20.86 | 13.844 |
| 6/15/2017 9:25 | 3960 | 66 | 2.809 | 6.486 | 11.368 | 20.862 | 13.869 |
| 6/15/2017 9:26 | 4020 | 67 | 2.808 | 6.484 | 11.366 | 20.864 | 13.832 |
| 6/15/2017 9:27 | 4080 | 68 | 2.807 | 6.482 | 11.364 | 20.866 | 13.835 |

| | | | | | | | |
|-----------------|------|-----|-------|-------|--------|--------|--------|
| 6/15/2017 9:28 | 4140 | 69 | 2.806 | 6.479 | 11.361 | 20.869 | 13.841 |
| 6/15/2017 9:29 | 4200 | 70 | 2.804 | 6.475 | 11.357 | 20.873 | 13.867 |
| 6/15/2017 9:30 | 4260 | 71 | 2.808 | 6.484 | 11.366 | 20.864 | 13.837 |
| 6/15/2017 9:31 | 4320 | 72 | 2.809 | 6.485 | 11.367 | 20.863 | 13.847 |
| 6/15/2017 9:32 | 4380 | 73 | 2.806 | 6.479 | 11.361 | 20.869 | 13.861 |
| 6/15/2017 9:33 | 4440 | 74 | 2.806 | 6.478 | 11.36 | 20.87 | 13.857 |
| 6/15/2017 9:34 | 4500 | 75 | 2.803 | 6.472 | 11.354 | 20.876 | 13.854 |
| 6/15/2017 9:35 | 4560 | 76 | 2.806 | 6.479 | 11.361 | 20.869 | 13.859 |
| 6/15/2017 9:36 | 4620 | 77 | 2.802 | 6.471 | 11.353 | 20.877 | 13.846 |
| 6/15/2017 9:37 | 4680 | 78 | 2.804 | 6.473 | 11.355 | 20.875 | 13.862 |
| 6/15/2017 9:38 | 4740 | 79 | 2.805 | 6.477 | 11.359 | 20.871 | 13.858 |
| 6/15/2017 9:39 | 4800 | 80 | 2.804 | 6.475 | 11.357 | 20.873 | 13.862 |
| 6/15/2017 9:40 | 4860 | 81 | 2.803 | 6.473 | 11.355 | 20.875 | 13.87 |
| 6/15/2017 9:41 | 4920 | 82 | 2.804 | 6.474 | 11.356 | 20.874 | 13.874 |
| 6/15/2017 9:42 | 4980 | 83 | 2.804 | 6.474 | 11.356 | 20.874 | 13.878 |
| 6/15/2017 9:43 | 5040 | 84 | 2.8 | 6.465 | 11.347 | 20.883 | 13.863 |
| 6/15/2017 9:44 | 5100 | 85 | 2.803 | 6.472 | 11.354 | 20.876 | 13.793 |
| 6/15/2017 9:45 | 5160 | 86 | 2.802 | 6.469 | 11.351 | 20.879 | 13.823 |
| 6/15/2017 9:46 | 5220 | 87 | 2.801 | 6.468 | 11.35 | 20.88 | 13.816 |
| 6/15/2017 9:47 | 5280 | 88 | 2.802 | 6.471 | 11.353 | 20.877 | 13.806 |
| 6/15/2017 9:48 | 5340 | 89 | 2.801 | 6.468 | 11.35 | 20.88 | 13.838 |
| 6/15/2017 9:49 | 5400 | 90 | 2.8 | 6.465 | 11.347 | 20.883 | 13.851 |
| 6/15/2017 9:50 | 5460 | 91 | 2.799 | 6.464 | 11.346 | 20.884 | 13.829 |
| 6/15/2017 9:51 | 5520 | 92 | 2.799 | 6.463 | 11.345 | 20.885 | 13.821 |
| 6/15/2017 9:52 | 5580 | 93 | 2.798 | 6.462 | 11.344 | 20.886 | 13.862 |
| 6/15/2017 9:53 | 5640 | 94 | 2.801 | 6.468 | 11.35 | 20.88 | 13.845 |
| 6/15/2017 9:54 | 5700 | 95 | 2.797 | 6.459 | 11.341 | 20.889 | 13.846 |
| 6/15/2017 9:55 | 5760 | 96 | 2.799 | 6.464 | 11.346 | 20.884 | 13.859 |
| 6/15/2017 9:56 | 5820 | 97 | 2.798 | 6.461 | 11.343 | 20.887 | 13.846 |
| 6/15/2017 9:57 | 5880 | 98 | 2.798 | 6.461 | 11.343 | 20.887 | 13.857 |
| 6/15/2017 9:58 | 5940 | 99 | 2.798 | 6.461 | 11.343 | 20.887 | 13.851 |
| 6/15/2017 9:59 | 6000 | 100 | 2.797 | 6.459 | 11.341 | 20.889 | 13.844 |
| 6/15/2017 10:00 | 6060 | 101 | 2.797 | 6.457 | 11.339 | 20.891 | 13.861 |
| 6/15/2017 10:01 | 6120 | 102 | 2.796 | 6.455 | 11.337 | 20.893 | 13.873 |
| 6/15/2017 10:02 | 6180 | 103 | 2.796 | 6.455 | 11.337 | 20.893 | 13.861 |
| 6/15/2017 10:03 | 6240 | 104 | 2.797 | 6.459 | 11.341 | 20.889 | 13.848 |
| 6/15/2017 10:04 | 6300 | 105 | 2.794 | 6.452 | 11.334 | 20.896 | 13.887 |
| 6/15/2017 10:05 | 6360 | 106 | 2.796 | 6.457 | 11.339 | 20.891 | 13.864 |
| 6/15/2017 10:06 | 6420 | 107 | 2.797 | 6.459 | 11.341 | 20.889 | 13.862 |
| 6/15/2017 10:07 | 6480 | 108 | 2.796 | 6.456 | 11.338 | 20.892 | 13.85 |
| 6/15/2017 10:08 | 6540 | 109 | 2.793 | 6.449 | 11.331 | 20.899 | 13.864 |
| 6/15/2017 10:09 | 6600 | 110 | 2.793 | 6.45 | 11.332 | 20.898 | 13.876 |
| 6/15/2017 10:10 | 6660 | 111 | 2.796 | 6.456 | 11.338 | 20.892 | 13.854 |
| 6/15/2017 10:11 | 6720 | 112 | 2.793 | 6.45 | 11.332 | 20.898 | 13.848 |
| 6/15/2017 10:12 | 6780 | 113 | 2.795 | 6.453 | 11.335 | 20.895 | 13.858 |
| 6/15/2017 10:13 | 6840 | 114 | 2.796 | 6.457 | 11.339 | 20.891 | 13.865 |
| 6/15/2017 10:14 | 6900 | 115 | 2.796 | 6.456 | 11.338 | 20.892 | 13.884 |

| | | | | | | | |
|-----------------|------|-----|-------|-------|--------|--------|--------|
| 6/15/2017 10:15 | 6960 | 116 | 2.793 | 6.45 | 11.332 | 20.898 | 13.863 |
| 6/15/2017 10:16 | 7020 | 117 | 2.794 | 6.45 | 11.332 | 20.898 | 13.856 |
| 6/15/2017 10:17 | 7080 | 118 | 2.791 | 6.445 | 11.327 | 20.903 | 13.867 |
| 6/15/2017 10:18 | 7140 | 119 | 2.794 | 6.452 | 11.334 | 20.896 | 13.872 |
| 6/15/2017 10:19 | 7200 | 120 | 2.795 | 6.453 | 11.335 | 20.895 | 13.863 |
| 6/15/2017 10:20 | 7260 | 121 | 2.793 | 6.45 | 11.332 | 20.898 | 13.864 |
| 6/15/2017 10:21 | 7320 | 122 | 2.792 | 6.447 | 11.329 | 20.901 | 13.852 |
| 6/15/2017 10:22 | 7380 | 123 | 2.792 | 6.446 | 11.328 | 20.902 | 13.872 |
| 6/15/2017 10:23 | 7440 | 124 | 2.792 | 6.446 | 11.328 | 20.902 | 13.854 |
| 6/15/2017 10:24 | 7500 | 125 | 2.793 | 6.448 | 11.33 | 20.9 | 13.819 |
| 6/15/2017 10:25 | 7560 | 126 | 2.793 | 6.448 | 11.33 | 20.9 | 13.838 |
| 6/15/2017 10:26 | 7620 | 127 | 2.794 | 6.451 | 11.333 | 20.897 | 13.854 |
| 6/15/2017 10:27 | 7680 | 128 | 2.794 | 6.451 | 11.333 | 20.897 | 13.844 |
| 6/15/2017 10:28 | 7740 | 129 | 2.793 | 6.448 | 11.33 | 20.9 | 13.857 |
| 6/15/2017 10:29 | 7800 | 130 | 2.791 | 6.445 | 11.327 | 20.903 | 13.851 |
| 6/15/2017 10:30 | 7860 | 131 | 2.792 | 6.446 | 11.328 | 20.902 | 13.829 |
| 6/15/2017 10:31 | 7920 | 132 | 2.791 | 6.445 | 11.327 | 20.903 | 13.833 |
| 6/15/2017 10:32 | 7980 | 133 | 2.791 | 6.444 | 11.326 | 20.904 | 13.884 |
| 6/15/2017 10:33 | 8040 | 134 | 2.79 | 6.443 | 11.325 | 20.905 | 13.842 |
| 6/15/2017 10:34 | 8100 | 135 | 2.792 | 6.447 | 11.329 | 20.901 | 13.853 |
| 6/15/2017 10:35 | 8160 | 136 | 2.794 | 6.45 | 11.332 | 20.898 | 13.865 |
| 6/15/2017 10:36 | 8220 | 137 | 2.786 | 6.434 | 11.316 | 20.914 | 13.87 |
| 6/15/2017 10:37 | 8280 | 138 | 2.791 | 6.445 | 11.327 | 20.903 | 13.876 |
| 6/15/2017 10:38 | 8340 | 139 | 2.789 | 6.439 | 11.321 | 20.909 | 13.881 |
| 6/15/2017 10:39 | 8400 | 140 | 2.789 | 6.439 | 11.321 | 20.909 | 13.863 |
| 6/15/2017 10:40 | 8460 | 141 | 2.79 | 6.443 | 11.325 | 20.905 | 13.87 |
| 6/15/2017 10:41 | 8520 | 142 | 2.791 | 6.444 | 11.326 | 20.904 | 13.854 |
| 6/15/2017 10:42 | 8580 | 143 | 2.789 | 6.44 | 11.322 | 20.908 | 13.868 |
| 6/15/2017 10:43 | 8640 | 144 | 2.791 | 6.445 | 11.327 | 20.903 | 13.835 |
| 6/15/2017 10:44 | 8700 | 145 | 2.788 | 6.438 | 11.32 | 20.91 | 13.832 |
| 6/15/2017 10:45 | 8760 | 146 | 2.788 | 6.438 | 11.32 | 20.91 | 13.824 |
| 6/15/2017 10:46 | 8820 | 147 | 2.787 | 6.435 | 11.317 | 20.913 | 13.868 |
| 6/15/2017 10:47 | 8880 | 148 | 2.791 | 6.444 | 11.326 | 20.904 | 13.868 |
| 6/15/2017 10:48 | 8940 | 149 | 2.789 | 6.439 | 11.321 | 20.909 | 13.847 |
| 6/15/2017 10:49 | 9000 | 150 | 2.789 | 6.441 | 11.323 | 20.907 | 13.856 |
| 6/15/2017 10:50 | 9060 | 151 | 2.789 | 6.439 | 11.321 | 20.909 | 13.846 |
| 6/15/2017 10:51 | 9120 | 152 | 2.789 | 6.439 | 11.321 | 20.909 | 13.853 |
| 6/15/2017 10:52 | 9180 | 153 | 2.787 | 6.435 | 11.317 | 20.913 | 13.848 |
| 6/15/2017 10:53 | 9240 | 154 | 2.787 | 6.436 | 11.318 | 20.912 | 13.854 |
| 6/15/2017 10:54 | 9300 | 155 | 2.787 | 6.435 | 11.317 | 20.913 | 13.834 |
| 6/15/2017 10:55 | 9360 | 156 | 2.787 | 6.435 | 11.317 | 20.913 | 13.856 |
| 6/15/2017 10:56 | 9420 | 157 | 2.788 | 6.437 | 11.319 | 20.911 | 13.842 |
| 6/15/2017 10:57 | 9480 | 158 | 2.79 | 6.441 | 11.323 | 20.907 | 13.838 |
| 6/15/2017 10:58 | 9540 | 159 | 2.787 | 6.435 | 11.317 | 20.913 | 13.86 |
| 6/15/2017 10:59 | 9600 | 160 | 2.789 | 6.439 | 11.321 | 20.909 | 13.844 |
| 6/15/2017 11:00 | 9660 | 161 | 2.787 | 6.434 | 11.316 | 20.914 | 13.879 |
| 6/15/2017 11:01 | 9720 | 162 | 2.785 | 6.431 | 11.313 | 20.917 | 13.871 |

| | | | | | | | |
|-----------------|-------|-----|-------|-------|--------|--------|--------|
| 6/15/2017 11:02 | 9780 | 163 | 2.784 | 6.429 | 11.311 | 20.919 | 13.881 |
| 6/15/2017 11:03 | 9840 | 164 | 2.789 | 6.439 | 11.321 | 20.909 | 13.871 |
| 6/15/2017 11:04 | 9900 | 165 | 2.786 | 6.432 | 11.314 | 20.916 | 13.867 |
| 6/15/2017 11:05 | 9960 | 166 | 2.787 | 6.436 | 11.318 | 20.912 | 13.858 |
| 6/15/2017 11:06 | 10020 | 167 | 2.786 | 6.434 | 11.316 | 20.914 | 13.875 |
| 6/15/2017 11:07 | 10080 | 168 | 2.786 | 6.434 | 11.316 | 20.914 | 13.881 |
| 6/15/2017 11:08 | 10140 | 169 | 2.787 | 6.435 | 11.317 | 20.913 | 13.868 |
| 6/15/2017 11:09 | 10200 | 170 | 2.785 | 6.432 | 11.314 | 20.916 | 13.873 |
| 6/15/2017 11:10 | 10260 | 171 | 2.785 | 6.431 | 11.313 | 20.917 | 13.889 |
| 6/15/2017 11:11 | 10320 | 172 | 2.784 | 6.429 | 11.311 | 20.919 | 13.869 |
| 6/15/2017 11:12 | 10380 | 173 | 2.786 | 6.433 | 11.315 | 20.915 | 13.868 |
| 6/15/2017 11:13 | 10440 | 174 | 2.786 | 6.434 | 11.316 | 20.914 | 13.889 |
| 6/15/2017 11:14 | 10500 | 175 | 2.785 | 6.43 | 11.312 | 20.918 | 13.865 |
| 6/15/2017 11:15 | 10560 | 176 | 2.786 | 6.433 | 11.315 | 20.915 | 13.873 |
| 6/15/2017 11:16 | 10620 | 177 | 2.785 | 6.43 | 11.312 | 20.918 | 13.869 |
| 6/15/2017 11:17 | 10680 | 178 | 2.786 | 6.434 | 11.316 | 20.914 | 13.899 |
| 6/15/2017 11:18 | 10740 | 179 | 2.787 | 6.435 | 11.317 | 20.913 | 13.888 |
| 6/15/2017 11:19 | 10800 | 180 | 2.785 | 6.43 | 11.312 | 20.918 | 13.864 |
| 6/15/2017 11:20 | 10860 | 181 | 2.788 | 6.436 | 11.318 | 20.912 | 13.864 |
| 6/15/2017 11:21 | 10920 | 182 | 2.785 | 6.43 | 11.312 | 20.918 | 13.859 |
| 6/15/2017 11:22 | 10980 | 183 | 2.784 | 6.427 | 11.309 | 20.921 | 13.891 |
| 6/15/2017 11:23 | 11040 | 184 | 2.785 | 6.43 | 11.312 | 20.918 | 13.887 |
| 6/15/2017 11:24 | 11100 | 185 | 2.786 | 6.434 | 11.316 | 20.914 | 13.891 |
| 6/15/2017 11:25 | 11160 | 186 | 2.784 | 6.428 | 11.31 | 20.92 | 13.887 |
| 6/15/2017 11:26 | 11220 | 187 | 2.783 | 6.426 | 11.308 | 20.922 | 13.875 |
| 6/15/2017 11:27 | 11280 | 188 | 2.785 | 6.43 | 11.312 | 20.918 | 13.865 |
| 6/15/2017 11:28 | 11340 | 189 | 2.782 | 6.424 | 11.306 | 20.924 | 13.868 |
| 6/15/2017 11:29 | 11400 | 190 | 2.783 | 6.425 | 11.307 | 20.923 | 13.896 |
| 6/15/2017 11:30 | 11460 | 191 | 2.781 | 6.422 | 11.304 | 20.926 | 13.859 |
| 6/15/2017 11:31 | 11520 | 192 | 2.784 | 6.429 | 11.311 | 20.919 | 13.86 |
| 6/15/2017 11:32 | 11580 | 193 | 2.781 | 6.422 | 11.304 | 20.926 | 13.877 |
| 6/15/2017 11:33 | 11640 | 194 | 2.784 | 6.428 | 11.31 | 20.92 | 13.889 |
| 6/15/2017 11:34 | 11700 | 195 | 2.783 | 6.425 | 11.307 | 20.923 | 13.89 |
| 6/15/2017 11:35 | 11760 | 196 | 2.784 | 6.428 | 11.31 | 20.92 | 13.908 |
| 6/15/2017 11:36 | 11820 | 197 | 2.782 | 6.423 | 11.305 | 20.925 | 13.903 |
| 6/15/2017 11:37 | 11880 | 198 | 2.785 | 6.43 | 11.312 | 20.918 | 13.891 |
| 6/15/2017 11:38 | 11940 | 199 | 2.782 | 6.423 | 11.305 | 20.925 | 13.874 |
| 6/15/2017 11:39 | 12000 | 200 | 2.784 | 6.429 | 11.311 | 20.919 | 13.896 |
| 6/15/2017 11:40 | 12060 | 201 | 2.781 | 6.421 | 11.303 | 20.927 | 13.892 |
| 6/15/2017 11:41 | 12120 | 202 | 2.782 | 6.423 | 11.305 | 20.925 | 13.907 |
| 6/15/2017 11:42 | 12180 | 203 | 2.784 | 6.428 | 11.31 | 20.92 | 13.849 |
| 6/15/2017 11:43 | 12240 | 204 | 2.784 | 6.427 | 11.309 | 20.921 | 13.88 |
| 6/15/2017 11:44 | 12300 | 205 | 2.784 | 6.428 | 11.31 | 20.92 | 13.859 |
| 6/15/2017 11:45 | 12360 | 206 | 2.784 | 6.428 | 11.31 | 20.92 | 13.883 |
| 6/15/2017 11:46 | 12420 | 207 | 2.781 | 6.42 | 11.302 | 20.928 | 13.892 |
| 6/15/2017 11:47 | 12480 | 208 | 2.782 | 6.425 | 11.307 | 20.923 | 13.884 |
| 6/15/2017 11:48 | 12540 | 209 | 2.782 | 6.424 | 11.306 | 20.924 | 13.878 |

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| 6/15/2017 11:49 | 12600 | 210 | 2.784 | 6.427 | 11.309 | 20.921 | 13.886 |
| 6/15/2017 11:50 | 12660 | 211 | 2.783 | 6.427 | 11.309 | 20.921 | 13.871 |
| 6/15/2017 11:51 | 12720 | 212 | 2.783 | 6.426 | 11.308 | 20.922 | 13.865 |
| 6/15/2017 11:52 | 12780 | 213 | 2.786 | 6.432 | 11.314 | 20.916 | 13.909 |
| 6/15/2017 11:53 | 12840 | 214 | 2.782 | 6.423 | 11.305 | 20.925 | 13.879 |
| 6/15/2017 11:54 | 12900 | 215 | 2.783 | 6.427 | 11.309 | 20.921 | 13.903 |
| 6/15/2017 11:55 | 12960 | 216 | 2.781 | 6.422 | 11.304 | 20.926 | 13.911 |
| 6/15/2017 11:56 | 13020 | 217 | 2.782 | 6.425 | 11.307 | 20.923 | 13.89 |
| 6/15/2017 11:57 | 13080 | 218 | 2.782 | 6.424 | 11.306 | 20.924 | 13.889 |
| 6/15/2017 11:58 | 13140 | 219 | 2.781 | 6.421 | 11.303 | 20.927 | 13.909 |
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| 6/15/2017 12:01 | 13320 | 222 | 2.781 | 6.421 | 11.303 | 20.927 | 13.892 |
| 6/15/2017 12:02 | 13380 | 223 | 2.781 | 6.421 | 11.303 | 20.927 | 13.923 |
| 6/15/2017 12:03 | 13440 | 224 | 2.782 | 6.425 | 11.307 | 20.923 | 13.877 |
| 6/15/2017 12:04 | 13500 | 225 | 2.779 | 6.418 | 11.3 | 20.93 | 13.875 |
| 6/15/2017 12:05 | 13560 | 226 | 2.781 | 6.421 | 11.303 | 20.927 | 13.923 |
| 6/15/2017 12:06 | 13620 | 227 | 2.785 | 6.43 | 11.312 | 20.918 | 13.896 |
| 6/15/2017 12:07 | 13680 | 228 | 2.782 | 6.423 | 11.305 | 20.925 | 13.868 |
| 6/15/2017 12:08 | 13740 | 229 | 2.78 | 6.419 | 11.301 | 20.929 | 13.899 |
| 6/15/2017 12:09 | 13800 | 230 | 2.779 | 6.418 | 11.3 | 20.93 | 13.897 |
| 6/15/2017 12:10 | 13860 | 231 | 2.783 | 6.426 | 11.308 | 20.922 | 13.861 |
| 6/15/2017 12:11 | 13920 | 232 | 2.781 | 6.421 | 11.303 | 20.927 | 13.886 |
| 6/15/2017 12:12 | 13980 | 233 | 2.778 | 6.414 | 11.296 | 20.934 | 13.881 |
| 6/15/2017 12:13 | 14040 | 234 | 2.782 | 6.424 | 11.306 | 20.924 | 13.854 |
| 6/15/2017 12:14 | 14100 | 235 | 2.783 | 6.426 | 11.308 | 20.922 | 13.886 |
| 6/15/2017 12:15 | 14160 | 236 | 2.78 | 6.418 | 11.3 | 20.93 | 13.865 |
| 6/15/2017 12:16 | 14220 | 237 | 2.78 | 6.419 | 11.301 | 20.929 | 13.873 |
| 6/15/2017 12:17 | 14280 | 238 | 2.782 | 6.423 | 11.305 | 20.925 | 13.882 |
| 6/15/2017 12:18 | 14340 | 239 | 2.78 | 6.42 | 11.302 | 20.928 | 13.878 |
| 6/15/2017 12:19 | 14400 | 240 | 2.779 | 6.418 | 11.3 | 20.93 | 13.874 |
| 6/15/2017 12:20 | 14460 | 241 | 2.78 | 6.418 | 11.3 | 20.93 | 13.868 |
| 6/15/2017 12:21 | 14520 | 242 | 2.778 | 6.415 | 11.297 | 20.933 | 13.871 |
| 6/15/2017 12:22 | 14580 | 243 | 2.781 | 6.42 | 11.302 | 20.928 | 13.872 |
| 6/15/2017 12:23 | 14640 | 244 | 2.778 | 6.415 | 11.297 | 20.933 | 13.862 |
| 6/15/2017 12:24 | 14700 | 245 | 2.78 | 6.418 | 11.3 | 20.93 | 13.874 |
| 6/15/2017 12:25 | 14760 | 246 | 2.782 | 6.423 | 11.305 | 20.925 | 13.872 |
| 6/15/2017 12:26 | 14820 | 247 | 2.779 | 6.416 | 11.298 | 20.932 | 13.873 |
| 6/15/2017 12:27 | 14880 | 248 | 2.778 | 6.415 | 11.297 | 20.933 | 13.903 |
| 6/15/2017 12:28 | 14940 | 249 | 2.78 | 6.418 | 11.3 | 20.93 | 13.876 |
| 6/15/2017 12:29 | 15000 | 250 | 2.779 | 6.416 | 11.298 | 20.932 | 13.846 |
| 6/15/2017 12:30 | 15060 | 251 | 2.777 | 6.412 | 11.294 | 20.936 | 13.848 |
| 6/15/2017 12:31 | 15120 | 252 | 2.78 | 6.419 | 11.301 | 20.929 | 13.839 |
| 6/15/2017 12:32 | 15180 | 253 | 2.778 | 6.415 | 11.297 | 20.933 | 13.836 |
| 6/15/2017 12:33 | 15240 | 254 | 2.779 | 6.416 | 11.298 | 20.932 | 13.84 |
| 6/15/2017 12:34 | 15300 | 255 | 2.78 | 6.418 | 11.3 | 20.93 | 13.826 |
| 6/15/2017 12:35 | 15360 | 256 | 2.778 | 6.415 | 11.297 | 20.933 | 13.847 |

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| 6/15/2017 12:36 | 15420 | 257 | 2.78 | 6.418 | 11.3 | 20.93 | 13.832 |
| 6/15/2017 12:37 | 15480 | 258 | 2.782 | 6.424 | 11.306 | 20.924 | 13.836 |
| 6/15/2017 12:38 | 15540 | 259 | 2.78 | 6.418 | 11.3 | 20.93 | 13.832 |
| 6/15/2017 12:39 | 15600 | 260 | 2.781 | 6.421 | 11.303 | 20.927 | 13.823 |
| 6/15/2017 12:40 | 15660 | 261 | 2.78 | 6.419 | 11.301 | 20.929 | 13.835 |
| 6/15/2017 12:41 | 15720 | 262 | 2.78 | 6.418 | 11.3 | 20.93 | 13.862 |
| 6/15/2017 12:42 | 15780 | 263 | 2.776 | 6.409 | 11.291 | 20.939 | 13.836 |
| 6/15/2017 12:43 | 15840 | 264 | 2.778 | 6.414 | 11.296 | 20.934 | 13.843 |
| 6/15/2017 12:44 | 15900 | 265 | 2.779 | 6.417 | 11.299 | 20.931 | 13.841 |
| 6/15/2017 12:45 | 15960 | 266 | 2.767 | 6.389 | 11.271 | 20.959 | 13.87 |
| 6/15/2017 12:46 | 16020 | 267 | 2.778 | 6.414 | 11.296 | 20.934 | 13.853 |
| 6/15/2017 12:47 | 16080 | 268 | 2.778 | 6.415 | 11.297 | 20.933 | 13.868 |
| 6/15/2017 12:48 | 16140 | 269 | 2.779 | 6.416 | 11.298 | 20.932 | 13.866 |
| 6/15/2017 12:49 | 16200 | 270 | 2.778 | 6.413 | 11.295 | 20.935 | 13.86 |
| 6/15/2017 12:50 | 16260 | 271 | 2.778 | 6.414 | 11.296 | 20.934 | 13.882 |
| 6/15/2017 12:51 | 16320 | 272 | 2.777 | 6.412 | 11.294 | 20.936 | 13.873 |
| 6/15/2017 12:52 | 16380 | 273 | 2.78 | 6.418 | 11.3 | 20.93 | 13.868 |
| 6/15/2017 12:53 | 16440 | 274 | 2.778 | 6.414 | 11.296 | 20.934 | 13.86 |
| 6/15/2017 12:54 | 16500 | 275 | 2.775 | 6.407 | 11.289 | 20.941 | 13.855 |
| 6/15/2017 12:55 | 16560 | 276 | 2.777 | 6.413 | 11.295 | 20.935 | 13.867 |
| 6/15/2017 12:56 | 16620 | 277 | 2.775 | 6.408 | 11.29 | 20.94 | 13.847 |
| 6/15/2017 12:57 | 16680 | 278 | 2.779 | 6.417 | 11.299 | 20.931 | 13.84 |
| 6/15/2017 12:58 | 16740 | 279 | 2.776 | 6.409 | 11.291 | 20.939 | 13.87 |
| 6/15/2017 12:59 | 16800 | 280 | 2.779 | 6.416 | 11.298 | 20.932 | 13.848 |
| 6/15/2017 13:00 | 16860 | 281 | 2.776 | 6.409 | 11.291 | 20.939 | 13.851 |
| 6/15/2017 13:01 | 16920 | 282 | 2.773 | 6.404 | 11.286 | 20.944 | 13.837 |
| 6/15/2017 13:02 | 16980 | 283 | 2.778 | 6.414 | 11.296 | 20.934 | 13.835 |
| 6/15/2017 13:03 | 17040 | 284 | 2.774 | 6.406 | 11.288 | 20.942 | 13.846 |
| 6/15/2017 13:04 | 17100 | 285 | 2.777 | 6.413 | 11.295 | 20.935 | 13.829 |
| 6/15/2017 13:05 | 17160 | 286 | 2.776 | 6.41 | 11.292 | 20.938 | 13.848 |
| 6/15/2017 13:06 | 17220 | 287 | 2.777 | 6.411 | 11.293 | 20.937 | 13.847 |
| 6/15/2017 13:07 | 17280 | 288 | 2.776 | 6.411 | 11.293 | 20.937 | 13.87 |
| 6/15/2017 13:08 | 17340 | 289 | 2.777 | 6.411 | 11.293 | 20.937 | 13.857 |
| 6/15/2017 13:09 | 17400 | 290 | 2.776 | 6.41 | 11.292 | 20.938 | 13.862 |
| 6/15/2017 13:10 | 17460 | 291 | 2.776 | 6.411 | 11.293 | 20.937 | 13.861 |
| 6/15/2017 13:11 | 17520 | 292 | 2.774 | 6.404 | 11.286 | 20.944 | 13.892 |
| 6/15/2017 13:12 | 17580 | 293 | 2.776 | 6.41 | 11.292 | 20.938 | 13.895 |
| 6/15/2017 13:13 | 17640 | 294 | 2.775 | 6.408 | 11.29 | 20.94 | 13.875 |
| 6/15/2017 13:14 | 17700 | 295 | 2.774 | 6.405 | 11.287 | 20.943 | 13.897 |
| 6/15/2017 13:15 | 17760 | 296 | 2.777 | 6.411 | 11.293 | 20.937 | 13.881 |
| 6/15/2017 13:16 | 17820 | 297 | 2.776 | 6.411 | 11.293 | 20.937 | 13.899 |
| 6/15/2017 13:17 | 17880 | 298 | 2.779 | 6.416 | 11.298 | 20.932 | 13.884 |
| 6/15/2017 13:18 | 17940 | 299 | 2.78 | 6.42 | 11.302 | 20.928 | 13.883 |
| 6/15/2017 13:19 | 18000 | 300 | 2.782 | 6.424 | 11.306 | 20.924 | 13.887 |
| 6/15/2017 13:20 | 18060 | 301 | 2.786 | 6.433 | 11.315 | 20.915 | 13.857 |
| 6/15/2017 13:21 | 18120 | 302 | 2.79 | 6.442 | 11.324 | 20.906 | 13.891 |
| 6/15/2017 13:22 | 18180 | 303 | 2.798 | 6.459 | 11.341 | 20.889 | 13.826 |

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| 6/15/2017 13:23 | 18240 | 304 | 2.806 | 6.479 | 11.361 | 20.869 | 13.857 |
| 6/15/2017 13:24 | 18300 | 305 | 2.813 | 6.495 | 11.377 | 20.853 | 13.83 |
| 6/15/2017 13:25 | 18360 | 306 | 2.818 | 6.506 | 11.388 | 20.842 | 13.839 |
| 6/15/2017 13:26 | 18420 | 307 | 2.827 | 6.528 | 11.41 | 20.82 | 13.854 |
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| 6/15/2017 13:28 | 18540 | 309 | 2.838 | 6.554 | 11.436 | 20.794 | 13.857 |
| 6/15/2017 13:29 | 18600 | 310 | 2.847 | 6.574 | 11.456 | 20.774 | 13.841 |
| 6/15/2017 13:30 | 18660 | 311 | 2.856 | 6.594 | 11.476 | 20.754 | 13.873 |
| 6/15/2017 13:31 | 18720 | 312 | 2.858 | 6.6 | 11.482 | 20.748 | 13.855 |
| 6/15/2017 13:32 | 18780 | 313 | 2.865 | 6.615 | 11.497 | 20.733 | 13.858 |
| 6/15/2017 13:33 | 18840 | 314 | 2.873 | 6.633 | 11.515 | 20.715 | 13.879 |
| 6/15/2017 13:34 | 18900 | 315 | 2.877 | 6.643 | 11.525 | 20.705 | 13.891 |
| 6/15/2017 13:35 | 18960 | 316 | 2.885 | 6.661 | 11.543 | 20.687 | 13.899 |
| 6/15/2017 13:36 | 19020 | 317 | 2.892 | 6.677 | 11.559 | 20.671 | 13.892 |
| 6/15/2017 13:37 | 19080 | 318 | 2.896 | 6.687 | 11.569 | 20.661 | 13.882 |
| 6/15/2017 13:38 | 19140 | 319 | 2.9 | 6.695 | 11.577 | 20.653 | 13.886 |
| 6/15/2017 13:39 | 19200 | 320 | 2.905 | 6.707 | 11.589 | 20.641 | 13.895 |
| 6/15/2017 13:40 | 19260 | 321 | 2.912 | 6.724 | 11.606 | 20.624 | 13.873 |
| 6/15/2017 13:41 | 19320 | 322 | 2.913 | 6.726 | 11.608 | 20.622 | 13.883 |
| 6/15/2017 13:42 | 19380 | 323 | 2.919 | 6.74 | 11.622 | 20.608 | 13.877 |
| 6/15/2017 13:43 | 19440 | 324 | 2.927 | 6.758 | 11.64 | 20.59 | 13.9 |
| 6/15/2017 13:44 | 19500 | 325 | 2.93 | 6.765 | 11.647 | 20.583 | 13.902 |
| 6/15/2017 13:45 | 19560 | 326 | 2.934 | 6.774 | 11.656 | 20.574 | 13.913 |
| 6/15/2017 13:46 | 19620 | 327 | 2.937 | 6.781 | 11.663 | 20.567 | 13.892 |
| 6/15/2017 13:47 | 19680 | 328 | 2.941 | 6.79 | 11.672 | 20.558 | 13.893 |
| 6/15/2017 13:48 | 19740 | 329 | 2.946 | 6.802 | 11.684 | 20.546 | 13.868 |
| 6/15/2017 13:49 | 19800 | 330 | 2.951 | 6.814 | 11.696 | 20.534 | 13.912 |
| 6/15/2017 13:50 | 19860 | 331 | 2.955 | 6.823 | 11.705 | 20.525 | 13.891 |
| 6/15/2017 13:51 | 19920 | 332 | 2.957 | 6.827 | 11.709 | 20.521 | 13.917 |
| 6/15/2017 13:52 | 19980 | 333 | 2.961 | 6.837 | 11.719 | 20.511 | 13.903 |
| 6/15/2017 13:53 | 20040 | 334 | 2.964 | 6.844 | 11.726 | 20.504 | 13.885 |
| 6/15/2017 13:54 | 20100 | 335 | 2.966 | 6.849 | 11.731 | 20.499 | 13.907 |
| 6/15/2017 13:55 | 20160 | 336 | 2.971 | 6.861 | 11.743 | 20.487 | 13.892 |
| 6/15/2017 13:56 | 20220 | 337 | 2.972 | 6.863 | 11.745 | 20.485 | 13.891 |
| 6/15/2017 13:57 | 20280 | 338 | 2.979 | 6.878 | 11.76 | 20.47 | 13.9 |
| 6/15/2017 13:58 | 20340 | 339 | 2.984 | 6.889 | 11.771 | 20.459 | 13.891 |
| 6/15/2017 13:59 | 20400 | 340 | 2.985 | 6.891 | 11.773 | 20.457 | 13.881 |
| 6/15/2017 14:00 | 20460 | 341 | 2.988 | 6.899 | 11.781 | 20.449 | 13.904 |
| 6/15/2017 14:01 | 20520 | 342 | 2.993 | 6.912 | 11.794 | 20.436 | 13.913 |
| 6/15/2017 14:02 | 20580 | 343 | 2.997 | 6.921 | 11.803 | 20.427 | 13.901 |
| 6/15/2017 14:03 | 20640 | 344 | 2.999 | 6.925 | 11.807 | 20.423 | 13.903 |
| 6/15/2017 14:04 | 20700 | 345 | 3.002 | 6.931 | 11.813 | 20.417 | 13.917 |
| 6/15/2017 14:05 | 20760 | 346 | 3.008 | 6.944 | 11.826 | 20.404 | 13.888 |
| 6/15/2017 14:06 | 20820 | 347 | 3.01 | 6.95 | 11.832 | 20.398 | 13.906 |
| 6/15/2017 14:07 | 20880 | 348 | 3.013 | 6.956 | 11.838 | 20.392 | 13.92 |
| 6/15/2017 14:08 | 20940 | 349 | 3.013 | 6.966 | 11.838 | 20.392 | 13.947 |
| 6/15/2017 14:09 | 21000 | 350 | 3.017 | 6.966 | 11.848 | 20.382 | 13.914 |

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| 6/15/2017 14:10 | 21060 | 351 | 3.022 | 6.977 | 11.859 | 20.371 | 13.907 |
| 6/15/2017 14:11 | 21120 | 352 | 3.025 | 6.984 | 11.866 | 20.364 | 13.925 |
| 6/15/2017 14:12 | 21180 | 353 | 3.03 | 6.995 | 11.877 | 20.353 | 13.91 |
| 6/15/2017 14:13 | 21240 | 354 | 3.03 | 6.997 | 11.879 | 20.351 | 13.934 |
| 6/15/2017 14:14 | 21300 | 355 | 3.03 | 6.996 | 11.878 | 20.352 | 13.947 |
| 6/15/2017 14:15 | 21360 | 356 | 3.034 | 7.006 | 11.888 | 20.342 | 13.908 |
| 6/15/2017 14:16 | 21420 | 357 | 3.035 | 7.009 | 11.891 | 20.339 | 13.929 |
| 6/15/2017 14:17 | 21480 | 358 | 3.039 | 7.017 | 11.899 | 20.331 | 13.909 |
| 6/15/2017 14:18 | 21540 | 359 | 3.042 | 7.023 | 11.905 | 20.325 | 13.925 |
| 6/15/2017 14:19 | 21600 | 360 | 3.044 | 7.028 | 11.91 | 20.32 | 13.91 |
| 6/15/2017 14:20 | 21660 | 361 | 3.045 | 7.03 | 11.912 | 20.318 | 13.923 |
| 6/15/2017 14:21 | 21720 | 362 | 3.048 | 7.037 | 11.919 | 20.311 | 13.917 |
| 6/15/2017 14:22 | 21780 | 363 | 3.05 | 7.043 | 11.925 | 20.305 | 13.93 |
| 6/15/2017 14:23 | 21840 | 364 | 3.053 | 7.049 | 11.931 | 20.299 | 13.933 |
| 6/15/2017 14:24 | 21900 | 365 | 3.053 | 7.05 | 11.932 | 20.298 | 13.92 |
| 6/15/2017 14:25 | 21960 | 366 | 3.055 | 7.053 | 11.935 | 20.295 | 13.929 |
| 6/15/2017 14:26 | 22020 | 367 | 3.057 | 7.059 | 11.941 | 20.289 | 13.921 |
| 6/15/2017 14:27 | 22080 | 368 | 3.059 | 7.064 | 11.946 | 20.284 | 13.912 |
| 6/15/2017 14:28 | 22140 | 369 | 3.064 | 7.074 | 11.956 | 20.274 | 13.912 |
| 6/15/2017 14:29 | 22200 | 370 | 3.062 | 7.07 | 11.952 | 20.278 | 13.908 |
| 6/15/2017 14:30 | 22260 | 371 | 3.063 | 7.071 | 11.953 | 20.277 | 13.898 |
| 6/15/2017 14:31 | 22320 | 372 | 3.063 | 7.072 | 11.954 | 20.276 | 13.888 |
| 6/15/2017 14:32 | 22380 | 373 | 3.067 | 7.081 | 11.963 | 20.267 | 13.914 |
| 6/15/2017 14:33 | 22440 | 374 | 3.067 | 7.082 | 11.964 | 20.266 | 13.914 |
| 6/15/2017 14:34 | 22500 | 375 | 3.067 | 7.081 | 11.963 | 20.267 | 13.889 |
| 6/15/2017 14:35 | 22560 | 376 | 3.068 | 7.083 | 11.965 | 20.265 | 13.934 |
| 6/15/2017 14:36 | 22620 | 377 | 3.067 | 7.083 | 11.965 | 20.265 | 13.912 |
| 6/15/2017 14:37 | 22680 | 378 | 3.069 | 7.086 | 11.968 | 20.262 | 13.929 |
| 6/15/2017 14:38 | 22740 | 379 | 3.07 | 7.087 | 11.969 | 20.261 | 13.918 |
| 6/15/2017 14:39 | 22800 | 380 | 3.075 | 7.1 | 11.982 | 20.248 | 13.928 |
| 6/15/2017 14:40 | 22860 | 381 | 3.072 | 7.094 | 11.976 | 20.254 | 13.923 |
| 6/15/2017 14:41 | 22920 | 382 | 3.076 | 7.102 | 11.984 | 20.246 | 13.898 |
| 6/15/2017 14:42 | 22980 | 383 | 3.072 | 7.093 | 11.975 | 20.255 | 13.917 |
| 6/15/2017 14:43 | 23040 | 384 | 3.074 | 7.098 | 11.98 | 20.25 | 13.881 |
| 6/15/2017 14:44 | 23100 | 385 | 3.075 | 7.101 | 11.983 | 20.247 | 13.911 |
| 6/15/2017 14:45 | 23160 | 386 | 3.078 | 7.108 | 11.99 | 20.24 | 13.896 |
| 6/15/2017 14:46 | 23220 | 387 | 3.077 | 7.105 | 11.987 | 20.243 | 13.908 |
| 6/15/2017 14:47 | 23280 | 388 | 3.076 | 7.103 | 11.985 | 20.245 | 13.906 |
| 6/15/2017 14:48 | 23340 | 389 | 3.081 | 7.113 | 11.995 | 20.235 | 13.884 |
| 6/15/2017 14:49 | 23400 | 390 | 3.081 | 7.113 | 11.995 | 20.235 | 13.92 |
| 6/15/2017 14:50 | 23460 | 391 | 3.078 | 7.108 | 11.99 | 20.24 | 13.915 |
| 6/15/2017 14:51 | 23520 | 392 | 3.082 | 7.115 | 11.997 | 20.233 | 13.92 |
| 6/15/2017 14:52 | 23580 | 393 | 3.082 | 7.115 | 11.997 | 20.233 | 13.89 |
| 6/15/2017 14:53 | 23640 | 394 | 3.08 | 7.112 | 11.994 | 20.236 | 13.917 |
| 6/15/2017 14:54 | 23700 | 395 | 3.081 | 7.115 | 11.997 | 20.233 | 13.905 |
| 6/15/2017 14:55 | 23760 | 396 | 3.084 | 7.12 | 12.002 | 20.228 | 13.901 |
| 6/15/2017 14:56 | 23820 | 397 | 3.084 | 7.12 | 12.002 | 20.228 | 13.905 |

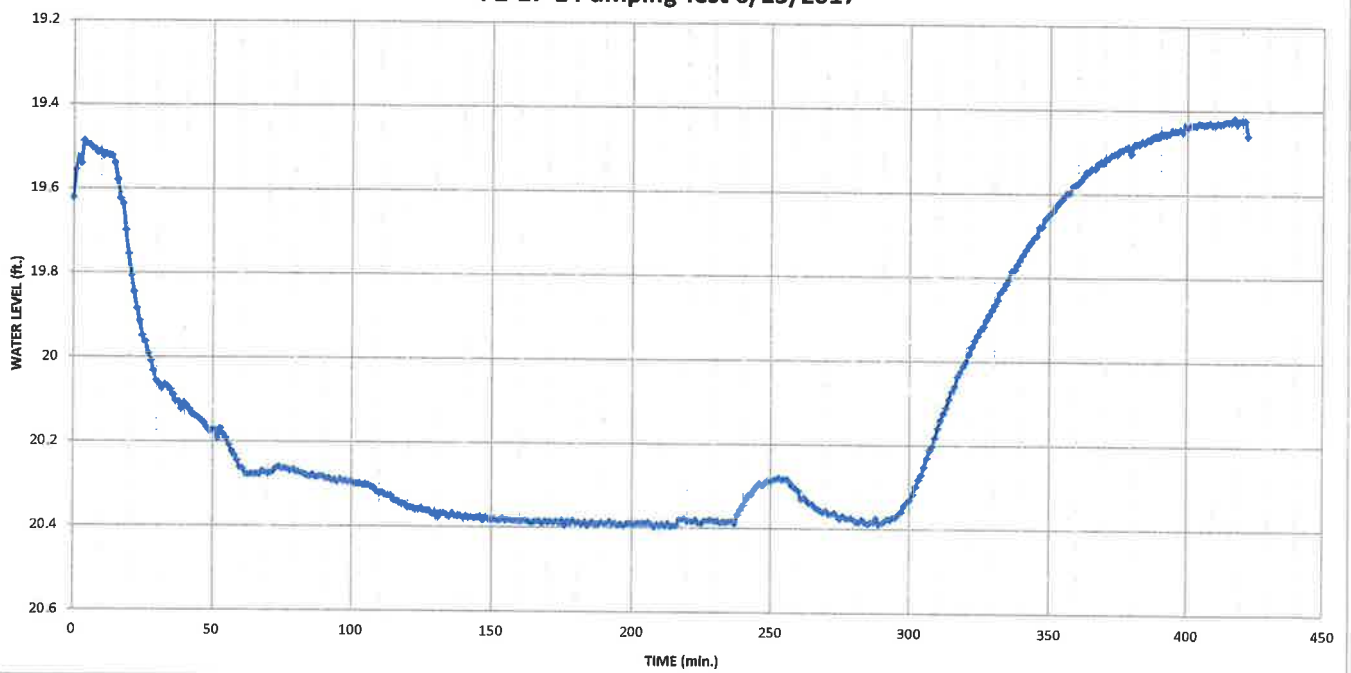
| | | | | | | | |
|-----------------|-------|-----|-------|-------|--------|--------|--------|
| 6/15/2017 14:57 | 23880 | 398 | 3.083 | 7.12 | 12.002 | 20.228 | 13.923 |
| 6/15/2017 14:58 | 23940 | 399 | 3.086 | 7.126 | 12.008 | 20.222 | 13.896 |
| 6/15/2017 14:59 | 24000 | 400 | 3.089 | 7.132 | 12.014 | 20.216 | 13.916 |
| 6/15/2017 15:00 | 24060 | 401 | 3.084 | 7.12 | 12.002 | 20.228 | 13.928 |
| 6/15/2017 15:01 | 24120 | 402 | 3.085 | 7.124 | 12.006 | 20.224 | 13.912 |
| 6/15/2017 15:02 | 24180 | 403 | 3.086 | 7.126 | 12.008 | 20.222 | 13.912 |
| 6/15/2017 15:03 | 24240 | 404 | 3.086 | 7.124 | 12.006 | 20.224 | 13.922 |
| 6/15/2017 15:04 | 24300 | 405 | 3.091 | 7.137 | 12.019 | 20.211 | 13.944 |
| 6/15/2017 15:05 | 24360 | 406 | 3.09 | 7.135 | 12.017 | 20.213 | 13.912 |
| 6/15/2017 15:06 | 24420 | 407 | 3.089 | 7.133 | 12.015 | 20.215 | 13.901 |
| 6/15/2017 15:07 | 24480 | 408 | 3.087 | 7.129 | 12.011 | 20.219 | 13.895 |
| 6/15/2017 15:08 | 24540 | 409 | 3.093 | 7.141 | 12.023 | 20.207 | 13.912 |
| 6/15/2017 15:09 | 24600 | 410 | 3.089 | 7.132 | 12.014 | 20.216 | 13.921 |
| 6/15/2017 15:10 | 24660 | 411 | 3.088 | 7.13 | 12.012 | 20.218 | 13.899 |
| 6/15/2017 15:11 | 24720 | 412 | 3.09 | 7.135 | 12.017 | 20.213 | 13.898 |
| 6/15/2017 15:12 | 24780 | 413 | 3.088 | 7.13 | 12.012 | 20.218 | 13.912 |
| 6/15/2017 15:13 | 24840 | 414 | 3.088 | 7.131 | 12.013 | 20.217 | 13.92 |
| 6/15/2017 15:14 | 24900 | 415 | 3.092 | 7.14 | 12.022 | 20.208 | 13.934 |
| 6/15/2017 15:15 | 24960 | 416 | 3.088 | 7.13 | 12.012 | 20.218 | 13.906 |
| 6/15/2017 15:16 | 25020 | 417 | 3.087 | 7.128 | 12.01 | 20.22 | 13.894 |
| 6/15/2017 15:17 | 25080 | 418 | 3.09 | 7.134 | 12.016 | 20.214 | 13.906 |
| 6/15/2017 15:18 | 25140 | 419 | 3.091 | 7.137 | 12.019 | 20.211 | 13.921 |
| 6/15/2017 15:19 | 25200 | 420 | 3.087 | 7.128 | 12.01 | 20.22 | 13.916 |
| 6/15/2017 15:20 | 25260 | 421 | 3.086 | 7.125 | 12.007 | 20.223 | 13.917 |
| 6/15/2017 15:21 | 25320 | 422 | 3.093 | 7.141 | 12.023 | 20.207 | 13.909 |

PUMPING TEST RECORD
Sterling Environmental Engineering, P.C.
24 Wade Road
Latham, New York 12110

| | | | |
|-----------------|-------------------------------|------------------------|-------------------------|
| Project | <u>Orange County Landfill</u> | Dates | <u>6/15/2017</u> |
| Location | <u>New Hampton, NY</u> | Pumping Well | <u>RW-17-1</u> |
| Well No. | <u>PZ-17-1</u> | Measuring Point | <u>Top of PVC Riser</u> |

| Date | Time | Water Level (Feet) | Pumping Rate (GPM) | Remarks |
|-----------|-------|-----------------------|-----------------------|---------------------|
| 6/15/2017 | 8:30 | 19.62 | 0.0 | Before Pumping Test |
| 6/15/2017 | 8:38 | --- | 3.0 | Pump Test Start |
| 6/15/2017 | 8:42 | 19.84 | 2.0 | |
| 6/15/2017 | 8:46 | --- | 0.5 | |
| 6/15/2017 | 8:50 | 20.2 | 0.5 | |
| 6/15/2017 | 8:55 | 20.33 | 0.5 | |
| 6/15/2017 | 9:03 | 20.43 | 0.5 | |
| 6/15/2017 | 9:15 | 20.5 | 0.5 | |
| 6/15/2017 | 9:37 | 20.6 | 0.5 | |
| 6/15/2017 | 10:14 | 20.65 | 0.5 | |
| 6/15/2017 | 10:35 | 20.72 | 0.5 | |
| 6/15/2017 | 11:13 | 20.74 | 0.5 | |
| 6/15/2017 | 11:45 | 20.75 | 0.5 | |
| 6/15/2017 | 12:01 | 20.74 | 0.5 | |
| 6/15/2017 | 12:21 | 20.73 | 0.5 | |
| 6/15/2017 | 12:45 | 20.69 | 0.5 | |
| 6/15/2017 | 13:05 | --- | 0.0 | |
| 6/15/2017 | 13:13 | 20.75 | 0.0 | |
| 6/15/2017 | 14:09 | 20.05 | 0.0 | |
| 6/15/2017 | 14:45 | 19.85 | 0.0 | |
| 6/15/2017 | 15:34 | 19.95 | 0.0 | Transducer Stop |
| | | | | |
| | | | | |
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PZ-17-1 Pumping Test 6/15/2017



Report Date: 6/16/2017 11:37
Report User Name: spauldingj
Report Computer N LAPTOP04
Application: WinSitu.exe
Application Version 5.6.25.0

Log File Properties

File Name PZ-17-2(Pump)_2017-06-15_15-22-46-851.wsl
Create Date 6/15/2017 15:22

Device Properties

| | | |
|------------------|------------------------|--------|
| Device | Level TROLL 700 | |
| Site | Orange County Landfill | |
| Device Name | | |
| Serial Number | 428981 | |
| Firmware Version | 3.03 | |
| Hardware Version | 5 | |
| Device Address | 1 | |
| Device Comm Cfg | 19200 | 8 Even |
| Used Memory | 3 | |
| Used Battery | 11 | |

1

Log Configuration

| | |
|----------------------|--|
| Log Name | PZ-17-2(Pump) |
| Created By | Spauldingj |
| Computer Name | LAPTOP04 |
| Application | WinSitu.exe |
| Application Version | 5.6.25.0 |
| Create Date | 6/15/2017 8:19:44 AM Eastern Daylight Time |
| Log Setup Time Zone | Eastern Daylight Time |
| Notes Size(bytes) | 4096 |
| Overwrite when full | Disabled |
| Scheduled Start Time | Manual Start |
| Scheduled Stop Time | No Stop Time |
| Type | Linear |
| Interval | Days: 0 hrs: 00 mins: 01 secs: 00 |

Level Reference Settings At Log Creation

| | |
|------------------------|-------|
| Level Measurement Mode | Depth |
| Specific Gravity | 0.999 |

Other Log Settings

Depth of Probe: 7.2851 (ft)

| | | | | | | | |
|----------------|------|----|-------|-------|--------|--------|--------|
| 6/15/2017 8:41 | 1320 | 22 | 3.053 | 7.049 | 11.931 | 20.299 | 13.898 |
| 6/15/2017 8:42 | 1380 | 23 | 3.021 | 6.975 | 11.857 | 20.373 | 13.873 |
| 6/15/2017 8:43 | 1440 | 24 | 2.984 | 6.89 | 11.772 | 20.458 | 13.828 |
| 6/15/2017 8:44 | 1500 | 25 | 2.957 | 6.827 | 11.709 | 20.521 | 13.857 |
| 6/15/2017 8:45 | 1560 | 26 | 2.934 | 6.775 | 11.657 | 20.573 | 13.86 |
| 6/15/2017 8:46 | 1620 | 27 | 2.916 | 6.733 | 11.615 | 20.615 | 13.848 |
| 6/15/2017 8:47 | 1680 | 28 | 2.903 | 6.702 | 11.584 | 20.646 | 13.845 |
| 6/15/2017 8:48 | 1740 | 29 | 2.89 | 6.673 | 11.555 | 20.675 | 13.84 |
| 6/15/2017 8:49 | 1800 | 30 | 2.882 | 6.654 | 11.536 | 20.694 | 13.841 |
| 6/15/2017 8:50 | 1860 | 31 | 2.877 | 6.642 | 11.524 | 20.706 | 13.81 |
| 6/15/2017 8:51 | 1920 | 32 | 2.867 | 6.621 | 11.503 | 20.727 | 13.826 |
| 6/15/2017 8:52 | 1980 | 33 | 2.864 | 6.613 | 11.495 | 20.735 | 13.835 |
| 6/15/2017 8:53 | 2040 | 34 | 2.856 | 6.594 | 11.476 | 20.754 | 13.832 |
| 6/15/2017 8:54 | 2100 | 35 | 2.853 | 6.588 | 11.47 | 20.76 | 13.826 |
| 6/15/2017 8:55 | 2160 | 36 | 2.851 | 6.583 | 11.465 | 20.765 | 13.862 |
| 6/15/2017 8:56 | 2220 | 37 | 2.846 | 6.57 | 11.452 | 20.778 | 13.813 |
| 6/15/2017 8:57 | 2280 | 38 | 2.844 | 6.567 | 11.449 | 20.781 | 13.806 |
| 6/15/2017 8:58 | 2340 | 39 | 2.842 | 6.562 | 11.444 | 20.786 | 13.846 |
| 6/15/2017 8:59 | 2400 | 40 | 2.839 | 6.554 | 11.436 | 20.794 | 13.817 |
| 6/15/2017 9:00 | 2460 | 41 | 2.838 | 6.552 | 11.434 | 20.796 | 13.825 |
| 6/15/2017 9:01 | 2520 | 42 | 2.835 | 6.547 | 11.429 | 20.801 | 13.837 |
| 6/15/2017 9:02 | 2580 | 43 | 2.835 | 6.547 | 11.429 | 20.801 | 13.837 |
| 6/15/2017 9:03 | 2640 | 44 | 2.832 | 6.539 | 11.421 | 20.809 | 13.834 |
| 6/15/2017 9:04 | 2700 | 45 | 2.83 | 6.534 | 11.416 | 20.814 | 13.833 |
| 6/15/2017 9:05 | 2760 | 46 | 2.829 | 6.533 | 11.415 | 20.815 | 13.871 |
| 6/15/2017 9:06 | 2820 | 47 | 2.829 | 6.532 | 11.414 | 20.816 | 13.874 |
| 6/15/2017 9:07 | 2880 | 48 | 2.825 | 6.524 | 11.406 | 20.824 | 13.871 |
| 6/15/2017 9:08 | 2940 | 49 | 2.825 | 6.522 | 11.404 | 20.826 | 13.87 |
| 6/15/2017 9:09 | 3000 | 50 | 2.823 | 6.519 | 11.401 | 20.829 | 13.84 |
| 6/15/2017 9:10 | 3060 | 51 | 2.822 | 6.515 | 11.397 | 20.833 | 13.877 |
| 6/15/2017 9:11 | 3120 | 52 | 2.821 | 6.513 | 11.395 | 20.835 | 13.825 |
| 6/15/2017 9:12 | 3180 | 53 | 2.819 | 6.51 | 11.392 | 20.838 | 13.821 |
| 6/15/2017 9:13 | 3240 | 54 | 2.818 | 6.507 | 11.389 | 20.841 | 13.843 |
| 6/15/2017 9:14 | 3300 | 55 | 2.817 | 6.503 | 11.385 | 20.845 | 13.84 |
| 6/15/2017 9:15 | 3360 | 56 | 2.813 | 6.495 | 11.377 | 20.853 | 13.829 |
| 6/15/2017 9:16 | 3420 | 57 | 2.815 | 6.499 | 11.381 | 20.849 | 13.854 |
| 6/15/2017 9:17 | 3480 | 58 | 2.817 | 6.505 | 11.387 | 20.843 | 13.832 |
| 6/15/2017 9:18 | 3540 | 59 | 2.817 | 6.505 | 11.387 | 20.843 | 13.848 |
| 6/15/2017 9:19 | 3600 | 60 | 2.814 | 6.498 | 11.38 | 20.85 | 13.857 |
| 6/15/2017 9:20 | 3660 | 61 | 2.814 | 6.496 | 11.378 | 20.852 | 13.879 |
| 6/15/2017 9:21 | 3720 | 62 | 2.814 | 6.497 | 11.379 | 20.851 | 13.841 |
| 6/15/2017 9:22 | 3780 | 63 | 2.81 | 6.488 | 11.37 | 20.86 | 13.848 |
| 6/15/2017 9:23 | 3840 | 64 | 2.81 | 6.488 | 11.37 | 20.86 | 13.84 |
| 6/15/2017 9:24 | 3900 | 65 | 2.81 | 6.488 | 11.37 | 20.86 | 13.844 |
| 6/15/2017 9:25 | 3960 | 66 | 2.809 | 6.486 | 11.368 | 20.862 | 13.869 |
| 6/15/2017 9:26 | 4020 | 67 | 2.808 | 6.484 | 11.366 | 20.864 | 13.832 |
| 6/15/2017 9:27 | 4080 | 68 | 2.807 | 6.482 | 11.364 | 20.866 | 13.835 |

| | | | | | | | |
|-----------------|------|-----|-------|-------|--------|--------|--------|
| 6/15/2017 10:15 | 6960 | 116 | 2.793 | 6.45 | 11.332 | 20.898 | 13.863 |
| 6/15/2017 10:16 | 7020 | 117 | 2.794 | 6.45 | 11.332 | 20.898 | 13.856 |
| 6/15/2017 10:17 | 7080 | 118 | 2.791 | 6.445 | 11.327 | 20.903 | 13.867 |
| 6/15/2017 10:18 | 7140 | 119 | 2.794 | 6.452 | 11.334 | 20.896 | 13.872 |
| 6/15/2017 10:19 | 7200 | 120 | 2.795 | 6.453 | 11.335 | 20.895 | 13.863 |
| 6/15/2017 10:20 | 7260 | 121 | 2.793 | 6.45 | 11.332 | 20.898 | 13.864 |
| 6/15/2017 10:21 | 7320 | 122 | 2.792 | 6.447 | 11.329 | 20.901 | 13.852 |
| 6/15/2017 10:22 | 7380 | 123 | 2.792 | 6.446 | 11.328 | 20.902 | 13.872 |
| 6/15/2017 10:23 | 7440 | 124 | 2.792 | 6.446 | 11.328 | 20.902 | 13.854 |
| 6/15/2017 10:24 | 7500 | 125 | 2.793 | 6.448 | 11.33 | 20.9 | 13.819 |
| 6/15/2017 10:25 | 7560 | 126 | 2.793 | 6.448 | 11.33 | 20.9 | 13.838 |
| 6/15/2017 10:26 | 7620 | 127 | 2.794 | 6.451 | 11.333 | 20.897 | 13.854 |
| 6/15/2017 10:27 | 7680 | 128 | 2.794 | 6.451 | 11.333 | 20.897 | 13.844 |
| 6/15/2017 10:28 | 7740 | 129 | 2.793 | 6.448 | 11.33 | 20.9 | 13.857 |
| 6/15/2017 10:29 | 7800 | 130 | 2.791 | 6.445 | 11.327 | 20.903 | 13.851 |
| 6/15/2017 10:30 | 7860 | 131 | 2.792 | 6.446 | 11.328 | 20.902 | 13.829 |
| 6/15/2017 10:31 | 7920 | 132 | 2.791 | 6.445 | 11.327 | 20.903 | 13.833 |
| 6/15/2017 10:32 | 7980 | 133 | 2.791 | 6.444 | 11.326 | 20.904 | 13.884 |
| 6/15/2017 10:33 | 8040 | 134 | 2.79 | 6.443 | 11.325 | 20.905 | 13.842 |
| 6/15/2017 10:34 | 8100 | 135 | 2.792 | 6.447 | 11.329 | 20.901 | 13.853 |
| 6/15/2017 10:35 | 8160 | 136 | 2.794 | 6.45 | 11.332 | 20.898 | 13.865 |
| 6/15/2017 10:36 | 8220 | 137 | 2.786 | 6.434 | 11.316 | 20.914 | 13.87 |
| 6/15/2017 10:37 | 8280 | 138 | 2.791 | 6.445 | 11.327 | 20.903 | 13.876 |
| 6/15/2017 10:38 | 8340 | 139 | 2.789 | 6.439 | 11.321 | 20.909 | 13.881 |
| 6/15/2017 10:39 | 8400 | 140 | 2.789 | 6.439 | 11.321 | 20.909 | 13.863 |
| 6/15/2017 10:40 | 8460 | 141 | 2.79 | 6.443 | 11.325 | 20.905 | 13.87 |
| 6/15/2017 10:41 | 8520 | 142 | 2.791 | 6.444 | 11.326 | 20.904 | 13.854 |
| 6/15/2017 10:42 | 8580 | 143 | 2.789 | 6.44 | 11.322 | 20.908 | 13.868 |
| 6/15/2017 10:43 | 8640 | 144 | 2.791 | 6.445 | 11.327 | 20.903 | 13.835 |
| 6/15/2017 10:44 | 8700 | 145 | 2.788 | 6.438 | 11.32 | 20.91 | 13.832 |
| 6/15/2017 10:45 | 8760 | 146 | 2.788 | 6.438 | 11.32 | 20.91 | 13.824 |
| 6/15/2017 10:46 | 8820 | 147 | 2.787 | 6.435 | 11.317 | 20.913 | 13.868 |
| 6/15/2017 10:47 | 8880 | 148 | 2.791 | 6.444 | 11.326 | 20.904 | 13.868 |
| 6/15/2017 10:48 | 8940 | 149 | 2.789 | 6.439 | 11.321 | 20.909 | 13.847 |
| 6/15/2017 10:49 | 9000 | 150 | 2.789 | 6.441 | 11.323 | 20.907 | 13.856 |
| 6/15/2017 10:50 | 9060 | 151 | 2.789 | 6.439 | 11.321 | 20.909 | 13.846 |
| 6/15/2017 10:51 | 9120 | 152 | 2.789 | 6.439 | 11.321 | 20.909 | 13.853 |
| 6/15/2017 10:52 | 9180 | 153 | 2.787 | 6.435 | 11.317 | 20.913 | 13.848 |
| 6/15/2017 10:53 | 9240 | 154 | 2.787 | 6.436 | 11.318 | 20.912 | 13.854 |
| 6/15/2017 10:54 | 9300 | 155 | 2.787 | 6.435 | 11.317 | 20.913 | 13.834 |
| 6/15/2017 10:55 | 9360 | 156 | 2.787 | 6.435 | 11.317 | 20.913 | 13.856 |
| 6/15/2017 10:56 | 9420 | 157 | 2.788 | 6.437 | 11.319 | 20.911 | 13.842 |
| 6/15/2017 10:57 | 9480 | 158 | 2.79 | 6.441 | 11.323 | 20.907 | 13.838 |
| 6/15/2017 10:58 | 9540 | 159 | 2.787 | 6.435 | 11.317 | 20.913 | 13.86 |
| 6/15/2017 10:59 | 9600 | 160 | 2.789 | 6.439 | 11.321 | 20.909 | 13.844 |
| 6/15/2017 11:00 | 9660 | 161 | 2.787 | 6.434 | 11.316 | 20.914 | 13.879 |
| 6/15/2017 11:01 | 9720 | 162 | 2.785 | 6.431 | 11.313 | 20.917 | 13.871 |

| | | | | | | | |
|-----------------|-------|-----|-------|-------|--------|--------|--------|
| 6/15/2017 11:49 | 12600 | 210 | 2.784 | 6.427 | 11.309 | 20.921 | 13.886 |
| 6/15/2017 11:50 | 12660 | 211 | 2.783 | 6.427 | 11.309 | 20.921 | 13.871 |
| 6/15/2017 11:51 | 12720 | 212 | 2.783 | 6.426 | 11.308 | 20.922 | 13.865 |
| 6/15/2017 11:52 | 12780 | 213 | 2.786 | 6.432 | 11.314 | 20.916 | 13.909 |
| 6/15/2017 11:53 | 12840 | 214 | 2.782 | 6.423 | 11.305 | 20.925 | 13.879 |
| 6/15/2017 11:54 | 12900 | 215 | 2.783 | 6.427 | 11.309 | 20.921 | 13.903 |
| 6/15/2017 11:55 | 12960 | 216 | 2.781 | 6.422 | 11.304 | 20.926 | 13.911 |
| 6/15/2017 11:56 | 13020 | 217 | 2.782 | 6.425 | 11.307 | 20.923 | 13.89 |
| 6/15/2017 11:57 | 13080 | 218 | 2.782 | 6.424 | 11.306 | 20.924 | 13.889 |
| 6/15/2017 11:58 | 13140 | 219 | 2.781 | 6.421 | 11.303 | 20.927 | 13.909 |
| 6/15/2017 11:59 | 13200 | 220 | 2.779 | 6.418 | 11.3 | 20.93 | 13.895 |
| 6/15/2017 12:00 | 13260 | 221 | 2.784 | 6.428 | 11.31 | 20.92 | 13.9 |
| 6/15/2017 12:01 | 13320 | 222 | 2.781 | 6.421 | 11.303 | 20.927 | 13.892 |
| 6/15/2017 12:02 | 13380 | 223 | 2.781 | 6.421 | 11.303 | 20.927 | 13.923 |
| 6/15/2017 12:03 | 13440 | 224 | 2.782 | 6.425 | 11.307 | 20.923 | 13.877 |
| 6/15/2017 12:04 | 13500 | 225 | 2.779 | 6.418 | 11.3 | 20.93 | 13.875 |
| 6/15/2017 12:05 | 13560 | 226 | 2.781 | 6.421 | 11.303 | 20.927 | 13.923 |
| 6/15/2017 12:06 | 13620 | 227 | 2.785 | 6.43 | 11.312 | 20.918 | 13.896 |
| 6/15/2017 12:07 | 13680 | 228 | 2.782 | 6.423 | 11.305 | 20.925 | 13.868 |
| 6/15/2017 12:08 | 13740 | 229 | 2.78 | 6.419 | 11.301 | 20.929 | 13.899 |
| 6/15/2017 12:09 | 13800 | 230 | 2.779 | 6.418 | 11.3 | 20.93 | 13.897 |
| 6/15/2017 12:10 | 13860 | 231 | 2.783 | 6.426 | 11.308 | 20.922 | 13.861 |
| 6/15/2017 12:11 | 13920 | 232 | 2.781 | 6.421 | 11.303 | 20.927 | 13.886 |
| 6/15/2017 12:12 | 13980 | 233 | 2.778 | 6.414 | 11.296 | 20.934 | 13.881 |
| 6/15/2017 12:13 | 14040 | 234 | 2.782 | 6.424 | 11.306 | 20.924 | 13.854 |
| 6/15/2017 12:14 | 14100 | 235 | 2.783 | 6.426 | 11.308 | 20.922 | 13.886 |
| 6/15/2017 12:15 | 14160 | 236 | 2.78 | 6.418 | 11.3 | 20.93 | 13.865 |
| 6/15/2017 12:16 | 14220 | 237 | 2.78 | 6.419 | 11.301 | 20.929 | 13.873 |
| 6/15/2017 12:17 | 14280 | 238 | 2.782 | 6.423 | 11.305 | 20.925 | 13.882 |
| 6/15/2017 12:18 | 14340 | 239 | 2.78 | 6.42 | 11.302 | 20.928 | 13.878 |
| 6/15/2017 12:19 | 14400 | 240 | 2.779 | 6.418 | 11.3 | 20.93 | 13.874 |
| 6/15/2017 12:20 | 14460 | 241 | 2.78 | 6.418 | 11.3 | 20.93 | 13.868 |
| 6/15/2017 12:21 | 14520 | 242 | 2.778 | 6.415 | 11.297 | 20.933 | 13.871 |
| 6/15/2017 12:22 | 14580 | 243 | 2.781 | 6.42 | 11.302 | 20.928 | 13.872 |
| 6/15/2017 12:23 | 14640 | 244 | 2.778 | 6.415 | 11.297 | 20.933 | 13.862 |
| 6/15/2017 12:24 | 14700 | 245 | 2.78 | 6.418 | 11.3 | 20.93 | 13.874 |
| 6/15/2017 12:25 | 14760 | 246 | 2.782 | 6.423 | 11.305 | 20.925 | 13.872 |
| 6/15/2017 12:26 | 14820 | 247 | 2.779 | 6.416 | 11.298 | 20.932 | 13.873 |
| 6/15/2017 12:27 | 14880 | 248 | 2.778 | 6.415 | 11.297 | 20.933 | 13.903 |
| 6/15/2017 12:28 | 14940 | 249 | 2.78 | 6.418 | 11.3 | 20.93 | 13.876 |
| 6/15/2017 12:29 | 15000 | 250 | 2.779 | 6.416 | 11.298 | 20.932 | 13.846 |
| 6/15/2017 12:30 | 15060 | 251 | 2.777 | 6.412 | 11.294 | 20.936 | 13.848 |
| 6/15/2017 12:31 | 15120 | 252 | 2.78 | 6.419 | 11.301 | 20.929 | 13.839 |
| 6/15/2017 12:32 | 15180 | 253 | 2.778 | 6.415 | 11.297 | 20.933 | 13.836 |
| 6/15/2017 12:33 | 15240 | 254 | 2.779 | 6.416 | 11.298 | 20.932 | 13.84 |
| 6/15/2017 12:34 | 15300 | 255 | 2.78 | 6.418 | 11.3 | 20.93 | 13.826 |
| 6/15/2017 12:35 | 15360 | 256 | 2.778 | 6.415 | 11.297 | 20.933 | 13.847 |

| | | | | | | | |
|-----------------|-------|-----|-------|-------|--------|--------|--------|
| 6/15/2017 13:23 | 18240 | 304 | 2.806 | 6.479 | 11.361 | 20.869 | 13.857 |
| 6/15/2017 13:24 | 18300 | 305 | 2.813 | 6.495 | 11.377 | 20.853 | 13.83 |
| 6/15/2017 13:25 | 18360 | 306 | 2.818 | 6.506 | 11.388 | 20.842 | 13.839 |
| 6/15/2017 13:26 | 18420 | 307 | 2.827 | 6.528 | 11.41 | 20.82 | 13.854 |
| 6/15/2017 13:27 | 18480 | 308 | 2.834 | 6.543 | 11.425 | 20.805 | 13.826 |
| 6/15/2017 13:28 | 18540 | 309 | 2.838 | 6.554 | 11.436 | 20.794 | 13.857 |
| 6/15/2017 13:29 | 18600 | 310 | 2.847 | 6.574 | 11.456 | 20.774 | 13.841 |
| 6/15/2017 13:30 | 18660 | 311 | 2.856 | 6.594 | 11.476 | 20.754 | 13.873 |
| 6/15/2017 13:31 | 18720 | 312 | 2.858 | 6.6 | 11.482 | 20.748 | 13.855 |
| 6/15/2017 13:32 | 18780 | 313 | 2.865 | 6.615 | 11.497 | 20.733 | 13.858 |
| 6/15/2017 13:33 | 18840 | 314 | 2.873 | 6.633 | 11.515 | 20.715 | 13.879 |
| 6/15/2017 13:34 | 18900 | 315 | 2.877 | 6.643 | 11.525 | 20.705 | 13.891 |
| 6/15/2017 13:35 | 18960 | 316 | 2.885 | 6.661 | 11.543 | 20.687 | 13.899 |
| 6/15/2017 13:36 | 19020 | 317 | 2.892 | 6.677 | 11.559 | 20.671 | 13.892 |
| 6/15/2017 13:37 | 19080 | 318 | 2.896 | 6.687 | 11.569 | 20.661 | 13.882 |
| 6/15/2017 13:38 | 19140 | 319 | 2.9 | 6.695 | 11.577 | 20.653 | 13.886 |
| 6/15/2017 13:39 | 19200 | 320 | 2.905 | 6.707 | 11.589 | 20.641 | 13.895 |
| 6/15/2017 13:40 | 19260 | 321 | 2.912 | 6.724 | 11.606 | 20.624 | 13.873 |
| 6/15/2017 13:41 | 19320 | 322 | 2.913 | 6.726 | 11.608 | 20.622 | 13.883 |
| 6/15/2017 13:42 | 19380 | 323 | 2.919 | 6.74 | 11.622 | 20.608 | 13.877 |
| 6/15/2017 13:43 | 19440 | 324 | 2.927 | 6.758 | 11.64 | 20.59 | 13.9 |
| 6/15/2017 13:44 | 19500 | 325 | 2.93 | 6.765 | 11.647 | 20.583 | 13.902 |
| 6/15/2017 13:45 | 19560 | 326 | 2.934 | 6.774 | 11.656 | 20.574 | 13.913 |
| 6/15/2017 13:46 | 19620 | 327 | 2.937 | 6.781 | 11.663 | 20.567 | 13.892 |
| 6/15/2017 13:47 | 19680 | 328 | 2.941 | 6.79 | 11.672 | 20.558 | 13.893 |
| 6/15/2017 13:48 | 19740 | 329 | 2.946 | 6.802 | 11.684 | 20.546 | 13.868 |
| 6/15/2017 13:49 | 19800 | 330 | 2.951 | 6.814 | 11.696 | 20.534 | 13.912 |
| 6/15/2017 13:50 | 19860 | 331 | 2.955 | 6.823 | 11.705 | 20.525 | 13.891 |
| 6/15/2017 13:51 | 19920 | 332 | 2.957 | 6.827 | 11.709 | 20.521 | 13.917 |
| 6/15/2017 13:52 | 19980 | 333 | 2.961 | 6.837 | 11.719 | 20.511 | 13.903 |
| 6/15/2017 13:53 | 20040 | 334 | 2.964 | 6.844 | 11.726 | 20.504 | 13.885 |
| 6/15/2017 13:54 | 20100 | 335 | 2.966 | 6.849 | 11.731 | 20.499 | 13.907 |
| 6/15/2017 13:55 | 20160 | 336 | 2.971 | 6.861 | 11.743 | 20.487 | 13.892 |
| 6/15/2017 13:56 | 20220 | 337 | 2.972 | 6.863 | 11.745 | 20.485 | 13.891 |
| 6/15/2017 13:57 | 20280 | 338 | 2.979 | 6.878 | 11.76 | 20.47 | 13.9 |
| 6/15/2017 13:58 | 20340 | 339 | 2.984 | 6.889 | 11.771 | 20.459 | 13.891 |
| 6/15/2017 13:59 | 20400 | 340 | 2.985 | 6.891 | 11.773 | 20.457 | 13.881 |
| 6/15/2017 14:00 | 20460 | 341 | 2.988 | 6.899 | 11.781 | 20.449 | 13.904 |
| 6/15/2017 14:01 | 20520 | 342 | 2.993 | 6.912 | 11.794 | 20.436 | 13.913 |
| 6/15/2017 14:02 | 20580 | 343 | 2.997 | 6.921 | 11.803 | 20.427 | 13.901 |
| 6/15/2017 14:03 | 20640 | 344 | 2.999 | 6.925 | 11.807 | 20.423 | 13.903 |
| 6/15/2017 14:04 | 20700 | 345 | 3.002 | 6.931 | 11.813 | 20.417 | 13.917 |
| 6/15/2017 14:05 | 20760 | 346 | 3.008 | 6.944 | 11.826 | 20.404 | 13.888 |
| 6/15/2017 14:06 | 20820 | 347 | 3.01 | 6.95 | 11.832 | 20.398 | 13.906 |
| 6/15/2017 14:07 | 20880 | 348 | 3.013 | 6.956 | 11.838 | 20.392 | 13.92 |
| 6/15/2017 14:08 | 20940 | 349 | 3.013 | 6.956 | 11.838 | 20.392 | 13.947 |
| 6/15/2017 14:09 | 21000 | 350 | 3.017 | 6.965 | 11.848 | 20.382 | 13.914 |

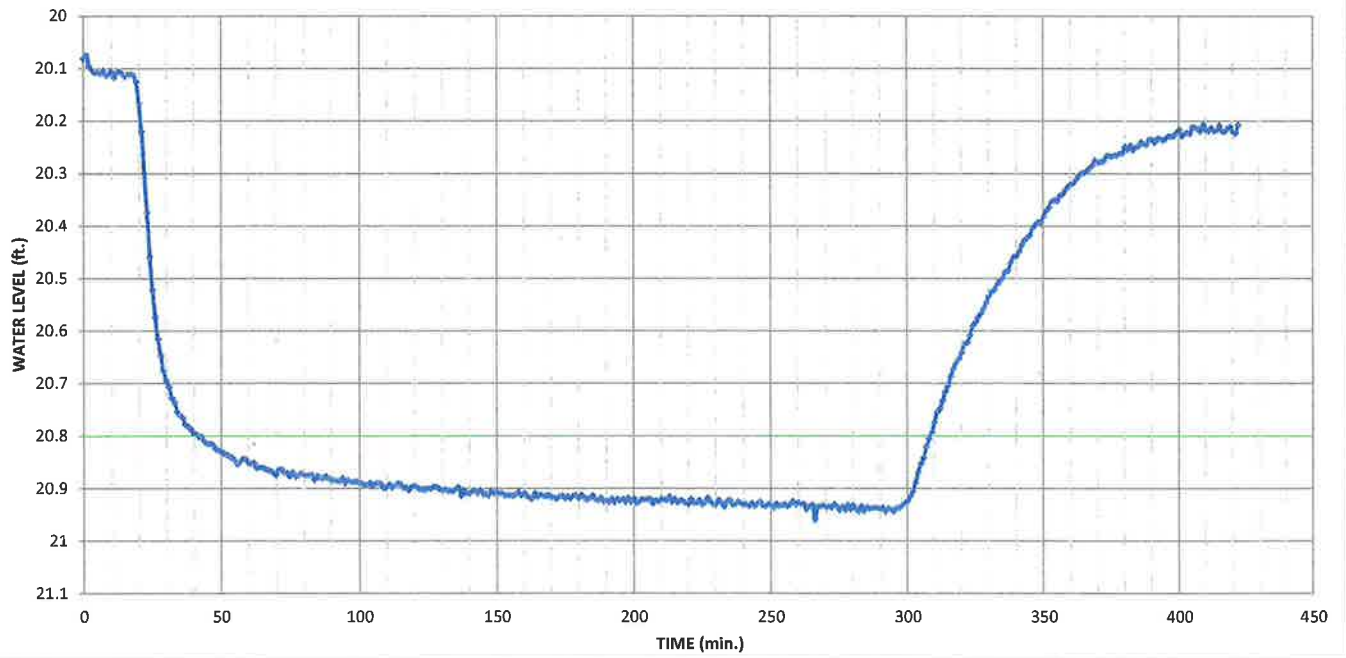
| | | | | | | | |
|-----------------|-------|-----|-------|-------|--------|--------|--------|
| 6/15/2017 14:57 | 23880 | 398 | 3.083 | 7.12 | 12.002 | 20.228 | 13.923 |
| 6/15/2017 14:58 | 23940 | 399 | 3.086 | 7.126 | 12.008 | 20.222 | 13.896 |
| 6/15/2017 14:59 | 24000 | 400 | 3.089 | 7.132 | 12.014 | 20.216 | 13.916 |
| 6/15/2017 15:00 | 24060 | 401 | 3.084 | 7.12 | 12.002 | 20.228 | 13.928 |
| 6/15/2017 15:01 | 24120 | 402 | 3.085 | 7.124 | 12.006 | 20.224 | 13.912 |
| 6/15/2017 15:02 | 24180 | 403 | 3.086 | 7.126 | 12.008 | 20.222 | 13.912 |
| 6/15/2017 15:03 | 24240 | 404 | 3.086 | 7.124 | 12.006 | 20.224 | 13.922 |
| 6/15/2017 15:04 | 24300 | 405 | 3.091 | 7.137 | 12.019 | 20.211 | 13.944 |
| 6/15/2017 15:05 | 24360 | 406 | 3.09 | 7.135 | 12.017 | 20.213 | 13.912 |
| 6/15/2017 15:06 | 24420 | 407 | 3.089 | 7.133 | 12.015 | 20.215 | 13.901 |
| 6/15/2017 15:07 | 24480 | 408 | 3.087 | 7.129 | 12.011 | 20.219 | 13.895 |
| 6/15/2017 15:08 | 24540 | 409 | 3.093 | 7.141 | 12.023 | 20.207 | 13.912 |
| 6/15/2017 15:09 | 24600 | 410 | 3.089 | 7.132 | 12.014 | 20.216 | 13.921 |
| 6/15/2017 15:10 | 24660 | 411 | 3.088 | 7.13 | 12.012 | 20.218 | 13.899 |
| 6/15/2017 15:11 | 24720 | 412 | 3.09 | 7.135 | 12.017 | 20.213 | 13.898 |
| 6/15/2017 15:12 | 24780 | 413 | 3.088 | 7.13 | 12.012 | 20.218 | 13.912 |
| 6/15/2017 15:13 | 24840 | 414 | 3.088 | 7.131 | 12.013 | 20.217 | 13.92 |
| 6/15/2017 15:14 | 24900 | 415 | 3.092 | 7.14 | 12.022 | 20.208 | 13.934 |
| 6/15/2017 15:15 | 24960 | 416 | 3.088 | 7.13 | 12.012 | 20.218 | 13.906 |
| 6/15/2017 15:16 | 25020 | 417 | 3.087 | 7.128 | 12.01 | 20.22 | 13.894 |
| 6/15/2017 15:17 | 25080 | 418 | 3.09 | 7.134 | 12.016 | 20.214 | 13.906 |
| 6/15/2017 15:18 | 25140 | 419 | 3.091 | 7.137 | 12.019 | 20.211 | 13.921 |
| 6/15/2017 15:19 | 25200 | 420 | 3.087 | 7.128 | 12.01 | 20.22 | 13.916 |
| 6/15/2017 15:20 | 25260 | 421 | 3.086 | 7.125 | 12.007 | 20.223 | 13.917 |
| 6/15/2017 15:21 | 25320 | 422 | 3.093 | 7.141 | 12.023 | 20.207 | 13.909 |

PUMPING TEST RECORD
Sterling Environmental Engineering, P.C.
24 Wade Road
Latham, New York 12110

| | | | |
|-----------------|-------------------------------|------------------------|-------------------------|
| Project | <u>Orange County Landfill</u> | Dates | <u>6/15/2017</u> |
| Location | <u>New Hampton, NY</u> | Pumping Well | <u>RW-17-1</u> |
| Well No. | <u>PZ-17-2</u> | Measuring Point | <u>Top of PVC Riser</u> |

| Date | Time | Water Level (Feet) | Pumping Rate (GPM) | Remarks |
|-----------|-------|-----------------------|-----------------------|---------------------|
| 6/15/2017 | 8:30 | 20.08 | 0.0 | Before Pumping Test |
| 6/15/2017 | 8:38 | --- | 3.0 | Pump Test Start |
| 6/15/2017 | 8:42 | 20.4 | 2.0 | |
| 6/15/2017 | 8:46 | --- | 0.5 | |
| 6/15/2017 | 8:50 | 20.69 | 0.5 | |
| 6/15/2017 | 8:55 | 20.76 | 0.5 | |
| 6/15/2017 | 9:03 | 20.79 | 0.5 | |
| 6/15/2017 | 9:15 | 20.84 | 0.5 | |
| 6/15/2017 | 9:37 | 20.88 | 0.5 | |
| 6/15/2017 | 10:14 | 20.9 | 0.5 | |
| 6/15/2017 | 10:35 | 20.9 | 0.5 | |
| 6/15/2017 | 11:11 | 20.9 | 0.5 | |
| 6/15/2017 | 11:44 | 20.91 | 0.5 | |
| 6/15/2017 | 12:00 | 20.91 | 0.5 | |
| 6/15/2017 | 12:22 | 20.91 | 0.5 | |
| 6/15/2017 | 12:45 | 20.92 | 0.5 | |
| 6/15/2017 | 13:05 | --- | 0.0 | |
| 6/15/2017 | 13:13 | 20.91 | 0.0 | |
| 6/15/2017 | 14:08 | 20.36 | 0.0 | |
| 6/15/2017 | 14:43 | 20.21 | 0.0 | |
| 6/15/2017 | 15:32 | 20.28 | 0.0 | Transducer Stop |
| | | | | |
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PZ-17-2 Pumping Test 6/15/2017



Report Date: 6/16/2017 11:37
Report User Name: spauldingj
Report Computer: NLAPTOP04
Application: WinSitu.exe
Application Version: 5.6.25.0

Log File Properties

File Name: PZ-17-2(Pump)_2017-06-15_15-22-46-851.wsl
Create Date: 6/15/2017 15:22

Device Properties

Device: Level TROLL 700
Site: Orange County Landfill
Device Name:
Serial Number: 428981
Firmware Version: 3.03
Hardware Version: 5
Device Address: 1
Device Comm Cfg: 19200
Used Memory: 3
Used Battery: 11

8 Even

1

Log Configuration

Log Name: PZ-17-2(Pump)
Created By: SpauldingJ
Computer Name: LAPTOP04
Application: WinSitu.exe
Application Version: 5.6.25.0
Create Date: 6/15/2017 8:19:44 AM Eastern Daylight Time
Log Setup Time Zone: Eastern Daylight Time
Notes Size(bytes): 4096
Overwrite when full: Disabled
Scheduled Start Time: Manual Start
Scheduled Stop Time: No Stop Time
Type: Linear
Interval: Days: 0 hrs: 00 mins: 01 secs: 00

Level Reference Settings At Log Creation

Level Measurement Mode: Depth
Specific Gravity: 0.999

Other Log Settings

Depth of Probe: 7.2851 (ft)

Head Pressure: 3.15513 (PSI)
Temperature: 13.8844 (C)

Log Notes:

Date and Time Note
6/15/2017 8:19 Used Battery: 11% Used Memory: 4% User Name: SpauldingJ
6/15/2017 8:19 Manual Start Command
6/15/2017 15:22 Suspend Command
6/15/2017 15:22 Log Download - Used Battery: 11% Used Memory: 4% User Name: SpauldingJ

Log Data:
Record Count 423

Sensors 1

428981 Pressure/Temp 15 PSIG (11m/35ft)

Time Zone: Eastern Daylight Time

| Sensor: Pres(G) 35ft SN#: 428981 | | | | Sensor: Pres(G) 35ft SN#: 428981 | | | | Sensor: Pres(G) 35ft SN#: 428981 | | | |
|-------------------------------------|-------------------------|---------|-------|-------------------------------------|--------|--------|--------|-------------------------------------|--|--|--|
| Pressure (PSI) | | | | Depth (ft) | | | | Water Level (ft) | | | |
| Calculations | | | | Temperature (C) | | | | | | | |
| Date and Time | Elapsed Time Seconds | Minutes | | | | | | | | | |
| 6/15/2017 8:19 | 0 | 0 | 3.148 | 7.268 | 12.15 | 20.08 | 13.907 | | | | |
| 6/15/2017 8:20 | 60 | 1 | 3.151 | 7.275 | 12.157 | 20.073 | 13.888 | | | | |
| 6/15/2017 8:21 | 120 | 2 | 3.142 | 7.254 | 12.136 | 20.094 | 13.916 | | | | |
| 6/15/2017 8:22 | 180 | 3 | 3.138 | 7.246 | 12.128 | 20.102 | 13.872 | | | | |
| 6/15/2017 8:23 | 240 | 4 | 3.136 | 7.241 | 12.123 | 20.107 | 13.87 | | | | |
| 6/15/2017 8:24 | 300 | 5 | 3.137 | 7.242 | 12.124 | 20.106 | 13.851 | | | | |
| 6/15/2017 8:25 | 360 | 6 | 3.135 | 7.239 | 12.121 | 20.109 | 13.869 | | | | |
| 6/15/2017 8:26 | 420 | 7 | 3.138 | 7.245 | 12.127 | 20.103 | 13.839 | | | | |
| 6/15/2017 8:27 | 480 | 8 | 3.134 | 7.236 | 12.118 | 20.112 | 13.854 | | | | |
| 6/15/2017 8:28 | 540 | 9 | 3.135 | 7.238 | 12.12 | 20.11 | 13.875 | | | | |
| 6/15/2017 8:29 | 600 | 10 | 3.137 | 7.244 | 12.126 | 20.104 | 13.868 | | | | |
| 6/15/2017 8:30 | 660 | 11 | 3.132 | 7.232 | 12.114 | 20.116 | 13.875 | | | | |
| 6/15/2017 8:31 | 720 | 12 | 3.136 | 7.241 | 12.123 | 20.107 | 13.901 | | | | |
| 6/15/2017 8:32 | 780 | 13 | 3.137 | 7.243 | 12.125 | 20.105 | 13.872 | | | | |
| 6/15/2017 8:33 | 840 | 14 | 3.135 | 7.239 | 12.121 | 20.109 | 13.895 | | | | |
| 6/15/2017 8:34 | 900 | 15 | 3.133 | 7.234 | 12.116 | 20.114 | 13.858 | | | | |
| 6/15/2017 8:35 | 960 | 16 | 3.135 | 7.238 | 12.12 | 20.11 | 13.906 | | | | |
| 6/15/2017 8:36 | 1020 | 17 | 3.135 | 7.238 | 12.12 | 20.11 | 13.878 | | | | |
| 6/15/2017 8:37 | 1080 | 18 | 3.134 | 7.237 | 12.119 | 20.111 | 13.909 | | | | |
| 6/15/2017 8:38 | 1140 | 19 | 3.128 | 7.224 | 12.106 | 20.124 | 13.89 | | | | |
| 6/15/2017 8:39 | 1200 | 20 | 3.111 | 7.183 | 12.065 | 20.165 | 13.869 | | | | |
| 6/15/2017 8:40 | 1260 | 21 | 3.087 | 7.129 | 12.011 | 20.219 | 13.874 | | | | |

| | | | | | | | |
|----------------|------|----|-------|-------|--------|--------|--------|
| 6/15/2017 8:41 | 1320 | 22 | 3.053 | 7.049 | 11.931 | 20.299 | 13.898 |
| 6/15/2017 8:42 | 1380 | 23 | 3.021 | 6.975 | 11.857 | 20.373 | 13.873 |
| 6/15/2017 8:43 | 1440 | 24 | 2.984 | 6.89 | 11.772 | 20.458 | 13.828 |
| 6/15/2017 8:44 | 1500 | 25 | 2.957 | 6.827 | 11.709 | 20.521 | 13.857 |
| 6/15/2017 8:45 | 1560 | 26 | 2.934 | 6.775 | 11.657 | 20.573 | 13.86 |
| 6/15/2017 8:46 | 1620 | 27 | 2.916 | 6.733 | 11.615 | 20.615 | 13.848 |
| 6/15/2017 8:47 | 1680 | 28 | 2.903 | 6.702 | 11.584 | 20.646 | 13.845 |
| 6/15/2017 8:48 | 1740 | 29 | 2.89 | 6.673 | 11.555 | 20.675 | 13.84 |
| 6/15/2017 8:49 | 1800 | 30 | 2.882 | 6.654 | 11.536 | 20.694 | 13.841 |
| 6/15/2017 8:50 | 1860 | 31 | 2.877 | 6.642 | 11.524 | 20.706 | 13.81 |
| 6/15/2017 8:51 | 1920 | 32 | 2.867 | 6.621 | 11.503 | 20.727 | 13.826 |
| 6/15/2017 8:52 | 1980 | 33 | 2.864 | 6.613 | 11.495 | 20.735 | 13.835 |
| 6/15/2017 8:53 | 2040 | 34 | 2.856 | 6.594 | 11.476 | 20.754 | 13.832 |
| 6/15/2017 8:54 | 2100 | 35 | 2.853 | 6.588 | 11.47 | 20.76 | 13.826 |
| 6/15/2017 8:55 | 2160 | 36 | 2.851 | 6.583 | 11.465 | 20.765 | 13.862 |
| 6/15/2017 8:56 | 2220 | 37 | 2.846 | 6.57 | 11.452 | 20.778 | 13.813 |
| 6/15/2017 8:57 | 2280 | 38 | 2.844 | 6.567 | 11.449 | 20.781 | 13.806 |
| 6/15/2017 8:58 | 2340 | 39 | 2.842 | 6.562 | 11.444 | 20.786 | 13.846 |
| 6/15/2017 8:59 | 2400 | 40 | 2.839 | 6.554 | 11.436 | 20.794 | 13.817 |
| 6/15/2017 9:00 | 2460 | 41 | 2.838 | 6.552 | 11.434 | 20.796 | 13.825 |
| 6/15/2017 9:01 | 2520 | 42 | 2.835 | 6.547 | 11.429 | 20.801 | 13.837 |
| 6/15/2017 9:02 | 2580 | 43 | 2.835 | 6.547 | 11.429 | 20.801 | 13.837 |
| 6/15/2017 9:03 | 2640 | 44 | 2.832 | 6.539 | 11.421 | 20.809 | 13.834 |
| 6/15/2017 9:04 | 2700 | 45 | 2.83 | 6.534 | 11.416 | 20.814 | 13.833 |
| 6/15/2017 9:05 | 2760 | 46 | 2.829 | 6.533 | 11.415 | 20.815 | 13.871 |
| 6/15/2017 9:06 | 2820 | 47 | 2.829 | 6.532 | 11.414 | 20.816 | 13.874 |
| 6/15/2017 9:07 | 2880 | 48 | 2.825 | 6.524 | 11.406 | 20.824 | 13.871 |
| 6/15/2017 9:08 | 2940 | 49 | 2.825 | 6.522 | 11.404 | 20.826 | 13.87 |
| 6/15/2017 9:09 | 3000 | 50 | 2.823 | 6.519 | 11.401 | 20.829 | 13.84 |
| 6/15/2017 9:10 | 3060 | 51 | 2.822 | 6.515 | 11.397 | 20.833 | 13.877 |
| 6/15/2017 9:11 | 3120 | 52 | 2.821 | 6.513 | 11.395 | 20.835 | 13.825 |
| 6/15/2017 9:12 | 3180 | 53 | 2.819 | 6.51 | 11.392 | 20.838 | 13.821 |
| 6/15/2017 9:13 | 3240 | 54 | 2.818 | 6.507 | 11.389 | 20.841 | 13.843 |
| 6/15/2017 9:14 | 3300 | 55 | 2.817 | 6.503 | 11.385 | 20.845 | 13.84 |
| 6/15/2017 9:15 | 3360 | 56 | 2.813 | 6.495 | 11.377 | 20.853 | 13.829 |
| 6/15/2017 9:16 | 3420 | 57 | 2.815 | 6.499 | 11.381 | 20.849 | 13.854 |
| 6/15/2017 9:17 | 3480 | 58 | 2.817 | 6.505 | 11.387 | 20.843 | 13.832 |
| 6/15/2017 9:18 | 3540 | 59 | 2.817 | 6.505 | 11.387 | 20.843 | 13.848 |
| 6/15/2017 9:19 | 3600 | 60 | 2.814 | 6.498 | 11.38 | 20.85 | 13.857 |
| 6/15/2017 9:20 | 3660 | 61 | 2.814 | 6.496 | 11.378 | 20.852 | 13.879 |
| 6/15/2017 9:21 | 3720 | 62 | 2.814 | 6.497 | 11.379 | 20.851 | 13.841 |
| 6/15/2017 9:22 | 3780 | 63 | 2.81 | 6.488 | 11.37 | 20.86 | 13.848 |
| 6/15/2017 9:23 | 3840 | 64 | 2.81 | 6.488 | 11.37 | 20.86 | 13.84 |
| 6/15/2017 9:24 | 3900 | 65 | 2.81 | 6.488 | 11.37 | 20.86 | 13.844 |
| 6/15/2017 9:25 | 3960 | 66 | 2.809 | 6.486 | 11.368 | 20.862 | 13.869 |
| 6/15/2017 9:26 | 4020 | 67 | 2.808 | 6.484 | 11.366 | 20.864 | 13.832 |
| 6/15/2017 9:27 | 4080 | 68 | 2.807 | 6.482 | 11.364 | 20.866 | 13.835 |

| | | | | | | | |
|-----------------|------|-----|-------|-------|--------|--------|--------|
| 6/15/2017 9:28 | 4140 | 69 | 2.806 | 6.479 | 11.361 | 20.869 | 13.841 |
| 6/15/2017 9:29 | 4200 | 70 | 2.804 | 6.475 | 11.357 | 20.873 | 13.867 |
| 6/15/2017 9:30 | 4260 | 71 | 2.808 | 6.484 | 11.366 | 20.864 | 13.837 |
| 6/15/2017 9:31 | 4320 | 72 | 2.809 | 6.485 | 11.367 | 20.863 | 13.847 |
| 6/15/2017 9:32 | 4380 | 73 | 2.806 | 6.479 | 11.361 | 20.869 | 13.861 |
| 6/15/2017 9:33 | 4440 | 74 | 2.806 | 6.478 | 11.36 | 20.87 | 13.857 |
| 6/15/2017 9:34 | 4500 | 75 | 2.803 | 6.472 | 11.354 | 20.876 | 13.854 |
| 6/15/2017 9:35 | 4560 | 76 | 2.806 | 6.479 | 11.361 | 20.869 | 13.859 |
| 6/15/2017 9:36 | 4620 | 77 | 2.802 | 6.471 | 11.353 | 20.877 | 13.846 |
| 6/15/2017 9:37 | 4680 | 78 | 2.804 | 6.473 | 11.355 | 20.875 | 13.862 |
| 6/15/2017 9:38 | 4740 | 79 | 2.805 | 6.477 | 11.359 | 20.871 | 13.858 |
| 6/15/2017 9:39 | 4800 | 80 | 2.804 | 6.475 | 11.357 | 20.873 | 13.862 |
| 6/15/2017 9:40 | 4860 | 81 | 2.803 | 6.473 | 11.355 | 20.875 | 13.87 |
| 6/15/2017 9:41 | 4920 | 82 | 2.804 | 6.474 | 11.356 | 20.874 | 13.874 |
| 6/15/2017 9:42 | 4980 | 83 | 2.804 | 6.474 | 11.356 | 20.874 | 13.878 |
| 6/15/2017 9:43 | 5040 | 84 | 2.8 | 6.465 | 11.347 | 20.883 | 13.863 |
| 6/15/2017 9:44 | 5100 | 85 | 2.803 | 6.472 | 11.354 | 20.876 | 13.793 |
| 6/15/2017 9:45 | 5160 | 86 | 2.802 | 6.469 | 11.351 | 20.879 | 13.823 |
| 6/15/2017 9:46 | 5220 | 87 | 2.801 | 6.468 | 11.35 | 20.88 | 13.816 |
| 6/15/2017 9:47 | 5280 | 88 | 2.802 | 6.471 | 11.353 | 20.877 | 13.806 |
| 6/15/2017 9:48 | 5340 | 89 | 2.801 | 6.468 | 11.35 | 20.88 | 13.838 |
| 6/15/2017 9:49 | 5400 | 90 | 2.8 | 6.465 | 11.347 | 20.883 | 13.851 |
| 6/15/2017 9:50 | 5460 | 91 | 2.799 | 6.464 | 11.346 | 20.884 | 13.829 |
| 6/15/2017 9:51 | 5520 | 92 | 2.799 | 6.463 | 11.345 | 20.885 | 13.821 |
| 6/15/2017 9:52 | 5580 | 93 | 2.798 | 6.462 | 11.344 | 20.886 | 13.862 |
| 6/15/2017 9:53 | 5640 | 94 | 2.801 | 6.468 | 11.35 | 20.88 | 13.845 |
| 6/15/2017 9:54 | 5700 | 95 | 2.797 | 6.459 | 11.341 | 20.889 | 13.846 |
| 6/15/2017 9:55 | 5760 | 96 | 2.799 | 6.464 | 11.346 | 20.884 | 13.859 |
| 6/15/2017 9:56 | 5820 | 97 | 2.798 | 6.461 | 11.343 | 20.887 | 13.846 |
| 6/15/2017 9:57 | 5880 | 98 | 2.798 | 6.461 | 11.343 | 20.887 | 13.857 |
| 6/15/2017 9:58 | 5940 | 99 | 2.798 | 6.461 | 11.343 | 20.887 | 13.851 |
| 6/15/2017 9:59 | 6000 | 100 | 2.797 | 6.459 | 11.341 | 20.889 | 13.844 |
| 6/15/2017 10:00 | 6060 | 101 | 2.797 | 6.457 | 11.339 | 20.891 | 13.861 |
| 6/15/2017 10:01 | 6120 | 102 | 2.796 | 6.455 | 11.337 | 20.893 | 13.873 |
| 6/15/2017 10:02 | 6180 | 103 | 2.796 | 6.455 | 11.337 | 20.893 | 13.861 |
| 6/15/2017 10:03 | 6240 | 104 | 2.797 | 6.459 | 11.341 | 20.889 | 13.848 |
| 6/15/2017 10:04 | 6300 | 105 | 2.794 | 6.452 | 11.334 | 20.896 | 13.887 |
| 6/15/2017 10:05 | 6360 | 106 | 2.796 | 6.457 | 11.339 | 20.891 | 13.864 |
| 6/15/2017 10:06 | 6420 | 107 | 2.797 | 6.459 | 11.341 | 20.889 | 13.862 |
| 6/15/2017 10:07 | 6480 | 108 | 2.796 | 6.456 | 11.338 | 20.892 | 13.85 |
| 6/15/2017 10:08 | 6540 | 109 | 2.793 | 6.449 | 11.331 | 20.899 | 13.864 |
| 6/15/2017 10:09 | 6600 | 110 | 2.793 | 6.45 | 11.332 | 20.898 | 13.876 |
| 6/15/2017 10:10 | 6660 | 111 | 2.796 | 6.456 | 11.338 | 20.892 | 13.854 |
| 6/15/2017 10:11 | 6720 | 112 | 2.793 | 6.45 | 11.332 | 20.898 | 13.848 |
| 6/15/2017 10:12 | 6780 | 113 | 2.795 | 6.453 | 11.335 | 20.895 | 13.858 |
| 6/15/2017 10:13 | 6840 | 114 | 2.796 | 6.457 | 11.339 | 20.891 | 13.865 |
| 6/15/2017 10:14 | 6900 | 115 | 2.796 | 6.456 | 11.338 | 20.892 | 13.884 |

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| 6/15/2017 10:15 | 6960 | 116 | 2.793 | 6.45 | 11.332 | 20.898 | 13.863 |
| 6/15/2017 10:16 | 7020 | 117 | 2.794 | 6.45 | 11.332 | 20.898 | 13.856 |
| 6/15/2017 10:17 | 7080 | 118 | 2.791 | 6.445 | 11.327 | 20.903 | 13.867 |
| 6/15/2017 10:18 | 7140 | 119 | 2.794 | 6.452 | 11.334 | 20.896 | 13.872 |
| 6/15/2017 10:19 | 7200 | 120 | 2.795 | 6.453 | 11.335 | 20.895 | 13.863 |
| 6/15/2017 10:20 | 7260 | 121 | 2.793 | 6.45 | 11.332 | 20.898 | 13.864 |
| 6/15/2017 10:21 | 7320 | 122 | 2.792 | 6.447 | 11.329 | 20.901 | 13.852 |
| 6/15/2017 10:22 | 7380 | 123 | 2.792 | 6.446 | 11.328 | 20.902 | 13.872 |
| 6/15/2017 10:23 | 7440 | 124 | 2.792 | 6.446 | 11.328 | 20.902 | 13.854 |
| 6/15/2017 10:24 | 7500 | 125 | 2.793 | 6.448 | 11.33 | 20.9 | 13.819 |
| 6/15/2017 10:25 | 7560 | 126 | 2.793 | 6.448 | 11.33 | 20.9 | 13.838 |
| 6/15/2017 10:26 | 7620 | 127 | 2.794 | 6.451 | 11.333 | 20.897 | 13.854 |
| 6/15/2017 10:27 | 7680 | 128 | 2.794 | 6.451 | 11.333 | 20.897 | 13.844 |
| 6/15/2017 10:28 | 7740 | 129 | 2.793 | 6.448 | 11.33 | 20.9 | 13.857 |
| 6/15/2017 10:29 | 7800 | 130 | 2.791 | 6.445 | 11.327 | 20.903 | 13.851 |
| 6/15/2017 10:30 | 7860 | 131 | 2.792 | 6.446 | 11.328 | 20.902 | 13.829 |
| 6/15/2017 10:31 | 7920 | 132 | 2.791 | 6.445 | 11.327 | 20.903 | 13.833 |
| 6/15/2017 10:32 | 7980 | 133 | 2.791 | 6.444 | 11.326 | 20.904 | 13.884 |
| 6/15/2017 10:33 | 8040 | 134 | 2.79 | 6.443 | 11.325 | 20.905 | 13.842 |
| 6/15/2017 10:34 | 8100 | 135 | 2.792 | 6.447 | 11.329 | 20.901 | 13.853 |
| 6/15/2017 10:35 | 8160 | 136 | 2.794 | 6.45 | 11.332 | 20.898 | 13.865 |
| 6/15/2017 10:36 | 8220 | 137 | 2.786 | 6.434 | 11.316 | 20.914 | 13.87 |
| 6/15/2017 10:37 | 8280 | 138 | 2.791 | 6.445 | 11.327 | 20.903 | 13.876 |
| 6/15/2017 10:38 | 8340 | 139 | 2.789 | 6.439 | 11.321 | 20.909 | 13.881 |
| 6/15/2017 10:39 | 8400 | 140 | 2.789 | 6.439 | 11.321 | 20.909 | 13.863 |
| 6/15/2017 10:40 | 8460 | 141 | 2.79 | 6.443 | 11.325 | 20.905 | 13.87 |
| 6/15/2017 10:41 | 8520 | 142 | 2.791 | 6.444 | 11.326 | 20.904 | 13.854 |
| 6/15/2017 10:42 | 8580 | 143 | 2.789 | 6.44 | 11.322 | 20.908 | 13.868 |
| 6/15/2017 10:43 | 8640 | 144 | 2.791 | 6.445 | 11.327 | 20.903 | 13.835 |
| 6/15/2017 10:44 | 8700 | 145 | 2.788 | 6.438 | 11.32 | 20.91 | 13.832 |
| 6/15/2017 10:45 | 8760 | 146 | 2.788 | 6.438 | 11.32 | 20.91 | 13.824 |
| 6/15/2017 10:46 | 8820 | 147 | 2.787 | 6.435 | 11.317 | 20.913 | 13.868 |
| 6/15/2017 10:47 | 8880 | 148 | 2.791 | 6.444 | 11.326 | 20.904 | 13.868 |
| 6/15/2017 10:48 | 8940 | 149 | 2.789 | 6.439 | 11.321 | 20.909 | 13.847 |
| 6/15/2017 10:49 | 9000 | 150 | 2.789 | 6.441 | 11.323 | 20.907 | 13.856 |
| 6/15/2017 10:50 | 9060 | 151 | 2.789 | 6.439 | 11.321 | 20.909 | 13.846 |
| 6/15/2017 10:51 | 9120 | 152 | 2.789 | 6.439 | 11.321 | 20.909 | 13.853 |
| 6/15/2017 10:52 | 9180 | 153 | 2.787 | 6.435 | 11.317 | 20.913 | 13.848 |
| 6/15/2017 10:53 | 9240 | 154 | 2.787 | 6.436 | 11.318 | 20.912 | 13.854 |
| 6/15/2017 10:54 | 9300 | 155 | 2.787 | 6.435 | 11.317 | 20.913 | 13.834 |
| 6/15/2017 10:55 | 9360 | 156 | 2.787 | 6.435 | 11.317 | 20.913 | 13.856 |
| 6/15/2017 10:56 | 9420 | 157 | 2.788 | 6.437 | 11.319 | 20.911 | 13.842 |
| 6/15/2017 10:57 | 9480 | 158 | 2.79 | 6.441 | 11.323 | 20.907 | 13.838 |
| 6/15/2017 10:58 | 9540 | 159 | 2.787 | 6.435 | 11.317 | 20.913 | 13.86 |
| 6/15/2017 10:59 | 9600 | 160 | 2.789 | 6.439 | 11.321 | 20.909 | 13.844 |
| 6/15/2017 11:00 | 9660 | 161 | 2.787 | 6.434 | 11.316 | 20.914 | 13.879 |
| 6/15/2017 11:01 | 9720 | 162 | 2.785 | 6.431 | 11.313 | 20.917 | 13.871 |

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| 6/15/2017 11:02 | 9780 | 163 | 2.784 | 6.429 | 11.311 | 20.919 | 13.881 |
| 6/15/2017 11:03 | 9840 | 164 | 2.789 | 6.439 | 11.321 | 20.909 | 13.871 |
| 6/15/2017 11:04 | 9900 | 165 | 2.786 | 6.432 | 11.314 | 20.916 | 13.867 |
| 6/15/2017 11:05 | 9960 | 166 | 2.787 | 6.436 | 11.318 | 20.912 | 13.858 |
| 6/15/2017 11:06 | 10020 | 167 | 2.786 | 6.434 | 11.316 | 20.914 | 13.875 |
| 6/15/2017 11:07 | 10080 | 168 | 2.786 | 6.434 | 11.316 | 20.914 | 13.881 |
| 6/15/2017 11:08 | 10140 | 169 | 2.787 | 6.435 | 11.317 | 20.913 | 13.868 |
| 6/15/2017 11:09 | 10200 | 170 | 2.785 | 6.432 | 11.314 | 20.916 | 13.873 |
| 6/15/2017 11:10 | 10260 | 171 | 2.785 | 6.431 | 11.313 | 20.917 | 13.889 |
| 6/15/2017 11:11 | 10320 | 172 | 2.784 | 6.429 | 11.311 | 20.919 | 13.869 |
| 6/15/2017 11:12 | 10380 | 173 | 2.786 | 6.433 | 11.315 | 20.915 | 13.868 |
| 6/15/2017 11:13 | 10440 | 174 | 2.786 | 6.434 | 11.316 | 20.914 | 13.889 |
| 6/15/2017 11:14 | 10500 | 175 | 2.785 | 6.43 | 11.312 | 20.918 | 13.865 |
| 6/15/2017 11:15 | 10560 | 176 | 2.786 | 6.433 | 11.315 | 20.915 | 13.873 |
| 6/15/2017 11:16 | 10620 | 177 | 2.785 | 6.43 | 11.312 | 20.918 | 13.869 |
| 6/15/2017 11:17 | 10680 | 178 | 2.786 | 6.434 | 11.316 | 20.914 | 13.899 |
| 6/15/2017 11:18 | 10740 | 179 | 2.787 | 6.435 | 11.317 | 20.913 | 13.888 |
| 6/15/2017 11:19 | 10800 | 180 | 2.785 | 6.43 | 11.312 | 20.918 | 13.864 |
| 6/15/2017 11:20 | 10860 | 181 | 2.788 | 6.436 | 11.318 | 20.912 | 13.864 |
| 6/15/2017 11:21 | 10920 | 182 | 2.785 | 6.43 | 11.312 | 20.918 | 13.859 |
| 6/15/2017 11:22 | 10980 | 183 | 2.784 | 6.427 | 11.309 | 20.921 | 13.891 |
| 6/15/2017 11:23 | 11040 | 184 | 2.785 | 6.43 | 11.312 | 20.918 | 13.887 |
| 6/15/2017 11:24 | 11100 | 185 | 2.786 | 6.434 | 11.316 | 20.914 | 13.891 |
| 6/15/2017 11:25 | 11160 | 186 | 2.784 | 6.428 | 11.31 | 20.92 | 13.887 |
| 6/15/2017 11:26 | 11220 | 187 | 2.783 | 6.426 | 11.308 | 20.922 | 13.875 |
| 6/15/2017 11:27 | 11280 | 188 | 2.785 | 6.43 | 11.312 | 20.918 | 13.865 |
| 6/15/2017 11:28 | 11340 | 189 | 2.782 | 6.424 | 11.306 | 20.924 | 13.868 |
| 6/15/2017 11:29 | 11400 | 190 | 2.783 | 6.425 | 11.307 | 20.923 | 13.896 |
| 6/15/2017 11:30 | 11460 | 191 | 2.781 | 6.422 | 11.304 | 20.926 | 13.859 |
| 6/15/2017 11:31 | 11520 | 192 | 2.784 | 6.429 | 11.311 | 20.919 | 13.86 |
| 6/15/2017 11:32 | 11580 | 193 | 2.781 | 6.422 | 11.304 | 20.926 | 13.877 |
| 6/15/2017 11:33 | 11640 | 194 | 2.784 | 6.428 | 11.31 | 20.92 | 13.889 |
| 6/15/2017 11:34 | 11700 | 195 | 2.783 | 6.425 | 11.307 | 20.923 | 13.89 |
| 6/15/2017 11:35 | 11760 | 196 | 2.784 | 6.428 | 11.31 | 20.92 | 13.908 |
| 6/15/2017 11:36 | 11820 | 197 | 2.782 | 6.423 | 11.305 | 20.925 | 13.903 |
| 6/15/2017 11:37 | 11880 | 198 | 2.785 | 6.43 | 11.312 | 20.918 | 13.891 |
| 6/15/2017 11:38 | 11940 | 199 | 2.782 | 6.423 | 11.305 | 20.925 | 13.874 |
| 6/15/2017 11:39 | 12000 | 200 | 2.784 | 6.429 | 11.311 | 20.919 | 13.896 |
| 6/15/2017 11:40 | 12060 | 201 | 2.781 | 6.421 | 11.303 | 20.927 | 13.892 |
| 6/15/2017 11:41 | 12120 | 202 | 2.782 | 6.423 | 11.305 | 20.925 | 13.907 |
| 6/15/2017 11:42 | 12180 | 203 | 2.784 | 6.428 | 11.31 | 20.92 | 13.849 |
| 6/15/2017 11:43 | 12240 | 204 | 2.784 | 6.427 | 11.309 | 20.921 | 13.88 |
| 6/15/2017 11:44 | 12300 | 205 | 2.784 | 6.428 | 11.31 | 20.92 | 13.859 |
| 6/15/2017 11:45 | 12360 | 206 | 2.784 | 6.428 | 11.31 | 20.92 | 13.883 |
| 6/15/2017 11:46 | 12420 | 207 | 2.781 | 6.42 | 11.302 | 20.928 | 13.892 |
| 6/15/2017 11:47 | 12480 | 208 | 2.782 | 6.425 | 11.307 | 20.923 | 13.884 |
| 6/15/2017 11:48 | 12540 | 209 | 2.782 | 6.424 | 11.306 | 20.924 | 13.878 |

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|-----------------|-------|-----|-------|-------|--------|--------|--------|
| 6/15/2017 11:49 | 12600 | 210 | 2.784 | 6.427 | 11.309 | 20.921 | 13.886 |
| 6/15/2017 11:50 | 12660 | 211 | 2.783 | 6.427 | 11.309 | 20.921 | 13.871 |
| 6/15/2017 11:51 | 12720 | 212 | 2.783 | 6.426 | 11.308 | 20.922 | 13.865 |
| 6/15/2017 11:52 | 12780 | 213 | 2.786 | 6.432 | 11.314 | 20.916 | 13.909 |
| 6/15/2017 11:53 | 12840 | 214 | 2.782 | 6.423 | 11.305 | 20.925 | 13.879 |
| 6/15/2017 11:54 | 12900 | 215 | 2.783 | 6.427 | 11.309 | 20.921 | 13.903 |
| 6/15/2017 11:55 | 12960 | 216 | 2.781 | 6.422 | 11.304 | 20.926 | 13.911 |
| 6/15/2017 11:56 | 13020 | 217 | 2.782 | 6.425 | 11.307 | 20.923 | 13.89 |
| 6/15/2017 11:57 | 13080 | 218 | 2.782 | 6.424 | 11.306 | 20.924 | 13.889 |
| 6/15/2017 11:58 | 13140 | 219 | 2.781 | 6.421 | 11.303 | 20.927 | 13.909 |
| 6/15/2017 11:59 | 13200 | 220 | 2.779 | 6.418 | 11.3 | 20.93 | 13.895 |
| 6/15/2017 12:00 | 13260 | 221 | 2.784 | 6.428 | 11.31 | 20.92 | 13.9 |
| 6/15/2017 12:01 | 13320 | 222 | 2.781 | 6.421 | 11.303 | 20.927 | 13.892 |
| 6/15/2017 12:02 | 13380 | 223 | 2.781 | 6.421 | 11.303 | 20.927 | 13.923 |
| 6/15/2017 12:03 | 13440 | 224 | 2.782 | 6.425 | 11.307 | 20.923 | 13.877 |
| 6/15/2017 12:04 | 13500 | 225 | 2.779 | 6.418 | 11.3 | 20.93 | 13.875 |
| 6/15/2017 12:05 | 13560 | 226 | 2.781 | 6.421 | 11.303 | 20.927 | 13.923 |
| 6/15/2017 12:06 | 13620 | 227 | 2.785 | 6.43 | 11.312 | 20.918 | 13.896 |
| 6/15/2017 12:07 | 13680 | 228 | 2.782 | 6.423 | 11.305 | 20.925 | 13.868 |
| 6/15/2017 12:08 | 13740 | 229 | 2.78 | 6.419 | 11.301 | 20.929 | 13.899 |
| 6/15/2017 12:09 | 13800 | 230 | 2.779 | 6.418 | 11.3 | 20.93 | 13.897 |
| 6/15/2017 12:10 | 13860 | 231 | 2.783 | 6.426 | 11.308 | 20.922 | 13.861 |
| 6/15/2017 12:11 | 13920 | 232 | 2.781 | 6.421 | 11.303 | 20.927 | 13.886 |
| 6/15/2017 12:12 | 13980 | 233 | 2.778 | 6.414 | 11.296 | 20.934 | 13.881 |
| 6/15/2017 12:13 | 14040 | 234 | 2.782 | 6.424 | 11.306 | 20.924 | 13.854 |
| 6/15/2017 12:14 | 14100 | 235 | 2.783 | 6.426 | 11.308 | 20.922 | 13.886 |
| 6/15/2017 12:15 | 14160 | 236 | 2.78 | 6.418 | 11.3 | 20.93 | 13.865 |
| 6/15/2017 12:16 | 14220 | 237 | 2.78 | 6.419 | 11.301 | 20.929 | 13.873 |
| 6/15/2017 12:17 | 14280 | 238 | 2.782 | 6.423 | 11.305 | 20.925 | 13.882 |
| 6/15/2017 12:18 | 14340 | 239 | 2.78 | 6.42 | 11.302 | 20.928 | 13.878 |
| 6/15/2017 12:19 | 14400 | 240 | 2.779 | 6.418 | 11.3 | 20.93 | 13.874 |
| 6/15/2017 12:20 | 14460 | 241 | 2.78 | 6.418 | 11.3 | 20.93 | 13.868 |
| 6/15/2017 12:21 | 14520 | 242 | 2.778 | 6.415 | 11.297 | 20.933 | 13.871 |
| 6/15/2017 12:22 | 14580 | 243 | 2.781 | 6.42 | 11.302 | 20.928 | 13.872 |
| 6/15/2017 12:23 | 14640 | 244 | 2.778 | 6.415 | 11.297 | 20.933 | 13.862 |
| 6/15/2017 12:24 | 14700 | 245 | 2.78 | 6.418 | 11.3 | 20.93 | 13.874 |
| 6/15/2017 12:25 | 14760 | 246 | 2.782 | 6.423 | 11.305 | 20.925 | 13.872 |
| 6/15/2017 12:26 | 14820 | 247 | 2.779 | 6.416 | 11.298 | 20.932 | 13.873 |
| 6/15/2017 12:27 | 14880 | 248 | 2.778 | 6.415 | 11.297 | 20.933 | 13.903 |
| 6/15/2017 12:28 | 14940 | 249 | 2.78 | 6.418 | 11.3 | 20.93 | 13.876 |
| 6/15/2017 12:29 | 15000 | 250 | 2.779 | 6.416 | 11.298 | 20.932 | 13.846 |
| 6/15/2017 12:30 | 15060 | 251 | 2.777 | 6.412 | 11.294 | 20.936 | 13.848 |
| 6/15/2017 12:31 | 15120 | 252 | 2.78 | 6.419 | 11.301 | 20.929 | 13.839 |
| 6/15/2017 12:32 | 15180 | 253 | 2.778 | 6.415 | 11.297 | 20.933 | 13.836 |
| 6/15/2017 12:33 | 15240 | 254 | 2.779 | 6.416 | 11.298 | 20.932 | 13.84 |
| 6/15/2017 12:34 | 15300 | 255 | 2.78 | 6.418 | 11.3 | 20.93 | 13.826 |
| 6/15/2017 12:35 | 15360 | 256 | 2.778 | 6.415 | 11.297 | 20.933 | 13.847 |

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|-----------------|-------|-----|-------|-------|--------|--------|--------|
| 6/15/2017 12:36 | 15420 | 257 | 2.78 | 6.418 | 11.3 | 20.93 | 13.832 |
| 6/15/2017 12:37 | 15480 | 258 | 2.782 | 6.424 | 11.306 | 20.924 | 13.836 |
| 6/15/2017 12:38 | 15540 | 259 | 2.78 | 6.418 | 11.3 | 20.93 | 13.832 |
| 6/15/2017 12:39 | 15600 | 260 | 2.781 | 6.421 | 11.303 | 20.927 | 13.823 |
| 6/15/2017 12:40 | 15660 | 261 | 2.78 | 6.419 | 11.301 | 20.929 | 13.835 |
| 6/15/2017 12:41 | 15720 | 262 | 2.78 | 6.418 | 11.3 | 20.93 | 13.862 |
| 6/15/2017 12:42 | 15780 | 263 | 2.776 | 6.409 | 11.291 | 20.939 | 13.836 |
| 6/15/2017 12:43 | 15840 | 264 | 2.778 | 6.414 | 11.296 | 20.934 | 13.843 |
| 6/15/2017 12:44 | 15900 | 265 | 2.779 | 6.417 | 11.299 | 20.931 | 13.841 |
| 6/15/2017 12:45 | 15960 | 266 | 2.767 | 6.389 | 11.271 | 20.959 | 13.87 |
| 6/15/2017 12:46 | 16020 | 267 | 2.778 | 6.414 | 11.296 | 20.934 | 13.853 |
| 6/15/2017 12:47 | 16080 | 268 | 2.778 | 6.415 | 11.297 | 20.933 | 13.868 |
| 6/15/2017 12:48 | 16140 | 269 | 2.779 | 6.416 | 11.298 | 20.932 | 13.866 |
| 6/15/2017 12:49 | 16200 | 270 | 2.778 | 6.413 | 11.295 | 20.935 | 13.86 |
| 6/15/2017 12:50 | 16260 | 271 | 2.778 | 6.414 | 11.296 | 20.934 | 13.882 |
| 6/15/2017 12:51 | 16320 | 272 | 2.777 | 6.412 | 11.294 | 20.936 | 13.873 |
| 6/15/2017 12:52 | 16380 | 273 | 2.78 | 6.418 | 11.3 | 20.93 | 13.868 |
| 6/15/2017 12:53 | 16440 | 274 | 2.778 | 6.414 | 11.296 | 20.934 | 13.86 |
| 6/15/2017 12:54 | 16500 | 275 | 2.775 | 6.407 | 11.289 | 20.941 | 13.855 |
| 6/15/2017 12:55 | 16560 | 276 | 2.777 | 6.413 | 11.295 | 20.935 | 13.867 |
| 6/15/2017 12:56 | 16620 | 277 | 2.775 | 6.408 | 11.29 | 20.94 | 13.847 |
| 6/15/2017 12:57 | 16680 | 278 | 2.779 | 6.417 | 11.299 | 20.931 | 13.84 |
| 6/15/2017 12:58 | 16740 | 279 | 2.776 | 6.409 | 11.291 | 20.939 | 13.87 |
| 6/15/2017 12:59 | 16800 | 280 | 2.779 | 6.416 | 11.298 | 20.932 | 13.848 |
| 6/15/2017 13:00 | 16860 | 281 | 2.776 | 6.409 | 11.291 | 20.939 | 13.851 |
| 6/15/2017 13:01 | 16920 | 282 | 2.773 | 6.404 | 11.286 | 20.944 | 13.837 |
| 6/15/2017 13:02 | 16980 | 283 | 2.778 | 6.414 | 11.296 | 20.934 | 13.835 |
| 6/15/2017 13:03 | 17040 | 284 | 2.774 | 6.406 | 11.288 | 20.942 | 13.846 |
| 6/15/2017 13:04 | 17100 | 285 | 2.777 | 6.413 | 11.295 | 20.935 | 13.829 |
| 6/15/2017 13:05 | 17160 | 286 | 2.776 | 6.41 | 11.292 | 20.938 | 13.848 |
| 6/15/2017 13:06 | 17220 | 287 | 2.777 | 6.411 | 11.293 | 20.937 | 13.847 |
| 6/15/2017 13:07 | 17280 | 288 | 2.776 | 6.411 | 11.293 | 20.937 | 13.87 |
| 6/15/2017 13:08 | 17340 | 289 | 2.777 | 6.411 | 11.293 | 20.937 | 13.857 |
| 6/15/2017 13:09 | 17400 | 290 | 2.776 | 6.41 | 11.292 | 20.938 | 13.862 |
| 6/15/2017 13:10 | 17460 | 291 | 2.776 | 6.411 | 11.293 | 20.937 | 13.861 |
| 6/15/2017 13:11 | 17520 | 292 | 2.774 | 6.404 | 11.286 | 20.944 | 13.892 |
| 6/15/2017 13:12 | 17580 | 293 | 2.776 | 6.41 | 11.292 | 20.938 | 13.895 |
| 6/15/2017 13:13 | 17640 | 294 | 2.775 | 6.408 | 11.29 | 20.94 | 13.875 |
| 6/15/2017 13:14 | 17700 | 295 | 2.774 | 6.405 | 11.287 | 20.943 | 13.897 |
| 6/15/2017 13:15 | 17760 | 296 | 2.777 | 6.411 | 11.293 | 20.937 | 13.881 |
| 6/15/2017 13:16 | 17820 | 297 | 2.776 | 6.411 | 11.293 | 20.937 | 13.899 |
| 6/15/2017 13:17 | 17880 | 298 | 2.779 | 6.416 | 11.298 | 20.932 | 13.884 |
| 6/15/2017 13:18 | 17940 | 299 | 2.78 | 6.42 | 11.302 | 20.928 | 13.883 |
| 6/15/2017 13:19 | 18000 | 300 | 2.782 | 6.424 | 11.306 | 20.924 | 13.887 |
| 6/15/2017 13:20 | 18060 | 301 | 2.786 | 6.433 | 11.315 | 20.915 | 13.857 |
| 6/15/2017 13:21 | 18120 | 302 | 2.79 | 6.442 | 11.324 | 20.906 | 13.891 |
| 6/15/2017 13:22 | 18180 | 303 | 2.798 | 6.459 | 11.341 | 20.889 | 13.826 |

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|-----------------|-------|-----|-------|-------|--------|--------|--------|
| 6/15/2017 13:23 | 18240 | 304 | 2.806 | 6.479 | 11.361 | 20.869 | 13.857 |
| 6/15/2017 13:24 | 18300 | 305 | 2.813 | 6.495 | 11.377 | 20.853 | 13.83 |
| 6/15/2017 13:25 | 18360 | 306 | 2.818 | 6.506 | 11.388 | 20.842 | 13.839 |
| 6/15/2017 13:26 | 18420 | 307 | 2.827 | 6.528 | 11.41 | 20.82 | 13.854 |
| 6/15/2017 13:27 | 18480 | 308 | 2.834 | 6.543 | 11.425 | 20.805 | 13.826 |
| 6/15/2017 13:28 | 18540 | 309 | 2.838 | 6.554 | 11.436 | 20.794 | 13.857 |
| 6/15/2017 13:29 | 18600 | 310 | 2.847 | 6.574 | 11.456 | 20.774 | 13.841 |
| 6/15/2017 13:30 | 18660 | 311 | 2.856 | 6.594 | 11.476 | 20.754 | 13.873 |
| 6/15/2017 13:31 | 18720 | 312 | 2.858 | 6.6 | 11.482 | 20.748 | 13.855 |
| 6/15/2017 13:32 | 18780 | 313 | 2.865 | 6.615 | 11.497 | 20.733 | 13.858 |
| 6/15/2017 13:33 | 18840 | 314 | 2.873 | 6.633 | 11.515 | 20.715 | 13.879 |
| 6/15/2017 13:34 | 18900 | 315 | 2.877 | 6.643 | 11.525 | 20.705 | 13.891 |
| 6/15/2017 13:35 | 18960 | 316 | 2.885 | 6.661 | 11.543 | 20.687 | 13.899 |
| 6/15/2017 13:36 | 19020 | 317 | 2.892 | 6.677 | 11.559 | 20.671 | 13.892 |
| 6/15/2017 13:37 | 19080 | 318 | 2.896 | 6.687 | 11.569 | 20.661 | 13.882 |
| 6/15/2017 13:38 | 19140 | 319 | 2.9 | 6.695 | 11.577 | 20.653 | 13.886 |
| 6/15/2017 13:39 | 19200 | 320 | 2.905 | 6.707 | 11.589 | 20.641 | 13.895 |
| 6/15/2017 13:40 | 19260 | 321 | 2.912 | 6.724 | 11.606 | 20.624 | 13.873 |
| 6/15/2017 13:41 | 19320 | 322 | 2.913 | 6.726 | 11.608 | 20.622 | 13.883 |
| 6/15/2017 13:42 | 19380 | 323 | 2.919 | 6.74 | 11.622 | 20.608 | 13.877 |
| 6/15/2017 13:43 | 19440 | 324 | 2.927 | 6.758 | 11.64 | 20.59 | 13.9 |
| 6/15/2017 13:44 | 19500 | 325 | 2.93 | 6.765 | 11.647 | 20.583 | 13.902 |
| 6/15/2017 13:45 | 19560 | 326 | 2.934 | 6.774 | 11.656 | 20.574 | 13.913 |
| 6/15/2017 13:46 | 19620 | 327 | 2.937 | 6.781 | 11.663 | 20.567 | 13.892 |
| 6/15/2017 13:47 | 19680 | 328 | 2.941 | 6.79 | 11.672 | 20.558 | 13.893 |
| 6/15/2017 13:48 | 19740 | 329 | 2.946 | 6.802 | 11.684 | 20.546 | 13.868 |
| 6/15/2017 13:49 | 19800 | 330 | 2.951 | 6.814 | 11.696 | 20.534 | 13.912 |
| 6/15/2017 13:50 | 19860 | 331 | 2.955 | 6.823 | 11.705 | 20.525 | 13.891 |
| 6/15/2017 13:51 | 19920 | 332 | 2.957 | 6.827 | 11.709 | 20.521 | 13.917 |
| 6/15/2017 13:52 | 19980 | 333 | 2.961 | 6.837 | 11.719 | 20.511 | 13.903 |
| 6/15/2017 13:53 | 20040 | 334 | 2.964 | 6.844 | 11.726 | 20.504 | 13.885 |
| 6/15/2017 13:54 | 20100 | 335 | 2.966 | 6.849 | 11.731 | 20.499 | 13.907 |
| 6/15/2017 13:55 | 20160 | 336 | 2.971 | 6.861 | 11.743 | 20.487 | 13.892 |
| 6/15/2017 13:56 | 20220 | 337 | 2.972 | 6.863 | 11.745 | 20.485 | 13.891 |
| 6/15/2017 13:57 | 20280 | 338 | 2.979 | 6.878 | 11.76 | 20.47 | 13.9 |
| 6/15/2017 13:58 | 20340 | 339 | 2.984 | 6.889 | 11.771 | 20.459 | 13.891 |
| 6/15/2017 13:59 | 20400 | 340 | 2.985 | 6.891 | 11.773 | 20.457 | 13.881 |
| 6/15/2017 14:00 | 20460 | 341 | 2.988 | 6.899 | 11.781 | 20.449 | 13.904 |
| 6/15/2017 14:01 | 20520 | 342 | 2.993 | 6.912 | 11.794 | 20.436 | 13.913 |
| 6/15/2017 14:02 | 20580 | 343 | 2.997 | 6.921 | 11.803 | 20.427 | 13.901 |
| 6/15/2017 14:03 | 20640 | 344 | 2.999 | 6.925 | 11.807 | 20.423 | 13.903 |
| 6/15/2017 14:04 | 20700 | 345 | 3.002 | 6.931 | 11.813 | 20.417 | 13.917 |
| 6/15/2017 14:05 | 20760 | 346 | 3.008 | 6.944 | 11.826 | 20.404 | 13.888 |
| 6/15/2017 14:06 | 20820 | 347 | 3.01 | 6.95 | 11.832 | 20.398 | 13.906 |
| 6/15/2017 14:07 | 20880 | 348 | 3.013 | 6.956 | 11.838 | 20.392 | 13.92 |
| 6/15/2017 14:08 | 20940 | 349 | 3.013 | 6.956 | 11.838 | 20.392 | 13.947 |
| 6/15/2017 14:09 | 21000 | 350 | 3.017 | 6.966 | 11.848 | 20.382 | 13.914 |

| | | | | | | | |
|-----------------|-------|-----|-------|-------|--------|--------|--------|
| 6/15/2017 14:10 | 21060 | 351 | 3.022 | 6.977 | 11.859 | 20.371 | 13.907 |
| 6/15/2017 14:11 | 21120 | 352 | 3.025 | 6.984 | 11.866 | 20.364 | 13.925 |
| 6/15/2017 14:12 | 21180 | 353 | 3.03 | 6.995 | 11.877 | 20.353 | 13.91 |
| 6/15/2017 14:13 | 21240 | 354 | 3.03 | 6.997 | 11.879 | 20.351 | 13.934 |
| 6/15/2017 14:14 | 21300 | 355 | 3.03 | 6.996 | 11.878 | 20.352 | 13.947 |
| 6/15/2017 14:15 | 21360 | 356 | 3.034 | 7.006 | 11.888 | 20.342 | 13.908 |
| 6/15/2017 14:16 | 21420 | 357 | 3.035 | 7.009 | 11.891 | 20.339 | 13.929 |
| 6/15/2017 14:17 | 21480 | 358 | 3.039 | 7.017 | 11.899 | 20.331 | 13.909 |
| 6/15/2017 14:18 | 21540 | 359 | 3.042 | 7.023 | 11.905 | 20.325 | 13.925 |
| 6/15/2017 14:19 | 21600 | 360 | 3.044 | 7.028 | 11.91 | 20.32 | 13.91 |
| 6/15/2017 14:20 | 21660 | 361 | 3.045 | 7.03 | 11.912 | 20.318 | 13.923 |
| 6/15/2017 14:21 | 21720 | 362 | 3.048 | 7.037 | 11.919 | 20.311 | 13.917 |
| 6/15/2017 14:22 | 21780 | 363 | 3.05 | 7.043 | 11.925 | 20.305 | 13.93 |
| 6/15/2017 14:23 | 21840 | 364 | 3.053 | 7.049 | 11.931 | 20.299 | 13.933 |
| 6/15/2017 14:24 | 21900 | 365 | 3.053 | 7.05 | 11.932 | 20.298 | 13.92 |
| 6/15/2017 14:25 | 21960 | 366 | 3.055 | 7.053 | 11.935 | 20.295 | 13.929 |
| 6/15/2017 14:26 | 22020 | 367 | 3.057 | 7.059 | 11.941 | 20.289 | 13.921 |
| 6/15/2017 14:27 | 22080 | 368 | 3.059 | 7.064 | 11.946 | 20.284 | 13.912 |
| 6/15/2017 14:28 | 22140 | 369 | 3.064 | 7.074 | 11.956 | 20.274 | 13.912 |
| 6/15/2017 14:29 | 22200 | 370 | 3.062 | 7.07 | 11.952 | 20.278 | 13.908 |
| 6/15/2017 14:30 | 22260 | 371 | 3.063 | 7.071 | 11.953 | 20.277 | 13.898 |
| 6/15/2017 14:31 | 22320 | 372 | 3.063 | 7.072 | 11.954 | 20.276 | 13.888 |
| 6/15/2017 14:32 | 22380 | 373 | 3.067 | 7.081 | 11.963 | 20.267 | 13.914 |
| 6/15/2017 14:33 | 22440 | 374 | 3.067 | 7.082 | 11.964 | 20.266 | 13.914 |
| 6/15/2017 14:34 | 22500 | 375 | 3.067 | 7.081 | 11.963 | 20.267 | 13.889 |
| 6/15/2017 14:35 | 22560 | 376 | 3.068 | 7.083 | 11.965 | 20.265 | 13.934 |
| 6/15/2017 14:36 | 22620 | 377 | 3.067 | 7.083 | 11.965 | 20.265 | 13.912 |
| 6/15/2017 14:37 | 22680 | 378 | 3.069 | 7.086 | 11.968 | 20.262 | 13.929 |
| 6/15/2017 14:38 | 22740 | 379 | 3.07 | 7.087 | 11.969 | 20.261 | 13.918 |
| 6/15/2017 14:39 | 22800 | 380 | 3.075 | 7.1 | 11.982 | 20.248 | 13.928 |
| 6/15/2017 14:40 | 22860 | 381 | 3.072 | 7.094 | 11.976 | 20.254 | 13.923 |
| 6/15/2017 14:41 | 22920 | 382 | 3.076 | 7.102 | 11.984 | 20.246 | 13.898 |
| 6/15/2017 14:42 | 22980 | 383 | 3.072 | 7.093 | 11.975 | 20.255 | 13.917 |
| 6/15/2017 14:43 | 23040 | 384 | 3.074 | 7.098 | 11.98 | 20.25 | 13.881 |
| 6/15/2017 14:44 | 23100 | 385 | 3.075 | 7.101 | 11.983 | 20.247 | 13.911 |
| 6/15/2017 14:45 | 23160 | 386 | 3.078 | 7.108 | 11.99 | 20.24 | 13.896 |
| 6/15/2017 14:46 | 23220 | 387 | 3.077 | 7.105 | 11.987 | 20.243 | 13.908 |
| 6/15/2017 14:47 | 23280 | 388 | 3.076 | 7.103 | 11.985 | 20.245 | 13.906 |
| 6/15/2017 14:48 | 23340 | 389 | 3.081 | 7.113 | 11.995 | 20.235 | 13.884 |
| 6/15/2017 14:49 | 23400 | 390 | 3.081 | 7.113 | 11.995 | 20.235 | 13.92 |
| 6/15/2017 14:50 | 23460 | 391 | 3.078 | 7.108 | 11.99 | 20.24 | 13.915 |
| 6/15/2017 14:51 | 23520 | 392 | 3.082 | 7.115 | 11.997 | 20.233 | 13.92 |
| 6/15/2017 14:52 | 23580 | 393 | 3.082 | 7.115 | 11.997 | 20.233 | 13.89 |
| 6/15/2017 14:53 | 23640 | 394 | 3.08 | 7.112 | 11.994 | 20.236 | 13.917 |
| 6/15/2017 14:54 | 23700 | 395 | 3.081 | 7.115 | 11.997 | 20.233 | 13.905 |
| 6/15/2017 14:55 | 23760 | 396 | 3.084 | 7.12 | 12.002 | 20.228 | 13.901 |
| 6/15/2017 14:56 | 23820 | 397 | 3.084 | 7.12 | 12.002 | 20.228 | 13.905 |

| | | | | | | | |
|-----------------|-------|-----|-------|-------|--------|--------|--------|
| 6/15/2017 14:57 | 23880 | 398 | 3.083 | 7.12 | 12.002 | 20.228 | 13.923 |
| 6/15/2017 14:58 | 23940 | 399 | 3.086 | 7.126 | 12.008 | 20.222 | 13.896 |
| 6/15/2017 14:59 | 24000 | 400 | 3.089 | 7.132 | 12.014 | 20.216 | 13.916 |
| 6/15/2017 15:00 | 24060 | 401 | 3.084 | 7.12 | 12.002 | 20.228 | 13.928 |
| 6/15/2017 15:01 | 24120 | 402 | 3.085 | 7.124 | 12.006 | 20.224 | 13.912 |
| 6/15/2017 15:02 | 24180 | 403 | 3.086 | 7.126 | 12.008 | 20.222 | 13.912 |
| 6/15/2017 15:03 | 24240 | 404 | 3.086 | 7.124 | 12.006 | 20.224 | 13.922 |
| 6/15/2017 15:04 | 24300 | 405 | 3.091 | 7.137 | 12.019 | 20.211 | 13.944 |
| 6/15/2017 15:05 | 24360 | 406 | 3.09 | 7.135 | 12.017 | 20.213 | 13.912 |
| 6/15/2017 15:06 | 24420 | 407 | 3.089 | 7.133 | 12.015 | 20.215 | 13.901 |
| 6/15/2017 15:07 | 24480 | 408 | 3.087 | 7.129 | 12.011 | 20.219 | 13.895 |
| 6/15/2017 15:08 | 24540 | 409 | 3.093 | 7.141 | 12.023 | 20.207 | 13.912 |
| 6/15/2017 15:09 | 24600 | 410 | 3.089 | 7.132 | 12.014 | 20.216 | 13.921 |
| 6/15/2017 15:10 | 24660 | 411 | 3.088 | 7.13 | 12.012 | 20.218 | 13.899 |
| 6/15/2017 15:11 | 24720 | 412 | 3.09 | 7.135 | 12.017 | 20.213 | 13.898 |
| 6/15/2017 15:12 | 24780 | 413 | 3.088 | 7.13 | 12.012 | 20.218 | 13.912 |
| 6/15/2017 15:13 | 24840 | 414 | 3.088 | 7.131 | 12.013 | 20.217 | 13.92 |
| 6/15/2017 15:14 | 24900 | 415 | 3.092 | 7.14 | 12.022 | 20.208 | 13.934 |
| 6/15/2017 15:15 | 24960 | 416 | 3.088 | 7.13 | 12.012 | 20.218 | 13.906 |
| 6/15/2017 15:16 | 25020 | 417 | 3.087 | 7.128 | 12.01 | 20.22 | 13.894 |
| 6/15/2017 15:17 | 25080 | 418 | 3.09 | 7.134 | 12.016 | 20.214 | 13.906 |
| 6/15/2017 15:18 | 25140 | 419 | 3.091 | 7.137 | 12.019 | 20.211 | 13.921 |
| 6/15/2017 15:19 | 25200 | 420 | 3.087 | 7.128 | 12.01 | 20.22 | 13.916 |
| 6/15/2017 15:20 | 25260 | 421 | 3.086 | 7.125 | 12.007 | 20.223 | 13.917 |
| 6/15/2017 15:21 | 25320 | 422 | 3.093 | 7.141 | 12.023 | 20.207 | 13.909 |

Summary of Water Level Measurements at PZ-14 Piezometer Array
RW-17-1 Pumping Test
Orange County Landfill
New Hampton, New York

| Date | Time | PZ-14-1 | PZ-14-2 | PZ-14-3 | PZ-14-4 | PZ-14-5 | PZ-14-6 |
|-----------|-------|---------|---------|---------|---------|---------|---------|
| 6/15/2017 | 7:00 | 27.05 | 19.58 | 20.07 | 19.35 | 28.85 | 27.71 |
| 6/15/2017 | 9:10 | 27.26 | 19.97 | 20.53 | 19.72 | 28.88 | 27.91 |
| 6/15/2017 | 9:45 | 27.31 | 20.06 | 20.80 | 19.72 | 28.95 | 28.02 |
| 6/15/2017 | 10:30 | 27.35 | 20.07 | 20.90 | 19.79 | 29.01 | 28.04 |
| 6/15/2017 | 11:20 | 27.35 | 20.10 | 20.94 | 19.81 | 29.06 | 28.05 |
| 6/15/2017 | 11:55 | 27.35 | 20.10 | 20.95 | 19.81 | 29.11 | 28.05 |
| 6/15/2017 | 13:30 | 27.34 | 20.05 | 20.91 | 19.79 | 29.15 | 28.04 |
| 6/15/2017 | 15:40 | 27.04 | 19.70 | 20.20 | 19.45 | 29.07 | 27.77 |

Note:

Depth to water measured in feet.

Water level measured from the top of PVC riser.

PUMPING TEST RECORD
Sterling Environmental Engineering, P.C.
24 Wade Road
Latham, New York 12110

| | | | |
|-----------------|-------------------------------|------------------------|-------------------------|
| Project | <u>Orange County Landfill</u> | Dates | <u>6/15/2017</u> |
| Location | <u>New Hampton, NY</u> | Pumping Well | <u>PZ-17-1</u> |
| Well No. | <u>PZ-17-2</u> | Measuring Point | <u>Top of PVC Riser</u> |

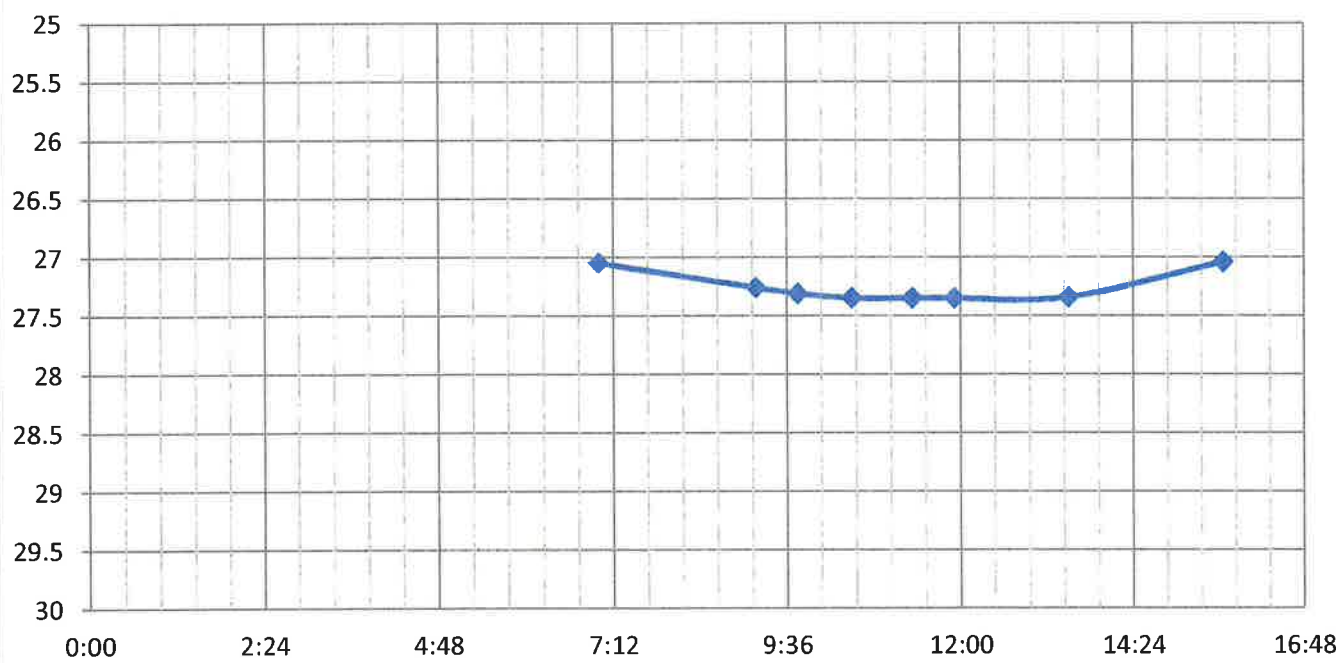
| Date | Time | Water Level (Feet) | Pumping Rate (GPM) | Remarks |
|-----------|-------|-----------------------|-----------------------|---------------------|
| 6/15/2017 | 8:30 | 20.08 | 0.0 | Before Pumping Test |
| 6/15/2017 | 8:38 | --- | 3.0 | Pump Test Start |
| 6/15/2017 | 8:42 | 20.4 | 2.0 | |
| 6/15/2017 | 8:46 | --- | 0.5 | |
| 6/15/2017 | 8:50 | 20.69 | 0.5 | |
| 6/15/2017 | 8:55 | 20.76 | 0.5 | |
| 6/15/2017 | 9:03 | 20.79 | 0.5 | |
| 6/15/2017 | 9:15 | 20.84 | 0.5 | |
| 6/15/2017 | 9:37 | 20.88 | 0.5 | |
| 6/15/2017 | 10:14 | 20.9 | 0.5 | |
| 6/15/2017 | 10:35 | 20.9 | 0.5 | |
| 6/15/2017 | 11:11 | 20.9 | 0.5 | |
| 6/15/2017 | 11:44 | 20.91 | 0.5 | |
| 6/15/2017 | 12:00 | 20.91 | 0.5 | |
| 6/15/2017 | 12:22 | 20.91 | 0.5 | |
| 6/15/2017 | 12:45 | 20.92 | 0.5 | |
| 6/15/2017 | 13:05 | --- | 0.0 | |
| 6/15/2017 | 13:13 | 20.91 | 0.0 | |
| 6/15/2017 | 14:08 | 20.36 | 0.0 | |
| 6/15/2017 | 14:43 | 20.21 | 0.0 | |
| 6/15/2017 | 15:32 | 20.28 | 0.0 | Transducer Stop |
| | | | | |
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PUMPING TEST RECORD
Sterling Environmental Engineering, P.C.
24 Wade Road
Latham, New York 12110

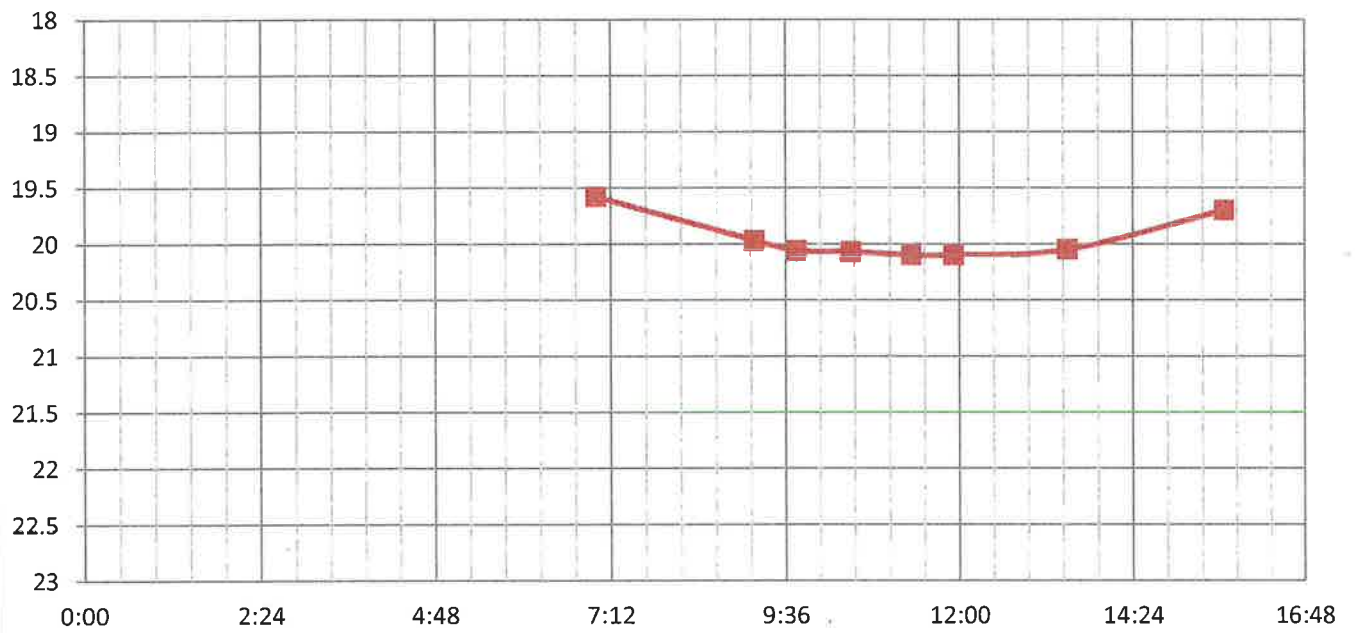
| | | | |
|-----------------|-------------------------------|------------------------|-------------------------|
| Project | <u>Orange County Landfill</u> | Dates | <u>6/15/2017</u> |
| Location | <u>New Hampton, NY</u> | Pumping Well | <u>PZ-17-1</u> |
| Well No. | <u>PZ-17-1</u> | Measuring Point | <u>Top of PVC Riser</u> |

| Date | Time | Water Level (Feet) | Pumping Rate (GPM) | Remarks |
|-----------|-------|-----------------------|-----------------------|---------------------|
| 6/15/2017 | 8:30 | 19.62 | 0.0 | Before Pumping Test |
| 6/15/2017 | 8:38 | --- | 3.0 | Pump Test Start |
| 6/15/2017 | 8:42 | 19.84 | 2.0 | |
| 6/15/2017 | 8:46 | --- | 0.5 | |
| 6/15/2017 | 8:50 | 20.2 | 0.5 | |
| 6/15/2017 | 8:55 | 20.33 | 0.5 | |
| 6/15/2017 | 9:03 | 20.43 | 0.5 | |
| 6/15/2017 | 9:15 | 20.5 | 0.5 | |
| 6/15/2017 | 9:37 | 20.6 | 0.5 | |
| 6/15/2017 | 10:14 | 20.65 | 0.5 | |
| 6/15/2017 | 10:35 | 20.72 | 0.5 | |
| 6/15/2017 | 11:13 | 20.74 | 0.5 | |
| 6/15/2017 | 11:45 | 20.75 | 0.5 | |
| 6/15/2017 | 12:01 | 20.74 | 0.5 | |
| 6/15/2017 | 12:21 | 20.73 | 0.5 | |
| 6/15/2017 | 12:45 | 20.69 | 0.5 | |
| 6/15/2017 | 13:05 | --- | 0.0 | |
| 6/15/2017 | 13:13 | 20.75 | 0.0 | |
| 6/15/2017 | 14:09 | 20.05 | 0.0 | |
| 6/15/2017 | 14:45 | 19.85 | 0.0 | |
| 6/15/2017 | 15:34 | 19.95 | 0.0 | Transducer Stop |
| | | | | |
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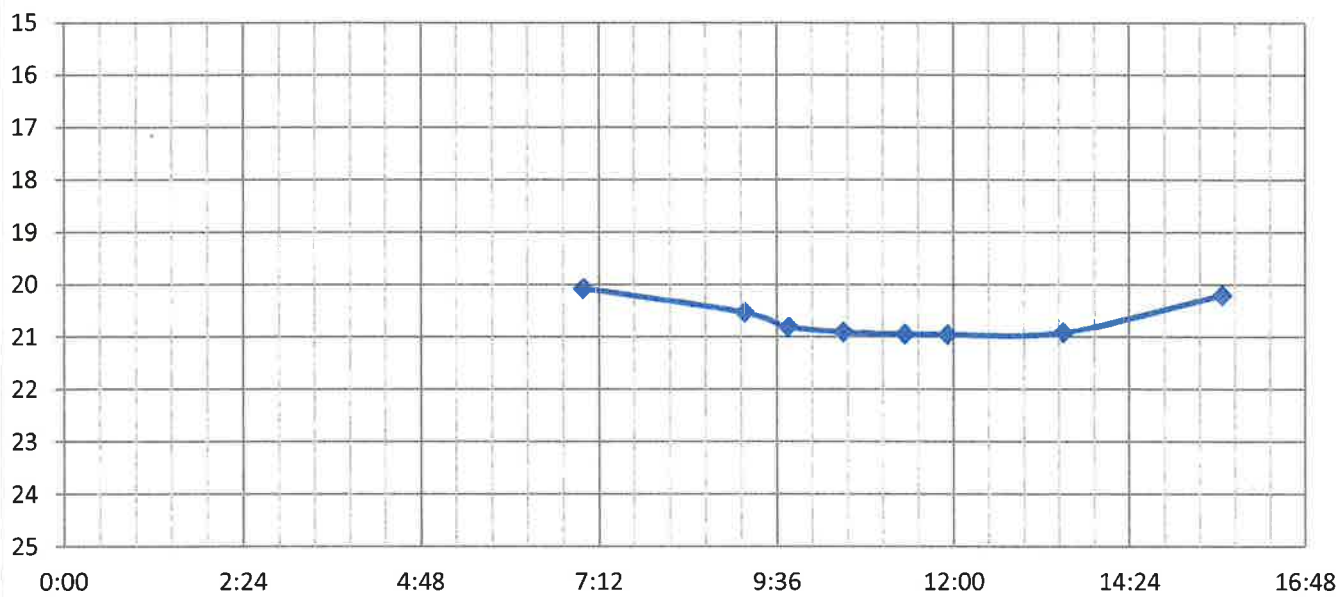
PZ-14-1



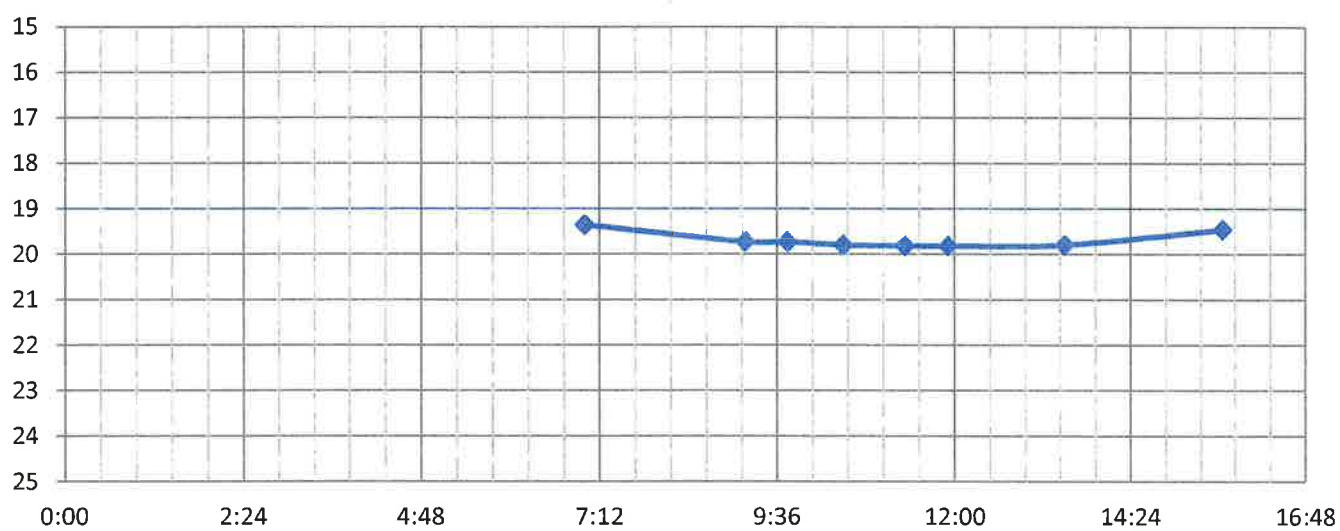
PZ-14-2



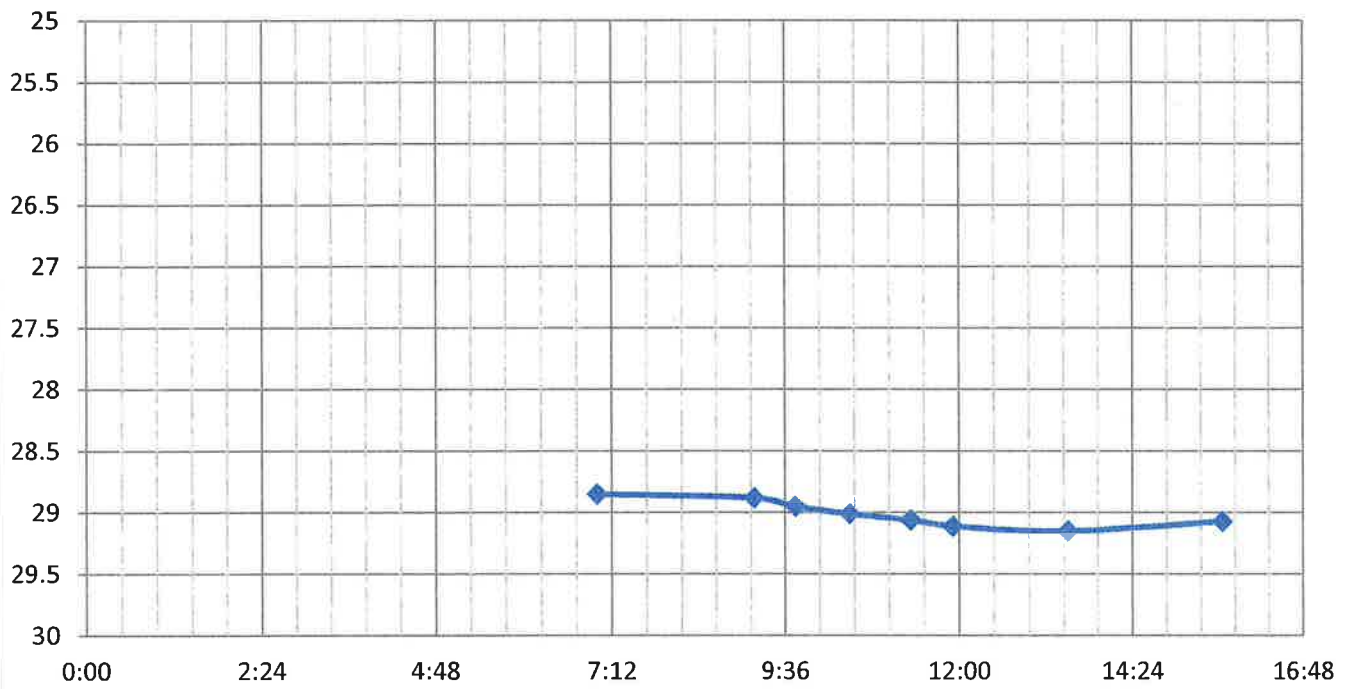
PZ-14-3



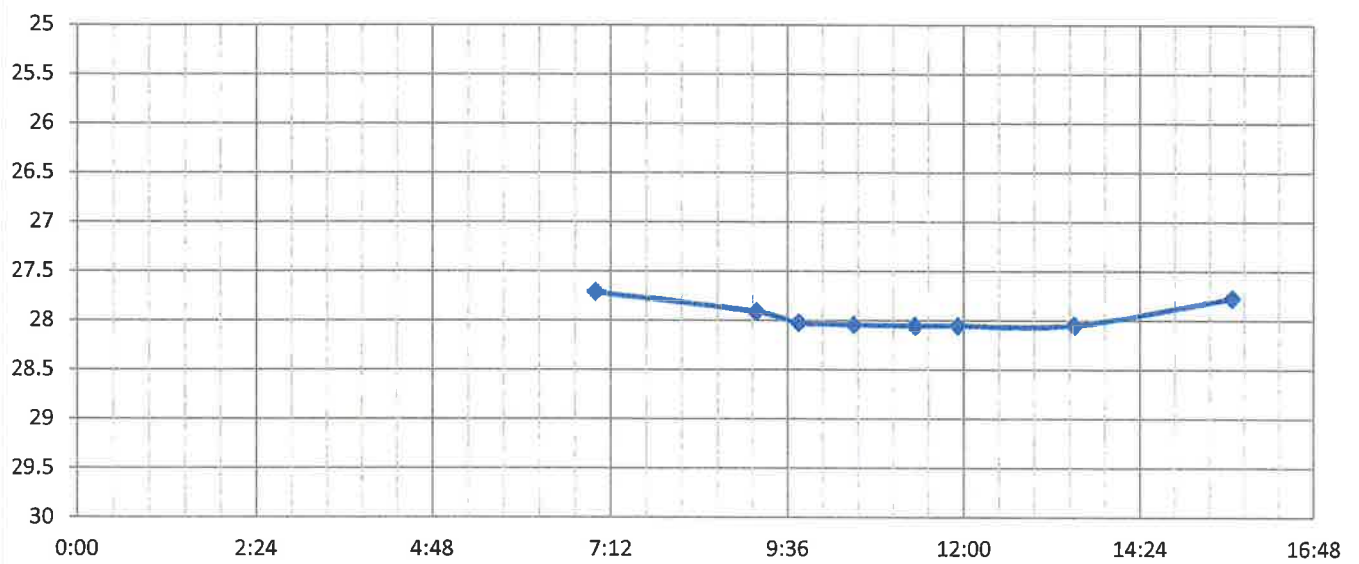
PZ-14-4



PZ-14-5



PZ-14-6



| 197 Minutes into pump (11:55AM) - Pump start at 8:38AM | | | | | | | 120 mins (RW-17-1 1.775' drawdown) | |
|--|--------------|--------------|------------------|----------------------|---------------|-------|------------------------------------|--|
| WL | MP Elevation | WL Elevation | Distance from RW | DTW Ele. before pump | Background WL | DTW | Drawdown | |
| RW-17-1 | 33.68 | 381.98 | 348.3 | 0 | 361.75 | 20.23 | 32.005 | |
| PZ-14-1 | 27.35 | 390.27 | 362.92 | 50.9 | 363.22 | 27.05 | 27.35 | |
| PZ-14-2 | 20.1 | 381.94 | 361.84 | 32.7 | 362.36 | 19.58 | 20.07 | |
| PZ-14-3 | 20.95 | 381.83 | 360.88 | 4.2 | 361.76 | 20.07 | 20.9 | |
| PZ-14-4 | 19.81 | 381.77 | 361.96 | 36.9 | 362.42 | 19.35 | 19.79 | |
| PZ-14-5 | 29.11 | 392.22 | 363.11 | 39.3 | 363.37 | 28.85 | 29.01 | |
| PZ-14-6 | 28.05 | 391.11 | 363.06 | 54.6 | 363.4 | 27.71 | 28.04 | |
| PZ-17-1 | 20.39 | 381.49 | 361.1 | 4.4 | 361.85 | 19.64 | 20.357 | |
| PZ-17-2 | 20.92 | 381.9 | 360.98 | 9.3 | 361.84 | 20.06 | 30.9 | |
| | | | | | | | 0.84 | |

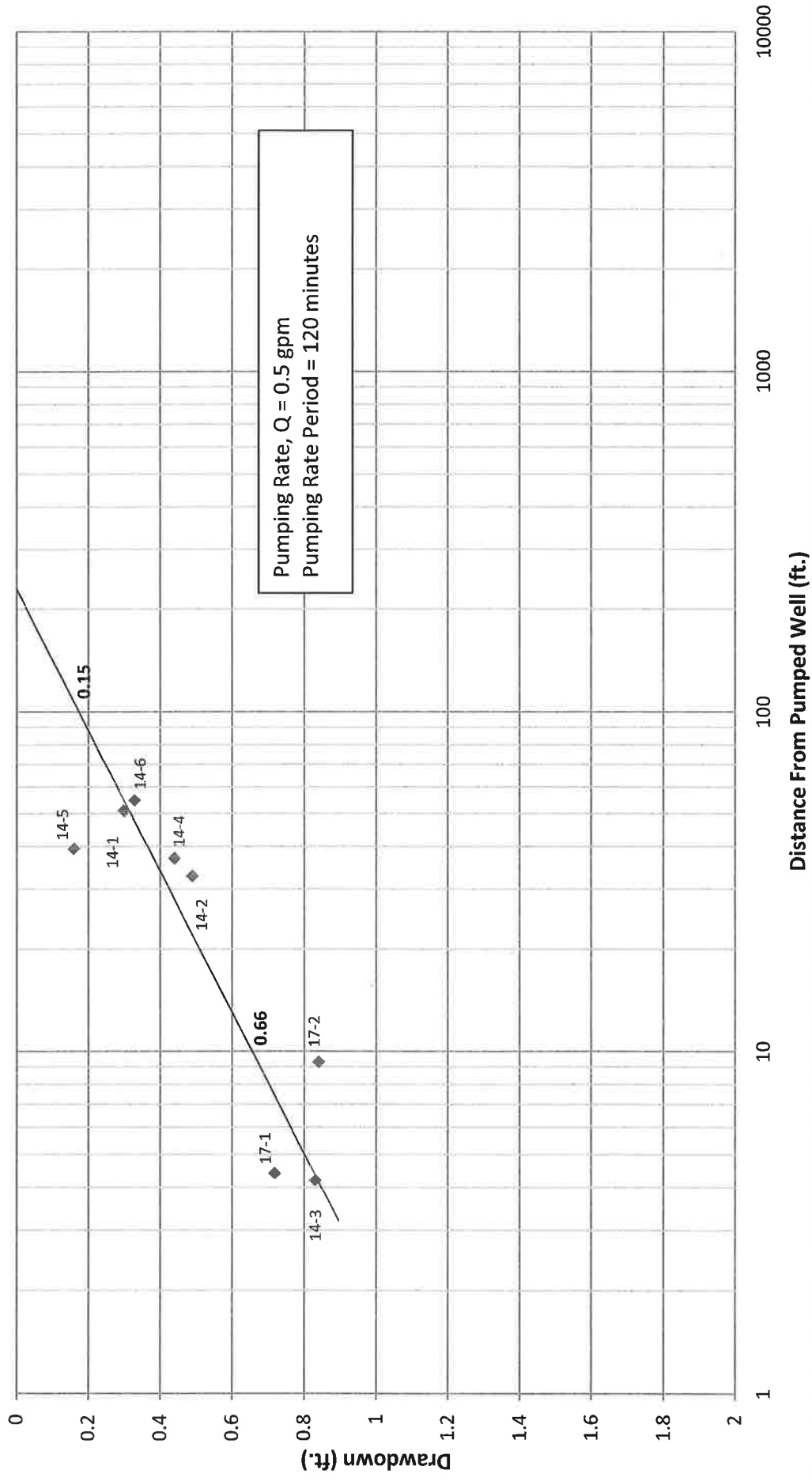
| Date | Time | PZ-14-1 | PZ-14-2 | PZ-14-3 | PZ-14-4 | PZ-14-5 | PZ-14-6 |
|-----------|-------|---------|---------|---------|---------|---------|---------|
| 6/15/2017 | 7:00 | 27.05 | 19.58 | 20.07 | 19.35 | 28.85 | 27.71 |
| 6/15/2017 | 9:10 | 27.26 | 19.97 | 20.53 | 19.72 | 28.88 | 27.91 |
| 6/15/2017 | 9:45 | 27.31 | 20.06 | 20.80 | 19.72 | 28.95 | 28.02 |
| 6/15/2017 | 10:30 | 27.35 | 20.07 | 20.90 | 19.79 | 29.01 | 28.04 |
| 6/15/2017 | 11:20 | 27.35 | 20.10 | 20.94 | 19.81 | 29.06 | 28.05 |
| 6/15/2017 | 11:55 | 27.35 | 20.10 | 20.95 | 19.81 | 29.11 | 28.05 |
| 6/15/2017 | 13:30 | 27.34 | 20.05 | 20.91 | 19.79 | 29.15 | 28.04 |
| 6/15/2017 | 15:40 | 27.04 | 19.70 | 20.20 | 19.45 | 29.07 | 27.77 |

Note:

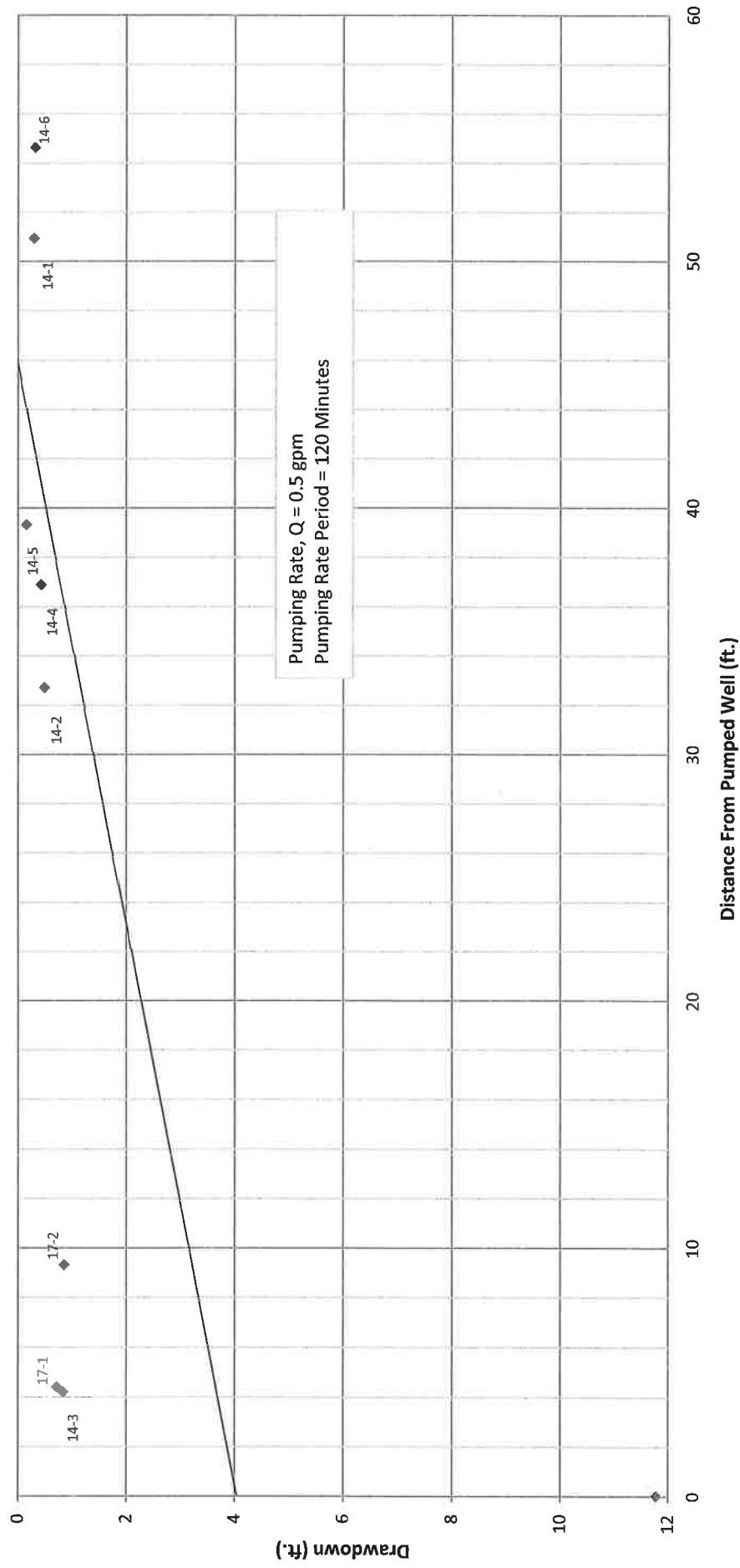
Water level measured in feet.

Water level measured from the top of PVC riser.

Distance - Drawdown Graph (RW-17-1 Pumping Test - Log)



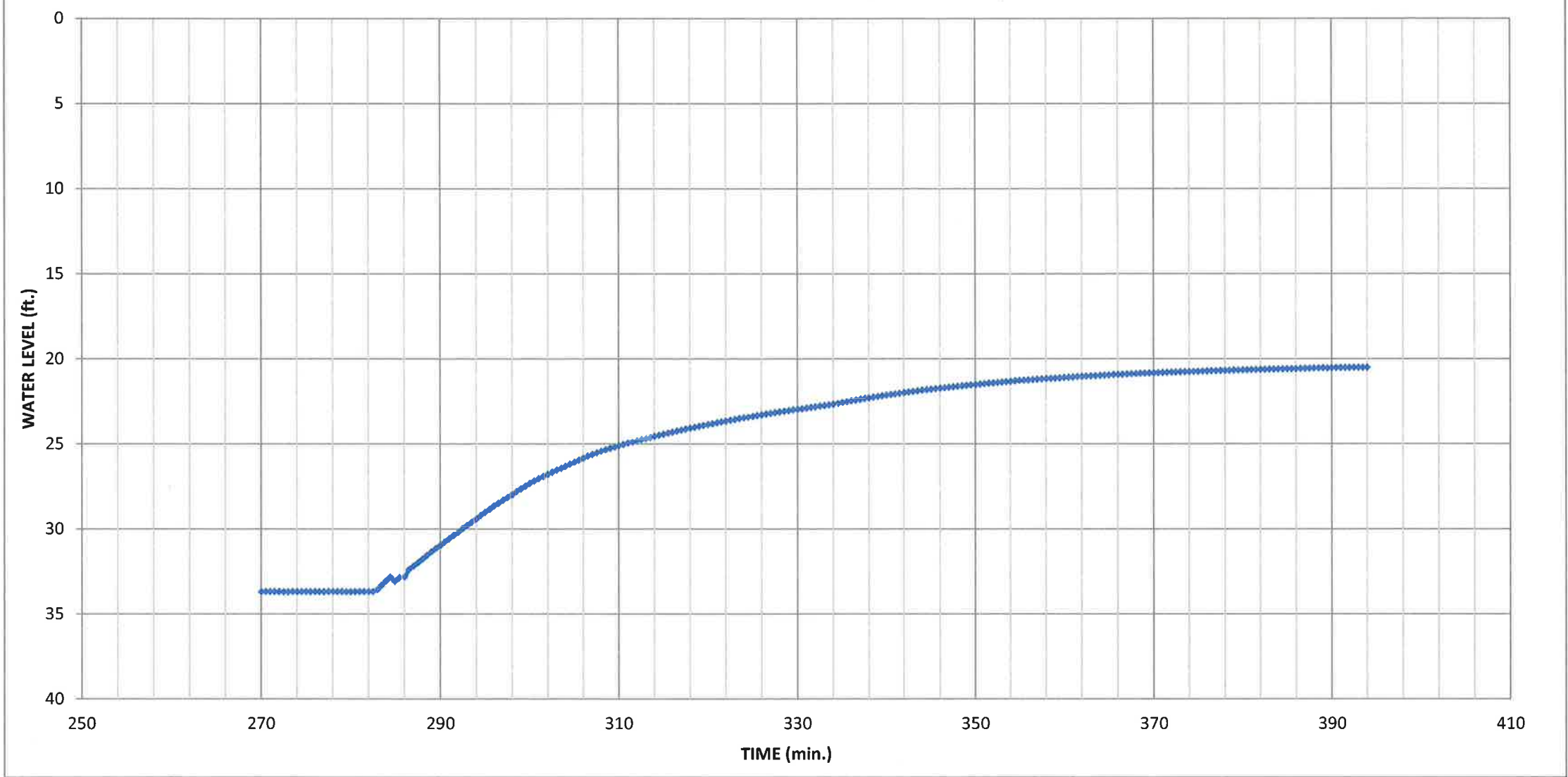
Distance - Drawdown Graph (RW-17-1 Pumping Test - Linear)



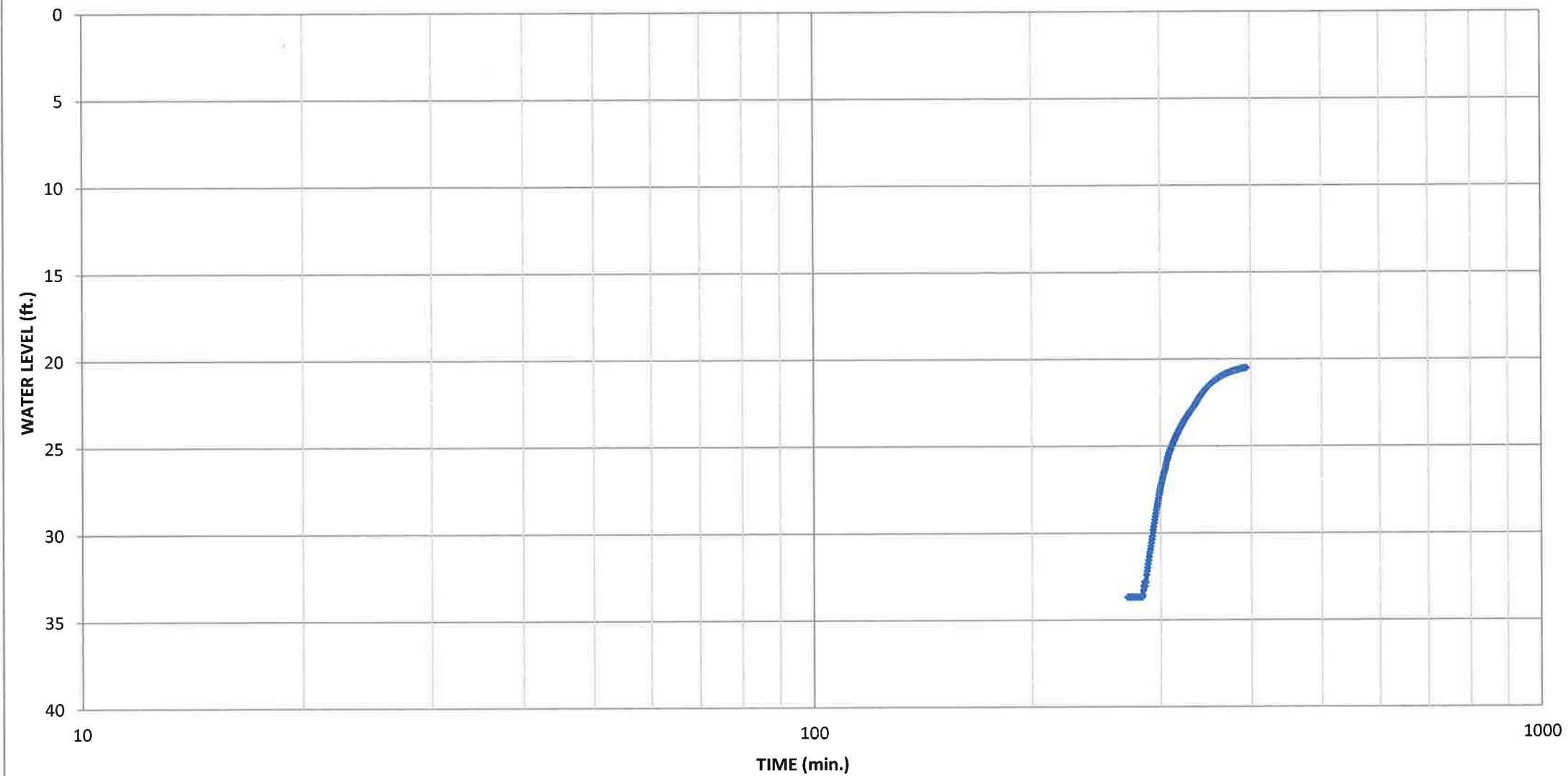
APPENDIX E

RECOVERY MONITORING DATA

RW-17-1 Recovery Data



RW-17-1 Recovery Data (Semi-Log)



APPENDIX F

ANALYTICAL REPORT – GROUNDWATER



ANALYTICAL REPORT

| | |
|-----------------|--|
| Lab Number: | L1720234 |
| Client: | Sterling Environmental Eng 24 Wade Road Latham, NY 12110 |
| ATTN: | Tom Johnson |
| Phone: | (518) 456-4900 |
| Project Name: | ORANGE COUNTY LANDFILL |
| Project Number: | 2010-15 |
| Report Date: | 06/23/17 |

The original project report/data package is held by Alpha Analytical. This report/data package is paginated and should be reproduced only in its entirety. Alpha Analytical holds no responsibility for results and/or data that are not consistent with the original.

Certifications & Approvals: MA (M-MA086), NH NELAP (2064), NJ NELAP (MA935), CT (PH-0574), IL (200077), ME (MA00086), MD (348), NY (11148), NC (25700/666), PA (68-03671), RI (LAO00065), TX (T104704476), VT (VT-0935), VA (460195), USDA (Permit #P330-14-00197).

Eight Walkup Drive, Westborough, MA 01581-1019
508-898-9220 (Fax) 508-898-9193 800-624-9220 - www.alphalab.com



Serial_No:06231715:09

Project Name: ORANGE COUNTY LANDFILL
Project Number: 2010-15

Lab Number: L1720234
Report Date: 06/23/17

| Alpha Sample ID | Client ID | Matrix | Sample Location | Collection Date/Time | Receive Date |
|----------------------------|-------------------|---------------|----------------------------|---------------------------------|---------------------|
| L1720234-01 | RW-17-1 (1.5 HR.) | WATER | NY | 06/15/17 10:00 | 06/15/17 |
| L1720234-02 | RW-17-1 (END) | WATER | NY | 06/15/17 13:00 | 06/15/17 |

Project Name: ORANGE COUNTY LANDFILL
Project Number: 2010-15

Lab Number: L1720234
Report Date: 06/23/17

Case Narrative

The samples were received in accordance with the Chain of Custody and no significant deviations were encountered during the preparation or analysis unless otherwise noted. Sample Receipt, Container Information, and the Chain of Custody are located at the back of the report.

Results contained within this report relate only to the samples submitted under this Alpha Lab Number and meet NELAP requirements for all NELAP accredited parameters unless otherwise noted in the following narrative. The data presented in this report is organized by parameter (i.e. VOC, SVOC, etc.). Sample specific Quality Control data (i.e. Surrogate Spike Recovery) is reported at the end of the target analyte list for each individual sample, followed by the Laboratory Batch Quality Control at the end of each parameter. Tentatively Identified Compounds (TICs), if requested, are reported for compounds identified to be present and are not part of the method/program Target Compound List, even if only a subset of the TCL are being reported. If a sample was re-analyzed or re-extracted due to a required quality control corrective action and if both sets of data are reported, the Laboratory ID of the re-analysis or re-extraction is designated with an "R" or "RE", respectively. When multiple Batch Quality Control elements are reported (e.g. more than one LCS), the associated samples for each element are noted in the grey shaded header line of each data table. Any Laboratory Batch, Sample Specific % recovery or RPD value that is outside the listed Acceptance Criteria is bolded in the report. All specific QC information is also incorporated in the Data Usability format of our Data Merger tool where it can be reviewed along with any associated usability implications. Soil/sediments, solids and tissues are reported on a dry weight basis unless otherwise noted. Definitions of all data qualifiers and acronyms used in this report are provided in the Glossary located at the back of the report.

In reference to questions H (CAM) or 4 (RCP) when "NO" is checked, the performance criteria for CAM and RCP methods allow for some quality control failures to occur and still be within method compliance. In these instances the specific failure is not narrated but noted in the associated QC table. The information is also incorporated in the Data Usability format of our Data Merger tool where it can be reviewed along with any associated usability implications.

Please see the associated ADEx data file for a comparison of laboratory reporting limits that were achieved with the regulatory Numerical Standards requested on the Chain of Custody.

HOLD POLICY

For samples submitted on hold, Alpha's policy is to hold samples (with the exception of Air canisters) free of charge for 21 calendar days from the date the project is completed. After 21 calendar days, we will dispose of all samples submitted including those put on hold unless you have contacted your Client Service Representative and made arrangements for Alpha to continue to hold the samples. Air canisters will be disposed after 3 business days from the date the project is completed.

Please contact Client Services at 800-624-9220 with any questions.

Project Name: ORANGE COUNTY LANDFILL
Project Number: 2010-15

Lab Number: L1720234
Report Date: 06/23/17

Case Narrative (continued)

Report Submission

All non-detect (ND) or estimated concentrations (J-qualified) have been quantitated to the limit noted in the MDL column.

Metals

The WG1015687-3 MS recovery for hardness (222%), performed on L1720234-01, does not apply because the sample concentration is greater than four times the spike amount added.

Dissolved Oxygen

L1720234-01 and -02 were analyzed with the method required holding time exceeded.

I, the undersigned, attest under the pains and penalties of perjury that, to the best of my knowledge and belief and based upon my personal inquiry of those responsible for providing the information contained in this analytical report, such information is accurate and complete. This certificate of analysis is not complete unless this page accompanies any and all pages of this report.

Authorized Signature:



Kara Lindquist

Title: Technical Director/Representative

Date: 06/23/17

METALS

Project Name: ORANGE COUNTY LANDFILL**Lab Number:** L1720234**Project Number:** 2010-15**Report Date:** 06/23/17**SAMPLE RESULTS****Lab ID:** L1720234-01**Date Collected:** 06/15/17 10:00**Client ID:** RW-17-1 (1.5 HR.)**Date Received:** 06/15/17**Sample Location:** NY**Field Prep:** Not Specified**Matrix:** Water

| Parameter | Result | Qualifier | Units | RL | MDL | Dilution Factor | Date Prepared | Date Analyzed | Prep Method | Analytical Method | Analyst |
|--|--------|-----------|-------|-------|-----|--------------------|------------------|------------------|----------------|----------------------|---------|
| Total Hardness by SM 2340B - Mansfield Lab | | | | | | | | | | | |
| Hardness | 514 | | mg/l | 0.660 | NA | 1 | 06/22/17 06:45 | 06/22/17 13:19 | EPA 3005A | 1,6010C | PS |



Project Name: ORANGE COUNTY LANDFILL**Lab Number:** L1720234**Project Number:** 2010-15**Report Date:** 06/23/17**SAMPLE RESULTS****Lab ID:** L1720234-02**Date Collected:** 06/15/17 13:00**Client ID:** RW-17-1 (END)**Date Received:** 06/15/17**Sample Location:** NY**Field Prep:** Not Specified**Matrix:** Water

| Parameter | Result | Qualifier | Units | RL | MDL | Dilution Factor | Date Prepared | Date Analyzed | Prep Method | Analytical Method | Analyst |
|--|--------|-----------|-------|-------|-----|--------------------|------------------|------------------|----------------|----------------------|---------|
| Total Hardness by SM 2340B - Mansfield Lab | | | | | | | | | | | |
| Hardness | 478 | | mg/l | 0.660 | NA | 1 | 06/20/17 17:20 | 06/22/17 13:03 | EPA 3005A | 1,6010C | AM |



Project Name: ORANGE COUNTY LANDFILL

Lab Number: L1720234

Project Number: 2010-15

Report Date: 06/23/17

Method Blank Analysis Batch Quality Control

| Parameter | Result | Qualifier | Units | RL | MDL | Dilution Factor | Date Prepared | Date Analyzed | Analytical Method | Analyst |
|---|--------|-----------|-------|-------|-----|--------------------|------------------|------------------|----------------------|---------|
| Total Hardness by SM 2340B - Mansfield Lab for sample(s): 02 Batch: WG1015050-1 | | | | | | | | | | |
| Hardness | ND | | mg/l | 0.660 | NA | 1 | 06/20/17 17:20 | 06/22/17 12:27 | 1,6010C | AM |

Prep Information

Digestion Method: EPA 3005A

| Parameter | Result | Qualifier | Units | RL | MDL | Dilution Factor | Date Prepared | Date Analyzed | Analytical Method | Analyst |
|---|--------|-----------|-------|-------|-----|--------------------|------------------|------------------|----------------------|---------|
| Total Hardness by SM 2340B - Mansfield Lab for sample(s): 01 Batch: WG1015687-1 | | | | | | | | | | |
| Hardness | ND | | mg/l | 0.660 | NA | 1 | 06/22/17 06:45 | 06/22/17 13:15 | 1,6010C | PS |

Prep Information

Digestion Method: EPA 3005A



Serial_No:06231715:09

Lab Control Sample Analysis
Batch Quality Control

Project Name: ORANGE COUNTY LANDFILL
Project Number: 2010-15

Lab Number: L1720234
Report Date: 06/23/17

| Parameter | LCS %Recovery | Qual | LCSD %Recovery | Qual | %Recovery Limits | RPD | Qual | RPD Limits |
|--|------------------|------|-------------------|------|---------------------|-----|------|------------|
| Total Hardness by SM 2340B - Mansfield Lab Associated sample(s): 02 Batch: WG1015050-2 | | | | | | | | |
| Hardness | 101 | | - | | 80-120 | - | | |
| Total Hardness by SM 2340B - Mansfield Lab Associated sample(s): 01 Batch: WG1015687-2 | | | | | | | | |
| Hardness | 106 | | - | | 80-120 | - | | |

Serial_No:06231715:09

**Matrix Spike Analysis
Batch Quality Control**

Project Name: ORANGE COUNTY LANDFILL
Project Number: 2010-15

Lab Number: L1720234
Report Date: 06/23/17

| Parameter | Native Sample | MS Added | MS Found | MS %Recovery | Qual | MSD Found | MSD %Recovery | Qual | Recovery Limits | RPD | Qual | RPD Limits |
|--|---------------|----------|----------|--------------|------|-----------|---------------|------|-----------------|-----|------|------------|
| Total Hardness by SM 2340B - Mansfield Lab Associated sample(s): 02 QC Batch ID: WG1915050-3 QC Sample: L1720400-01 Client ID: MS Sample | | | | | | | | | | | | |
| Hardness | 236. | 66.2 | 291 | 83 | | - | - | | 75-125 | - | | 20 |
| Total Hardness by SM 2340B - Mansfield Lab Associated sample(s): 01 QC Batch ID: WG1015687-3 QC Sample: L1720234-01 Client ID: RW-17-1 (1.5 HR.) | | | | | | | | | | | | |
| Hardness | 514. | 66.2 | 661 | 222 | Q | - | - | | 75-125 | - | | 20 |

Serial_No:06231715:09

Project Name: ORANGE COUNTY LANDFILL
Project Number: 2010-15

Lab Duplicate Analysis
Batch Quality Control

Lab Number: L1720234
Report Date: 06/23/17

| Parameter | Native Sample | Duplicate Sample | Units | RPD | Qual | RPD Limits |
|--|---------------|------------------|-------|-----|------|------------|
| Total Hardness by SM 2340B - Mansfield Lab Associated sample(s): 02 QC Batch ID: WG1015050-4 QC Sample: L1720400-01 Client ID: DUP Sample | | | | | | |
| Hardness | 236. | 236 | mg/l | 0. | | 20 |
| Total Hardness by SM 2340B - Mansfield Lab Associated sample(s): 01 QC Batch ID: WG1015687-4 QC Sample: L1720234-01 Client ID: RW-17-1 (1.5 HR.) | | | | | | |
| Hardness | 514. | 552 | mg/l | 7. | | 20 |

INORGANICS & MISCELLANEOUS

Project Name: ORANGE COUNTY LANDFILL

Lab Number: L1720234

Project Number: 2010-15

Report Date: 06/23/17

SAMPLE RESULTS

Lab ID: L1720234-01
 Client ID: RW-17-1 (1.5 HR.)
 Sample Location: NY
 Matrix: Water

Date Collected: 06/15/17 10:00
 Date Received: 06/15/17
 Field Prep: Not Specified

| Parameter | Result | Qualifier | Units | RL | MDL | Dilution Factor | Date Prepared | Date Analyzed | Analytical Method | Analyst |
|--|--------|-----------|------------|-------|-------|-----------------|----------------|----------------|-------------------|---------|
| General Chemistry - Westborough Lab | | | | | | | | | | |
| Turbidity | 21 | | NTU | 0.20 | 0.20 | 1 | - | 06/16/17 05:17 | 44,180.1 | KA |
| Color, Apparent | 52 | | A.P.C.U. | 10 | 10. | 2 | - | 06/16/17 08:55 | 121,2120B | KA |
| Alkalinity, Total | 555. | | mg CaCO3/L | 2.00 | NA | 1 | - | 06/16/17 20:51 | 121,2320B | MR |
| Specific Conductance @ 25 C | 1100 | | umhos/cm | 10 | 10. | 1 | - | 06/16/17 03:08 | 1,9050A | VB |
| Solids, Total Dissolved | 680 | | mg/l | 10 | 3.1 | 1 | - | 06/20/17 12:30 | 121,2540C | DW |
| Cyanide, Total | ND | | mg/l | 0.005 | 0.001 | 1 | 06/17/17 12:03 | 06/19/17 15:29 | 1,9010C/9012B | LK |
| pH (H) | 6.9 | | SU | - | NA | 1 | - | 06/16/17 09:25 | 1,9040C | VB |
| Nitrogen, Ammonia | 4.55 | | mg/l | 0.075 | 0.022 | 1 | 06/17/17 15:22 | 06/19/17 22:42 | 121,4500NH3-BH | AT |
| Nitrogen, Nitrite | ND | | mg/l | 0.050 | 0.010 | 1 | - | 06/16/17 22:14 | 44,353.2 | MR |
| Nitrogen, Total Kjeldahl | 4.74 | | mg/l | 0.300 | 0.066 | 1 | 06/20/17 17:39 | 06/20/17 20:43 | 4,351.3/.1 (M) | AT |
| Dissolved Oxygen | 2.8 | | mg/l | 0.10 | 0.10 | 1 | - | 06/16/17 17:10 | 121,4500O-C | WR |
| Chemical Oxygen Demand | 13. | | mg/l | 10 | 2.7 | 1 | 06/19/17 22:30 | 06/20/17 00:52 | 44,410.4 | TL |
| BOD, 5 day | ND | | mg/l | 2.0 | NA | 1 | 06/17/17 00:05 | 06/21/17 18:08 | 121,5210B | CW |
| Total Organic Carbon | 3.04 | | mg/l | 0.500 | 0.114 | 1 | - | 06/16/17 07:51 | 121,5310C | DW |
| Phenolics, Total | ND | | mg/l | 0.030 | 0.004 | 1 | 06/19/17 11:22 | 06/19/17 14:58 | 4,420.1 | AW |
| Chromium, Hexavalent | ND | | mg/l | 0.010 | 0.003 | 1 | 06/16/17 04:00 | 06/16/17 04:13 | 1,7196A | KA |
| Oxidation/Reduction Potential | 200 | | mv | - | NA | 1 | - | 06/16/17 08:39 | 12,1498 | VB |
| Anions by Ion Chromatography - Westborough Lab | | | | | | | | | | |
| Bromide | 0.327 | | mg/l | 0.050 | 0.009 | 1 | - | 06/18/17 19:22 | 44,300.0 | JC |
| Chloride | 60.8 | | mg/l | 25.0 | 4.20 | 50 | - | 06/18/17 02:43 | 44,300.0 | JC |
| Sulfate | 29.5 | | mg/l | 1.00 | 0.160 | 1 | - | 06/18/17 19:22 | 44,300.0 | JC |



Project Name: ORANGE COUNTY LANDFILL

Lab Number: L1720234

Project Number: 2010-15

Report Date: 06/23/17

SAMPLE RESULTS

Lab ID: L1720234-02

Date Collected: 06/15/17 13:00

Client ID: RW-17-1 (END)

Date Received: 06/15/17

Sample Location: NY

Field Prep: Not Specified

Matrix: Water

| Parameter | Result | Qualifier | Units | RL | MDL | Dilution Factor | Date Prepared | Date Analyzed | Analytical Method | Analyst |
|---|--------|-----------|------------|-------|-------|-----------------|----------------|----------------|-------------------|---------|
| General Chemistry - Westborough Lab | | | | | | | | | | |
| Turbidity | 26 | | NTU | 0.20 | 0.20 | 1 | - | 06/16/17 05:17 | 44,180.1 | KA |
| Color, Apparent | 76 | | A.P.C.U. | 10 | 10. | 2 | - | 06/16/17 08:55 | 121,2120B | KA |
| Alkalinity, Total | 537. | | mg CaCO3/L | 2.00 | NA | 1 | - | 06/16/17 20:51 | 121,2320B | MR |
| Specific Conductance @ 25 C | 1100 | | umhos/cm | 10 | 10. | 1 | - | 06/16/17 03:08 | 1,9050A | VB |
| Solids, Total Dissolved | 650 | | mg/l | 10 | 3.1 | 1 | - | 06/20/17 12:30 | 121,2540C | DW |
| Cyanide, Total | ND | | mg/l | 0.005 | 0.001 | 1 | 06/17/17 12:03 | 06/19/17 15:33 | 1,9010C/9012B | LK |
| pH (H) | 6.9 | | SU | - | NA | 1 | - | 06/16/17 09:25 | 1,9040C | VB |
| Nitrogen, Ammonia | 4.70 | | mg/l | 0.075 | 0.022 | 1 | 06/19/17 20:30 | 06/20/17 21:17 | 121,4500NH3-BH | AT |
| Nitrogen, Nitrite | ND | | mg/l | 0.050 | 0.010 | 1 | - | 06/16/17 22:15 | 44,353.2 | MR |
| Nitrogen, Total Kjeldahl | 5.62 | | mg/l | 0.300 | 0.066 | 1 | 06/20/17 17:39 | 06/20/17 20:44 | 4,351.3/1 (M) | AT |
| Dissolved Oxygen | 4.2 | | mg/l | 0.10 | 0.10 | 1 | - | 06/16/17 17:10 | 121,4500O-C | WR |
| Chemical Oxygen Demand | 8.7 | J | mg/l | 10 | 2.7 | 1 | 06/19/17 22:30 | 06/20/17 00:53 | 44,410.4 | TL |
| BOD, 5 day | ND | | mg/l | 2.0 | NA | 1 | 06/17/17 00:05 | 06/21/17 18:08 | 121,5210B | CW |
| Total Organic Carbon | 3.16 | | mg/l | 0.500 | 0.114 | 1 | - | 06/16/17 07:51 | 121,5310C | DW |
| Phenolics, Total | ND | | mg/l | 0.030 | 0.004 | 1 | 06/19/17 11:22 | 06/19/17 14:59 | 4,420.1 | AW |
| Chromium, Hexavalent | ND | | mg/l | 0.010 | 0.003 | 1 | 06/16/17 04:00 | 06/16/17 04:15 | 1,7196A | KA |
| Oxidation/Reduction Potential | 190 | | mv | - | NA | 1 | - | 06/16/17 08:39 | 12,1498 | VB |
| Anions by Ion Chromatography - Westborough Lab | | | | | | | | | | |
| Bromide | 0.329 | | mg/l | 0.050 | 0.009 | 1 | - | 06/18/17 19:34 | 44,300.0 | JC |
| Chloride | 59.9 | | mg/l | 25.0 | 4.20 | 50 | - | 06/18/17 02:55 | 44,300.0 | JC |
| Sulfate | 26.4 | | mg/l | 1.00 | 0.160 | 1 | - | 06/18/17 19:34 | 44,300.0 | JC |



Project Name: ORANGE COUNTY LANDFILL

Lab Number: L1720234

Project Number: 2010-15

Report Date: 06/23/17

Method Blank Analysis Batch Quality Control

| Parameter | Result | Qualifier | Units | RL | MDL | Dilution Factor | Date Prepared | Date Analyzed | Analytical Method | Analyst |
|--|--------|-----------|------------|-------|-------|--------------------|------------------|------------------|----------------------|---------|
| General Chemistry - Westborough Lab for sample(s): 01-02 Batch: WG1013757-1 | | | | | | | | | | |
| Chromium, Hexavalent | ND | | mg/l | 0.010 | 0.003 | 1 | 06/16/17 04:00 | 06/16/17 04:12 | 1,7196A | KA |
| General Chemistry - Westborough Lab for sample(s): 01-02 Batch: WG1013778-1 | | | | | | | | | | |
| Turbidity | ND | | NTU | 0.20 | 0.20 | 1 | - | 06/16/17 05:17 | 44,180.1 | KA |
| General Chemistry - Westborough Lab for sample(s): 01-02 Batch: WG1013837-1 | | | | | | | | | | |
| Total Organic Carbon | ND | | mg/l | 0.500 | 0.114 | 1 | - | 06/16/17 07:51 | 121,5310C | DW |
| General Chemistry - Westborough Lab for sample(s): 01-02 Batch: WG1014043-1 | | | | | | | | | | |
| Nitrogen, Nitrite | ND | | mg/l | 0.050 | 0.010 | 1 | - | 06/16/17 21:40 | 44,353.2 | MR |
| General Chemistry - Westborough Lab for sample(s): 01-02 Batch: WG1014055-1 | | | | | | | | | | |
| BOD, 5 day | ND | | mg/l | 2.0 | NA | 1 | 06/17/17 00:05 | 06/21/17 18:08 | 121,5210B | CW |
| General Chemistry - Westborough Lab for sample(s): 01-02 Batch: WG1014073-1 | | | | | | | | | | |
| Alkalinity, Total | ND | | mg CaCO3/L | 2.00 | NA | 1 | - | 06/16/17 20:51 | 121,2320B | MR |
| General Chemistry - Westborough Lab for sample(s): 01-02 Batch: WG1014214-1 | | | | | | | | | | |
| Cyanide, Total | ND | | mg/l | 0.005 | 0.001 | 1 | 06/17/17 12:03 | 06/19/17 14:57 | 1,9010C/9012B | LK |
| General Chemistry - Westborough Lab for sample(s): 01 Batch: WG1014240-1 | | | | | | | | | | |
| Nitrogen, Ammonia | ND | | mg/l | 0.075 | 0.022 | 1 | 06/17/17 15:22 | 06/19/17 22:18 | 121,4500NH3-BH | AT |
| General Chemistry - Westborough Lab for sample(s): 01-02 Batch: WG1014536-1 | | | | | | | | | | |
| Phenolics, Total | ND | | mg/l | 0.030 | 0.004 | 1 | 06/19/17 11:22 | 06/19/17 15:44 | 4,420.1 | AW |
| Anions by Ion Chromatography - Westborough Lab for sample(s): 01-02 Batch: WG1014634-1 | | | | | | | | | | |
| Chloride | ND | | mg/l | 0.500 | 0.083 | 1 | - | 06/17/17 20:43 | 44,300.0 | JC |
| Sulfate | ND | | mg/l | 1.00 | 0.160 | 1 | - | 06/17/17 20:43 | 44,300.0 | JC |
| Anions by Ion Chromatography - Westborough Lab for sample(s): 01-02 Batch: WG1014634-1 | | | | | | | | | | |
| Bromide | ND | | mg/l | 0.050 | 0.009 | 1 | - | 06/17/17 20:43 | 44,300.0 | JC |
| Anions by Ion Chromatography - Westborough Lab for sample(s): 01-02 Batch: WG1014655-1 | | | | | | | | | | |
| Bromide | ND | | mg/l | 0.050 | 0.009 | 1 | - | 06/18/17 17:58 | 44,300.0 | ED |
| Chloride | ND | | mg/l | 0.500 | 0.083 | 1 | - | 06/18/17 17:58 | 44,300.0 | ED |
| Sulfate | ND | | mg/l | 1.00 | 0.160 | 1 | - | 06/18/17 17:58 | 44,300.0 | ED |
| General Chemistry - Westborough Lab for sample(s): 02 Batch: WG1014697-1 | | | | | | | | | | |
| Nitrogen, Ammonia | ND | | mg/l | 0.075 | 0.022 | 1 | 06/19/17 20:30 | 06/20/17 21:13 | 121,4500NH3-BH | AT |



Project Name: ORANGE COUNTY LANDFILL

Lab Number: L1720234

Project Number: 2010-15

Report Date: 06/23/17

Method Blank Analysis Batch Quality Control

| Parameter | Result | Qualifier | Units | RL | MDL | Dilution Factor | Date Prepared | Date Analyzed | Analytical Method | Analyst |
|---|--------|-----------|-------|-------|-------|--------------------|------------------|------------------|----------------------|---------|
| General Chemistry - Westborough Lab for sample(s): 01-02 Batch: WG1014720-1 | | | | | | | | | | |
| Chemical Oxygen Demand | ND | | mg/l | 10 | 2.7 | 1 | 06/19/17 22:30 | 06/20/17 00:49 | 44,410.4 | TL |
| General Chemistry - Westborough Lab for sample(s): 01-02 Batch: WG1014803-1 | | | | | | | | | | |
| Solids, Total Dissolved | ND | | mg/l | 10 | 3.1 | 1 | - | 06/20/17 12:30 | 121,2540C | DW |
| General Chemistry - Westborough Lab for sample(s): 01-02 Batch: WG1014871-1 | | | | | | | | | | |
| Nitrogen, Total Kjeldahl | ND | | mg/l | 0.300 | 0.022 | 1 | 06/20/17 17:39 | 06/20/17 20:41 | 4,351.3/.1 (M) | AT |



Serial_No:06231715:09

Lab Control Sample Analysis Batch Quality Control

Project Name: ORANGE COUNTY LANDFILL
Project Number: 2010-15

Lab Number: L1720234
Report Date: 06/23/17

| Parameter | LCS %Recovery | Qual | LCSD %Recovery | Qual | %Recovery Limits | RPD | Qual | RPD Limits |
|--|------------------|------|-------------------|------|---------------------|-----|------|------------|
| General Chemistry - Westborough Lab Associated sample(s): 01-02 Batch: WG1013757-2 | | | | | | | | |
| Chromium, Hexavalent | 96 | | - | | 85-115 | - | | 20 |
| General Chemistry - Westborough Lab Associated sample(s): 01-02 Batch: WG1013762-1 | | | | | | | | |
| Specific Conductance | 101 | | - | | 99-101 | - | | |
| General Chemistry - Westborough Lab Associated sample(s): 01-02 Batch: WG1013778-2 | | | | | | | | |
| Turbidity | 105 | | - | | 90-110 | - | | |
| General Chemistry - Westborough Lab Associated sample(s): 01-02 Batch: WG1013837-2 | | | | | | | | |
| Total Organic Carbon | 95 | | - | | 90-110 | - | | |
| General Chemistry - Westborough Lab Associated sample(s): 01-02 Batch: WG1013886-1 | | | | | | | | |
| Oxidation/Reduction Potential | 101 | | - | | 90-110 | - | | 20 |
| General Chemistry - Westborough Lab Associated sample(s): 01-02 Batch: WG1013898-1 | | | | | | | | |
| pH | 100 | | - | | 99-101 | - | | 5 |
| General Chemistry - Westborough Lab Associated sample(s): 01-02 Batch: WG1014043-2 | | | | | | | | |
| Nitrogen, Nitrite | 100 | | - | | 90-110 | - | | 20 |

Serial_No:06231715:09

Lab Control Sample Analysis Batch Quality Control

Project Name: ORANGE COUNTY LANDFILL
Project Number: 2010-15

Lab Number: L1720234
Report Date: 06/23/17

| Parameter | LCS %Recovery | LCSD %Recovery | %Recovery Limits | RPD | RPD Limits |
|--|------------------|-------------------|---------------------|-----|------------|
| General Chemistry - Westborough Lab Associated sample(s): 01-02 Batch: WG1014055-2 | | | | | |
| BOD, 5 day | 86 | - | 85-115 | - | 20 |
| General Chemistry - Westborough Lab Associated sample(s): 01-02 Batch: WG1014073-2 | | | | | |
| Alkalinity, Total | 105 | - | 90-110 | - | 10 |
| General Chemistry - Westborough Lab Associated sample(s): 01-02 Batch: WG1014214-2 WG1014214-3 | | | | | |
| Cyanide, Total | 99 | 96 | 85-115 | 3 | 20 |
| General Chemistry - Westborough Lab Associated sample(s): 01 Batch: WG1014240-2 | | | | | |
| Nitrogen, Ammonia | 100 | - | 80-120 | - | 20 |
| General Chemistry - Westborough Lab Associated sample(s): 01-02 Batch: WG1014636-2 | | | | | |
| Phenolics, Total | 91 | - | 70-130 | - | |
| Anions by Ion Chromatography - Westborough Lab Associated sample(s): 01-02 Batch: WG1014634-2 | | | | | |
| Bromide | 92 | - | 90-110 | - | |
| Chloride | 96 | - | 90-110 | - | |
| Sulfate | 98 | - | 90-110 | - | |

Serial_No:06231715:09

Lab Control Sample Analysis Batch Quality Control

Project Name: ORANGE COUNTY LANDFILL
Project Number: 2010-15

Lab Number: L1720234
Report Date: 06/23/17

| Parameter | LCS %Recovery | LCSD %Recovery | %Recovery Limits | RPD | RPD Limits |
|---|------------------|-------------------|---------------------|-----|------------|
| Anions by Ion Chromatography - Westborough Lab Associated sample(s): 04-02 Batch: WG1014665-2 | | | | | |
| Bromide | 93 | - | 90-110 | - | |
| Chloride | 96 | - | 90-110 | - | |
| Sulfate | 98 | - | 90-110 | - | |
| General Chemistry - Westborough Lab Associated sample(s): 02 Batch: WG1014697-2 | | | | | |
| Nitrogen, Ammonia | 88 | - | 80-120 | - | 20 |
| General Chemistry - Westborough Lab Associated sample(s): 01-02 Batch: WG1014720-2 | | | | | |
| Chemical Oxygen Demand | 100 | - | 90-110 | - | |
| General Chemistry - Westborough Lab Associated sample(s): 01-02 Batch: WG1014803-2 | | | | | |
| Solids, Total Dissolved | 96 | - | 80-120 | - | |
| General Chemistry - Westborough Lab Associated sample(s): 01-02 Batch: WG1014871-2 | | | | | |
| Nitrogen, Total Kjeldahl | 101 | - | 78-122 | - | |

Serial_No:06231715:09

Matrix Spike Analysis
Batch Quality Control

Project Name: ORANGE COUNTY LANDFILL
Project Number: 2010-15

Lab Number: L1720234
Report Date: 06/23/17

| Parameter | Native Sample | MS Added | MS Found | MS %Recovery | Qual | MSD Found | MSD %Recovery | Qual | Recovery Limits | RPD | Qual | RPD Limits |
|--|---------------|----------|----------|--------------|------|-----------|---------------|------|-----------------|-----|------|------------|
| General Chemistry - Westborough Lab Associated sample(s): 01-02 QC Batch ID: WG1013757-4 QC Sample: L1720234-01 Client ID: RW-17-1 (1.5 HR.) | | | | | | | | | | | | |
| Chromium, Hexavalent | ND | 0.1 | 0.085 | 85 | - | - | - | - | 85-115 | - | - | 20 |
| General Chemistry - Westborough Lab Associated sample(s): 01-02 QC Batch ID: WG1013837-4 QC Sample: L1720218-01 Client ID: MS Sample | | | | | | | | | | | | |
| Total Organic Carbon | 3.28 | 8 | 10.9 | 95 | - | - | - | - | 80-120 | - | - | 20 |
| General Chemistry - Westborough Lab Associated sample(s): 01-02 QC Batch ID: WG1014043-4 QC Sample: L1720155-02 Client ID: MS Sample | | | | | | | | | | | | |
| Nitrogen, Nitrite | ND | 4 | 1.0 | 25 | Q | - | - | - | 80-120 | - | - | 20 |
| General Chemistry - Westborough Lab Associated sample(s): 01-02 QC Batch ID: WG1014055-4 QC Sample: L1720155-02 Client ID: MS Sample | | | | | | | | | | | | |
| BOD, 5 day | ND | 100 | 110 | 114 | - | - | - | - | 50-145 | - | - | 35 |
| General Chemistry - Westborough Lab Associated sample(s): 01-02 QC Batch ID: WG1014073-4 QC Sample: L1719683-01 Client ID: MS Sample | | | | | | | | | | | | |
| Alkalinity, Total | 22.4 | 100 | 123 | 101 | - | - | - | - | 86-116 | - | - | 10 |
| General Chemistry - Westborough Lab Associated sample(s): 01-02 QC Batch ID: WG1014214-4 WG1014214-5 QC Sample: L1720234-01 Client ID: RW-17-1 (1.5 HR.) | | | | | | | | | | | | |
| Cyanide, Total | ND | 0.2 | 0.188 | 94 | - | 0.203 | 102 | - | 80-120 | 8 | - | 20 |
| General Chemistry - Westborough Lab Associated sample(s): 01 QC Batch ID: WG1014240-4 QC Sample: L1700006-76 Client ID: MS Sample | | | | | | | | | | | | |
| Nitrogen, Ammonia | 4.39 | 4 | 8.02 | 91 | - | - | - | - | 80-120 | - | - | 20 |
| General Chemistry - Westborough Lab Associated sample(s): 01-02 QC Batch ID: WG1014536-4 QC Sample: L1700006-74 Client ID: MS Sample | | | | | | | | | | | | |
| Phenolics, Total | ND | 0.4 | 0.43 | 107 | - | - | - | - | 70-130 | - | - | 20 |

Serial_No:06231715:09

Matrix Spike Analysis Batch Quality Control

Project Name: ORANGE COUNTY LANDFILL
Project Number: 2010-15

Lab Number: L1720234
Report Date: 06/23/17

| Parameter | Native Sample | MS Added | MS Found | MS %Recovery | MSD Found | MSD %Recovery | Recovery Limits | RPD | RPD Limits |
|---|---------------|----------|----------|--------------|-----------|---------------|-----------------|-----|------------|
| Anions by Ion Chromatography - Westborough Lab Associated sample(s): 01-02 QC Batch ID: WG1014634-3 WG1014634-4 QC Sample: L1720117-13 Client ID: MS Sample | | | | | | | | | |
| Bromide | 0.035J | 0.4 | 0.360 | 90 | 0.391 | 97 | 90-110 | 8 | 20 |
| Chloride | 27.1 | 4 | 29.9 | 70 | 31.9 | 120 | 90-110 | 6 | 18 |
| Sulfate | 2.39 | 8 | 10.7 | 104 | 10.4 | 100 | 90-110 | 3 | 20 |
| Anions by Ion Chromatography - Westborough Lab Associated sample(s): 01-02 QC Batch ID: WG1014655-3 QC Sample: L1720218-06 Client ID: MS Sample | | | | | | | | | |
| Bromide | 0.581 | 4 | 3.86 | 82 | - | - | 90-110 | - | 20 |
| Chloride | 88.1 | 40 | 125 | 92 | - | - | 90-110 | - | 18 |
| Sulfate | 269. | 80 | 343 | 93 | - | - | 90-110 | - | 20 |
| General Chemistry - Westborough Lab Associated sample(s): 02 QC Batch ID: WG1014697-4 QC Sample: L1720234-02 Client ID: RW-17-1 (END) | | | | | | | | | |
| Nitrogen, Ammonia | 4.70 | 4 | 8.30 | 90 | - | - | 80-120 | - | 20 |
| General Chemistry - Westborough Lab Associated sample(s): 01-02 QC Batch ID: WG1014720-3 QC Sample: L1719771-07 Client ID: MS Sample | | | | | | | | | |
| Chemical Oxygen Demand | 250 | 476 | 640 | 82 | - | - | 90-110 | - | 20 |
| General Chemistry - Westborough Lab Associated sample(s): 01-02 QC Batch ID: WG1014871-4 QC Sample: L1720218-01 Client ID: MS Sample | | | | | | | | | |
| Nitrogen, Total Kjeldahl | 0.886 | 8 | 8.16 | 93 | - | - | 77-111 | - | 24 |

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Project Name: ORANGE COUNTY LANDFILL
Project Number: 2010-15

Lab Duplicate Analysis
Batch Quality Control

Lab Number: L1720234
Report Date: 06/23/17

| Parameter | Native Sample | Duplicate Sample | Units | RPD | Qual | RPD Limits |
|-------------------------------------|-----------------------------|--------------------------|------------------------|------------------------------|------|------------|
| General Chemistry - Westborough Lab | Associated sample(s): 01-02 | QC Batch ID: WG1013757-3 | QC Sample: L1720234-02 | Client ID: RW-17-1 (END) | | |
| Chromium, Hexavalent | ND | ND | mg/l | NC | | 20 |
| General Chemistry - Westborough Lab | Associated sample(s): 01-02 | QC Batch ID: WG1013762-2 | QC Sample: L1720193-01 | Client ID: DUP Sample | | |
| Specific Conductance | 250 | 250 | umhos/cm | 0 | | 20 |
| General Chemistry - Westborough Lab | Associated sample(s): 01-02 | QC Batch ID: WG1013778-3 | QC Sample: L1720234-01 | Client ID: RW-17-1 (1.5 HR.) | | |
| Turbidity | 21 | 21 | NTU | 0 | | 13 |
| General Chemistry - Westborough Lab | Associated sample(s): 01-02 | QC Batch ID: WG1013837-3 | QC Sample: L1720218-01 | Client ID: DUP Sample | | |
| Total Organic Carbon | 3.28 | 3.34 | mg/l | 2 | | 20 |
| General Chemistry - Westborough Lab | Associated sample(s): 01-02 | QC Batch ID: WG1013896-2 | QC Sample: L1720234-01 | Client ID: RW-17-1 (1.5 HR.) | | |
| Oxidation/Reduction Potential | 200 | 200 | mv | 0 | | 20 |
| General Chemistry - Westborough Lab | Associated sample(s): 01-02 | QC Batch ID: WG1013898-2 | QC Sample: L1720234-02 | Client ID: RW-17-1 (END) | | |
| pH (H) | 6.9 | 6.9 | SU | 0 | | 5 |
| General Chemistry - Westborough Lab | Associated sample(s): 01-02 | QC Batch ID: WG1013902-1 | QC Sample: L1720218-01 | Client ID: DUP Sample | | |
| Color, Apparent | 18 | 19 | A.P.C.U. | 5 | | |
| General Chemistry - Westborough Lab | Associated sample(s): 01-02 | QC Batch ID: WG1014043-3 | QC Sample: L1720155-02 | Client ID: DUP Sample | | |
| Nitrogen, Nitrite | ND | ND | mg/l | NC | | 20 |

Serial_No:06231715:09

Project Name: ORANGE COUNTY LANDFILL
Project Number: 2010-15

Lab Duplicate Analysis
 Batch Quality Control

Lab Number: L1720234
Report Date: 06/23/17

| Parameter | Native Sample | Duplicate Sample | Units | RPD | RPD Limits |
|--|---------------|------------------|------------|-----|------------|
| General Chemistry - Westborough Lab Associated sample(s): 01-02 QC Batch ID: WG1014054-1 QC Sample: L1720264-01 Client ID: RW-17-1 (1.5 HR.) | | | | | |
| Dissolved Oxygen | 2.8 | 3.2 | mg/l | 13 | |
| General Chemistry - Westborough Lab Associated sample(s): 01-02 QC Batch ID: WG1014055-3 QC Sample: L1720165-02 Client ID: DUP Sample | | | | | |
| BOD, 5 day | ND | ND | mg/l | NC | 35 |
| General Chemistry - Westborough Lab Associated sample(s): 01-02 QC Batch ID: WG1014073-3 QC Sample: L1719683-01 Client ID: DUP Sample | | | | | |
| Alkalinity, Total | 22.4 | 22.2 | mg CaCO3/L | 1 | 10 |
| General Chemistry - Westborough Lab Associated sample(s): 01 QC Batch ID: WG1014240-3 QC Sample: L1700006-76 Client ID: DUP Sample | | | | | |
| Nitrogen, Ammonia | 4.39 | 4.35 | mg/l | 1 | 20 |
| General Chemistry - Westborough Lab Associated sample(s): 01-02 QC Batch ID: WG1014536-3 QC Sample: L1700006-74 Client ID: DUP Sample | | | | | |
| Phenolics, Total | ND | ND | mg/l | NC | 20 |
| Anions by Ion Chromatography - Westborough Lab Associated sample(s): 01-02 QC Batch ID: WG1014655-4 QC Sample: L1720218-06 Client ID: DUP Sample | | | | | |
| Bromide | 0.581 | 0.579 | mg/l | 0 | 20 |
| Chloride | 88.1 | 87.6 | mg/l | 1 | 18 |
| Sulfate | 269. | 268 | mg/l | 0 | 20 |
| General Chemistry - Westborough Lab Associated sample(s): 02 QC Batch ID: WG1014697-3 QC Sample: L1720234-02 Client ID: RW-17-1 (END) | | | | | |
| Nitrogen, Ammonia | 4.70 | 4.72 | mg/l | 0 | 20 |

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Project Name: ORANGE COUNTY LANDEILL
Project Number: 2010-15

Lab Duplicate Analysis
 Batch Quality Control

Lab Number: L1720234
Report Date: 06/23/17

| Parameter | Native Sample | Duplicate Sample | Units | RPD | RPD Limits |
|---|---------------|------------------|-------|-----|------------|
| General Chemistry - Westborough Lab Associated sample(s): 01-02 QC Batch ID: WG1014720-4 QC Sample: L1719771-07 Client ID: DUP Sample | | | | | |
| Chemical Oxygen Demand | 250 | 200 | mg/l | 22 | 20 |
| General Chemistry - Westborough Lab Associated sample(s): 01-02 QC Batch ID: WG1014803-3 QC Sample: L1720124-01 Client ID: DUP Sample | | | | | |
| Solids, Total Dissolved | 660 | 630 | mg/l | 5 | 10 |
| General Chemistry - Westborough Lab Associated sample(s): 01-02 QC Batch ID: WG1014871-3 QC Sample: L1720215-01 Client ID: DUP Sample | | | | | |
| Nitrogen, Total Kjeldahl | 0.686 | 0.738 | mg/l | 7 | 24 |

Project Name: ORANGE COUNTY LANDFILL
Project Number: 2010-15

Serial_No: 06231715:09
Lab Number: L1720234
Report Date: 06/23/17

Sample Receipt and Container Information

Were project specific reporting limits specified?

YES

Cooler Information

Cooler **Custody Seal**
A Absent

Container Information

| Container ID | Container Type | Cooler | Initial pH | Final pH | Temp deg C | Pres | Seal | Frozen Date/Time | Analysis(*) |
|--------------|--|--------|------------|----------|------------|------|--------|------------------|--|
| L1720234-01A | Vial H2SO4 preserved | A | NA | | 2.3 | Y | Absent | | TOC-5310(28) |
| L1720234-01B | Vial H2SO4 preserved | A | NA | | 2.3 | Y | Absent | | TOC-5310(28) |
| L1720234-01C | Plastic 250ml unpreserved/No Headspace | A | NA | | 2.3 | Y | Absent | | ALK-T-2320(14) |
| L1720234-01D | Plastic 250ml NaOH preserved | A | >12 | >12 | 2.3 | Y | Absent | | TCN-9010(14) |
| L1720234-01E | Plastic 250ml HNO3 preserved | A | <2 | <2 | 2.3 | Y | Absent | | HARDT(180) |
| L1720234-01F | BOD bottle Powder Pillow preserved | A | N/A | N/A | 2.3 | Y | Absent | | DO-4500(.3) |
| L1720234-01G | BOD bottle Powder Pillow preserved | A | N/A | N/A | 2.3 | Y | Absent | | DO-4500(.3) |
| L1720234-01H | Plastic 500ml H2SO4 preserved | A | 7 | 7 | 2.3 | Y | Absent | | TKN-351(28),COD-410-LOW(28),NH3-4500(28) |
| L1720234-01I | Amber 500ml H2SO4 preserved | A | <2 | <2 | 2.3 | Y | Absent | | NY-TPHENOL-420(28) |
| L1720234-01J | Plastic 500ml unpreserved | A | 7 | 7 | 2.3 | Y | Absent | | SO4-300(28),CL-300(28),HEXCR-7196(1),ORP(1),COLOR-A-2120(2),PH-9040(1),NO2-353(2),TURB-180(2),BOD-5210(2),BR-300(28),TDS-2540(7),COND-9050(28) |
| L1720234-01K | Plastic 950ml unpreserved | A | 7 | 7 | 2.3 | Y | Absent | | SO4-300(28),CL-300(28),HEXCR-7196(1),ORP(1),COLOR-A-2120(2),PH-9040(1),NO2-353(2),TURB-180(2),BOD-5210(2),BR-300(28),TDS-2540(7),COND-9050(28) |
| L1720234-02A | Vial H2SO4 preserved | A | NA | | 2.3 | Y | Absent | | TOC-5310(28) |
| L1720234-02B | Vial H2SO4 preserved | A | NA | | 2.3 | Y | Absent | | TOC-5310(28) |
| L1720234-02C | Plastic 250ml unpreserved/No Headspace | A | NA | | 2.3 | Y | Absent | | ALK-T-2320(14) |
| L1720234-02D | Plastic 250ml NaOH preserved | A | >12 | >12 | 2.3 | Y | Absent | | TCN-9010(14) |
| L1720234-02E | Plastic 250ml HNO3 preserved | A | <2 | <2 | 2.3 | Y | Absent | | HARDT(180) |
| L1720234-02F | BOD bottle Powder Pillow preserved | A | N/A | N/A | 2.3 | Y | Absent | | DO-4500(.3) |
| L1720234-02G | BOD bottle Powder Pillow preserved | A | N/A | N/A | 2.3 | Y | Absent | | DO-4500(.3) |
| L1720234-02H | Plastic 500ml H2SO4 preserved | A | 7 | 7 | 2.3 | Y | Absent | | TKN-351(28),COD-410-LOW(28),NH3-4500(28) |

Project Name: ORANGE COUNTY LANDFILL
Project Number: 2010-15

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Report Date: 06/23/17

Container Information

| Container ID | Container Type | Cooler | Initial pH | Final pH | Temp deg C | Pres | Seal | Frozen Date/Time | Analysis(*) |
|--------------|-----------------------------|--------|------------|----------|------------|------|--------|------------------|--|
| L1720234-02I | Amber 500ml H2SO4 preserved | A | <2 | <2 | 2.3 | Y | Absent | | NY-TPHENOL-420(28) |
| L1720234-02J | Plastic 500ml unpreserved | A | 7 | 7 | 2.3 | Y | Absent | | SO4-300(28),CL-300(28),HEXCR-7196(1),ORP(1),COLOR-A-2120(2),PH-9040(1),NO2-353(2),TURB-180(2),BOD-5210(2),BR-300(28),TDS-2540(7),COND-9050(28) |
| L1720234-02K | Plastic 950ml unpreserved | A | 7 | 7 | 2.3 | Y | Absent | | SO4-300(28),CL-300(28),HEXCR-7196(1),ORP(1),COLOR-A-2120(2),PH-9040(1),NO2-353(2),TURB-180(2),BOD-5210(2),BR-300(28),TDS-2540(7),COND-9050(28) |

Project Name: ORANGE COUNTY LANDFILL
Project Number: 2010-15

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GLOSSARY

Acronyms

| | |
|----------|---|
| EDL | - Estimated Detection Limit: This value represents the level to which target analyte concentrations are reported as estimated values, when those target analyte concentrations are quantified below the reporting limit (RL). The EDL includes any adjustments from dilutions, concentrations or moisture content, where applicable. The use of EDLs is specific to the analysis of PAHs using Solid-Phase Microextraction (SPME). |
| EPA | - Environmental Protection Agency. |
| LCS | - Laboratory Control Sample: A sample matrix, free from the analytes of interest, spiked with verified known amounts of analytes or a material containing known and verified amounts of analytes. |
| LCSD | - Laboratory Control Sample Duplicate: Refer to LCS. |
| LFB | - Laboratory Fortified Blank: A sample matrix, free from the analytes of interest, spiked with verified known amounts of analytes or a material containing known and verified amounts of analytes. |
| MDL | - Method Detection Limit: This value represents the level to which target analyte concentrations are reported as estimated values, when those target analyte concentrations are quantified below the reporting limit (RL). The MDL includes any adjustments from dilutions, concentrations or moisture content, where applicable. |
| MS | - Matrix Spike Sample: A sample prepared by adding a known mass of target analyte to a specified amount of matrix sample for which an independent estimate of target analyte concentration is available. |
| MSD | - Matrix Spike Sample Duplicate: Refer to MS. |
| NA | - Not Applicable. |
| NC | - Not Calculated: Term is utilized when one or more of the results utilized in the calculation are non-detect at the parameter's reporting unit. |
| NDPA/DPA | - N-Nitrosodiphenylamine/Diphenylamine. |
| NI | - Not Ignitable. |
| NP | - Non-Plastic: Term is utilized for the analysis of Atterberg Limits in soil. |
| RL | - Reporting Limit: The value at which an instrument can accurately measure an analyte at a specific concentration. The RL includes any adjustments from dilutions, concentrations or moisture content, where applicable. |
| RPD | - Relative Percent Difference: The results from matrix and/or matrix spike duplicates are primarily designed to assess the precision of analytical results in a given matrix and are expressed as relative percent difference (RPD). Values which are less than five times the reporting limit for any individual parameter are evaluated by utilizing the absolute difference between the values; although the RPD value will be provided in the report. |
| SRM | - Standard Reference Material: A reference sample of a known or certified value that is of the same or similar matrix as the associated field samples. |
| STLP | - Semi-dynamic Tank Leaching Procedure per EPA Method 1315. |
| TIC | - Tentatively Identified Compound: A compound that has been identified to be present and is not part of the target compound list (TCL) for the method and/or program. All TICs are qualitatively identified and reported as estimated concentrations. |

Footnotes

- 1 - The reference for this analyte should be considered modified since this analyte is absent from the target analyte list of the original method.

Terms

Analytical Method: Both the document from which the method originates and the analytical reference method. (Example: EPA 8260B is shown as 1,8260B.) The codes for the reference method documents are provided in the References section of the Addendum.

Final pH: As it pertains to Sample Receipt & Container Information section of the report, Final pH reflects pH of container determined after adjustment at the laboratory, if applicable. If no adjustment required, value reflects Initial pH.

Frozen Date/Time: With respect to Volatile Organics in soil, Frozen Date/Time reflects the date/time at which associated Reagent Water-preserved vials were initially frozen. Note: If frozen date/time is beyond 48 hours from sample collection, value will be reflected in 'bold'.

Initial pH: As it pertains to Sample Receipt & Container Information section of the report, Initial pH reflects pH of container determined upon receipt, if applicable.

Total: With respect to Organic analyses, a 'Total' result is defined as the summation of results for individual isomers or Aroclors. If a 'Total' result is requested, the results of its individual components will also be reported. This is applicable to 'Total' results for methods 8260, 8081 and 8082.

Data Qualifiers

- A** - Spectra identified as "Aldol Condensation Product".
- B** - The analyte was detected above the reporting limit in the associated method blank. Flag only applies to associated field samples that have detectable concentrations of the analyte at less than ten times (10x) the concentration found in the blank. For MCP-related

Report Format: DU Report with 'J' Qualifiers



Project Name: ORANGE COUNTY LANDFILL**Lab Number:** L1720234**Project Number:** 2010-15**Report Date:** 06/23/17**Data Qualifiers**

projects, flag only applies to associated field samples that have detectable concentrations of the analyte at less than ten times (10x) the concentration found in the blank. For DOD-related projects, flag only applies to associated field samples that have detectable concentrations of the analyte at less than ten times (10x) the concentration found in the blank AND the analyte was detected above one-half the reporting limit (or above the reporting limit for common lab contaminants) in the associated method blank. For NJ-Air-related projects, flag only applies to associated field samples that have detectable concentrations of the analyte above the reporting limit. For NJ-related projects (excluding Air), flag only applies to associated field samples that have detectable concentrations of the analyte, which was detected above the reporting limit in the associated method blank or above five times the reporting limit for common lab contaminants (Phthalates, Acetone, Methylene Chloride, 2-Butanone).

- C** - Co-elution: The target analyte co-elutes with a known lab standard (i.e. surrogate, internal standards, etc.) for co-extracted analyses.
- D** - Concentration of analyte was quantified from diluted analysis. Flag only applies to field samples that have detectable concentrations of the analyte.
- E** - Concentration of analyte exceeds the range of the calibration curve and/or linear range of the instrument.
- G** - The concentration may be biased high due to matrix interferences (i.e. co-elution) with non-target compound(s). The result should be considered estimated.
- H** - The analysis of pH was performed beyond the regulatory-required holding time of 15 minutes from the time of sample collection.
- I** - The lower value for the two columns has been reported due to obvious interference.
- M** - Reporting Limit (RL) exceeds the MCP CAM Reporting Limit for this analyte.
- NJ** - Presumptive evidence of compound. This represents an estimated concentration for Tentatively Identified Compounds (TICs), where the identification is based on a mass spectral library search.
- P** - The RPD between the results for the two columns exceeds the method-specified criteria.
- Q** - The quality control sample exceeds the associated acceptance criteria. For DOD-related projects, LCS and/or Continuing Calibration Standard exceedences are also qualified on all associated sample results. Note: This flag is not applicable for matrix spike recoveries when the sample concentration is greater than 4x the spike added or for batch duplicate RPD when the sample concentrations are less than 5x the RL. (Metals only.)
- R** - Analytical results are from sample re-analysis.
- RE** - Analytical results are from sample re-extraction.
- S** - Analytical results are from modified screening analysis.
- J** - Estimated value. The Target analyte concentration is below the quantitation limit (RL), but above the Method Detection Limit (MDL) or Estimated Detection Limit (EDL) for SPME-related analyses. This represents an estimated concentration for Tentatively Identified Compounds (TICs).
- ND** - Not detected at the method detection limit (MDL) for the sample, or estimated detection limit (EDL) for SPME-related analyses.

Report Format: DU Report with 'J' Qualifiers

Project Name: ORANGE COUNTY LANDFILL
Project Number: 2010-15

Lab Number: L1720234
Report Date: 06/23/17

REFERENCES

- 1 Test Methods for Evaluating Solid Waste: Physical/Chemical Methods. EPA SW-846. Third Edition. Updates I - IV, 2007.
- 4 Methods for Chemical Analysis of Water and Wastes. EPA 600/4-79-020. Revised March 1983.
- 12 Annual Book of ASTM Standards. (American Society for Testing and Materials) ASTM International.
- 44 Methods for the Determination of Inorganic Substances in Environmental Samples, EPA/600/R-93/100, August 1993.
- 121 Standard Methods for the Examination of Water and Wastewater. APHA-AWWA-WEF. Standard Methods Online.

LIMITATION OF LIABILITIES

Alpha Analytical performs services with reasonable care and diligence normal to the analytical testing laboratory industry. In the event of an error, the sole and exclusive responsibility of Alpha Analytical shall be to re-perform the work at it's own expense. In no event shall Alpha Analytical be held liable for any incidental, consequential or special damages, including but not limited to, damages in any way connected with the use of, interpretation of, information or analysis provided by Alpha Analytical.

We strongly urge our clients to comply with EPA protocol regarding sample volume, preservation, cooling, containers, sampling procedures, holding time and splitting of samples in the field.



Alpha Analytical, Inc.
 Facility: **Company-wide**
 Department: **Quality Assurance**
 Title: **Certificate/Approval Program Summary**

ID No.: **17873**
 Revision 10
 Published Date: 1/16/2017 11:00:05 AM
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Certification Information

The following analytes are not included in our Primary NELAP Scope of Accreditation:

Westborough Facility

EPA 624: m/p-xylene, o-xylene
EPA 8260C: NPW: 1,2,4,5-Tetramethylbenzene; 4-Ethyltoluene, Azobenzene; SCM: Iodomethane (methyl iodide), Methyl methacrylate, 1,2,4,5-Tetramethylbenzene; 4-Ethyltoluene.
EPA 8270D: NPW: Dimethylnaphthalene, 1,4-Diphenylhydrazine; SCM: Dimethylnaphthalene, 1,4-Diphenylhydrazine.
EPA 300: DW: Bromide
EPA 6860: NPW and SCM: Perchlorate
EPA 9010: NPW and SCM: Amenable Cyanide Distillation
EPA 9012B: NPW: Total Cyanide
EPA 9050A: NPW: Specific Conductance
SM3500: NPW: Ferrous Iron
SM4500: NPW: Amenable Cyanide, Dissolved Oxygen; SCM: Total Phosphorus, TKN, NO₂, NO₃.
SM5310C: DW: Dissolved Organic Carbon

Mansfield Facility

SM 2540D: TSS
EPA 3005A NPW
EPA 8082A: NPW: PCB: 1, 5, 31, 87, 101, 110, 141, 151, 153, 180, 183, 187.
EPA TO-15: Halothane, 2,4,4-Trimethyl-2-pentene, 2,4,4-Trimethyl-1-pentene, Thiophene, 2-Methylthiophene, 3-Methylthiophene, 2-Ethylthiophene, 1,2,3-Trimethylbenzene, Indan, Indene, 1,2,4,5-Tetramethylbenzene, Benzothiophene, 1-Methylnaphthalene.
Biological Tissue Matrix: EPA 3050B

The following analytes are included in our Massachusetts DEP Scope of Accreditation

Westborough Facility:

Drinking Water

EPA 300.0: Nitrate-N, Fluoride, Sulfate; **EPA 353.2:** Nitrate-N, Nitrite-N; **SM4500NO₃-F:** Nitrate-N, Nitrite-N; **SM4500F-C, SM4500CN-CE, EPA 180.1, SM2130B, SM4500Cl-D, SM2320B, SM2540C, SM4500H-B**
EPA 332: Perchlorate; **EPA 524.2:** THMs and VOCs; **EPA 504.1:** EDB, DBCP.
Microbiology: **SM9215B; SM9223-P/A, SM9223B-Colilert-QT, SM9222D.**

Non-Potable Water

SM4500H,B, EPA 120.1, SM2510B, SM2540C, SM2320B, SM4500CL-E, SM4500F-BC, SM4500NH₃-BH, EPA 350.1: Ammonia-N, **LACHAT 10-107-06-1-B:** Ammonia-N, **SM4500NO₃-F, EPA 353.2:** Nitrate-N, **EPA 351.1, SM4500P-E, SM4500P-B, E, SM4500SO₄-E, SM5220D, EPA 410.4, SM5210B, SM5310C, SM4500CL-D, EPA 1664, EPA 420.1, SM4500-CN-CE, SM2540D.**
EPA 624: Volatile Halocarbons & Aromatics,
EPA 608: Chlordane, Toxaphene, Aldrin, alpha-BHC, beta-BHC, gamma-BHC, delta-BHC, Dieldrin, DDD, DDE, DDT, Endosulfan I, Endosulfan II, Endosulfan sulfate, Endrin, Endrin Aldehyde, Heptachlor, Heptachlor Epoxide, PCBs
EPA 625: SVOC (Acid/Base/Neutral Extractables), **EPA 600/4-81-045:** PCB-Oil.
Microbiology: **SM9223B-Colilert-QT; Enterolert-QT, SM9221E.**

Mansfield Facility:

Drinking Water

EPA 200.7: Ba, Be, Cd, Cr, Cu, Ni, Na, Ca. **EPA 200.8:** Sb, As, Ba, Be, Cd, Cr, Cu, Pb, Ni, Se, TL. **EPA 245.1 Hg.**

Non-Potable Water

EPA 200.7: Al, Sb, As, Be, Cd, Ca, Cr, Co, Cu, Fe, Pb, Mg, Mn, Mo, Ni, K, Se, Ag, Na, Sr, TL, Ti, V, Zn.
EPA 200.8: Al, Sb, As, Be, Cd, Cr, Cu, Pb, Mn, Ni, Se, Ag, TL, Zn.
EPA 245.1 Hg:
SM2340B

For a complete listing of analytes and methods, please contact your Alpha Project Manager.

APPENDIX G

ANALYTICAL REPORT – SOIL CUTTINGS



ANALYTICAL REPORT

| | |
|-----------------|--|
| Lab Number: | L1720513 |
| Client: | Sterling Environmental Eng 24 Wade Road Latham, NY 12110 |
| ATTN: | Tom Johnson |
| Phone: | (518) 456-4900 |
| Project Name: | ORANGE COUNTY LANDFILL |
| Project Number: | 2010-15 |
| Report Date: | 06/23/17 |

The original project report/data package is held by Alpha Analytical. This report/data package is paginated and should be reproduced only in its entirety. Alpha Analytical holds no responsibility for results and/or data that are not consistent with the original.

Certifications & Approvals: MA (M-MA086), NH NELAP (2064), NJ NELAP (MA935), CT (PH-0574), IL (200077), ME (MA00086), MD (348), NY (11148), NC (25700/666), PA (68-03671), RI (LAO00065), TX (T104704476), VT (VT-0935), VA (460195), USDA (Permit #P330-14-00197).

Eight Walkup Drive, Westborough, MA 01581-1019
508-898-9220 (Fax) 508-898-9193 800-624-9220 - www.alphalab.com



Serial_No:06231718:36

Project Name: ORANGE COUNTY LANDFILL
Project Number: 2010-15

Lab Number: L1720513
Report Date: 06/23/17

| Alpha Sample ID | Client ID | Matrix | Sample Location | Collection Date/Time | Receive Date |
|----------------------------|-------------------------|---------------|----------------------------|---------------------------------|---------------------|
| L1720513-01 | RW-17-1 (SOIL CUTTINGS) | SOIL | NEW HAMPTON, NY | 06/15/17 16:00 | 06/16/17 |

Project Name: ORANGE COUNTY LANDFILL
Project Number: 2010-15

Lab Number: L1720513
Report Date: 06/23/17

Case Narrative

The samples were received in accordance with the Chain of Custody and no significant deviations were encountered during the preparation or analysis unless otherwise noted. Sample Receipt, Container Information, and the Chain of Custody are located at the back of the report.

Results contained within this report relate only to the samples submitted under this Alpha Lab Number and meet NELAP requirements for all NELAP accredited parameters unless otherwise noted in the following narrative. The data presented in this report is organized by parameter (i.e. VOC, SVOC, etc.). Sample specific Quality Control data (i.e. Surrogate Spike Recovery) is reported at the end of the target analyte list for each individual sample, followed by the Laboratory Batch Quality Control at the end of each parameter. Tentatively Identified Compounds (TICs), if requested, are reported for compounds identified to be present and are not part of the method/program Target Compound List, even if only a subset of the TCL are being reported. If a sample was re-analyzed or re-extracted due to a required quality control corrective action and if both sets of data are reported, the Laboratory ID of the re-analysis or re-extraction is designated with an "R" or "RE", respectively. When multiple Batch Quality Control elements are reported (e.g. more than one LCS), the associated samples for each element are noted in the grey shaded header line of each data table. Any Laboratory Batch, Sample Specific % recovery or RPD value that is outside the listed Acceptance Criteria is bolded in the report. All specific QC information is also incorporated in the Data Usability format of our Data Merger tool where it can be reviewed along with any associated usability implications. Soil/sediments, solids and tissues are reported on a dry weight basis unless otherwise noted. Definitions of all data qualifiers and acronyms used in this report are provided in the Glossary located at the back of the report.

In reference to questions H (CAM) or 4 (RCP) when "NO" is checked, the performance criteria for CAM and RCP methods allow for some quality control failures to occur and still be within method compliance. In these instances the specific failure is not narrated but noted in the associated QC table. The information is also incorporated in the Data Usability format of our Data Merger tool where it can be reviewed along with any associated usability implications.

Please see the associated ADEx data file for a comparison of laboratory reporting limits that were achieved with the regulatory Numerical Standards requested on the Chain of Custody.

HOLD POLICY

For samples submitted on hold, Alpha's policy is to hold samples (with the exception of Air canisters) free of charge for 21 calendar days from the date the project is completed. After 21 calendar days, we will dispose of all samples submitted including those put on hold unless you have contacted your Client Service Representative and made arrangements for Alpha to continue to hold the samples. Air canisters will be disposed after 3 business days from the date the project is completed.

Please contact Client Services at 800-624-9220 with any questions.

Project Name: ORANGE COUNTY LANDFILL
Project Number: 2010-15

Lab Number: L1720513
Report Date: 06/23/17

Case Narrative (continued)

Report Submission

All non-detect (ND) or estimated concentrations (J-qualified) have been quantitated to the limit noted in the MDL column.

I, the undersigned, attest under the pains and penalties of perjury that, to the best of my knowledge and belief and based upon my personal inquiry of those responsible for providing the information contained in this analytical report, such information is accurate and complete. This certificate of analysis is not complete unless this page accompanies any and all pages of this report.

Authorized Signature:



Michelle M. Morris

Title: Technical Director/Representative

Date: 06/23/17

ORGANICS

VOLATILES

Project Name: ORANGE COUNTY LANDFILL**Lab Number:** L1720513**Project Number:** 2010-15**Report Date:** 06/23/17**SAMPLE RESULTS****Lab ID:** L1720513-01**Date Collected:** 06/15/17 16:00**Client ID:** RW-17-1 (SOIL CUTTINGS)**Date Received:** 06/16/17**Sample Location:** NEW HAMPTON, NY**Field Prep:** Not Specified**Matrix:** Soil**Analytical Method:** 1,8260C**Analytical Date:** 06/23/17 13:01**Analyst:** BD**Percent Solids:** 81%**TCLP/SPLP Ext. Date:** 06/22/17 11:40

| Parameter | Result | Qualifier | Units | RL | MDL | Dilution Factor |
|--|--------|-----------|-------|----|-----|-----------------|
| TCLP Volatiles by EPA 1311 - Westborough Lab | | | | | | |

| | | | | | | |
|----------------------|-----|---|------|-----|------|----|
| Chloroform | 1.6 | J | ug/l | 7.5 | 1.6 | 10 |
| Carbon tetrachloride | ND | | ug/l | 5.0 | 1.3 | 10 |
| Tetrachloroethene | ND | | ug/l | 5.0 | 1.8 | 10 |
| Chlorobenzene | ND | | ug/l | 5.0 | 1.8 | 10 |
| 1,2-Dichloroethane | ND | | ug/l | 5.0 | 1.3 | 10 |
| Benzene | ND | | ug/l | 5.0 | 1.6 | 10 |
| Vinyl chloride | ND | | ug/l | 10 | 0.71 | 10 |
| 1,1-Dichloroethene | ND | | ug/l | 5.0 | 1.7 | 10 |
| Trichloroethene | ND | | ug/l | 5.0 | 1.8 | 10 |
| 1,4-Dichlorobenzene | ND | | ug/l | 25 | 1.9 | 10 |
| 2-Butanone | ND | | ug/l | 50 | 19. | 10 |

| Surrogate | % Recovery | Qualifier | Acceptance Criteria |
|-----------------------|------------|-----------|---------------------|
| 1,2-Dichloroethane-d4 | 91 | | 70-130 |
| Toluene-d8 | 109 | | 70-130 |
| 4-Bromofluorobenzene | 108 | | 70-130 |
| dibromofluoromethane | 93 | | 70-130 |

Project Name: ORANGE COUNTY LANDFILL
Project Number: 2010-15

Lab Number: L1720513
Report Date: 06/23/17

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8260C
Analytical Date: 06/23/17 10:38
Analyst: BD
TCLP/SPLP Extraction Date: 06/22/17 11:40

Extraction Date: 06/22/17 11:40

| Parameter | Result | Qualifier | Units | RL | MDL |
|---|--------|-----------|-------|-----|------|
| TCLP Volatiles by EPA 1311 - Westborough Lab for sample(s): 01 Batch: WG1016372-5 | | | | | |
| Chloroform | 2.0 | J | ug/l | 7.5 | 1.6 |
| Carbon tetrachloride | ND | | ug/l | 5.0 | 1.3 |
| Tetrachloroethene | ND | | ug/l | 5.0 | 1.8 |
| Chlorobenzene | ND | | ug/l | 5.0 | 1.8 |
| 1,2-Dichloroethane | ND | | ug/l | 5.0 | 1.3 |
| Benzene | ND | | ug/l | 5.0 | 1.6 |
| Vinyl chloride | ND | | ug/l | 10 | 0.71 |
| 1,1-Dichloroethene | ND | | ug/l | 5.0 | 1.7 |
| Trichloroethene | ND | | ug/l | 5.0 | 1.8 |
| 1,4-Dichlorobenzene | 2.1 | J | ug/l | 25 | 1.9 |
| 2-Butanone | ND | | ug/l | 50 | 19 |

| Surrogate | %Recovery | Qualifier | Acceptance Criteria |
|-----------------------|-----------|-----------|------------------------|
| 1,2-Dichloroethane-d4 | 87 | | 70-130 |
| Toluene-d8 | 107 | | 70-130 |
| 4-Bromofluorobenzene | 112 | | 70-130 |
| dibromofluoromethane | 92 | | 70-130 |

Serial_No:06231718:36

Lab Control Sample Analysis Batch Quality Control

Project Name: ORANGE COUNTY LANDFILL
Project Number: 2010-15

Lab Number: L1720513
Report Date: 06/23/17

| Parameter | LCS %Recovery | Qual | LCSD %Recovery | Qual | %Recovery Limits | RPD | Qual | RPD Limits |
|--|------------------|------|-------------------|------|---------------------|-----|------|---------------|
| TCLP Volatiles by EPA 1311 - Westborough Lab Associated sample(s): 01 Batch: WG1016372-3 WG1016372-4 | | | | | | | | |
| Chloroform | 110 | | 98 | | 70-130 | 12 | | 20 |
| Carbon tetrachloride | 88 | | 74 | | 63-132 | 17 | | 20 |
| Tetrachloroethene | 97 | | 93 | | 70-130 | | | 20 |
| Chlorobenzene | 97 | | 98 | | 75-130 | | | 25 |
| 1,2-Dichloroethane | 96 | | 87 | | 70-130 | 10 | | 20 |
| Benzene | 120 | | 100 | | 70-130 | 18 | | 25 |
| Vinyl chloride | 110 | | 99 | | 55-140 | 11 | | 20 |
| 1,1-Dichloroethene | 110 | | 110 | | 61-145 | 0 | | 25 |
| Trichloroethene | 98 | | 91 | | 70-130 | | | 25 |
| 1,4-Dichlorobenzene | 90 | | 85 | | 70-130 | 6 | | 20 |
| 2-Butanone | 90 | | 77 | | 63-138 | 16 | | 20 |

| Surrogate | LCS %Recovery | Qual | LCSD %Recovery | Qual | Acceptance Criteria |
|-----------------------|------------------|------|-------------------|------|------------------------|
| 1,2-Dichloroethane-d4 | 94 | | 96 | | 70-130 |
| Toluene-d8 | 101 | | 105 | | 70-130 |
| 4-Bromofluorobenzene | 103 | | 100 | | 70-130 |
| dibromofluoromethane | 93 | | 92 | | 70-130 |

SEMIVOLATILES

Project Name: ORANGE COUNTY LANDFILL**Lab Number:** L1720513**Project Number:** 2010-15**Report Date:** 06/23/17**SAMPLE RESULTS****Lab ID:** L1720513-01**Date Collected:** 06/15/17 16:00**Client ID:** RW-17-1 (SOIL CUTTINGS)**Date Received:** 06/16/17**Sample Location:** NEW HAMPTON, NY**Field Prep:** Not Specified**Matrix:** Soil**Extraction Method:** EPA 3510C**Analytical Method:** 1,8270D**Extraction Date:** 06/21/17 02:44**Analytical Date:** 06/22/17 05:14**Analyst:** RC**Percent Solids:** 81%**TCLP/SPLP Ext. Date:** 06/19/17 21:35

| Parameter | Result | Qualifier | Units | RL | MDL | Dilution Factor |
|-----------|--------|-----------|-------|----|-----|-----------------|
|-----------|--------|-----------|-------|----|-----|-----------------|

TCLP Semivolatiles by EPA 1311 - Westborough Lab

| | | | | | | |
|-------------------------------|----|--|------|----|-----|---|
| Hexachlorobenzene | ND | | ug/l | 10 | 2.9 | 1 |
| 2,4-Dinitrotoluene | ND | | ug/l | 25 | 4.2 | 1 |
| Hexachlorobutadiene | ND | | ug/l | 10 | 3.6 | 1 |
| Hexachloroethane | ND | | ug/l | 10 | 3.4 | 1 |
| Nitrobenzene | ND | | ug/l | 10 | 3.8 | 1 |
| 2,4,6-Trichlorophenol | ND | | ug/l | 25 | 3.4 | 1 |
| Pentachlorophenol | ND | | ug/l | 50 | 17. | 1 |
| 2-Methylphenol | ND | | ug/l | 25 | 5.1 | 1 |
| 3-Methylphenol/4-Methylphenol | ND | | ug/l | 25 | 5.6 | 1 |
| 2,4,5-Trichlorophenol | ND | | ug/l | 25 | 3.6 | 1 |
| Pyridine | ND | | ug/l | 18 | 9.4 | 1 |

| Surrogate | % Recovery | Qualifier | Acceptance Criteria |
|----------------------|------------|-----------|---------------------|
| 2-Fluorophenol | 69 | | 21-120 |
| Phenol-d6 | 64 | | 10-120 |
| Nitrobenzene-d5 | 75 | | 23-120 |
| 2-Fluorobiphenyl | 68 | | 15-120 |
| 2,4,6-Tribromophenol | 62 | | 10-120 |
| 4-Terphenyl-d14 | 70 | | 33-120 |

Project Name: ORANGE COUNTY LANDFILL
Project Number: 2010-15

Lab Number: L1720513
Report Date: 06/23/17

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8270D
Analytical Date: 06/22/17 02:11
Analyst: RC
TCLP/SPLP Extraction Date: 06/19/17 21:35

Extraction Method: EPA 3510C
Extraction Date: 06/21/17 02:44

| Parameter | Result | Qualifier | Units | RL | MDL |
|---|--------|-----------|-------|----|-----|
| TCLP Semivolatiles by EPA 1311 - Westborough Lab for sample(s): 01 Batch: WG1015200-1 | | | | | |
| Hexachlorobenzene | ND | | ug/l | 10 | 2.9 |
| 2,4-Dinitrotoluene | ND | | ug/l | 25 | 4.2 |
| Hexachlorobutadiene | ND | | ug/l | 10 | 3.6 |
| Hexachloroethane | ND | | ug/l | 10 | 3.4 |
| Nitrobenzene | ND | | ug/l | 10 | 3.8 |
| 2,4,6-Trichlorophenol | ND | | ug/l | 25 | 3.4 |
| Pentachlorophenol | ND | | ug/l | 50 | 17. |
| 2-Methylphenol | ND | | ug/l | 25 | 5.1 |
| 3-Methylphenol/4-Methylphenol | ND | | ug/l | 25 | 5.6 |
| 2,4,5-Trichlorophenol | ND | | ug/l | 25 | 3.6 |
| Pyridine | ND | | ug/l | 18 | 9.4 |

| Surrogate | %Recovery | Qualifier | Acceptance Criteria |
|----------------------|-----------|-----------|---------------------|
| 2-Fluorophenol | 65 | | 21-120 |
| Phenol-d6 | 60 | | 10-120 |
| Nitrobenzene-d5 | 70 | | 23-120 |
| 2-Fluorobiphenyl | 63 | | 15-120 |
| 2,4,6-Tribromophenol | 59 | | 10-120 |
| 4-Terphenyl-d14 | 62 | | 33-120 |

Serial_No:06231718:36

Lab Control Sample Analysis Batch Quality Control

Project Name: ORANGE COUNTY LANDFILL
Project Number: 2010-15

Lab Number: L1720513
Report Date: 06/23/17

| Parameter | LCS %Recovery | Qual | LCSD %Recovery | Qual | %Recovery Limits | RPD | Qual | RPD Limits |
|--|------------------|------|-------------------|------|---------------------|-----|------|---------------|
| TCLP Semivolatiles by EPA 1311 - Westborough Lab Associated sample(s): 01 Batch: WG1015200-2 WG1015200-3 | | | | | | | | |
| Hexachlorobenzene | 56 | | 62 | | 40-140 | 10 | | 30 |
| 2,4-Dinitrotoluene | 66 | | 72 | | 40-132 | 9 | | 30 |
| Hexachlorobutadiene | 55 | | 61 | | 28-111 | 10 | | 30 |
| Hexachloroethane | 55 | | 63 | | 21-105 | 14 | | 30 |
| Nitrobenzene | 70 | | 73 | | 40-140 | 4 | | 30 |
| 2,4,6-Trichlorophenol | 64 | | 69 | | 30-130 | 8 | | 30 |
| Pentachlorophenol | 53 | | 59 | | 9-103 | 11 | | 30 |
| 2-Methylphenol | 69 | | 73 | | 30-130 | 6 | | 30 |
| 3-Methylphenol/4-Methylphenol | 69 | | 73 | | 30-130 | 6 | | 30 |
| 2,4,5-Trichlorophenol | 63 | | 70 | | 30-130 | 11 | | 30 |
| Pyridine | 40 | | 46 | | 10-66 | 14 | | 30 |

| Surrogate | LCS %Recovery | Qual | LCSD %Recovery | Qual | Acceptance Criteria |
|----------------------|------------------|------|-------------------|------|------------------------|
| 2-Fluorophenol | 63 | | 67 | | 21-120 |
| Phenol-d6 | 61 | | 66 | | 10-120 |
| Nitrobenzene-d5 | 70 | | 75 | | 23-120 |
| 2-Fluorobiphenyl | 60 | | 63 | | 15-120 |
| 2,4,6-Tribromophenol | 61 | | 65 | | 10-120 |
| 4-Terphenyl-d14 | 59 | | 65 | | 33-120 |

PCBS

Project Name: ORANGE COUNTY LANDFILL**Lab Number:** L1720513**Project Number:** 2010-15**Report Date:** 06/23/17**SAMPLE RESULTS****Lab ID:** L1720513-01**Date Collected:** 06/15/17 16:00**Client ID:** RW-17-1 (SOIL CUTTINGS)**Date Received:** 06/16/17**Sample Location:** NEW HAMPTON, NY**Field Prep:** Not Specified**Matrix:** Soil**Extraction Method:** EPA 3510C**Analytical Method:** 1,8082A**Extraction Date:** 06/21/17 02:47**Analytical Date:** 06/21/17 19:53**Cleanup Method:** EPA 3665A**Analyst:** JA**Cleanup Date:** 06/21/17**Percent Solids:** 81%**Cleanup Method:** EPA 3660B**TCLP/SPLP Ext. Date:** 06/19/17 21:35**Cleanup Date:** 06/21/17

| Parameter | Result | Qualifier | Units | RL | MDL | Dilution Factor | Column |
|---|--------|-----------|-------|------|-------|-----------------|--------|
| TCLP PCBs by EPA 1311 - Westborough Lab | | | | | | | |
| Aroclor 1016 | ND | | ug/l | 2.50 | 0.330 | 1 | A |
| Aroclor 1221 | ND | | ug/l | 2.50 | 0.320 | 1 | A |
| Aroclor 1232 | ND | | ug/l | 2.50 | 0.185 | 1 | A |
| Aroclor 1242 | ND | | ug/l | 2.50 | 0.360 | 1 | A |
| Aroclor 1248 | ND | | ug/l | 2.50 | 0.305 | 1 | A |
| Aroclor 1254 | ND | | ug/l | 2.50 | 0.205 | 1 | A |
| Aroclor 1260 | ND | | ug/l | 2.50 | 0.190 | 1 | A |
| Aroclor 1262 | ND | | ug/l | 2.50 | 0.175 | 1 | A |
| Aroclor 1268 | ND | | ug/l | 2.50 | 0.225 | 1 | A |
| PCBs, Total | ND | | ug/l | 2.50 | 0.175 | 1 | A |

| Surrogate | % Recovery | Qualifier | Acceptance Criteria | Column |
|------------------------------|------------|-----------|---------------------|--------|
| 2,4,5,6-Tetrachloro-m-xylene | 41 | | 30-150 | A |
| Decachlorobiphenyl | 33 | | 30-150 | A |
| 2,4,5,6-Tetrachloro-m-xylene | 44 | | 30-150 | B |
| Decachlorobiphenyl | 38 | | 30-150 | B |

Project Name: ORANGE COUNTY LANDFILL
Project Number: 2010-15

Lab Number: L1720513
Report Date: 06/23/17

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8082A
Analytical Date: 06/22/17 00:01
Analyst: JA
TCLP/SPLP Extraction Date: 06/19/17 21:35

Extraction Method: EPA 3510C
Extraction Date: 06/21/17 02:47
Cleanup Method: EPA 3665A
Cleanup Date: 06/21/17
Cleanup Method: EPA 3660B
Cleanup Date: 06/21/17

| Parameter | Result | Qualifier | Units | RL | MDL | Column |
|--|--------|-----------|-------|------|-------|--------|
| TCLP PCBs by EPA 1311 - Westborough Lab for sample(s): 01 Batch: WG1015201-1 | | | | | | |
| Aroclor 1016 | ND | | ug/l | 2.50 | 0.330 | A |
| Aroclor 1221 | ND | | ug/l | 2.50 | 0.320 | A |
| Aroclor 1232 | ND | | ug/l | 2.50 | 0.185 | A |
| Aroclor 1242 | ND | | ug/l | 2.50 | 0.360 | A |
| Aroclor 1248 | ND | | ug/l | 2.50 | 0.305 | A |
| Aroclor 1254 | ND | | ug/l | 2.50 | 0.205 | A |
| Aroclor 1260 | ND | | ug/l | 2.50 | 0.190 | A |
| Aroclor 1262 | ND | | ug/l | 2.50 | 0.175 | A |
| Aroclor 1268 | ND | | ug/l | 2.50 | 0.225 | A |
| PCBs, Total | ND | | ug/l | 2.50 | 0.175 | A |

| Surrogate | %Recovery | Qualifier | Acceptance Criteria | Column |
|------------------------------|-----------|-----------|---------------------|--------|
| 2,4,5,6-Tetrachloro-m-xylene | 75 | | 30-150 | A |
| Decachlorobiphenyl | 88 | | 30-150 | A |
| 2,4,5,6-Tetrachloro-m-xylene | 82 | | 30-150 | B |
| Decachlorobiphenyl | 101 | | 30-150 | B |

Serial_No:06231718:36

Lab Control Sample Analysis Batch Quality Control

Project Name: ORANGE COUNTY LANDFILL
Project Number: 2010-15

Lab Number: L1720513
Report Date: 06/23/17

| Parameter | LCS %Recovery | Qual | LCSD %Recovery | Qual | %Recovery Limits | RPD | Qual | RPD Limits | Column |
|---|------------------|------|-------------------|------|---------------------|-----|------|---------------|--------|
| TCLP PCBs by EPA 1311 - Westborough Lab Associated sample(s): 01 Batch: WG1015201-2 WG1015201-3 | | | | | | | | | |
| Aroclor 1016 | 87 | | 84 | | 40-140 | 4 | | 50 | A |
| Aroclor 1260 | 95 | | 83 | | 40-140 | 13 | | 50 | A |

| Surrogate | LCS %Recovery | Qual | LCSD %Recovery | Qual | Acceptance Criteria | Column |
|------------------------------|------------------|------|-------------------|------|------------------------|--------|
| 2,4,5,6-Tetrachloro-m-xylene | 81 | | 79 | | 30-150 | A |
| Decachlorobiphenyl | 93 | | 91 | | 30-150 | A |
| 2,4,5,6-Tetrachloro-m-xylene | 86 | | 85 | | 30-150 | B |
| Decachlorobiphenyl | 109 | | 106 | | 30-150 | B |



PESTICIDES

Project Name: ORANGE COUNTY LANDFILL**Lab Number:** L1720513**Project Number:** 2010-15**Report Date:** 06/23/17**SAMPLE RESULTS****Lab ID:** L1720513-01**Date Collected:** 06/15/17 16:00**Client ID:** RW-17-1 (SOIL CUTTINGS)**Date Received:** 06/16/17**Sample Location:** NEW HAMPTON, NY**Field Prep:** Not Specified**Matrix:** Soil**Extraction Method:** EPA 3510C**Analytical Method:** 1,8081B**Extraction Date:** 06/21/17 01:00**Analytical Date:** 06/22/17 22:06**Analyst:** DM**Percent Solids:** 81%**TCLP/SPLP Ext. Date:** 06/19/17 21:35

| Parameter | Result | Qualifier | Units | RL | MDL | Dilution Factor | Column |
|--|--------|-----------|-------|-------|-------|-----------------|--------|
| TCLP Pesticides by EPA 1311 - Westborough Lab | | | | | | | |
| Lindane | ND | | ug/l | 0.100 | 0.022 | 1 | A |
| Heptachlor | ND | | ug/l | 0.100 | 0.016 | 1 | A |
| Heptachlor epoxide | ND | | ug/l | 0.100 | 0.021 | 1 | A |
| Endrin | ND | | ug/l | 0.200 | 0.021 | 1 | A |
| Methoxychlor | ND | | ug/l | 1.00 | 0.034 | 1 | A |
| Toxaphene | ND | | ug/l | 1.00 | 0.314 | 1 | A |
| Chlordane | ND | | ug/l | 1.00 | 0.232 | 1 | A |

| Surrogate | % Recovery | Qualifier | Acceptance Criteria | Column |
|------------------------------|------------|-----------|---------------------|--------|
| 2,4,5,6-Tetrachloro-m-xylene | 83 | | 30-150 | A |
| Decachlorobiphenyl | 88 | | 30-150 | A |
| 2,4,5,6-Tetrachloro-m-xylene | 93 | | 30-150 | B |
| Decachlorobiphenyl | 73 | | 30-150 | B |

Project Name: ORANGE COUNTY LANDFILL**Lab Number:** L1720513**Project Number:** 2010-15**Report Date:** 06/23/17**SAMPLE RESULTS****Lab ID:** L1720513-01**Date Collected:** 06/15/17 16:00**Client ID:** RW-17-1 (SOIL CUTTINGS)**Date Received:** 06/16/17**Sample Location:** NEW HAMPTON, NY**Field Prep:** Not Specified**Matrix:** Soil**Extraction Method:** EPA 8151A**Analytical Method:** 1,8151A**Extraction Date:** 06/21/17 06:05**Analytical Date:** 06/21/17 21:19**Analyst:** SL**Percent Solids:** 81%**TCLP/SPLP Ext. Date:** 06/19/17 21:35**Methylation Date:** 06/21/17 15:15

| Parameter | Result | Qualifier | Units | RL | MDL | Dilution Factor | Column |
|---|--------|-----------|-------|-------|-------|-----------------|--------|
| TCLP Herbicides by EPA 1311 - Westborough Lab | | | | | | | |
| 2,4-D | ND | | mg/l | 0.025 | 0.001 | 1 | A |
| 2,4,5-TP (Silvex) | ND | | mg/l | 0.005 | 0.001 | 1 | A |

| Surrogate | % Recovery | Qualifier | Acceptance Criteria | Column |
|-----------|------------|-----------|---------------------|--------|
| DCAA | 62 | | 30-150 | A |
| DCAA | 42 | | 30-150 | B |

Project Name: ORANGE COUNTY LANDFILL
Project Number: 2010-15

Lab Number: L1720513
Report Date: 06/23/17

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8081B
Analytical Date: 06/22/17 21:40
Analyst: KEG
TCLP/SPLP Extraction Date: 06/19/17 21:35

Extraction Method: EPA 3510C
Extraction Date: 06/20/17 23:38

| Parameter | Result | Qualifier | Units | RL | MDL | Column |
|--|--------|-----------|-------|-------|-------|--------|
| TCLP Pesticides by EPA 1311 - Westborough Lab for sample(s): 01 Batch: WG1015180-1 | | | | | | |
| Lindane | ND | | ug/l | 0.100 | 0.022 | A |
| Heptachlor | ND | | ug/l | 0.100 | 0.016 | A |
| Heptachlor epoxide | ND | | ug/l | 0.100 | 0.021 | A |
| Endrin | ND | | ug/l | 0.200 | 0.021 | A |
| Methoxychlor | ND | | ug/l | 1.00 | 0.034 | A |
| Toxaphene | ND | | ug/l | 1.00 | 0.314 | A |
| Chlordane | ND | | ug/l | 1.00 | 0.232 | A |

| Surrogate | %Recovery | Qualifier | Acceptance Criteria | Column |
|------------------------------|-----------|-----------|------------------------|--------|
| 2,4,5,6-Tetrachloro-m-xylene | 70 | | 30-150 | A |
| Decachlorobiphenyl | 65 | | 30-150 | A |
| 2,4,5,6-Tetrachloro-m-xylene | 64 | | 30-150 | B |
| Decachlorobiphenyl | 63 | | 30-150 | B |

Project Name: ORANGE COUNTY LANDFILL
Project Number: 2010-15

Lab Number: L1720513
Report Date: 06/23/17

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8151A
Analytical Date: 06/21/17 20:00
Analyst: SL
TCLP/SPLP Extraction Date: 06/19/17 21:35
Methylation Date: 06/21/17 15:15

Extraction Method: EPA 8151A
Extraction Date: 06/21/17 06:05

| Parameter | Result | Qualifier | Units | RL | MDL | Column |
|--|--------|-----------|-------|-------|-------|--------|
| TCLP Herbicides by EPA 1311 - Westborough Lab for sample(s): 01 Batch: WG1015225-1 | | | | | | |
| 2,4-D | ND | | mg/l | 0.025 | 0.001 | A |
| 2,4,5-TP (Silvex) | ND | | mg/l | 0.005 | 0.001 | A |

| Surrogate | %Recovery | Qualifier | Acceptance Criteria | Column |
|-----------|-----------|-----------|------------------------|--------|
| DCAA | 76 | | 30-150 | A |
| DCAA | 50 | | 30-150 | B |

Serial_No:06231718:36

Lab Control Sample Analysis Batch Quality Control

Project Name: ORANGE COUNTY LANDFILL
Project Number: 2010-15

Lab Number: L1720513
Report Date: 06/23/17

| Parameter | LCS %Recovery | Qual | LCSD %Recovery | Qual | %Recovery Limits | RPD | Qual | RPD Limits | Column |
|---|------------------|------|-------------------|------|---------------------|-----|------|---------------|--------|
| TCLP Pesticides by EPA 1311 - Westborough Lab Associated sample(s): 01 Batch: WG1015180-2 WG1015180-3 | | | | | | | | | |
| Lindane | 90 | | 102 | | 30-150 | 12 | | 20 | A |
| Heptachlor | 97 | | 110 | | 30-150 | 13 | | 20 | A |
| Heptachlor epoxide | 87 | | 106 | | 30-150 | 20 | | 20 | A |
| Endrin | 101 | | 114 | | 30-150 | 12 | | 20 | A |
| Methoxychlor | 109 | | 123 | | 30-150 | 12 | | 20 | A |

| Surrogate | LCS %Recovery | Qual | LCSD %Recovery | Qual | Acceptance Criteria | Column |
|------------------------------|------------------|------|-------------------|------|------------------------|--------|
| 2,4,5,6-Tetrachloro-m-xylene | 78 | | 88 | | 30-150 | A |
| Decachlorobiphenyl | 72 | | 81 | | 30-150 | A |
| 2,4,5,6-Tetrachloro-m-xylene | 72 | | 82 | | 30-150 | B |
| Decachlorobiphenyl | 70 | | 79 | | 30-150 | B |

Serial_No:06231718:36

Lab Control Sample Analysis Batch Quality Control

Project Name: ORANGE COUNTY LANDFILL
Project Number: 2010-15

Lab Number: L1720513
Report Date: 06/23/17

| Parameter | LCS %Recovery | Qual | LCSD %Recovery | Qual | %Recovery Limits | RPD | Qual | RPD Limits | Column |
|---|------------------|------|-------------------|------|---------------------|-----|------|---------------|--------|
| TCLP Herbicides by EPA 1311 - Westborough Lab Associated sample(s): 01 Batch: WG1015225-2 WG1015225-3 | | | | | | | | | |
| 2,4-D | 94 | | 92 | | 30-150 | 2 | | 25 | A |
| 2,4,5-TP (Silvex) | 55 | | 53 | | 30-150 | 4 | | 25 | A |

| Surrogate | LCS %Recovery | Qual | LCSD %Recovery | Qual | Acceptance Criteria | Column |
|-----------|------------------|------|-------------------|------|------------------------|--------|
| DCAA | 79 | | 74 | | 30-150 | A |
| DCAA | 62 | | 56 | | 30-150 | B |



METALS

Project Name: ORANGE COUNTY LANDFILL
Project Number: 2010-15

Lab Number: L1720513
Report Date: 06/23/17

SAMPLE RESULTS

Lab ID: L1720513-01
Client ID: RW-17-1 (SOIL CUTTINGS)
Sample Location: NEW HAMPTON, NY
Matrix: Soil
Percent Solids: 81%

Date Collected: 06/15/17 16:00
Date Received: 06/16/17
Field Prep: Not Specified
TCLP/SPLP Ext. Date: 06/19/17 21:35

| Parameter | Result | Qualifier | Units | RL | MDL | Dilution Factor | Date Prepared | Date Analyzed | Prep Method | Analytical Method | Analyst |
|---|--------|-----------|-------|--------|--------|-----------------|----------------|----------------|-------------|-------------------|---------|
| TCLP Metals by EPA 1311 - Mansfield Lab | | | | | | | | | | | |
| Arsenic, TCLP | 0.036 | J | mg/l | 1.00 | 0.019 | 1 | 06/21/17 13:15 | 06/21/17 18:28 | EPA 3015 | 1,6010C | PS |
| Barium, TCLP | 0.850 | | mg/l | 0.500 | 0.021 | 1 | 06/21/17 13:15 | 06/21/17 18:28 | EPA 3015 | 1,6010C | PS |
| Cadmium, TCLP | ND | | mg/l | 0.100 | 0.010 | 1 | 06/21/17 13:15 | 06/21/17 18:28 | EPA 3015 | 1,6010C | PS |
| Chromium, TCLP | ND | | mg/l | 0.200 | 0.021 | 1 | 06/21/17 13:15 | 06/21/17 18:28 | EPA 3015 | 1,6010C | PS |
| Lead, TCLP | 0.251 | J | mg/l | 0.500 | 0.027 | 1 | 06/21/17 13:15 | 06/21/17 18:28 | EPA 3015 | 1,6010C | PS |
| Mercury, TCLP | ND | | mg/l | 0.0010 | 0.0003 | 1 | 06/22/17 15:56 | 06/22/17 21:53 | EPA 7470A | 1,7470A | EA |
| Selenium, TCLP | ND | | mg/l | 0.500 | 0.035 | 1 | 06/21/17 13:15 | 06/21/17 18:28 | EPA 3015 | 1,6010C | PS |
| Silver, TCLP | ND | | mg/l | 0.100 | 0.028 | 1 | 06/21/17 13:15 | 06/21/17 18:28 | EPA 3015 | 1,6010C | PS |



Project Name: ORANGE COUNTY LANDFILL

Lab Number: L1720513

Project Number: 2010-15

Report Date: 06/23/17

Method Blank Analysis Batch Quality Control

| Parameter | Result | Qualifier | Units | RL | MDL | Dilution Factor | Date Prepared | Date Analyzed | Analytical Method | Analyst |
|--|--------|-----------|-------|-------|-------|--------------------|------------------|------------------|----------------------|---------|
| TCLP Metals by EPA 1311 - Mansfield Lab for sample(s): 01 Batch: WG1015425-1 | | | | | | | | | | |
| Arsenic, TCLP | 0.042 | J | mg/l | 1.00 | 0.019 | 1 | 06/21/17 13:15 | 06/21/17 16:54 | 1,6010C | PS |
| Barium, TCLP | ND | | mg/l | 0.500 | 0.021 | 1 | 06/21/17 13:15 | 06/21/17 16:54 | 1,6010C | PS |
| Cadmium, TCLP | ND | | mg/l | 0.100 | 0.010 | 1 | 06/21/17 13:15 | 06/21/17 16:54 | 1,6010C | PS |
| Chromium, TCLP | ND | | mg/l | 0.200 | 0.021 | 1 | 06/21/17 13:15 | 06/21/17 16:54 | 1,6010C | PS |
| Lead, TCLP | ND | | mg/l | 0.500 | 0.027 | 1 | 06/21/17 13:15 | 06/21/17 16:54 | 1,6010C | PS |
| Selenium, TCLP | ND | | mg/l | 0.500 | 0.035 | 1 | 06/21/17 13:15 | 06/21/17 16:54 | 1,6010C | PS |
| Silver, TCLP | ND | | mg/l | 0.100 | 0.028 | 1 | 06/21/17 13:15 | 06/21/17 16:54 | 1,6010C | PS |

Prep Information

Digestion Method: EPA 3015

TCLP/SPLP Extraction Date: 06/19/17 21:35

| Parameter | Result | Qualifier | Units | RL | MDL | Dilution Factor | Date Prepared | Date Analyzed | Analytical Method | Analyst |
|--|--------|-----------|-------|--------|--------|--------------------|------------------|------------------|----------------------|---------|
| TCLP Metals by EPA 1311 - Mansfield Lab for sample(s): 01 Batch: WG1015953-1 | | | | | | | | | | |
| Mercury, TCLP | ND | | mg/l | 0.0010 | 0.0003 | 1 | 06/22/17 15:56 | 06/22/17 21:49 | 1,7470A | EA |

Prep Information

Digestion Method: EPA 7470A

TCLP/SPLP Extraction Date: 06/19/17 21:35



Serial_No:06231718:36

Lab Control Sample Analysis Batch Quality Control

Project Name: ORANGE COUNTY LANDFILL
Project Number: 2010-15

Lab Number: L1720513
Report Date: 06/23/17

| Parameter | LCS %Recovery | Qual | LCSD %Recovery | Qual | %Recovery Limits | RPD | Qual | RPD Limits |
|--|------------------|------|-------------------|------|---------------------|-----|------|------------|
| TCLP Metals by EPA 1311 - Mansfield Lab: Associated sample(s): 01 Batch: WG1015425-2 | | | | | | | | |
| Arsenic, TCLP | 110 | | - | | 75-125 | - | | 20 |
| Barium, TCLP | 102 | | - | | 75-125 | - | | 20 |
| Cadmium, TCLP | 107 | | - | | 75-125 | - | | 20 |
| Chromium, TCLP | 102 | | - | | 75-125 | - | | 20 |
| Lead, TCLP | 101 | | - | | 75-125 | - | | 20 |
| Selenium, TCLP | 117 | | - | | 75-125 | - | | 20 |
| Silver, TCLP | 103 | | - | | 75-125 | - | | 20 |
| TCLP Metals by EPA 1311 - Mansfield Lab: Associated sample(s): 01 Batch: WG1015953-2 | | | | | | | | |
| Mercury, TCLP | 109 | | - | | 80-120 | - | | |

Serial_No:06231718:36

Matrix Spike Analysis
Batch Quality Control

Project Name: ORANGE COUNTY LANDFILL
Project Number: 2010-15

Lab Number: L1720513
Report Date: 06/23/17

| Parameter | Native Sample | MS Added | MS Found | MS %Recovery | Qual | MSD Found | MSD %Recovery | Qual | Recovery Limits | RPD | Qual | RPD Limits |
|---|---------------|----------|----------|--------------|------|-----------|---------------|------|-----------------|-----|------|------------|
| TCLP Metals by EPA 1311 - Mansfield Lab Associated sample(s): 01 QC Batch ID: WG1015425-3 QC Sample: L1720286-01 Client ID: MS Sample | | | | | | | | | | | | |
| Arsenic, TCLP | 0.036J | 1.2 | 1.22 | 102 | - | - | - | - | 75-125 | - | - | 20 |
| Barium, TCLP | 0.211J | 20 | 18.7 | 94 | - | - | - | - | 75-125 | - | - | 20 |
| Cadmium, TCLP | 0.037J | 0.51 | 0.522 | 102 | - | - | - | - | 75-125 | - | - | 20 |
| Chromium, TCLP | ND | 2 | 1.82 | 91 | - | - | - | - | 75-125 | - | - | 20 |
| Lead, TCLP | ND | 5.1 | 4.72 | 92 | - | - | - | - | 75-125 | - | - | 20 |
| Selenium, TCLP | ND | 1.2 | 1.28 | 107 | - | - | - | - | 75-125 | - | - | 20 |
| Silver, TCLP | ND | 0.5 | 0.475 | 95 | - | - | - | - | 75-125 | - | - | 20 |
| TCLP Metals by EPA 1311 - Mansfield Lab Associated sample(s): 01 QC Batch ID: WG1015953-3 QC Sample: L1720513-01 Client ID: RW-17-1 (SOIL CUTTINGS) | | | | | | | | | | | | |
| Mercury, TCLP | ND | 0.025 | 0.0255 | 102 | - | - | - | - | 80-120 | - | - | 20 |

Serial_No:06231718:36

Project Name: ORANGE COUNTY LANDFILL
Project Number: 2010-15

Lab Duplicate Analysis
Batch Quality Control

Lab Number: L1720513
Report Date: 06/23/17

| Parameter | Native Sample | Duplicate Sample | Units | RPD | Qual | RPD Limits |
|---|---------------|------------------|-------|-----|------|------------|
| TCLP Metals by EPA 1311 - Mansfield Lab Associated sample(s): 01 QC Batch ID: WG1015425-4 QC Sample: L1720286-01 Client ID: DUP Sample | | | | | | |
| Arsenic, TCLP | 0.036J | 0.037J | mg/l | NC | | 20 |
| Barium, TCLP | 0.211J | 0.208J | mg/l | NC | | 20 |
| Cadmium, TCLP | 0.037J | 0.036J | mg/l | NC | | 20 |
| Chromium, TCLP | ND | ND | mg/l | NC | | 20 |
| Lead, TCLP | ND | ND | mg/l | NC | | 20 |
| Selenium, TCLP | ND | ND | mg/l | NC | | 20 |
| Silver, TCLP | ND | ND | mg/l | NC | | 20 |
| TCLP Metals by EPA 1311 - Mansfield Lab Associated sample(s): 01 QC Batch ID: WG1015953-4 QC Sample: L1720513-01 Client ID: RW-17-1 (SOIL CUTTINGS) | | | | | | |
| Mercury, TCLP | ND | ND | mg/l | NC | | 20 |

INORGANICS & MISCELLANEOUS

Project Name: ORANGE COUNTY LANDFILL**Lab Number:** L1720513**Project Number:** 2010-15**Report Date:** 06/23/17**SAMPLE RESULTS****Lab ID:** L1720513-01**Date Collected:** 06/15/17 16:00**Client ID:** RW-17-1 (SOIL CUTTINGS)**Date Received:** 06/16/17**Sample Location:** NEW HAMPTON, NY**Field Prep:** Not Specified**Matrix:** Soil**Test Material Information****Source of Material:** Unknown**Description of Material:** Non-Metallic - Damp Clay**Particle Size:** Fine**Preliminary Burning Time (sec):** 120

| Parameter | Result | Date Analyzed | Analytical Method | Analyst |
|--|--------|----------------|-------------------|---------|
| Ignitability of Solids - Westborough Lab | | | | |
| Ignitability | NI | 06/23/17 03:00 | 1,1030 | SB |



Project Name: ORANGE COUNTY LANDFILL
Project Number: 2010-15

Lab Number: L1720513
Report Date: 06/23/17

SAMPLE RESULTS

Lab ID: L1720513-01
Client ID: RW-17-1 (SOIL CUTTINGS)
Sample Location: NEW HAMPTON, NY
Matrix: Soil

Date Collected: 06/15/17 16:00
Date Received: 06/16/17
Field Prep: Not Specified

| Parameter | Result | Qualifier | Units | RL | MDL | Dilution Factor | Date Prepared | Date Analyzed | Analytical Method | Analyst |
|-------------------------------------|--------|-----------|-------|-------|-----|--------------------|------------------|------------------|----------------------|---------|
| General Chemistry - Westborough Lab | | | | | | | | | | |
| Solids, Total | 80.9 | | % | 0.100 | NA | 1 | - | 06/17/17 12:51 | 121,2540G | RI |
| pH (H) | 8.0 | | SU | - | NA | 1 | - | 06/20/17 05:56 | 1,9045D | VB |
| Cyanide, Reactive | ND | | mg/kg | 10 | 10. | 1 | 06/21/17 19:20 | 06/21/17 21:15 | 1,7.3 | TL |
| Sulfide, Reactive | ND | | mg/kg | 10 | 10. | 1 | 06/21/17 19:20 | 06/21/17 21:07 | 1,7.3 | TL |



Project Name: ORANGE COUNTY LANDFILL

Lab Number: L1720513

Project Number: 2010-15

Report Date: 06/23/17

Method Blank Analysis Batch Quality Control

| Parameter | Result | Qualifier | Units | RL | MDL | Dilution Factor | Date Prepared | Date Analyzed | Analytical Method | Analyst |
|--|--------|-----------|-------|----|-----|--------------------|------------------|------------------|----------------------|---------|
| General Chemistry - Westborough Lab for sample(s): 01 Batch: WG1015538-1 | | | | | | | | | | |
| Cyanide, Reactive | ND | | mg/kg | 10 | 10. | 1 | 06/21/17 19:20 | 06/21/17 21:14 | 1,7.3 | TL |
| General Chemistry - Westborough Lab for sample(s): 01 Batch: WG1015543-1 | | | | | | | | | | |
| Sulfide, Reactive | ND | | mg/kg | 10 | 10. | 1 | 06/21/17 19:20 | 06/21/17 21:04 | 1,7.3 | TL |

Serial_No:06231718:36

Lab Control Sample Analysis
Batch Quality Control

Project Name: ORANGE COUNTY LANDFILL
Project Number: 2010-15

Lab Number: L1720513
Report Date: 06/23/17

| Parameter | LCS %Recovery | Qual | LCSD %Recovery | Qual | %Recovery Limits | RPD | Qual | RPD Limits |
|---|------------------|------|-------------------|------|---------------------|-----|------|------------|
| General Chemistry - Westborough Lab Associated sample(s): 01 Batch: WG1014785-1 | | | | | | | | |
| pH | 100 | | - | | 99-101 | - | | |
| General Chemistry - Westborough Lab Associated sample(s): 01 Batch: WG1015538-2 | | | | | | | | |
| Cyanide, Reactive | 58 | | - | | 30-125 | - | | 40 |
| General Chemistry - Westborough Lab Associated sample(s): 01 Batch: WG1015543-2 | | | | | | | | |
| Sulfide, Reactive | 112 | | - | | 60-125 | - | | 40 |

Serial_No:06231718:36

Project Name: ORANGE COUNTY LANDFILL
Project Number: 2010-15

Lab Duplicate Analysis
Batch Quality Control

Lab Number: L1720513
Report Date: 06/23/17

| Parameter | Native Sample | Duplicate Sample | Units | RPD | Qual | RPD Limits |
|--|---------------|------------------|-------|-----|------|------------|
| General Chemistry - Westborough Lab Associated sample(s): 01 QC Batch ID: WG1014226-1 QC Sample: L1720305-01 Client ID: DUP Sample | | | | | | |
| Solids, Total | 83.1 | 83.8 | % | | | 20 |
| General Chemistry - Westborough Lab Associated sample(s): 01 QC Batch ID: WG1014785-2 QC Sample: L1720520-01 Client ID: DUP Sample | | | | | | |
| pH | 7.8 | 7.8 | SU | 0 | | 5 |
| General Chemistry - Westborough Lab Associated sample(s): 01 QC Batch ID: WG1015885-3 QC Sample: L1720626-02 Client ID: DUP Sample | | | | | | |
| Cyanide, Reactive | ND | ND | mg/kg | NC | | 40 |
| General Chemistry - Westborough Lab Associated sample(s): 01 QC Batch ID: WG1015543-3 QC Sample: L1720626-02 Client ID: DUP Sample | | | | | | |
| Sulfide, Reactive | ND | ND | mg/kg | NC | | 40 |

Project Name: ORANGE COUNTY LANDFILL
Project Number: 2010-15

Serial_No: 06231718:36
Lab Number: L1720513
Report Date: 06/23/17

Sample Receipt and Container Information

Were project specific reporting limits specified?

YES

Cooler Information

Cooler **Custody Seal**
A Absent

Container Information

| Container ID | Container Type | Cooler | Initial pH | Final pH | Temp deg C | Pres | Seal | Frozen Date/Time | Analysis(*) |
|---------------|---------------------------------------|--------|------------|----------|------------|------|--------|------------------|---|
| L1720513-01A | Vial Large Septa unpreserved (4oz) | A | NA | | 5.3 | Y | Absent | | TCLP-EXT-ZHE(14) |
| L1720513-01B | Glass 500ml/16oz unpreserved | A | NA | | 5.3 | Y | Absent | | IGNIT-1030(14),REACTS(14),TS(7),PH-9045(1),REACTCN(14),TCLP-PCB(14) |
| L1720513-01U | Vial unpreserved Extracts | A | NA | | 5.3 | Y | Absent | | TCLP-VOA(14) |
| L1720513-01V | Vial unpreserved Extracts | A | NA | | 5.3 | Y | Absent | | TCLP-VOA(14) |
| L1720513-01W | Amber 1000ml unpreserved Extracts | A | NA | | 5.3 | Y | Absent | | TCLP-8270(14),HERB-TCLP*(14),PEST-TCLP*(14) |
| L1720513-01X | Plastic 120ml HNO3 preserved Extracts | A | NA | | 5.3 | Y | Absent | | CD-CI(180),AS-CI(180),BA-CI(180),HG-C(28),PB-CI(180),CR-CI(180),SE-CI(180),AG-CI(180) |
| L1720513-01X9 | Tumble Vessel | A | NA | | 5.3 | Y | Absent | | |

Project Name: ORANGE COUNTY LANDFILL
Project Number: 2010-15

Lab Number: L1720513
Report Date: 06/23/17

GLOSSARY

Acronyms

| | |
|----------|---|
| EDL | - Estimated Detection Limit: This value represents the level to which target analyte concentrations are reported as estimated values, when those target analyte concentrations are quantified below the reporting limit (RL). The EDL includes any adjustments from dilutions, concentrations or moisture content, where applicable. The use of EDLs is specific to the analysis of PAHs using Solid-Phase Microextraction (SPME). |
| EPA | - Environmental Protection Agency. |
| LCS | - Laboratory Control Sample: A sample matrix, free from the analytes of interest, spiked with verified known amounts of analytes or a material containing known and verified amounts of analytes. |
| LCS/D | - Laboratory Control Sample Duplicate: Refer to LCS. |
| LFB | - Laboratory Fortified Blank: A sample matrix, free from the analytes of interest, spiked with verified known amounts of analytes or a material containing known and verified amounts of analytes. |
| MDL | - Method Detection Limit: This value represents the level to which target analyte concentrations are reported as estimated values, when those target analyte concentrations are quantified below the reporting limit (RL). The MDL includes any adjustments from dilutions, concentrations or moisture content, where applicable. |
| MS | - Matrix Spike Sample: A sample prepared by adding a known mass of target analyte to a specified amount of matrix sample for which an independent estimate of target analyte concentration is available. |
| MSD | - Matrix Spike Sample Duplicate: Refer to MS. |
| NA | - Not Applicable. |
| NC | - Not Calculated: Term is utilized when one or more of the results utilized in the calculation are non-detect at the parameter's reporting unit. |
| NDPA/DPA | - N-Nitrosodiphenylamine/Diphenylamine. |
| NI | - Not Ignitable. |
| NP | - Non-Plastic: Term is utilized for the analysis of Atterberg Limits in soil. |
| RL | - Reporting Limit: The value at which an instrument can accurately measure an analyte at a specific concentration. The RL includes any adjustments from dilutions, concentrations or moisture content, where applicable. |
| RPD | - Relative Percent Difference: The results from matrix and/or matrix spike duplicates are primarily designed to assess the precision of analytical results in a given matrix and are expressed as relative percent difference (RPD). Values which are less than five times the reporting limit for any individual parameter are evaluated by utilizing the absolute difference between the values; although the RPD value will be provided in the report. |
| SRM | - Standard Reference Material: A reference sample of a known or certified value that is of the same or similar matrix as the associated field samples. |
| STLP | - Semi-dynamic Tank Leaching Procedure per EPA Method 1315. |
| TIC | - Tentatively Identified Compound: A compound that has been identified to be present and is not part of the target compound list (TCL) for the method and/or program. All TICs are qualitatively identified and reported as estimated concentrations. |

Footnotes

- 1 - The reference for this analyte should be considered modified since this analyte is absent from the target analyte list of the original method.

Terms

Analytical Method: Both the document from which the method originates and the analytical reference method. (Example: EPA 8260B is shown as 1,8260B.) The codes for the reference method documents are provided in the References section of the Addendum.

Final pH: As it pertains to Sample Receipt & Container Information section of the report, Final pH reflects pH of container determined after adjustment at the laboratory, if applicable. If no adjustment required, value reflects Initial pH.

Frozen Date/Time: With respect to Volatile Organics in soil, Frozen Date/Time reflects the date/time at which associated Reagent Water-preserved vials were initially frozen. Note: If frozen date/time is beyond 48 hours from sample collection, value will be reflected in 'bold'.

Initial pH: As it pertains to Sample Receipt & Container Information section of the report, Initial pH reflects pH of container determined upon receipt, if applicable.

Total: With respect to Organic analyses, a 'Total' result is defined as the summation of results for individual isomers or Aroclors. If a 'Total' result is requested, the results of its individual components will also be reported. This is applicable to 'Total' results for methods 8260, 8081 and 8082.

Data Qualifiers

- A** - Spectra identified as "Aldol Condensation Product".
- B** - The analyte was detected above the reporting limit in the associated method blank. Flag only applies to associated field samples that have detectable concentrations of the analyte at less than ten times (10x) the concentration found in the blank. For MCP-related

Report Format: DU Report with 'J' Qualifiers



Project Name: ORANGE COUNTY LANDFILL**Lab Number:** L1720513**Project Number:** 2010-15**Report Date:** 06/23/17**Data Qualifiers**

projects, flag only applies to associated field samples that have detectable concentrations of the analyte at less than ten times (10x) the concentration found in the blank. For DOD-related projects, flag only applies to associated field samples that have detectable concentrations of the analyte at less than ten times (10x) the concentration found in the blank AND the analyte was detected above one-half the reporting limit (or above the reporting limit for common lab contaminants) in the associated method blank. For NJ-Air-related projects, flag only applies to associated field samples that have detectable concentrations of the analyte above the reporting limit. For NJ-related projects (excluding Air), flag only applies to associated field samples that have detectable concentrations of the analyte, which was detected above the reporting limit in the associated method blank or above five times the reporting limit for common lab contaminants (Phthalates, Acetone, Methylene Chloride, 2-Butanone).

- C** - Co-elution: The target analyte co-elutes with a known lab standard (i.e. surrogate, internal standards, etc.) for co-extracted analyses.
- D** - Concentration of analyte was quantified from diluted analysis. Flag only applies to field samples that have detectable concentrations of the analyte.
- E** - Concentration of analyte exceeds the range of the calibration curve and/or linear range of the instrument.
- G** - The concentration may be biased high due to matrix interferences (i.e. co-elution) with non-target compound(s). The result should be considered estimated.
- H** - The analysis of pH was performed beyond the regulatory-required holding time of 15 minutes from the time of sample collection.
- I** - The lower value for the two columns has been reported due to obvious interference.
- M** - Reporting Limit (RL) exceeds the MCP CAM Reporting Limit for this analyte.
- NJ** - Presumptive evidence of compound. This represents an estimated concentration for Tentatively Identified Compounds (TICs), where the identification is based on a mass spectral library search.
- P** - The RPD between the results for the two columns exceeds the method-specified criteria.
- Q** - The quality control sample exceeds the associated acceptance criteria. For DOD-related projects, LCS and/or Continuing Calibration Standard exceedences are also qualified on all associated sample results. Note: This flag is not applicable for matrix spike recoveries when the sample concentration is greater than 4x the spike added or for batch duplicate RPD when the sample concentrations are less than 5x the RL. (Metals only.)
- R** - Analytical results are from sample re-analysis.
- RE** - Analytical results are from sample re-extraction.
- S** - Analytical results are from modified screening analysis.
- J** - Estimated value. The Target analyte concentration is below the quantitation limit (RL), but above the Method Detection Limit (MDL) or Estimated Detection Limit (EDL) for SPME-related analyses. This represents an estimated concentration for Tentatively Identified Compounds (TICs).
- ND** - Not detected at the method detection limit (MDL) for the sample, or estimated detection limit (EDL) for SPME-related analyses.

Report Format: DU Report with 'J' Qualifiers

Project Name: ORANGE COUNTY LANDFILL
Project Number: 2010-15

Lab Number: L1720513
Report Date: 06/23/17

REFERENCES

- 1 Test Methods for Evaluating Solid Waste: Physical/Chemical Methods. EPA SW-846. Third Edition. Updates I - IV, 2007.
- 121 Standard Methods for the Examination of Water and Wastewater. APHA-AWWA-WEF. Standard Methods Online.

LIMITATION OF LIABILITIES

Alpha Analytical performs services with reasonable care and diligence normal to the analytical testing laboratory industry. In the event of an error, the sole and exclusive responsibility of Alpha Analytical shall be to re-perform the work at it's own expense. In no event shall Alpha Analytical be held liable for any incidental, consequential or special damages, including but not limited to, damages in any way connected with the use of, interpretation of, information or analysis provided by Alpha Analytical.

We strongly urge our clients to comply with EPA protocol regarding sample volume, preservation, cooling, containers, sampling procedures, holding time and splitting of samples in the field.



Alpha Analytical, Inc.
 Facility: **Company-wide**
 Department: **Quality Assurance**
 Title: **Certificate/Approval Program Summary**

ID No.: **17873**
 Revision 10
 Published Date: 1/16/2017 11:00:05 AM
 Page 1 of 1

Certification Information

The following analytes are not included in our Primary NELAP Scope of Accreditation:

Westborough Facility

EPA 624: m/p-xylene, o-xylene
EPA 8260C: NPW: 1,2,4,5-Tetramethylbenzene; 4-Ethyltoluene, Azobenzene; SCM: Iodomethane (methyl iodide), Methyl methacrylate, 1,2,4,5-Tetramethylbenzene; 4-Ethyltoluene.
EPA 8270D: NPW: Dimethylnaphthalene, 1,4-Diphenylhydrazine; SCM: Dimethylnaphthalene, 1,4-Diphenylhydrazine.
EPA 300: DW: Bromide
EPA 6860: NPW and SCM: Perchlorate
EPA 9010: NPW and SCM: Amenable Cyanide Distillation
EPA 9012B: NPW: Total Cyanide
EPA 9050A: NPW: Specific Conductance
SM3500: NPW: Ferrous Iron
SM4500: NPW: Amenable Cyanide, Dissolved Oxygen; SCM: Total Phosphorus, TKN, NO₂, NO₃.
SM5310C: DW: Dissolved Organic Carbon

Mansfield Facility

SM 2540D: TSS
EPA 3005A NPW
EPA 8082A: NPW: PCB: 1, 5, 31, 87, 101, 110, 141, 151, 153, 180, 183, 187.
EPA TO-15: Halothane, 2,4,4-Trimethyl-2-pentene, 2,4,4-Trimethyl-1-pentene, Thiophene, 2-Methylthiophene, 3-Methylthiophene, 2-Ethylthiophene, 1,2,3-Trimethylbenzene, Indan, Indene, 1,2,4,5-Tetramethylbenzene, Benzothiophene, 1-Methylnaphthalene.
Biological Tissue Matrix: EPA 3050B

The following analytes are included in our Massachusetts DEP Scope of Accreditation

Westborough Facility:

Drinking Water

EPA 300.0: Nitrate-N, Fluoride, Sulfate; **EPA 353.2:** Nitrate-N, Nitrite-N; **SM4500NO3-F:** Nitrate-N, Nitrite-N; **SM4500F-C, SM4500CN-CE, EPA 180.1, SM2130B, SM4500Cl-D, SM2320B, SM2540C, SM4500H-B**
EPA 332: Perchlorate; **EPA 524.2:** THMs and VOCs; **EPA 504.1:** EDB, DBCP.
Microbiology: **SM9215B; SM9223-P/A, SM9223B-Colilert-QT, SM9222D.**

Non-Potable Water

SM4500H,B, EPA 120.1, SM2510B, SM2540C, SM2320B, SM4500CL-E, SM4500F-BC, SM4500NH3-BH, EPA 350.1: Ammonia-N, **LACHAT 10-107-06-1-B:** Ammonia-N, **SM4500NO3-F, EPA 353.2:** Nitrate-N, **EPA 351.1, SM4500P-E, SM4500P-B, E, SM4500SO4-E, SM5220D, EPA 410.4, SM5210B, SM5310C, SM4500CL-D, EPA 1664, EPA 420.1, SM4500-CN-CE, SM2540D.**
EPA 624: Volatile Halocarbons & Aromatics,
EPA 608: Chlordane, Toxaphene, Aldrin, alpha-BHC, beta-BHC, gamma-BHC, delta-BHC, Dieldrin, DDD, DDE, DDT, Endosulfan I, Endosulfan II, Endosulfan sulfate, Endrin, Endrin Aldehyde, Heptachlor, Heptachlor Epoxide, PCBs
EPA 625: SVOC (Acid/Base/Neutral Extractables), **EPA 600/4-81-045:** PCB-Oil.
Microbiology: **SM9223B-Colilert-QT; Enterolert-QT, SM9221E.**

Mansfield Facility:

Drinking Water

EPA 200.7: Ba, Be, Cd, Cr, Cu, Ni, Na, Ca. **EPA 200.8:** Sb, As, Ba, Be, Cd, Cr, Cu, Pb, Ni, Se, TL. **EPA 245.1** Hg.

Non-Potable Water

EPA 200.7: Al, Sb, As, Be, Cd, Ca, Cr, Co, Cu, Fe, Pb, Mg, Mn, Mo, Ni, K, Se, Ag, Na, Sr, TL, Ti, V, Zn.
EPA 200.8: Al, Sb, As, Be, Cd, Cr, Cu, Pb, Mn, Ni, Se, Ag, TL, Zn.
EPA 245.1 Hg.
SM2340B

For a complete listing of analytes and methods, please contact your Alpha Project Manager.

APPENDIX H

CONCEPTUAL PLAN - HDD GROUNDWATER RECOVERY SYSTEM

DESCRIPTION

These specifications relate to the Horizontal Directional Drilling (HDD) work identified by the plans. The installation is according to the sizes and limits shown on the plans, and specified herein. The work includes all services, equipment, materials, tools, and labor for a complete and proper installation and testing.

HDD is a trenchless method for installing a pipe product. It is a multi-stage process consisting of site preparation, equipment setup, pilot bore, pipe product pulling through the drilled bore, and site restoration. Alignment of the bore is accomplished by proper orientation of the drill bit head as it is pushed through the ground by the drill rig. Orientation and tracking of the drill bit is determined by using an acceptable tracking system from a transmitter located within the drill bit head. When necessary, enlarge the pilot borehole (back reaming) to accommodate a pipe product larger than the pilot borehole size. Back ream ahead of or at the same time pulling the pipe product through the pilot borehole.

In order to minimize friction and prevent collapse of the borehole, introduce a soil stabilizing agent (drilling fluid) into the annular bore space from the front end of the drill bit. The rotation of the bit in the soil wetted by the drilling fluid creates slurry. The slurry stabilizes the surrounding soil, prevents the borehole from collapsing, and provides lubrication. Select or design the drilling fluids for the site's specific soil and groundwater conditions. Confine free flowing (escaping) slurry or drilling fluids at the ground surface during pullback or drilling.

MATERIALS

Pipe Product

The pipe product (4-inch I.D. SDR17 fused HDPE pipe) must comply with all applicable ASTM standards. Join the pipe sections so that the joined pipe sections are installable using HDD. Ensure that the joined pipe product have adequate strength and flexibility to withstand the installation stresses, overburden pressures, and operating pressures without compromising the structural stability of the pipe wall. Ensure that the pipe product meets the bend radius required for the proposed installation. Join the pipe sections so that the inner surfaces are flush and even.

The following material standards are the minimum in place standards. High Density Polyethylene (HDPE) - Non-Pressure [ASTM D 2447 ASTM D 3350 ASTM F714] or Pressure [ASTM D 2447 ASTM D 3350 ASTM F714 ASTM 2513].

Detection Wire: Electronic detection material for non-conductive piping products. Select tracer wire designed for HDD to conductively locate underground utility lines according to ASTM D-1248. Use either a continuous green sheathed solid conductor copper wire line (minimum #12 AWG for external placement) or a coated conductive tape. Select a minimum 12-gauge copper clad steel wire that is able to withstand the installation tension along the entire length of the line.

CONSTRUCTION

Submittals

Prior to beginning work, submit to the Engineer detailed procedures and schedule applicable to the work. The submittal will be comprehensive, realistic, and based on actual working conditions. The submittal will document the planning required to successfully complete the Project. The submittal will include

complete descriptions of procedures, equipment, personnel, and if applicable, supporting material, for the following:

- Drilling operations - describe the pilot hole drilling procedure, the reaming operation, the pullback procedure, and illustrate the plan.
- Profile of the bore plotted at a scale appropriate for the crossing and acceptable to the Engineer.
- HDD site layout including entry and exit points.
- Directional drilling equipment list includes: drilling rig, drill bit, back reamer, mud mixing and pumping systems, downhole tools, guidance system, and rig safety system. Provide calibration records for guidance equipment.
- Drilling fluid management plan - drilling fluid types and specifications, cleaning and recycling equipment, estimated flow rates, procedures for minimizing drilling fluid escape, and the method/location for final disposal of waste drilling fluids. Provide the Material Safety Data Sheets (MSDS) for all drilling fluid additives that will be used.
- Collect and manage water and soils from drilling operation. Water / drilling slurry will be collected in the mud pit, solidified and disposed of off-site with insertion pit soils.
- Pipe storage and handling details.
- Pipeline assembly and installation procedures.
- MSDS of any potentially hazardous substances to be used.
- Contingency plans for possible problems.
- Develop well by jetting interior of 4-inch diameter HDPE with high pressure jetter.
- Install one concrete manhole structure at depth of approximately 16 feet below grade (where horizontal remediation well daylights). Cap other end of 4-inch diameter well. *Exact location and depth to be determined.*

Submit supporting calculations, certifications, or material demonstrating the strength of the pipe product for acceptance before the beginning of the installation. Submit for the Engineer's acceptance prior to construction, other pipe product material than those listed on the plans. Demonstrate that the proposed material satisfies the purpose of the utility and withstands the design and construction stresses and pressures.

If site conditions change and require modification, resubmit revised drilling plans to achieve successful installation.

Daily Reports and Operator Logs

Submit the Daily Reports to the Engineer within 24 hours. Include, in the Daily Reports, log of boring operations and guidance system for each drill rod added or withdrawn during drilling, reaming, and pullback. The log covers downhole tools and equipment in use, drilling fluid, fluid pumping rate, drilling head location. Cover, in the report, details of and perceived reasons for any unusual events and delays greater than one hour excluding normal breaks.

Record Drawings

At the completion of the HDD pipe product installation, the HDD contractor will provide the Engineer with marked up plans noting all deviations from the plans that result in change of location, material, type or size of work guided by the boring operations and guidance system log. Post, on the drawing, the x, y, and z coordinates of the starting and ending points of the line at minimum. Include in the marked up plans, the station number or reference to a permanent structure within the project right-of-way, name of person collecting data, including title, position and company name, detection method used, and elevations

and offset dimensions. Certify the accuracy of the drawing to the capability of the tracking system. The HDD contractor shall provide the Engineer with the marked up plans.

Installation

Site Preparation - Prior to any alterations to worksite, walk the area prior to the commencement of the HDD project and visually inspect the site for potential problems.

Utility Location - Contact Dig Safely New York at 1-800-962-7962 at least 72 hours, but no more than 10 working days (excluding weekends and legal holidays) before beginning Project work. Explore and locate existing underground utilities in the areas of Work. Verify the exact physical location and depth of existing utilities by exposing as needed. If utilities are to remain in place, provide adequate means of protecting the utility during excavation operations. Should uncharted or incorrectly charted piping or other utilities be encountered during the utility exploration and contact the Owner of the utilities. Contractor is responsible for repairing damaged utilities to the satisfaction of the utility owner. If the utility was accurately marked by the utility locator or on the drawing, repair it at no additional cost. If the damaged utility was not accurately marked by the utility locator or on the drawing, Owner adjusts the contract value and/or time accordingly.

Provide proper supervision of the HDD operations at all times. Have a representative who is thoroughly knowledgeable of the equipment, boring and the Owner procedures, present at the job site during the entire installation and available to address immediate concerns and emergency operations. Notify the Engineer 48 hours in advance of starting work. Do not begin installation until the Engineer is present at the job site and agrees that proper preparations have been made.

EQUIPMENT REQUIREMENTS

Match the HDD drill rig and its auxiliary pieces of equipment to the diameter and length of pipe product being installed and ensure that the drill rod can meet the bend radius required for the proposed installation. The directional drilling machine consists of a power system to rotate, push and pullback hollow drill pipe into the ground at variable angles while delivering a pressurized fluid mixture to a guidable drill head (bit). Select/design the power system to provide sufficient pressure to power the drilling operations through a leak-free hydraulic system. Anchor the directional drilling machine to the ground to withstand the pulling, pushing, and rotating pressure required to complete the HDD installation. Select a drilling fluid mixing system that is self-contained and closed with sufficient size to mix and deliver drilling fluid to the drill bit. The mixing system will continually agitate the drilling fluid during drilling operations. Select fluids delivery system capable of pumping drilling fluid with sufficient volume and pressure from the mixing tank through the drill rods to the drill head (bit).

Minimize potential damage from soil displacement/settlement/heave by limiting the borehole diameter compared to the pipe product. Select the back reamer size so it creates a large enough borehole to allow cuttings to transfer from the face of excavation to the surface with a minimum soil displacement.

Guidance System

Select an acceptable guidance system to locate and continuously and accurately track the drill head during the pilot bore. The guidance system must be capable of tracking the drill bit in the expected underground environment and at the depth shown on the plans. The acceptable methods include: walkover, wire line, Magnetic Guidance System (MGS) probe, proven (non-experimental) gyroscopic probe, or any other system as accepted by the Engineer. Select the guidance system and the drill rig to deliver the required

horizontal and vertical accuracy required for the pipe product. Use a locating and tracking system capable of ensuring that the proposed installation is executed as intended. If signal interference is encountered that significantly affects the ability to accurately track the drill bit, the Engineer may specify the use of a suitable tracking system. If the Owner informs the contractor about signal interference or it is reasonable to expect interference at the site prior to bidding; select a suitable tracking system without extra cost to the Owner; otherwise the Owner adjusts the contract value and time accordingly. Select the locating and tracking system to provide information on: (a) Clock and pitch information (b) depth (c) transmitter temperature (d) battery status (e) position (x,y) (f) azimuth, where direct overhead readings (walkover) are not possible (i.e. subaqueous or limited access transportation facility). Ensure proper calibration of all equipment before commencing directional drilling operation. Take necessary measures to ensure accurate record drawing. Install all facilities such that their location can be readily determined by electronic designation after installation.

Drilling Fluids

Use a drilling fluids mixture composed of potable water and stabilizing agent - usually bentonite and/or polymer and/or appropriate additives continuously pumped to the drill bit. Design/select the drilling fluid:

1. to transport the spoils;
2. maintain temperatures of bits and transmitter;
3. clean cuttings from drill bit and reamers;
4. reduce friction, pullback, and torque on drill rods and pipe product;
5. stabilize the borehole;
6. control groundwater pressure; and,
7. reduce migration of drilling fluids in soil.

Use water with pH between 6 and 10 and free of chlorine with calcium < 100ppm, sodium chloride < 500ppm, and chlorine < 50ppm. Hard water may be treated with soda ash to reach the required pH. Design the quantity and the mixture of drilling fluids to perform the preceding functions in the expected soil. Vary the fluid viscosity to best fit the encountered soil conditions.

Do not use any other chemicals or polymer surfactants in the drilling fluid without written consent from the Engineer. Certify to the Engineer in writing that any added chemicals are environmentally safe and not harmful or corrosive to the pipe product and the environment. Approvals and permits are required for obtaining water from such sources as streams, rivers, ponds or fire hydrants. Any water source used other than potable water requires a pH test.

Drilling Operations

Prior to the start of the boring operation, survey the work site with x, y, z coordinates at control point at 100/LF intervals at minimum along the planned bore path. Provide stakes at offset distances (left or right) from the centerline at these control points and at all known existing utility crossings. Submit this information to the Owner at least 24 hours before the start of pilot bore operations.

Drill the pilot hole along the path shown on the plans and profile drawings within the allowable tolerance of the type of utility (Sheets 1-5). Provide and maintain instrumentation necessary to accurately locate the pilot hole (both horizontal and vertical placements). Ensure adequate removal of soil cuttings and stability of the borehole by monitoring the drilling fluids parameters such as the pumping rate, pressures, viscosity and density during the pilot bore, back reaming, and pipe product installation. Relief holes can be used as necessary to relieve excess pressure down hole. Obtain the Engineer's approval of the location and all conditions necessary to construct relief holes. Maintain proper disposition of drilling fluids and minimize inconvenience to other facility users.

To minimize heaving during pullback, determine the pullback rate in order to maximize the removal of soil cuttings without building excess downhole pressure. Contain excess drilling fluids at entry and exit points until the recycle, vacuum, or removal from the site during drilling operations. Ensure that entry and exit containments are of sufficient size to contain the expected return of drilling fluids and soil cuttings. Carry out excavation and backfill for entry, exit, recovery pits, connection pits, slurry sump pits, or any other excavation as specified.

Ensure that all drilling fluids are disposed of or recycled in a manner acceptable to the appropriate local, State, or federal regulatory agencies. Remove any excess material upon completion of the bore. Do not continue drilling without the Engineer's consent.

Install all facilities such that their location can be readily determined by electronic designation after installation. For non-conductive installations, attach a continuous conductive tracking (tracer wire) materials, either externally, internally or integral with the product. Tracking conductors must extend two feet beyond bore termini. Test conductors for continuity. Within 48 hours of completing the installation, clean the work site of all excess slurry or spoils, demobilize equipment, and ensure that the site is safe and secured.

Environmental Protection

Take all necessary measures to eliminate the discharge of water, drilling mud, and cuttings to nearby waterways during the HDD work. If applicable, provide equipment and procedures to maximize the recirculation or reuse of drilling mud to minimize waste.

Damage Restoration

Take responsibility for restoration of any damage caused by heaving, settlement, separation of pavement, escaping drilling fluid, or from the directional drilling operation. If the negligence of the contractor causes damage to any facility, restore the facility to its original conditions or better at no additional cost to the Owner.

TESTING

Upon completion of the directional bore, test tracer wire continuity for each bore before acceptance.

METHOD OF MEASUREMENT

The Engineer will measure installed product by the number of feet in place measured from center-to-center of appurtenant small structures, connection points, or between open ends inclusive of lengths of pipe bends and branches. The Engineer will not deduct for catch basins, inlets, or manholes that are 6 feet or less across, measured in the direction of flow. Where the location of an appurtenance, connection point, or an open end is changed with the approval of the Engineer, the Engineer will measure the length placed.

ORANGE COUNTY LANDFILL
SITE ID: 336007

APPROXIMATE LIMIT OF LANDFILL GEOMEMBRANE COVER

RIPRAP DOWN CHUTE

EXISTING LANDFILL

20,000 GALLON ABOVEGROUND GROUNDWATER STORAGE TANK (PROVIDED BY OWNER)

RIPRAP DITCH

BOLLARDS

SET CONTROL PANEL RACK 3" FROM EDGE OF GRAVEL ROAD

HDD RECOVERY WELL (START)

0+00

0+20

0+40

0+60

0+80

1+00

1+20

1+40

1+60

1+80

2+00

2+20

2+40

2+50

DIRECTIONALLY DRILLED (HDD) RECOVERY WELL

PZ-14-1

PZ-14-5

PZ-14-6

PZ-14-3

PZ-14-2

PZ-17-1

PZ-17-2

PZ-14-4

RW-17-1

GRAVEL TANK PAD 12' X 80' MIN

EXISTING ACCESS ROAD

APPROXIMATE PROPERTY BOUNDARY

CANAL MONITORING POINT

CHEECHUNK CANAL (WALLKILL RIVER)

MW-3B

EXISTING SEEP AREAS TO BE STABILIZED PER DETAIL 7 ON SHEET 4

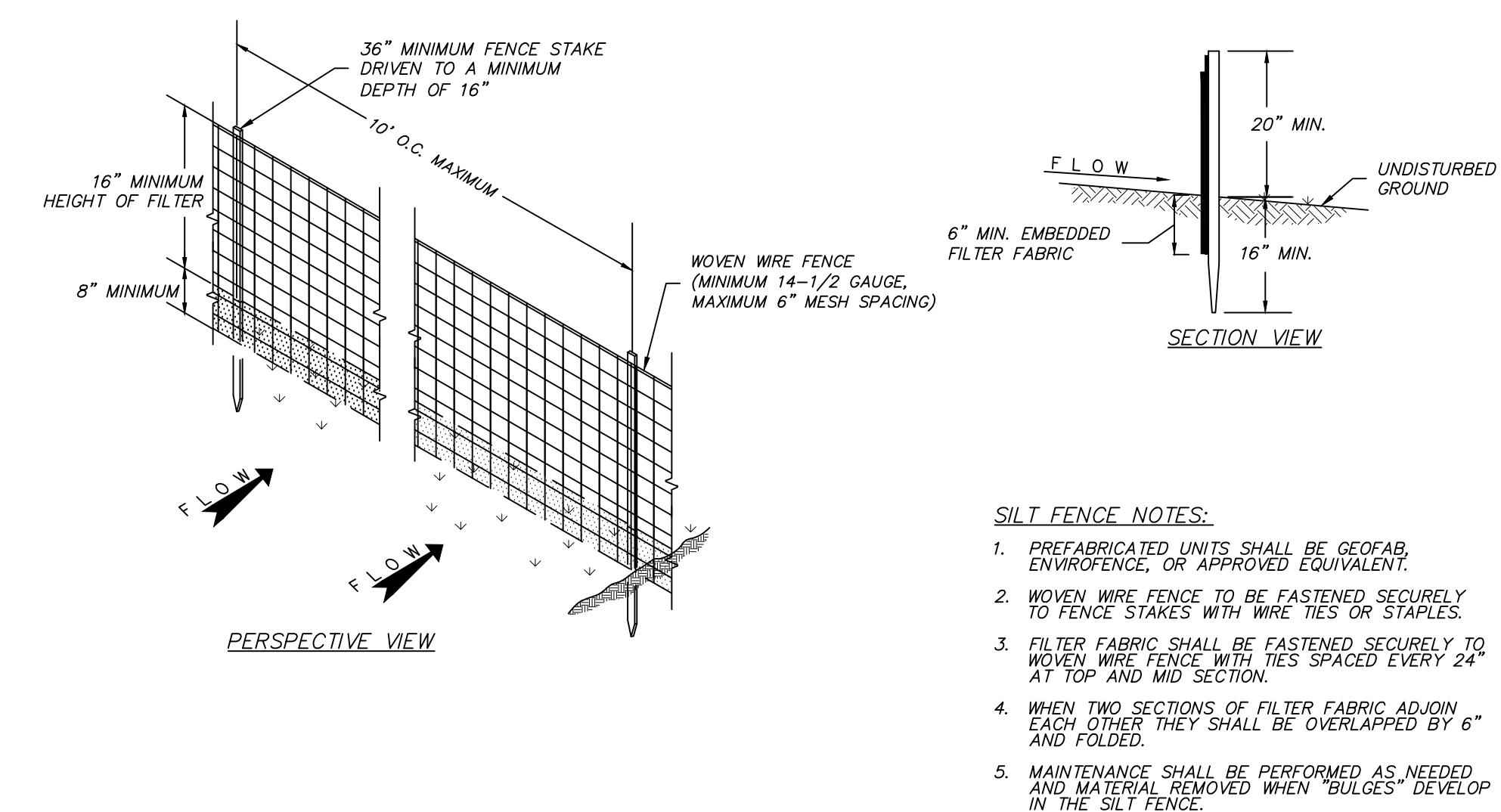
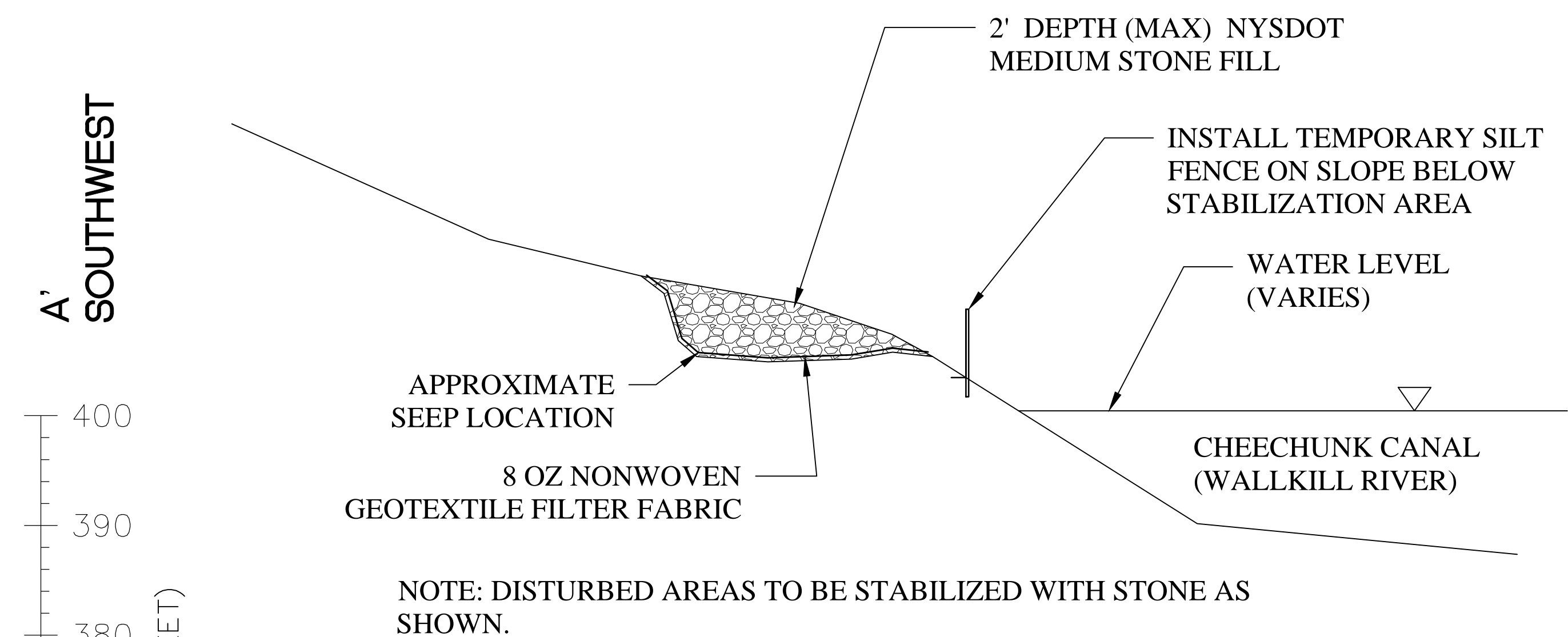
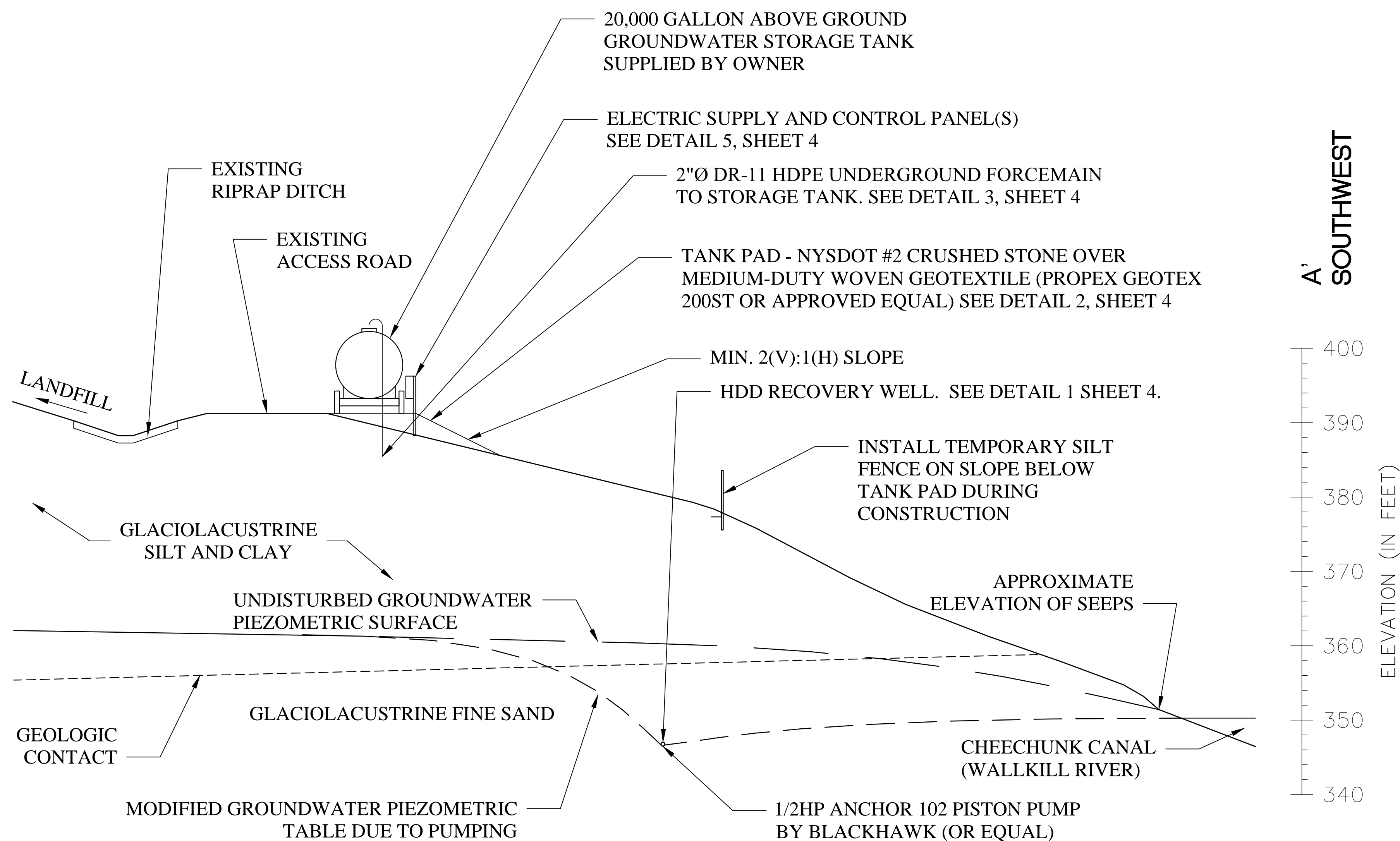
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TO THIS DRAWING IS A VIOLATION OF
SECTION 7209, SUBDIVISION 2 OF THE
NEW YORK STATE EDUCATION LAW.

| PROJECT | | | |
|--------------------|---------|----|--|
| PROJ. ENGR.: | MPM | | |
| PROJ. NO.: | 2010-15 | | |
| PREPARED BY: | MAW | | |
| DRAFTED BY: | TAS | | |
| CHECKED BY: | PJK | | |
| APPROVED BY: | MPM | | |
| DATUM: | NA | | |
| CONTOUR INTERVAL = | NA | FE | |

0 5 10 20 40

1" = 20'

DATE: 11/2/2015 SCALE: 1" = 20' DWG. NO. 2010-15102 SHEET 2 OF 5



MAP REFERENCES:
1. PROPERTY BOUNDARY AND LIMIT OF WASTE FROM DRAWINGS ENTITLED "OVERALL PLAN AND RESTRICTED PARCEL," BY THOMAS J. BARRY, DATED FEBRUARY 14, 2013.

UNAUTHORIZED ALTERATION OR ADDITION
TO THIS DRAWING IS A VIOLATION OF
SECTION 7209, SUBDIVISION 2 OF THE
NEW YORK STATE EDUCATION LAW

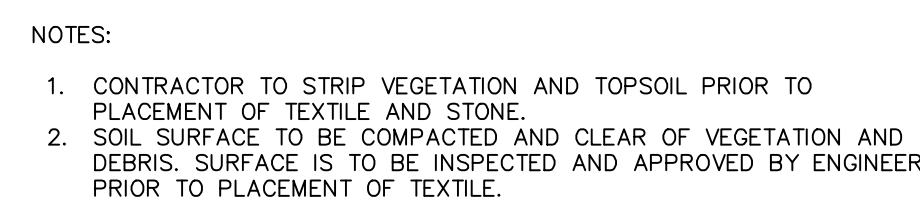
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| PROJECT | | |
|--------------------|---------|------|
| PROJ. ENGR.: | MPM | |
| PROJ. NO.: | 2010-15 | |
| PREPARED BY: | MAW | |
| DRAFTED BY: | TAS | |
| CHECKED BY: | PJK | |
| APPROVED BY: | MPM | |
| DATUM: | NA | |
| CONTOUR INTERVAL = | NA | FEET |

| | | | |
|--|--|---------------------|--|
| PROJECT DETAILS | | | |
| HDD RECOVERY WELL INSTALLATION & SEEP MITIGATION | | | |
| <i>ORANGE COUNTY D.P.W.</i> | | | |
| ORANGE COUNTY LANDFILL, NYSDEC SITE ID# 336007 | | | |
| TOWN OF GOSHEN | | ORANGE COUNTY, N.Y. | |



1. ORANGE COUNTY TO SUPPLY 230V 3-PHASE POWER TO MAIN PUMP CONTROL ENCLOSURE
2. CONTRACTOR TO FIELD FABRICATE POST AND FRAMING CHANNEL SECURELY SUPPORT ALL ENCLOSURES. ADDITIONAL POSTS AND CHANNELS SHALL BE USED AS NEEDED.

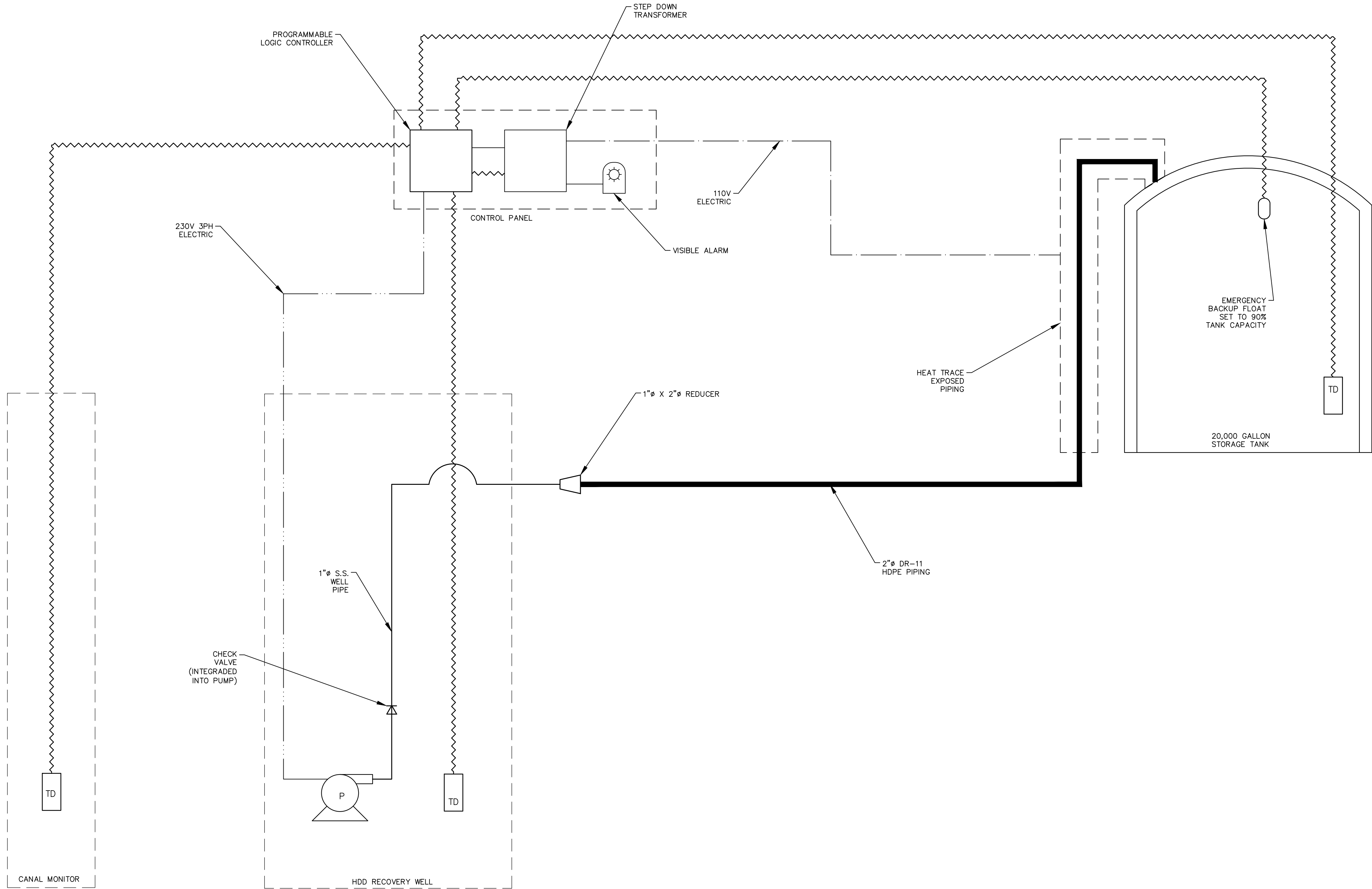


NOTE: SEE SHEET 2 OF 5 FOR BOLLARD LOCATIONS.

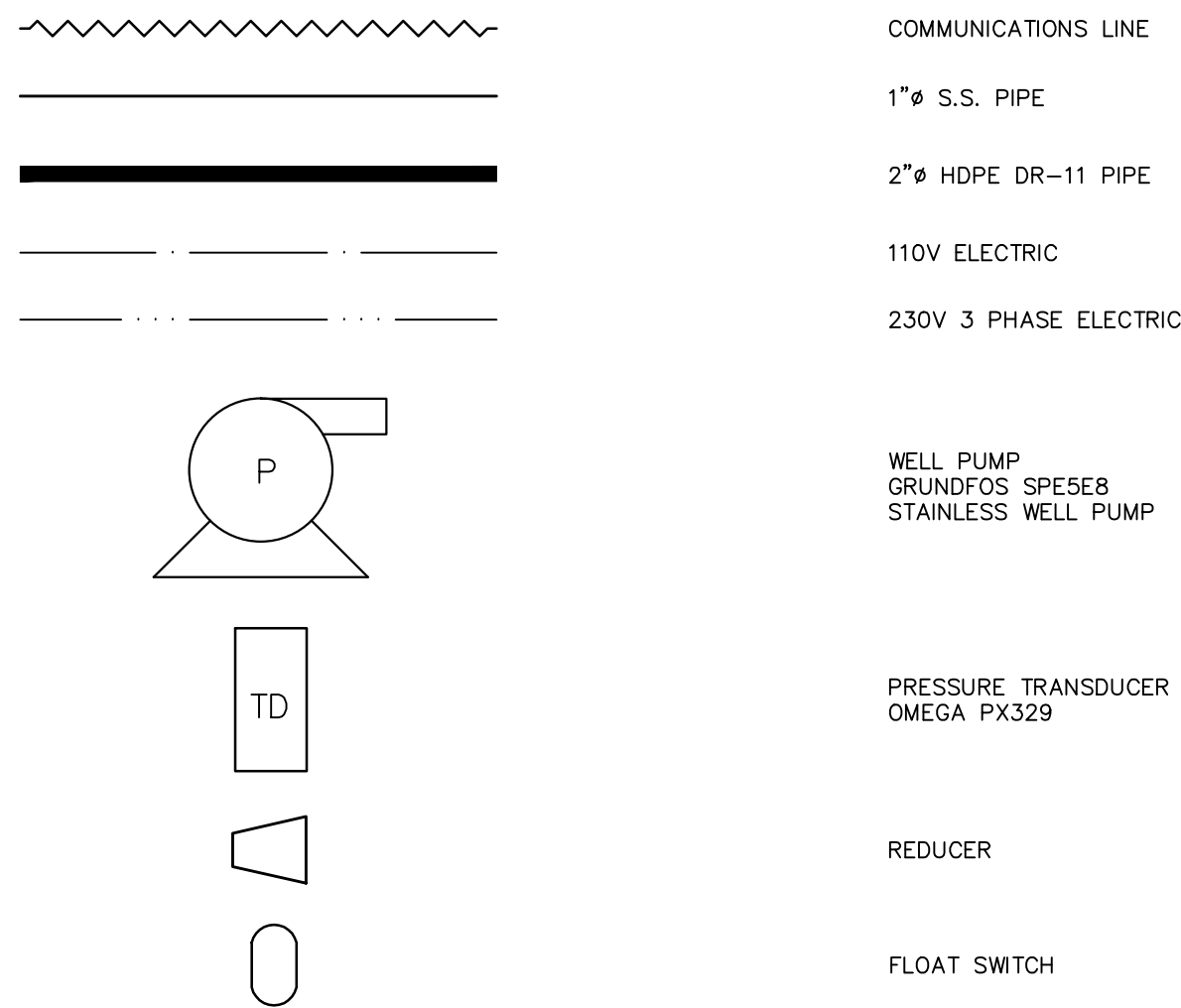


| PROJECT | | |
|--------------------|---------|------|
| PROJ. ENGR.: | MPM | |
| PROJ. NO.: | 2010-15 | |
| PREPARED BY: | MAW | |
| DRAFTED BY: | TAS | |
| CHECKED BY: | PJK | |
| APPROVED BY: | MPM | |
| DATUM: | NA | |
| CONTOUR INTERVAL = | NA | FEET |

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|--|------------|---------------------|----------|
| PROJECT DETAILS | | | |
| HDD RECOVERY WELL INSTALLATION & SEEP MITIGATION | | | |
| ORANGE COUNTY D.P.W. | | | |
| ORANGE COUNTY LANDFILL, NYSDEC SITE ID# 336007 | | | |
| TOWN OF GOSHEN | | ORANGE COUNTY, N.Y. | |
| STERLING | | | |
| Sterling Environmental Engineering, P.C. | | | |
| 24 Wade Road • Latham, New York 12110 | | | |
| DATE: | 11/2/15 | SCALE: | AS NOTED |
| DWG. NO. | 2010-15104 | SHEET | 4 OF 5 |



LEGEND



LOGIC CONTROL ELEVATION SETTINGS

RECOVERY WELL:
PUMP ON - TBD
PUMP OFF - TBD
HIGH ALARM - TBD
HIGH HIGH ALARM - 378'

CANAL MONITOR:
PUMP OFF - 362'

STORAGE TANK:
PUMP OFF ELE - 1' FREEBOARD IN SUPPLIED TANK

| NO. | DATE | RECORD OF WORK | DRN | CKD | APPR |
|-----|---------|-------------------------|-----|-----|------|
| 1 | 9/14/17 | ADDED HDD RECOVERY WELL | TAS | MPM | MPM |
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| PROJECT |
|----------------------------|
| PROJ. ENGR.: MPM |
| PROJ. NO.: 2010-15 |
| PREPARED BY: MAW |
| DRAFTED BY: TAS |
| CHECKED BY: PJK |
| APPROVED BY: MPM |
| DATUM: NA |
| CONTOUR INTERVAL = NA FEET |

| | |
|--|--|
| PIPING & INSTRUMENTATION DIAGRAM | |
| HDD RECOVERY WELL INSTALLATION & SEEP MITIGATION | |
| ORANGE COUNTY D.P.W. | |
| ORANGE COUNTY LANDFILL, NYSDEC SITE ID# 336007 | |
| TOWN OF GOSHEN | ORANGE COUNTY, N.Y. |
| STERLING | |
| Sterling Environmental Engineering, P.C. | |
| 24 Wade Road • Latham, New York 12110 | |
| DATE: 11/2/15 | SCALE: N.T.S. DWG. NO. 2010-15105 SHEET 5 OF 5 |