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July 1, 2004

Hari O. Agrawal, P.E.
Environmental Engineer
New York State Department of Environmental Conservation
Hazardous Waste Remediation - Region 2
47-40 21st Street
Long Island City, New York 11101

Re: Interim Remedial Measure Conceptual Design Plan
Amtrak Sunnyside Yard, Queens, New York

Dear Mr. Agrawal:

Enclosed please find six (6) copies of the Interim Remedial Measure Conceptual Design Plan for Operable Unit 3 for your distribution to all appropriate parties at New York State Department of Environmental Conservation and New York State Department of Health.

If you have any questions or require additional information, please do not hesitate to call.

Sincerely,

ROUX ASSOCIATES, INC.

Charles J. McGuckin
Principal Engineer

Enclosure

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INTERIM REMEDIAL MEASURE
CONCEPTUAL DESIGN PLAN

Sunnyside Yard
Queens, New York

July 1, 2004

Prepared for:

NATIONAL RAILROAD PASSENGER CORPORATION
Washington, D.C., 20002

Prepared by:

ROUX ASSOCIATES, INC.
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ROUX

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1.0 INTRODUCTION

On behalf of the National Railroad Passenger Corporation (Amtrak) and the New Jersey Transit Corporation (NJTC), this Interim Remedial Measure (IRM) Conceptual Design Plan in Operable Unit 3 (OU-3), located in Sunnyside Yard (Yard), Queens, New York, has been prepared by Roux Associates, Inc. (Roux Associates). The location of the Yard is shown in Figure 1. Sunnyside Yard is listed as a Class II Site in the New York State Department of Environmental Conservation's (NYSDEC) Registry of Inactive Hazardous Waste Disposal Sites. Amtrak, NJTC, and NYSDEC entered into an Order on Consent (OOC) Index #W2-0081-87-06 in October 1989.

OU-3 is located on the north side of the Yard and is approximately 8 acres in size. The areal extent of OU-3 is shown on Plate 1. As defined, OU-3 includes a portion of Long Island Railroad property and the following structures:

- Former Engine House and Oil House;
- Former Turntable;
- Former Metro Shed;
- Former Fueling Area;
- Nine abandoned in-place underground storage tanks (USTs);
- Three active tracks and several inactive tracks; and
- An access roadway that services the entire northern portion of the Yard.

The historical extent of separate-phase hydrocarbon (SPH) within OU-3, originally delineated in 1994 and refined through October 1999, occupied approximately 3 acres. The depth to water within the bounds of the SPH varies from approximately 1 foot bls to 3 feet bls, due to variations in grade elevation. On Plate 2, the historical SPH accumulation is shown as an irregular-shaped area with the zero foot petroleum thickness contour line marking the extent of SPH. The measurable SPH consists primarily of weathered diesel/No. 2 fuel oils and contains polychlorinated biphenyls (PCBs) in the SPH matrix.

To date, the Phase I through Phase III IRM recovery systems have collectively removed approximately 11,000 gallons of SPH from the accumulation area for proper disposal. The result of this removal, as evidenced by the historical and current SPH accumulation as shown on Plate 3, has been a significant decrease in the measured SPH thickness in OU-3 monitoring wells and the horizontal extent of the SPH accumulation (i.e., many locations with measured historic SPH thickness that now contain no SPH).

This document provides a conceptual IRM design plan for addressing SPH within OU-3 and provides a summary of previous and current investigation results that were evaluated to establish this design plan. The primary objective of this conceptual design is to address the portion of OU-3 with maximum SPH accumulation and grossly contaminated surficial soil impacts, as shown on Plate 9. There exist some areas to be addressed outside of the extent of this portion of OU-3. Those areas are not part of this IRM and will be addressed in the Feasibility Study for OU-3.

2.0 SUMMARY OF PREVIOUS AND CURRENT INVESTIGATIONS

The NYSDEC set forth compounds of concern (COCs) in soil and recommended cleanup levels for the COCs across the Yard. The COCs and cleanup levels are as follows:

- PCBs – 25 parts per million (ppm)
- Total of seven specific polycyclic aromatic hydrocarbons (i.e., benzo[a]anthracene, benzo[a]pyrene, benzo[a]fluoranthene, benzo[k]fluoranthene, chrysene, dibenzo[a,h]anthracene, indeno[1,2,3-cd]pyrene) considered by NYSDEC to be carcinogenic (cPAHs) – 25 ppm
- Lead – 1,000 ppm.

The OU-3 Remedial Investigation (RI), in conjunction with several other previous investigations, evaluated the presence of COCs in OU-3. The results of these investigations are provided in the OU-3 RI report, submitted to the NYSDEC on March 29, 2001 (Roux Associates, 2001). Subsequent investigations, including the Supplemental RI and Pre-Design Study, as well as continued operation and monitoring of the Phase III IRM system have been performed to further characterize the extent of SPH and soil quality conditions in OU-3. These supplemental efforts are discussed in the following sections.

2.1 Supplemental RI Summary

Physical observations in soil borings during the RI soil sampling indicated potential petroleum impacts below the SPH accumulation. This prompted a supplemental investigation of OU-3 to accomplish the following objectives:

- Complete the vertical delineation of petroleum impacts within and surrounding the SPH accumulation in OU-3;
- Characterize saturated soil quality within and surrounding the SPH accumulation in OU-3; and
- Characterize unsaturated surface soil quality for PCBs in areas of OU-3 not previously sampled for PCBs.

The Supplemental RI was performed in accordance with the August 1, 2003 Addendum to the June 23, 1997 (Revised January 13, 1999) Work Plan for the Operable Unit 3 Remedial Investigation (Addendum WP) as amended by the Roux Associates letter dated November 7, 2003 (Roux Associates, 2003).

2.1.1 Task I: Completion of Vertical Delineation of Petroleum Impacts Within and Surrounding the SPH Accumulation in OU-3

The Supplemental RI soil-boring program to complete the vertical delineation of petroleum impacts within and surrounding the OU-3 SPH accumulation consisted of the completion of 20 soil borings (HD-1 through HD-20, shown on Plate 1) to a minimum depth of 24 feet bls, with two borings (HD-7 and HD-8) completed to 40 feet bls, utilizing the Cone Penetrometer Test (CPT) unit equipped with a Ultra-Violet Induced Fluorescence (UVIF) module. The CPT/UVIF combined the downhole analysis of UVIF from hydrocarbon contamination and the geologic logging capabilities of the CPT. The field data were provided to the NYSDEC as acquired.

2.1.2 Task II: Characterizing Saturated Soil Quality Within and Surrounding the SPH Accumulation in OU-3

The supplemental soil-boring program to complete characterization of saturated soil quality within and surrounding the SPH accumulation in OU-3 consisted of the completion and sampling of 20 soil borings adjacent to each CPT/UVIF boring (HD-1 through HD-20, Plate 1). A minimum of two saturated soil sample intervals from borings exhibiting hydrocarbon impact (i.e., UVIF, hydrocarbon staining or odor, elevated PID readings, visible SPH) were selected for analyses. The two samples were collected from the interval exhibiting the highest degree of hydrocarbon impact below the smear zone (the smear zone is defined as the 2-foot interval straddling the oil/water interface) and the first unimpacted interval beneath the hydrocarbon impacted zone. All sample intervals collected for laboratory analyses were field screened for physical evidence of hydrocarbon contamination as previously described and observations were recorded in the field notebook. If hydrocarbon impact was not observed in a boring, at a minimum the first sample interval below the water table was selected for analyses. At some locations, additional samples were collected at select zones of interest. A total of 41 saturated soil samples from the 20 borings were collected for laboratory analyses.

2.1.3 Task III: Characterizing Unsaturated Surface Soil Quality for PCBs in Areas of OU-3 Not Previously Sampled.

A total of 14 hand borings (S-150 through S-163, Plate 1) were completed and sampled during the OU-3 Supplemental RI to further characterize unsaturated surface soil for PCBs in areas of OU-3 that were not previously sampled. Roux Associates personnel collected 14 unsaturated soil samples for laboratory analyses for PCBs.

2.1.4 Summary of Supplemental RI Results

A total of 41 saturated soil samples and 14 unsaturated soil samples were collected for analysis. Table 1 presents a summary of the soil quality sampling performed during the OU-3 Supplemental RI. Unsaturated samples were analyzed for PCBs only, and saturated soil samples were analyzed for one or more of the following:

- PCBs;
- Target Compound List (TCL) semivolatile organic compounds (SVOCs);
- Polycyclic Aromatic Hydrocarbons (PAHs);
- Target Analyte List (TAL) metals;
- Lead only; and
- TCL volatile organic compounds (VOCs).

Analyses were performed following the latest NYSDEC analytical services protocols (ASP) with Category B deliverables provided. Data Validation and Data Usability Reports will be provided in the Final RI report.

2.1.4.1 Delineation of Hydrocarbon Impacts in Saturated Soil

The Addendum WP specified the use of a combination of physical observations (i.e., hydrocarbon staining, odor, SPH, and shake test), PID readings (five times above background level), and UVIF response to target characterization sample collection intervals which were defined as the most highly impacted and first non-impacted interval in each boring. However, because the UVIF technology proved so successful in detecting hydrocarbon impacts, Roux Associates proposed to NYSDEC that UVIF be the soil criterion used to determine sampling intervals.

The NYSDEC response required that three control borings (HD-7, HD-8, and HD-10) be completed initially and screened as described in the Addendum WP and, if the screening data corresponded with the UVIF data, then the characterization sample intervals for the remaining borings could be determined from the UVIF data. Accordingly, the three control borings were completed and continuous core samples were collected and screened for physical evidence of petroleum impacts. The resulting satisfactory correlation of the UVIF data and the control

boring screening data indicated that the UVIF was an acceptable method for determining characterization sample intervals in the remaining borings. Additionally, continuous core samples were collected and screened at boring locations HD-4 and HD-5 from the final CPT/UVIF depth attained to the Addendum WP required 24 feet bls.

The CPT/UVIF data is provided in Appendix A. Soil Boring Geologic Logs are provided in Appendix B. Cross-sections A – A' and B – B', depicting the vertical extent of hydrocarbon impact across the SPH accumulation based on the UVIF data, are shown on Plate 4 and Plate 5, respectively. The cross-section locations are shown on Plate 1.

2.1.4.2 Summary of Soil Quality Results

The analytical data collected to complete characterization of both saturated and unsaturated soil in OU-3 are presented in Tables 2 through 6 and are summarized below. The analytical results were compared to the site-specific cleanup levels for the COCs (PCBs, cPAHs, and lead) and to the current NYSDEC recommended soil cleanup objectives (RSCOs), if any, for other compounds. Concentrations of metals with no RSCO were compared to Eastern United States Background concentrations. Data for PCBs, cPAHs, and lead (the compounds of concern at the Yard) are also presented on Plates 6 through 8, respectively along with historic data for these compounds.

Polychlorinated Biphenyls

A total of 53 soil samples, 39 saturated (designated with the prefix HD) and 14 unsaturated (designated with the prefix S) were collected during the OU-3 Supplemental RI and analyzed for PCBs. Analytical results are presented on Plate 6 and in Table 2. As shown in the table, PCB concentrations in saturated soil ranged from non-detect in 22 of the 39 samples to a high of 1,500 µg/kg in sample HD-15C (Sample Depth: 6-8 ft). PCB concentrations in unsaturated soil ranged from 67 µg/kg in sample S-154 (Sample Depth: 0-2 ft) to a high of 4,500 µg/kg in sample S-161 (Sample Depth: 0-2 ft). None of the saturated or unsaturated soil samples exceeded the NYSDEC-recommended soil cleanup level for PCBs at the Yard of 25,000 µg/kg.

Semivolatile Organic Compounds

A total of 23 saturated soil samples were collected during the OU-3 Supplemental RI and analyzed for cPAHs only. Further, 18 additional saturated soil samples were analyzed for full SVOCs, including cPAHs. The analytical results for all 41 samples that included cPAH analyses are presented on Plate 7 and in Table 3. As shown in the table, total cPAH concentrations ranged from non-detect in 31 of the 41 samples to a high of 2,090 µg/kg in sample HD-3 (Sample Depth: 5-7 ft). None of the saturated samples exceeded the NYSDEC-recommended soil cleanup level for cPAHs at the Yard of 25,000 µg/kg. As shown in Table 4, 2-methylnaphthalene was the only SVOC detected at a concentration that exceeded the respective RSCO. This compound is found throughout OU-3, as it is slow to biodegrade under certain anoxic conditions

Volatile Organic Compounds

A total of 21 saturated soil samples were collected during the OU-3 Supplemental RI and analyzed for VOCs. Analytical results are presented in Table 5. As shown in the table, only one of the 21 samples (HD-8 [Sample Depth: 7-9 ft]) contained VOCs (total xylenes, 2-butanone, and methylene chloride) at concentrations that exceed the RSCOs. The Data Usability Report discusses that the detections of 2-butanone and methylene chloride may be attributed to laboratory contamination. The Data Usability Report, and further detail regarding these detections, will be provided in the Final RI report.

Metals

A total of 15 saturated soil samples were collected during the OU-3 Supplemental RI and analyzed for TAL metals, including lead. Further, 23 additional saturated soil samples were analyzed for lead only. The analytical results for lead are presented on Plate 8 and the analytical results for all 38 samples are presented in Table 6. As shown in the table, lead concentrations ranged from 1.5 mg/kg (1.5 ppm) in sample HD-16 (Sample Depth: 13-15 ft) to a high of 182 mg/kg (182 ppm) in sample HD-17 (Sample Depth: 4-6 ft), all below the NYSDEC-recommended soil cleanup level for lead at the Yard of 1000 ppm. Chromium, copper, iron, nickel, and zinc exceeded the respective RSCO in one or more samples. Magnesium exceeded the Eastern USA Background criteria in two samples.

The Supplemental RI soil quality sampling results can be summarized as follows:

Parameters	Samples Collected	Exceedance of Site Specific Cleanup Level	Exceedance of RSCO
PCBs	39 saturated 14 unsaturated	**None**	NA
cPAHs	23 saturated	**None**	NA
SVOCs	18 saturated	NA	2-methylnaphthalene (6 locations)
VOCs	21 saturated	NA	Total xylenes, 2-butanone, and methylene chloride (1 location)
Metals	15 saturated	NA	Chromium, copper, iron, nickel, and zinc (1 or more locations)
Lead	38 saturated	**None**	NA

In conclusion, the three objectives of the Supplemental RI: completion of the vertical delineation of petroleum impacts within and surrounding the SPH accumulation in OU-3; characterizing saturated soil quality within and surrounding the SPH accumulation in OU-3; and characterizing unsaturated surface soil quality for polychlorinated biphenyls were successfully completed. Further, no compounds of concern were detected above the NYSDEC-recommended site-specific cleanup levels in either saturated or unsaturated soil in the Supplemental RI.

2.1.4.3 Conclusions from RI Activities

In conjunction with the results of the OU-3 RI and the Supplemental RI, the COCs were thoroughly evaluated in both shallow, unsaturated soil and deeper saturated soil from below the water table (i.e., 122 PCB samples, 54 cPAH samples, and 88 lead samples). Based on this evaluation, there have been only four locations where concentrations of the COCs in shallow unsaturated soil (0 to 2 ft bls intervals) exceeded the respective site-specific soil cleanup level (one PCB, one cPAH, and two lead). The cPAH exceedance and one lead exceedance were previously remediated during activities associated with construction of the High Speed Trainset S&I Building tracks

Previously remediated areas are depicted on Plates 6 through 8. The PCB exceedance (location CS-76) and other lead exceedance (location S-62) will be remediated in the IRM.

Since the Supplemental RI work has been completed, Roux Associates is now preparing the final RI report and the Feasibility Study (FS) WP for submittal to the NYSDEC.

2.2 Pre-Design Study

A Pre-Design Study has been initiated in OU-3 to further evaluate the SPH accumulation and potential soil remediation technologies in OU-3. This study has been implemented in accordance with the Pre-Design Work Plan (Roux Associates, 2004), submitted to the NYSDEC in March 2004. The objectives of the Pre-Design Study included the following:

- Obtain a current measure of the mobile SPH accumulation thickness and water table elevation over a selected monitoring period;
- Complete a Treatability Study to evaluate the effectiveness of enhanced bioremediation and chemical oxidation technologies in treating SPH accumulation and residual hydrocarbon impacts in OU-3; and
- Further, evaluate the contents of the Engine House inspection pits, the basement of the former Oil House, and former underground storage tank areas.

Based on historic SPH thickness measurements and ground water elevation data, the Subsurface Evaluation Area was established, as shown on Plate 1. To the extent possible, limited by property boundaries and structure and track constraints, the Subsurface Evaluation Area encompasses the area of maximum SPH accumulation and was developed to focus the Pre-Design Studies and IRM within OU-3.

2.2.1 SPH Accumulation Monitoring

The implementation of the Pre-Design Study is currently in progress. Seven additional monitoring wells have been installed and gauged on a weekly basis. Based on weekly gauging measurements, the current extent of SPH accumulation on Amtrak property has been determined. Apparent thickness measurements range from a sheen at the fringes to over 3 feet thick in the area of maximum accumulation (Plate 3).

2.2.2 Site Characterization Sampling

Baseline site characterization sampling for the Soil Remediation Treatability Study task of the Pre-Design Study has been completed. The objective of this task was to characterize the physical, chemical, and biological properties of soil and groundwater and to evaluate SPH thickness observations from within and outside of the Subsurface Evaluation Area.

The soil baseline characterization sampling and analysis has been completed. At six locations (i.e., four locations within [PDB-1, PDB-2, PDB-5, PDB-6] and two locations outside of the Subsurface Evaluation Area [PDB-3 and PDB-4], as shown on Plate 1), two samples were collected from each boring location for analysis. One sample was collected from the 2-foot interval straddling the oil/water interface (i.e., smear zone) and the second was collected from the next deeper 2-foot interval of saturated soil. Each sample was submitted for analysis for SVOCs, diesel range organics (DRO), nutrients including ammonia, nitrate, nitrite, nitrogen, and phosphorous, total heterotrophic plate count, and total organic carbon to evaluate existing biodegradation conditions. The SVOC and DRO data are presented in Tables 7 and 8. All other baseline characterization data will be presented in the Pre-Design Study Summary Report.

DRO concentrations ranged from 2,400 to 14,000 mg/kg and total SVOC concentrations ranged from 5,206 ug/kg to 139,370 ug/kg, consisting primarily of PAHs including 2-methylnaphthalene. Nitrate and nitrites were not detected in any samples, indicating a nutrient deficient subsurface environment. High total organic carbon (TOC) concentrations were observed in the smear zone interval, defined above as the two foot interval straddling the oil/water interface, which may be attributed to historic marsh sediments in this area of OU-3. Heterotrophic plate counts ranged from non-detect to 760,000 colony-forming units per gram (CFU/gram). These plate counts, though not in the ideal range of 10^6 to 10^8 CFU/gram, are sufficient indicators of biodegradation potential. As expected, microbial counts increased with depth (i.e., in the saturated sample) as TOC decreased with depth. Therefore, based on the testing results and observed correlations, it appears that the slightly low microbial count is attributed to the low nutrient content in the subsurface, resulting in sustained residual DRO concentrations and slowed natural biodegradation. Application of nutrient amendments may provide adequate stimulation to increase microbial counts and biodegradation rates.

Groundwater sampling for analysis of geochemical parameters and treatability studies to determine the effectiveness of biodegradation and chemical oxidation are anticipated to be performed in the upcoming summer months.

2.2.3 Evaluation of Contents of Engine House Inspection Pits, the Former Oil House Basement, and Former UST Areas

The Engine House inspection pits and former Oil House basement were inspected for evidence of a continuing source of SPH or PCBs that would recontaminate the IRM area. The former Engine House was abandoned in 1995 and capped with concrete (Plate 1). SPH was previously observed within the inspection pits and was pumped out prior to placing the concrete cap. Several vent locations in the concrete cap were recently utilized to evaluate the potential for SPH to have re-accumulated in the Engine House. The evaluation indicated that only 0.01 feet of SPH exist today, floating on water in the pits. Therefore, the inspection pits do not present a source of SPH recontamination.

The former Oil House was abandoned in 1980 (Plate 1). In November 1980, contamination was remediated in the basement of the former Oil House. The basement was cleaned, filled with soil, and a concrete cap placed over the structure. Two soil borings were completed through the concrete cap and soil samples were collected in April 2004 to evaluate the potential for SPH in the basement. No SPH was detected in these borings. Therefore, the basement does not present a source of SPH recontamination.

Nine USTs are located in the two former UST areas of OU-3, as designated on Plate 1. It has been documented that each of these USTs have been take out of service and filled with sand. These tanks will be investigated in July 2004 to confirm the method of abandonment and determine if they may represent a continuing source of SPH recontamination. Final closure of these tanks will be addressed in the IRM Work Plan.

2.3 Previous Groundwater Investigations

Based on groundwater analysis performed during previous investigations, groundwater in OU-3 is only slightly impacted at concentrations above the New York State Ambient Water Quality Standards (NYSAWQS) from the Yard-related activities. Groundwater in OU-3 is more

severely impacted by multiple documented offsite sources of contamination and by saltwater intrusion. It is important to note that groundwater near the Yard is not used for potable supply.

PCBs have been detected in OU-3 groundwater sporadically at concentrations that exceed Class GA Groundwater standards. However, based on the sporadic nature of these detections and the low solubility of PCBs in water, they are more likely the result of SPH or sediment in the sample rather than PCBs dissolved in groundwater.

SVOCs were detected in only one former OU-3 monitoring well (MW-59) at concentrations that exceed their respective Class GA Groundwater standard. The second of three sampling rounds from this well had estimated detections of four individual cPAHs that exceeded the standard (during the first and third sampling rounds, these compounds were non detect). It is not likely that the detections are attributable to the OU-3 SPH accumulation as this monitoring well was located hydraulically upgradient from the SPH accumulation and by the sporadic nature of the detections, they are more likely the result of sediment in the sample than cPAHs dissolved in groundwater.

VOCs (BTEX and chlorinated compounds) have been detected in OU-3 groundwater sporadically at concentrations that exceed Class GA Groundwater standards. Detections of these compounds are limited to monitoring wells along the northern property boundary or on LIRR property, all hydraulically downgradient from the Standard Motor Products (SMP) property. SMP is a Class II listed site with VOCs (BTEX and chlorinated compounds) detected to 20 ft bls and BTEX concentrations up to 3,430 µg/L in groundwater, and likely the source of BTEX and chlorinated compound detections in OU-3.

Metals have been detected in OU-3 groundwater at concentrations that exceed Class GA Groundwater standards including Arsenic (1-unfiltered Geoprobe™ sample); Antimony (4 samples); Iron (28 samples); Lead (6 samples); Magnesium (1 sample); Manganese (29 samples); Sodium (21 samples); and Zinc (1 sample). Some of these metals are likely attributed to the upgradient SMP property, salt water intrusion of the aquifer contributing to the magnesium concentrations and anoxic conditions within the aquifer contributing to the iron and manganese concentrations.

3.0 IRM CONCEPTUAL DESIGN

The RI, Supplemental RI and other previous investigations in OU-3 have defined the extent of SPH accumulation in OU-3, while on-going investigations continue to refine this extent and characterize subsurface conditions in an effort to develop remedial options. The passive Phase III IRM recovery trench continues to operate by recovering SPH from the area with maximum accumulation. However, in an effort to expedite the remediation of OU-3, an IRM conceptual design has been developed to actively address the area of maximum SPH accumulation in OU-3, as well as grossly contaminated surficial impacted soils. The IRM remedial approach includes the following elements:

- Excavation of soil and removal of SPH in the area of maximum accumulation;
- Excavation and removal of grossly contaminated surficial soil; and
- Former fuel pump structure removal, as required within the soil excavation area.

3.1 Excavation of Soil and Removal of SPH in Area of Maximum Accumulation

The proposed IRM comprises an area to be excavated that lies completely within the SPH accumulation (Plate 9). In addition to data justifications (i.e., chemical quality and SPH thickness), there are physical boundaries/constraints of the active Yard and property boundaries that limit the extent of the IRM excavation (Plate 9). The IRM is partly bounded by these structures (i.e., the former Engine House footings and potentially the former Hump Track wall foundation) that act as a physical barrier to SPH migration and by use/access constraints (i.e., the IRM is restricted to the north by the location of the Amtrak North Runner track). The Supplement to the Pre-Design Study Work Plan for OU-3 – Investigation of Hump Track Foundation (Roux Associates, 2004) has been prepared to verify the presence of the Hump Track wall foundation and determine the influence this foundation may have in acting as a physical barrier to SPH migration. This work plan is provided in Appendix C.

Adjacent to the North Runner Track, the excavation will extend to comply with Amtrak's safety and operational requirements (assumed to be five feet from the end of the railroad tie for an excavation five feet deep [i.e., 45 degree angle]). Following the IRM excavation, the Phase III SPH recovery trench system, located to the north of the North Runner track, will be restored to recover any remaining recoverable SPH within the North Runner Track footprint that is not

addressed by the IRM excavation. There are no COCs detected in soil in the track area and most importantly, the 2-inch piezometer located downgradent of the recovery trench on LIRR property (designated as TA-2, Plates 3 and 9) contains a measured apparent thickness of only 0.2 to 0.3 feet of SPH. Soils remaining outside of the IRM excavation contain significantly less quantities of residual SPH and low levels of SVOCs and are suitable for less aggressive in-situ remedy approaches consistent with the site wide continued rail yard usage activities.

Based on historical groundwater elevation data, an IRM excavation to one foot below the average annual low water table elevation will result in removal of all SPH within the IRM footprint and the majority of the smear zone soil contaminated with residual hydrocarbons within the IRM. Table 9 presents the average annual low water table elevation for the past 5 years as measured in representative monitoring wells in the IRM area. The average depth of excavation will be 3.5 to 4.5 feet below existing land surface (bls). Therefore, approximately 3,000 cubic yards of soil will be excavated.

The presence of mobile SPH at the excavation boundaries will be monitored throughout the excavation. During the excavation as groundwater is exposed, visible floating SPH in the groundwater table will be removed by vacuum truck or pumping to a storage tank and disposed properly. Visual evidence of heavily petroleum-impacted soil will be noted at the excavation sidewalls. Additional measures, such as further excavation or recovery of mobile SPH, may be required should the presence of mobile SPH be discovered at the sidewalls. However, as stated above, the extent of IRM excavation is limited to the north by the North Runner Track and property boundary constraints and to the west by the Engine House footings, and additional excavation may not be feasible. Further description of these contingency measures will be developed in the IRM Work Plan.

Following completion of the IRM excavation, confirmatory samples will be collected and submitted for analysis for the COCs. If COCs are exceeded, the need for additional excavation will be evaluated as an extension of the IRM.

The excavated soil will either be transported off-site for disposal and clean fill will be used for backfill or on-site ex situ treatment with reuse of the treated soil for backfill will be

implemented. If reuse of treated soil is selected, the top 6-inches of backfill will be provided from a clean offsite gravel source suitable for compaction. The results of the Soil Remediation Treatability Study task of the Pre-Design Study will aid in determining the practicality and feasibility of ex-situ treatment of this soil. Evaluation of onsite ex-situ treatment will be provided in the Pre-Design Study Summary Report.

In addition to the approximate 11,000 gallons of SPH previously recovered by the Phase I through Phase III IRM recovery systems, recent SPH apparent thickness measurements indicate that approximately 75 percent of the existing remaining total mass of SPH within and above the smear zone within the 0.1 ft thickness contour in OU-3 will be removed by the IRM. PCB concentrations in the SPH from monitoring well samples collected on April 22, 2004 range from a low of 0.46 ppm to 270 ppm, with the highest concentrations within the area of the IRM excavation. Additionally, the PCB exceedance in soil (location CS-76) and the lead exceedance in soil (S-62) will be remediated in the IRM excavation (Plate 9).

The horizontal and vertical extent of the proposed IRM excavation are further justified by the following elements:

- COCs in soil – there are no COCs (PCBs, cPAHs, lead) exceedances located outside (either below or adjacent to) the IRM excavation;
- PCBs in SPH – there are no PCBs in SPH greater than 25 ppm outside of the IRM excavation; and
- Excavation deeper than one foot below the average annual low water table would remove only a very small amount of additional residual SPH impact, would not remove any COCs, and would not be any more protective of groundwater quality, since groundwater is not being impacted. Furthermore, deeper excavation would incur sheeting/shoring, dewatering system permitting and installation, treatment and disposal of dewatering effluent, additional soil stabilization prior to transport, and more disruption to Yard operations. The incremental cost for increasing the depth of excavation by just 1-foot and incorporating these additional measures would double the unit cost for excavation from $55/CY to $110/CY.

The potential for recontamination of the IRM area from the residual SPH accumulation not excavated as part of the IRM and existing structures adjacent to the IRM was evaluated. The SPH impacted material adjacent to and beneath the IRM is being further evaluated as part of the Pre-Design Study for the potential of residual SPH contamination to mobilize and "wick" into

the clean backfill. The results of this testing will be provided in the Pre-Design Summary Report. Based on preliminary analysis, the potential for wicking is very low because of the inherent interfacial tension properties of the saturated soils and the low capillary rise potential of the granular backfill material. The adjacent structures that could possibly contain SPH that might migrate into the IRM area were evaluated. As discussed in Section 2.2.3, the Engine House inspection pits, and the former Oil House basement do not present a source of SPH recontamination. The Metro Shed inspection pit and foundation were cleaned prior to filling with soil. Subsequent sampling of the fill material and soil under the foundation confirmed that this structure is not a source of SPH recontamination. The USTs will be evaluated during the Pre-Design Study and are not anticipated to present a source of SPH recontamination based on recent SPH monitoring results.

A preliminary exposure assessment was performed for the soil and residual SPH outside of the IRM excavation that included the USEPA Vapor Intrusion Model. The model utilized conservative generic assumptions for xylene and 2-methylnaphthalene concentrations in soil and indicated that based on the concentrations detected in soil, there is no concern for vapor intrusion into potential future structures to be built within the historic SPH accumulation in OU-3 (Figures 1 and 2 of Appendix D). On-site workers are periodically exposed to surface soil, however, the SPH impacted surface soil will be removed, as part of the IRM and the remaining surface soil does not exceed the COCs. A summary of the findings and detail of the assumptions used for the modeling are included in Appendix D.

Since the majority of the mass of SPH, as well as the majority of PCB contamination in the SPH, in OU-3 will be removed, this IRM will serve as the final remedy for this portion of OU-3. Further, this IRM will constitute the majority of the overall remedy of OU-3 with remaining issues to be addressed in the Feasibility Study (FS). Residual SPH-related soil contamination in OU-3 that is not excavated as part of this IRM will be addressed in the FS using a combination of the following:

- Environmental Easement
- Soil Management Plan
- In-situ Monitored Natural Attenuation

- In-Situ Enhanced Bioremediation
- Long-Term Groundwater Monitoring

3.2 Excavation of Surficial Visually Impacted Soil

The extent of petroleum impacted surficial soil has been delineated to the north, west and east of the former Engine House, within the historic SPH accumulation and partly within the IRM (Plates 6 through 8). Approximately 21,000 square feet (sf) of surface soil is visually petroleum-impacted to an average depth of 1 foot. All visually impacted soil is located above the water table. As part of the IRM excavation, surficial stained soil will be excavated to the limits shown on Plate 9 and backfilled with clean fill. Details regarding the excavation of surficial visually impacted soil will be provided in the IRM Work Plan.

3.3 Removal of Former Fuel Pump Structure

The former underground fuel storage area, located immediately north of the form Metro Shop, consisted of nine USTs. Five of the nine USTs formerly stored No. 2 fuel oil and were connected by underground pipelines to the former fuel transfer area, located to the northeast of the former Engine House (Plate 1). The former fuel transfer area consists of two concrete vaults extending underground containing fuel pumps. As part of this IRM, the west underground concrete vault will be removed to facilitate the IRM excavation. The east concrete vault and the nine USTs will be addressed in the IRM Work Plan.

4.0 PROPOSED IRM SCHEDULE

Presently, the remaining tasks of the Pre-Design Study, including the SPH accumulation gauging, the Soil Remediation Treatability Studies, the UST evaluation, and the SPH capillary rise evaluation, are being conducted. The Pre-Design Study is anticipated to be completed during September 2004. The results of these tasks will be documented in the Pre-Design Study Summary Report and will be used in determining potential ex-situ soil treatment technologies and to define the IRM work scope. Following the NYSDEC acceptance of the IRM Conceptual Design approach and submittal of the Pre-Design Study Summary Report, an IRM Work Plan will be developed and submitted to the NYSDEC for review.

Sincerely,

ROUX ASSOCIATES, INC.

Charles J. McGuckin

Charles J. McGuckin
Principal Engineer

Table 1. Summary of Soil Quality Sampling, Supplemental RI in OU-3
Sunnyside Yard, Queens, New York

Sample Location/ Designation	Sample Depth Interval (Ft. Below Land Surface)	Analytes
HD-1	4 to 6	TCL VOCs, PCBs, cPAHs, Lead
HD-2	9 to 11	PCBs, cPAHs, Lead
HD-2	13 to 15	PCBs, cPAHs, Lead
HD-3	5 to 7	PCBs, cPAHs, Lead
HD-3	8 to 10	PCBs, cPAHs, Lead
HD-3	20 to 22*	SVOCs
HD-4	8 to 10	TCL VOCs, TCL SVOCs, PCBs, TAL Metals
HD-4	14 to 16	TCL VOCs, TCL SVOCs, PCBs, TAL Metals
HD-5B	9 to 11	PCBs, cPAHs, Lead
HD-5B	15 to 17	PCBs, cPAHs, Lead
HD-6	9 to 11	TCL VOCs, TCL SVOCs, PCBs, TAL Metals
HD-6	18 to 20	TCL VOCs, TCL SVOCs, PCBs, TAL Metals
HD-7	8 to 10	TCL VOCs, TCL SVOCs, PCBs, TAL Metals
HD-7	21 to 23	TCL VOCs, TCL SVOCs, PCBs, TAL Metals
HD-8D	7 to 9	TCL VOCs, TCL SVOCs, PCBs, TAL Metals
HD-8D	20 to 22	TCL VOCs, TCL SVOCs, PCBs, TAL Metals
HD-8D	36 to 38*	TCL VOCs, TCL SVOCs, PCBs
HD-9	8 to 10	PCBs, cPAHs, Lead
HD-9	13 to 15	PCBs, cPAHs, Lead
HD-10	6 to 8	TCL VOCs, TCL SVOCs, PCBs, TAL Metals
HD-10	8 to 10*	TCL VOCs, TCL SVOCs, PCBs, TAL Metals
HD-10	16 to 18	TCL VOCs, TCL SVOCs, PCBs, TAL Metals
HD-11	4 to 6	TCL VOCs, TCL SVOCs, PCBs, TAL Metals
HD-11	8 to 10*	TCL VOCs, TCL SVOCs
HD-11	13 to 15	TCL VOCs, TCL SVOCs, PCBs, TAL Metals
HD-12	6 to 8	PCBs, cPAHs, Lead
HD-12	14 to 16	PCBs, cPAHs, Lead
HD-13	3 to 5	PCBs, cPAHs, Lead
HD-14	4 to 6	TCL VOCs, PCBs, cPAHs, Lead
HD-14	6 to 8	TCL VOCs, PCBs, cPAHs, Lead
HD-15C	6 to 8	PCBs, cPAHs, Lead
HD-15C	20 to 22	PCBs, cPAHs, Lead
HD-15C	28 to 30*	PCBs, cPAHs, Lead
HD-16	9 to 11	TCL VOCs, TCL SVOCs, PCBs, TAL Metals
HD-16	13 to 15	TCL VOCs, TCL SVOCs, PCBs, TAL Metals
HD-17	4 to 6	PCBs, cPAHs, Lead
HD-17	8 to 10	PCBs, cPAHs, Lead
HD-18	4 to 6	PCBs, cPAHs, Lead
HD-19	2 to 4	TCL VOCs, PCBs, cPAHs, Lead
HD-20	6 to 8	PCBs, cPAHs, Lead
HD-20	10 to12	PCBs, cPAHs, Lead
S-150	0 to 2	PCBs
S-151	0 to 2	PCBs
S-152	0 to 2	PCBs
S-153	0 to 2	PCBs
S-154	0 to 2	PCBs

Table 1. Summary of Soil Quality Sampling, Supplemental RI in OU-3
Sunnyside Yard, Queens, New York

Sample Location/ Designation	Sample Depth Interval (Ft. Below Land Surface)	Analytes
S-155	0 to 2	PCBs
S-156	0 to 2	PCBs
S-157	0 to 2	PCBs
S-158	0 to 2	PCBs
S-159	0 to 2	PCBs
S-160	0 to 2	PCBs
S-161	0 to 2	PCBs
S-162	0 to 2	PCBs
S-163	0 to 2	PCBs

Notes:

* - Indicates sample collected and analyzed in addition to Work Plan requirements
PCBs - Polychlorinated Biphenyls
TCL - Target Compound List
TAL - Target Analyte List
cPAHs - Carcinogenic Polycyclic Aromatic Hydrocarbons

Table 2. Summary of Polychlorinated Biphenyl Compound Concentrations Detected in Soil Samples, Supplemental RI in OU-3, Sunnyside Yard, Queens, New York.

Parameter (Concentrations in µg/kg)	NYSDEC-Site-Specific Soil Cleanup Level (µg/kg)	Sample Designation:	HD-1	HD-2	HD-2	HD-3	HD-3	HD-4	HD-4
		Sample Date:	12/18/03	12/18/03	12/18/03	11/26/03	11/26/03	11/26/03	11/26/03
		Sample Depth (ft bls):	4-6	9-11	13-15	5-7	8-10	8-10	14-16
AROCLOR 1016			22 U	20 U	19 U	20 U	19 U	21 U	19 U
AROCLOR 1221			42 U	38 U	36 U	38 U	37 U	41 U	37 U
AROCLOR 1232			22 U	20 U	19 U	20 U	19 U	21 U	19 U
AROCLOR 1242			22 U	20 U	19 U	20 U	19 U	21 U	19 U
AROCLOR 1248			22 U	20 U	19 U	20 U	19 U	21 U	19 U
AROCLOR 1254			22 U	20 U	19 U	20 U	19 U	21 U	19 U
AROCLOR 1260			22 U	20 U	19 U	6.7 JNV	19 U	21 U	19 U
Total Aroclors	25,000		0	0	0	6.7	0	0	0

µg/kg - Micrograms per kilogram

ft bls - Feet below land surface

B - Compound was found in the blank and sample

J - Estimated value

N - Compound is tentative in identification

U - Compound was analyzed for but not detected

V - Qualifier added and/or value altered during data validation

NYSDEC - New York State Department of Environmental Conservation

RSCOs - Recommended Soil Cleanup Objectives

Table 2. Summary of Polychlorinated Biphenyl Compound Concentrations Detected in Soil Samples, Supplemental RI in OU-3, Sunnyside Yard, Queens, New York.

Parameter (Concentrations in µg/kg)	NYSDEC-Site-Specific Soil Cleanup Level (µg/kg)	Sample Designation:	HD-5B	HD-5B	HD-6	HD-6	HD-7	HD-7	HD-8D
		Sample Date:	11/25/03	11/25/03	11/26/03	11/26/03	11/25/03	11/25/03	11/24/03
		Sample Depth (ft bls):	9-11	15-16	9-11	18-20	8-10	21-23	7-9
AROCLOR 1016			19 U	20 U	18 U	19 U	18 U	19 U	19 U
AROCLOR 1221			37 U	38 U	35 U	37 U	36 U	37 U	37 U
AROCLOR 1232			19 U	20 U	18 U	19 U	18 U	19 U	19 U
AROCLOR 1242			19 U	20 U	18 U	19 U	18 U	19 U	19 U
AROCLOR 1248			19 U	20 U	18 U	19 U	18 U	19 U	19 U
AROCLOR 1254			19 U	20 U	18 U	19 U	18 U	19 U	63 B
AROCLOR 1260			87	30	31 JV	19 U	140	19 U	34
Total Aroclors	25,000		87	30	31	0	140	0	97

µg/kg - Micrograms per kilogram

ft bls - Feet below land surface

B - Compound was found in the blank and sample

J - Estimated value

N - Compound is tentative in identification

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Table 2. Summary of Polychlorinated Biphenyl Compound Concentrations Detected in Soil Samples, Supplemental RI in OU-3, Sunnyside Yard, Queens, New York.

Parameter (Concentrations in µg/kg)	NYSDEC-Site-Specific Soil Cleanup Level (µg/kg)	Sample Designation:	HD-8D	HD-8D	HD-9	HD-9	HD-10	HD-10	HD-10
		Sample Date:	11/24/03	11/24/03	11/26/03	11/26/03	11/25/03	11/25/03	11/25/03
		Sample Depth (ft bls):	20-22	36-38	8-10	13-15	6-8	8-10	16-18
AROCLOR 1016			18 U	19 U	37 U	19 U	19 U	19 U	19 U
AROCLOR 1221			36 U	38 U	73 U	37 U	36 U	36 U	37 U
AROCLOR 1232			18 U	19 U	37 U	19 U	19 U	19 U	19 U
AROCLOR 1242			18 U	19 U	37 U	19 U	19 U	19 U	19 U
AROCLOR 1248			18 U	19 U	37 U	19 U	19 U	19 U	19 U
AROCLOR 1254			18 U	19 U	37 U	19 U	19 U	19 U	19 U
AROCLOR 1260			18 U	19 U	350	19 U	170	22	19 U
Total Aroclors	25,000		0	0	350	0	170	22	0

µg/kg - Micrograms per kilogram

ft bls - Feet below land surface

B - Compound was found in the blank and sample

J - Estimated value

N - Compound is tentative in identification

U - Compound was analyzed for but not detected

V - Qualifier added and/or value altered during data validation

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Table 2. Summary of Polychlorinated Biphenyl Compound Concentrations Detected in Soil Samples, Supplemental RI in OU-3, Sunnyside Yard, Queens, New York.

Parameter (Concentrations in µg/kg)	NYSDEC-Site-Specific Soil Cleanup Level (µg/kg)	Sample Designation: HD-11 Sample Date: 12/18/03 Sample Depth (ft bls): 4-6	HD-11 12/18/03 13-15	HD-12 11/25/03 6-8	HD-12 11/25/03 14-16	HD-13 12/19/03 3-5	HD-14 12/18/03 4-6	HD-14 12/18/03 6-8
AROCLOR 1016		19 U	18 U	380 U	20 U	20 U	22 U	22 U
AROCLOR 1221		37 U	36 U	740 U	39 U	38 U	43 U	43 U
AROCLOR 1232		19 U	18 U	380 U	20 U	20 U	22 U	22 U
AROCLOR 1242		19 U	18 U	380 U	20 U	20 U	22 U	22 U
AROCLOR 1248		19 U	18 U	380 U	20 U	20 U	22 U	22 U
AROCLOR 1254		19 U	18 U	380 U	20 U	23	22 U	22 U
AROCLOR 1260		180	18 U	1200	20 U	20 U	22 U	22 U
Total Aroclors	25,000	180	0	1200	0	23	0	0

µg/kg - Micrograms per kilogram

ft bls - Feet below land surface

B - Compound was found in the blank and sample

J - Estimated value

N - Compound is tentative in identification

U - Compound was analyzed for but not detected

V - Qualifier added and/or value altered during data validation

NYSDEC - New York State Department of Environmental Conservation

RSCOs - Recommended Soil Cleanup Objectives

Table 2. Summary of Polychlorinated Biphenyl Compound Concentrations Detected in Soil Samples, Supplemental RI in OU-3, Sunnyside Yard, Queens, New York.

Parameter (Concentrations in µg/kg)	NYSDEC-Site-Specific Soil Cleanup Level (µg/kg)	Sample Designation:	HD-15C	HD-15C	HD-15C	HD-16	HD-16	HD-17	HD-17
		Sample Date:	11/25/03	11/25/03	11/25/03	12/19/03	12/19/03	12/18/03	12/18/03
		Sample Depth (ft bls):	6-8	20-22	28-30	9-11	13-15	4-6	8-10
AROCLOR 1016			380 U	22 U	19 U	19 U	19 U	21 U	20 U
AROCLOR 1221			740 U	42 U	36 U	37 U	37 U	42 U	39 U
AROCLOR 1232			380 U	22 U	19 U	19 U	19 U	21 U	20 U
AROCLOR 1242			380 U	22 U	19 U	19 U	19 U	21 U	20 U
AROCLOR 1248			380 U	22 U	19 U	19 U	19 U	21 U	20 U
AROCLOR 1254			380 U	22 U	19 U	19 J	19 U	21 U	20 U
AROCLOR 1260			1500	22 U	31	19 U	19 U	91	13 J
Total Aroclors	25,000		1500	0	31	19	0	91	13

µg/kg - Micrograms per kilogram

ft bls - Feet below land surface

B - Compound was found in the blank and sample

J - Estimated value

N - Compound is tentative in identification

U - Compound was analyzed for but not detected

V - Qualifier added and/or value altered during data validation

NYSDEC - New York State Department of Environmental Conservation

RSCOs - Recommended Soil Cleanup Objectives

Table 2. Summary of Polychlorinated Biphenyl Compound Concentrations Detected in Soil Samples, Supplemental RI in OU-3, Sunnyside Yard, Queens, New York.

Parameter (Concentrations in µg/kg)	NYSDEC-Site-Specific Soil Cleanup Level (µg/kg)	Sample Designation:	HD-18	HD-19	HD-20	HD-20	S-150	S-151	S-152
		Sample Date:	12/18/03	12/19/03	11/26/03	11/26/03	11/3/03	11/3/03	11/3/03
		Sample Depth (ft bls):	4-6	2-4	6-8	10-12	0-2	0-2	0-2
AROCLOR 1016			19 U	20 U	20 U	19 U	42 U	97 U	38 U
AROCLOR 1221			37 U	38 U	38 U	38 U	82 U	190 U	73 U
AROCLOR 1232			19 U	20 U	20 U	19 U	42 U	97 U	38 U
AROCLOR 1242			19 U	20 U	20 U	19 U	42 U	97 U	38 U
AROCLOR 1248			19 U	20 U	20 U	19 U	42 U	97 U	38 U
AROCLOR 1254			19 U	20 U	20 U	19 U	42 U	97 U	56
AROCLOR 1260			19 U	20 U	20 U	19 U	350	750	390
Total Aroclors	25,000		0	0	0	0	350	750	446

µg/kg - Micrograms per kilogram

ft bls - Feet below land surface

B - Compound was found in the blank and sample

J - Estimated value

N - Compound is tentative in identification

U - Compound was analyzed for but not detected

V - Qualifier added and/or value altered during data validation

NYSDEC - New York State Department of Environmental Conservation

RSCOs - Recommended Soil Cleanup Objectives

Table 2. Summary of Polychlorinated Biphenyl Compound Concentrations Detected in Soil Samples, Supplemental RI in OU-3, Sunnyside Yard, Queens, New York.

Parameter (Concentrations in µg/kg)	NYSDEC-Site-Specific Soil Cleanup Level (µg/kg)	Sample Designation:	S-153	S-154	S-155	S-156	S-157	S-158	S-159
		Sample Date:	11/3/03	11/3/03	11/3/03	11/3/03	11/3/03	11/3/03	11/3/03
		Sample Depth (ft bls):	0-2	0-2	0-2	0-2	0-2	0-2	0-2
AROCLOR 1016			21 U	19 U	41 U	190 U	390 U	370 U	390 U
AROCLOR 1221			40 U	37 U	80 U	370 U	750 U	720 U	750 U
AROCLOR 1232			21 U	19 U	41 U	190 U	390 U	370 U	390 U
AROCLOR 1242			21 U	19 U	41 U	190 U	390 U	370 U	390 U
AROCLOR 1248			46 NJV	19 U	41 U	190 U	390 U	370 U	390 U
AROCLOR 1254			21 U	27	110	190 U	390 U	370 U	390 U
AROCLOR 1260			100	40	330	1000	3200	2500	2500
Total Aroclors	25,000		146	67	440	1000	3200	2500	2500

µg/kg - Micrograms per kilogram

ft bls - Feet below land surface

B - Compound was found in the blank and sample

J - Estimated value

N - Compound is tentative in identification

U - Compound was analyzed for but not detected

V - Qualifier added and/or value altered during data validation

NYSDEC - New York State Department of Environmental Conservation

RSCOs - Recommended Soil Cleanup Objectives

Table 2. Summary of Polychlorinated Biphenyl Compound Concentrations Detected in Soil Samples, Supplemental RI in OU-3, Sunnyside Yard, Queens, New York.

	Sample Designation:	S-160	S-161	S-162	S-163
	Sample Date:	11/3/03	11/3/03	11/3/03	11/3/03
	Sample Depth (ft bls):	0-2	0-2	0-2	0-2
Parameter (Concentrations in µg/kg)	**NYSDEC-Site-Specific Soil Cleanup Level (µg/kg)**				
AROCLOR 1016		370 U	400 U	380 U	190 U
AROCLOR 1221		720 U	780 U	740 U	380 U
AROCLOR 1232		370 U	400 U	380 U	190 U
AROCLOR 1242		370 U	400 U	380 U	190 U
AROCLOR 1248		370 U	400 U	380 U	190 U
AROCLOR 1254		370 U	2900	920	2100
AROCLOR 1260		2400	1600	2000	720
Total Aroclors	25,000	2400	4500	2920	2820

µg/kg - Micrograms per kilogram

ft bls - Feet below land surface

B - Compound was found in the blank and sample

J - Estimated value

N - Compound is tentative in identification

U - Compound was analyzed for but not detected

V - Qualifier added and/or value altered during data validation

NYSDEC - New York State Department of Environmental Conservation

RSCOs - Recommended Soil Cleanup Objectives

Table 3. Summary of Carcinogenic Polycyclic Aromatic Hydrocarbon (cPAH) Concentrations Detected in Soil, Supplemental RI in OU-3, Sunnyside Yard, Queens, New York.

Parameter (Concentrations in µg/kg)	NYSDEC-Site-Specific Soil Cleanup Level (µg/kg)	Designation: / Sample Date: / Sample Depth (ft bls):	HD-1 12/18/03 4-6	HD-2 12/18/03 9-11	HD-2 12/18/03 13-15	HD-3 11/26/03 5-7	HD-3 11/26/03 8-10	HD-3 11/26/03 20-22	HD-4 11/26/03 8-10	HD-4 11/26/03 14-16
Benzo[a]anthracene			410 U	370 U	360 U	490 JNV	380 U	360 U	410 U	360 U
Benzo[a]pyrene			410 U	370 U	360 U	3700 U	380 U	360 U	410 U	360 U
Benzo[b]fluoranthene			410 U	370 U	360 U	430 U	380 U	360 U	410 U	360 U
Benzo[k]fluoranthene			410 U	370 U	360 U	3700 U	380 U	360 U	410 U	360 U
Chrysene			410 U	370 U	360 U	1600 J	380 U	360 U	410 U	360 U
Dibenzo[a,h]anthracene			410 U	370 U	360 U	3700 U	380 U	360 U	410 U	360 U
Indeno[1,2,3-cd]pyrene			410 U	370 U	360 U	3700 U	380 U	360 U	410 U	360 U
Total cPAHs:	25,000		0	0	0	2090	0	0	0	0

µg/kg - Micrograms per kilogram
Ft bls- Feet below land surface
J - Estimated value
N - Compound is tentative in identification
U - Indicates that the compound was analyzed for but not detected
V - Qualifier added and/or value altered during validation

Table 3. Summary of Carcinogenic Polycyclic Aromatic Hydrocarbon (cPAH) Concentrations Detected in Soil, Supplemental RI in OU-3, Sunnyside Yard, Queens, New York.

Parameter (Concentrations in µg/kg)	NYSDEC-Site-Specific Soil Cleanup Level (µg/kg)	Designation: Sample Date: Sample Depth (ft bls):	HD-5B 11/25/03 9-11	HD-5B 11/25/03 15-16	HD-6 11/26/03 9-11	HD-6 11/26/03 18-20	HD-7 11/25/03 8-10	HD-7 11/25/03 21-23	HD-8D 11/24/03 7-9	HD-8D 11/24/03 20-22
Benzo[a]anthracene			18000 U	19000 U	17000 UJV	370 UJV	8800 U	350 U	36000 U	350 U
Benzo[a]pyrene			18000 U	19000 U	17000 UJV	370 UJV	8800 U	350 U	36000 U	350 U
Benzo[b]fluoranthene			18000 U	19000 U	17000 UJV	370 UJV	8800 U	350 U	36000 U	350 U
Benzo[k]fluoranthene			18000 U	19000 U	17000 UJV	370 UJV	8800 U	350 U	36000 U	350 U
Chrysene			18000 U	19000 U	17000 UJV	370 UJV	8800 U	350 U	36000 U	350 U
Dibenzo[a,h]anthracene			18000 U	19000 U	17000 UJV	370 UJV	8800 U	350 U	36000 U	350 U
Indeno[1,2,3-cd]pyrene			18000 U	19000 U	17000 U	370 U	8800 U	350 U	36000 U	350 U
Total cPAHs:	25,000		0	0	0	0	0	0	0	0

µg/kg - Micrograms per kilogram
Ft bls- Feet below land surface
J - Estimated value
N - Compound is tentative in identification
U - Indicates that the compound was analyzed for but not detected
V - Qualifier added and/or value altered during validation

Table 3. Summary of Carcinogenic Polycyclic Aromatic Hydrocarbon (cPAH) Concentrations Detected in Soil, Supplemental RI in OU-3, Sunnyside Yard, Queens, New York.

Parameter (Concentrations in µg/kg)	NYSDEC-Site-Specific Soil Cleanup Level (µg/kg)	Designation: Sample Date: Sample Depth (ft bls):	HD-8D 11/24/03 36-38	HD-9 11/26/03 8-10	HD-9 11/26/03 13-15	HD-10 11/25/03 6-8	HD-10 11/25/03 8-10	HD-10 11/25/03 16-18	HD-11 12/18/03 4-6	HD-11 12/18/03 8-10
Benzo[a]anthracene			370 U	3600 UJV	370 UJV	8700 U	3700 U	360 U	520 J	19000 U
Benzo[a]pyrene			370 U	3600 UJV	370 UJV	8700 U	3700 U	360 U	9300 U	19000 U
Benzo[b]fluoranthene			370 U	3600 UJV	370 UJV	8700 U	3700 U	360 U	9300 U	19000 U
Benzo[k]fluoranthene			370 U	3600 UJV	370 UJV	8700 U	3700 U	360 U	9300 U	19000 U
Chrysene			370 U	3600 U	370 UJV	8700 U	3700 U	360 U	630 J	19000 U
Dibenzo[a,h]anthracene			370 U	3600 UJV	370 UJV	8700 U	3700 U	360 U	9300 U	19000 U
Indeno[1,2,3-cd]pyrene			370 U	3600 UJV	370 UJV	8700 U	3700 U	360 U	9300 U	19000 U
Total cPAHs:	25,000		0	0	0	0	0	0	1150	0

µg/kg - Micrograms per kilogram
Ft bls- Feet below land surface
J - Estimated value
N - Compound is tentative in identification
U - Indicates that the compound was analyzed for but not detected
V - Qualifier added and/or value altered during validation

Table 3. Summary of Carcinogenic Polycyclic Aromatic Hydrocarbon (cPAH) Concentrations Detected in Soil, Supplemental RI in OU-3, Sunnyside Yard, Queens, New York.

Parameter (Concentrations in µg/kg)	NYSDEC-Site-Specific Soil Cleanup Level (µg/kg)	Designation:	HD-11	HD-12	HD-12	HD-13	HD-14	HD-14	IID-15C	HD-15C
		Sample Date:	12/18/03	11/25/03	11/25/03	12/19/03	12/18/03	12/18/03	11/25/03	11/25/03
		Sample Depth (ft bls):	13-15	6-8	14-16	3-5	4-6	6-8	6-8	20-22
Benzo[a]anthracene			100 J	15000 UJV	370 U	360 U	570	420 U	18000 U	420 U
Benzo[a]pyrene			110 J	15000 UJV	370 U	360 U	490	210 J	18000 U	420 U
Benzo[b]fluoranthene			95 J	15000 UJV	370 U	360 U	290 J	420 U	18000 U	420 U
Benzo[k]fluoranthene			89 J	15000 UJV	370 U	360 U	470	420 U	18000 U	420 U
Chrysene			120 J	15000 UJV	370 UV	360 U	650	420 U	18000 U	420 U
Dibenzo[a,h]anthracene			27 J	15000 UJV	370 U	360 U	120 J	420 U	18000 U	420 U
Indeno[1,2,3-cd]pyrene			79 J	15000 UJV	370 U	360 U	250 J	420 U	18000 U	420 U
Total cPAHs:	25,000		620	0	0	0	2840	210	0	0

µg/kg - Micrograms per kilogram
Ft bls- Feet below land surface
J - Estimated value
N - Compound is tentative in identification
U - Indicates that the compound was analyzed for but not detected
V - Qualifier added and/or value altered during validation

Table 3. Summary of Carcinogenic Polycyclic Aromatic Hydrocarbon (cPAH) Concentrations Detected in Soil, Supplemental RI in OU-3, Sunnyside Yard, Queens, New York.

Parameter (Concentrations in µg/kg)	NYSDEC-Site-Specific Soil Cleanup Level (µg/kg)	Designation: Sample Date: Sample Depth (ft bls):	HD-15C 11/25/03 28-30	HD-16 12/19/03 9-11	HD-16 12/19/03 13-15	HD-17 12/18/03 4-6	HD-17 12/18/03 8-10	HD-18 12/18/03 4-6	HD-19 12/19/03 2-4	HD-20 11/26/03 6-8
Benzo[a]anthracene			360 U	360 U	380 U	130 J	20 J	42 J	370 U	19000 UJV
Benzo[a]pyrene			360 U	360 U	380 U	120 J	380 U	39 J	370 U	19000 UJV
Benzo[b]fluoranthene			360 U	360 U	380 U	110 J	380 U	360 UV	370 U	19000 UJV
Benzo[k]fluoranthene			360 U	360 U	380 U	100 J	380 U	360 UV	370 U	19000 UJV
Chrysene			24 J	29 J	380 U	160 J	32 J	48 J	370 U	19000 UJV
Dibenzo[a,h]anthracene			360 U	360 U	380 U	29 J	380 U	360 U	370 U	19000 UJV
Indeno[1,2,3-cd]pyrene			360 U	360 U	380 U	81 J	380 U	21 J	370 U	19000 UJV
Total cPAHs:	25,000		24	29	0	730	52	150	0	0

µg/kg - Micrograms per kilogram
Ft bls- Feet below land surface
J - Estimated value
N - Compound is tentative in identification
U - Indicates that the compound was analyzed for but not detected
V - Qualifier added and/or value altered during validation

Table 3. Summary of Carcinogenic Polycyclic Aromatic Hydrocarbon (cPAH) Concentrations Detected in Soil, Supplemental RI in OU-3, Sunnyside Yard, Queens, New York.

Parameter (Concentrations in µg/kg)	NYSDEC-Site-Specific Soil Cleanup Level (µg/kg)	Designation: Sample Date: Sample Depth (ft bls):	HD-20 11/26/03 10-12
Benzo[a]anthracene			370 U
Benzo[a]pyrene			370 U
Benzo[b]fluoranthene			370 U
Benzo[k]fluoranthene			370 U
Chrysene			370 U
Dibenzo[a,h]anthracene			370 U
Indeno[1,2,3-cd]pyrene			370 U
Total cPAHs:	25,000		0

µg/kg - Micrograms per kilogram
Ft bls- Feet below land surface
J - Estimated value
N - Compound is tentative in identification
U - Indicates that the compound was analyzed for but not detected
V - Qualifier added and/or value altered during validation

Table 4. Summary of Semivolatile Organic Compounds Detected in Soil, Supplemental RI in OU-3, Sunnyside Yard, Queens, New York.

Parameter (Concentrations in µg/kg)	NYSDEC RSCOs (µg/kg)	Designation: / Sample Date: / Sample Depth (ft bls):	HD-3 11/26/03 20-22	HD-4 11/26/03 8-10	HD-4 11/26/03 14-16	HD-6 11/26/03 9-11
1,2,4-Trichlorobenzene	3,400		360 U	410 U	360 U	17000 UJV
1,2-Dichlorobenzene	7,900		360 U	410 U	360 U	17000 UJV
1,3-Dichlorobenzene	1,600		360 U	410 U	360 U	17000 UJV
1,4-Dichlorobenzene	8,500		360 U	410 U	360 U	17000 UJV
2,2'-oxybis(1-Chloropropane)	--		360 U	410 U	360 U	17000 UJV
2,4,5-Trichlorophenol	100		1700 U	2000 U	1800 U	84000 UJV
2,4,6-Trichlorophenol	--		360 U	410 U	360 U	17000 UJV
2,4-Dichlorophenol	400		360 U	410 U	360 U	17000 UJV
2,4-Dimethylphenol	--		360 U	410 U	360 U	17000 UJV
2,4-Dinitrophenol	200		1700 U	2000 U	1800 U	84000 UJV
2,4-Dinitrotoluene	--		360 U	410 U	360 U	17000 UJV
2,6-Dinitrotoluene	100		360 U	410 U	360 U	17000 UJV
2-Chloronaphthalene	--		360 U	410 U	360 U	17000 UJV
2-Chlorophenol	800		360 U	410 U	360 U	17000 UJV
2-Methylnaphthalene	36,400		360 U	410 U	360 U	**92000 JV**
2-Methylphenol	100		360 U	410 U	360 U	17000 UJV
2-Nitroaniline	430		1700 U	2000 U	1800 U	84000 UJV
2-Nitrophenol	330		360 U	410 U	360 U	17000 UJV
3,3'-Dichlorobenzidine	--		720 U	820 U	730 U	35000 UJV
3-Nitroaniline	500		1700 U	2000 U	1800 U	84000 UJV
4,6-Dinitro-2-methylphenol	--		1700 U	2000 U	1800 U	84000 UJV
4-Bromophenyl phenyl ether	--		360 U	410 U	360 U	17000 UJV
4-Chloro-3-methylphenol	240		360 U	410 U	360 U	17000 UJV
4-Chloroaniline	220		360 U	410 U	360 U	17000 UJV
4-Chlorophenyl phenyl ether	--		360 U	410 U	360 U	17000 UJV
4-Methylphenol	900		360 U	410 U	360 U	17000 UJV
4-Nitroaniline	--		720 U	820 U	730 U	35000 UJV
4-Nitrophenol	100		1700 U	2000 U	1800 U	84000 UJV
Acenaphthene	50,000		360 U	330 J	360 U	4400 JJV
Acenaphthylene	50,000		360 U	410 U	360 U	17000 UJV
Anthracene	50,000		360 U	280 J	360 U	1200 JV
Benzo[a]anthracene	*		360 U	410 U	360 U	17000 UJV
Benzo[a]pyrene	*		360 U	410 U	360 U	17000 UJV
Benzo[b]fluoranthene	*		360 U	410 U	360 U	17000 UJV
Benzo[g,h,i]perylene	50,000		360 U	410 U	360 U	17000 UJV
Benzo[k]fluoranthene	*		360 U	410 U	360 U	17000 UJV
Benzoic acid	--		RV	RV	RV	RV
Benzyl alcohol	--		360 U	410 U	360 U	17000 UJV
bis(2-Chloroethoxy)methane	--		360 U	410 U	360 U	17000 UJV
bis(2-Chloroethyl) ether	--		360 U	410 U	360 U	17000 UJV
bis(2-Ethylhexyl) phthalate	50,000		48 J	330 J	59 J	17000 UJV
Butylbenzyl phthalate	50,000		360 U	410 U	360 U	17000 UJV
Carbazole	--		360 U	410 U	360 U	17000 UJV
Chrysene	*		360 U	410 U	360 U	17000 UJV
Di-n-butyl phthalate	8,100		360 U	40 J	360 U	17000 UJV
Di-n-octyl phthalate	50,000		360 U	410 U	360 U	17000 UJV
Dibenzo[a,h]anthracene	*		360 U	410 U	360 U	17000 UJV
Dibenzofuran	6,200		360 U	410 U	360 U	17000 UJV
Diethyl phthalate	7,100		360 U	410 U	360 U	17000 UJV
Dimethyl phthalate	2,000		360 U	410 U	360 U	17000 UJV

Table 4. Summary of Semivolatile Organic Compounds Detected in Soil, Supplemental RI in OU-3, Sunnyside Yard, Queens, New York.

Parameter (Concentrations in µg/kg)	NYSDEC RSCOs (µg/kg)	Designation: / Sample Date: / Sample Depth (ft bls):	HD-6 11/26/03 18-20	HD-7 11/25/03 8-10	HD-7 11/25/03 21-23	HD-8D 11/24/03 7-9
1,2,4-Trichlorobenzene	3,400		370 UJV	8800 U	350 U	36000 U
1,2-Dichlorobenzene	7,900		370 UJV	8800 U	350 U	36000 U
1,3-Dichlorobenzene	1,600		370 UJV	8800 U	350 U	36000 U
1,4-Dichlorobenzene	8,500		370 UJV	8800 U	350 U	36000 U
2,2'-oxybis(1-Chloropropane)	--		370 UJV	8800 U	350 U	36000 U
2,4,5-Trichlorophenol	100		1800 UJV	43000 U	1700 U	180000 U
2,4,6-Trichlorophenol	--		370 UJV	8800 U	350 U	36000 U
2,4-Dichlorophenol	400		370 UJV	8800 U	350 U	36000 U
2,4-Dimethylphenol	--		370 UJV	8800 U	350 U	36000 U
2,4-Dinitrophenol	200		1800 UJV	43000 U	1700 U	180000 U
2,4-Dinitrotoluene	--		370 UJV	8800 U	350 U	36000 U
2,6-Dinitrotoluene	100		370 UJV	8800 U	350 U	36000 U
2-Chloronaphthalene	--		370 UJV	8800 U	350 U	36000 U
2-Chlorophenol	800		370 UJV	8800 U	350 U	36000 U
2-Methylnaphthalene	36,400		310UJV	**60000**	350 U	**150000**
2-Methylphenol	100		370 UJV	8800 U	350 U	36000 U
2-Nitroaniline	430		1800 UJV	43000 U	1700 U	180000 U
2-Nitrophenol	330		370 UJV	8800 U	350 U	36000 U
3,3'-Dichlorobenzidine	--		730 UJV	18000 U	700 U	72000 U
3-Nitroaniline	500		1800 UJV	43000 U	1700 U	180000 U
4,6-Dinitro-2-methylphenol	--		1800 UJV	43000 U	1700 U	180000 U
4-Bromophenyl phenyl ether	--		370 UJV	8800 U	350 U	36000 U
4-Chloro-3-methylphenol	240		370 UJV	8800 U	350 U	36000 U
4-Chloroaniline	220		370 UJV	8800 U	350 U	36000 U
4-Chlorophenyl phenyl ether	--		370 UJV	8800 U	350 U	36000 U
4-Methylphenol	900		370 UJV	8800 U	350 U	36000 U
4-Nitroaniline	--		730 UJV	18000 U	700 U	72000 U
4-Nitrophenol	100		1800 UJV	43000 U	1700 U	180000 U
Acenaphthene	50,000		370 UJV	4300 J	350 U	5900 J
Acenaphthylene	50,000		370 UJV	8800 U	350 U	36000 U
Anthracene	50,000		370 UJV	1400 J	350 U	36000 U
Benzo[a]anthracene	*		370 UJV	8800 U	350 U	36000 U
Benzo[a]pyrene	*		370 UJV	8800 U	350 U	36000 U
Benzo[b]fluoranthene	*		370 UJV	8800 U	350 U	36000 U
Benzo[g,h,i]perylene	50,000		370 UJV	8800 U	350 U	36000 U
Benzo[k]fluoranthene	*		370 UJV	8800 U	350 U	36000 U
Benzoic acid	--		RV	RV	RV	RV
Benzyl alcohol	--		370 UJV	8800 U	350 U	36000 U
bis(2-Chloroethoxy)methane	--		370 UJV	8800 U	350 U	36000 U
bis(2-Chloroethyl) ether	--		370 UJV	8800 U	350 U	36000 U
bis(2-Ethylhexyl) phthalate	50,000		48 JJ	8800 U	300 J	36000 UJV
Butylbenzyl phthalate	50,000		370 UJV	8800 U	350 U	36000 U
Carbazole	--		370 UJV	8800 U	350 U	36000 U
Chrysene	*		370 UJV	8800 U	350 U	36000 U
Di-n-butyl phthalate	8,100		370 UJV	8800 U	350 U	36000 U
Di-n-octyl phthalate	50,000		370 UJV	8800 U	350 U	36000 U
Dibenzo[a,h]anthracene	*		370 UJV	8800 U	350 U	36000 U
Dibenzofuran	6,200		370 UJV	8800 U	350 U	36000 U
Diethyl phthalate	7,100		370 UJV	8800 U	350 U	36000 U
Dimethyl phthalate	2,000		370 UJV	8800 U	350 U	36000 U

Table 4. Summary of Semivolatile Organic Compounds Detected in Soil, Supplemental RI in OU-3, Sunnyside Yard, Queens, New York.

Parameter (Concentrations in µg/kg)	NYSDEC RSCOs (µg/kg)	**Designation:** **Sample Date:** **Sample Depth (ft bls):**	HD-6 11/26/03 18-20	HD-7 11/25/03 8-10	HD-7 11/25/03 21-23	HD-8D 11/24/03 7-9
Fluoranthene	50,000		370 U	8800 U	350 U	36000 U
Fluorene	50,000		370 U	6500 J	350 U	11000 J
Hexachlorobenzene	41		370 U	8800 U	350 U	36000 U
Hexachlorobutadiene	--		370 U	8800 U	350 U	36000 U
Hexachlorocyclopentadiene	--		370 U	8800 UJV	350 U	36000 U
Hexachloroethane	--		370 U	8800 U	350 U	36000 U
Indeno[1,2,3-cd]pyrene	*		370 U	8800 U	350 U	36000 U
Isophorone	4,400		370 U	8800 U	350 U	36000 U
N-Nitrosodi-n-propylamine	--		370 U	8800 U	350 U	36000 U
N-Nitrosodiphenylamine	--		370 U	8800 U	350 U	36000 U
Naphthalene	13,000		370 U	1200 J	350 U	36000 U
Nitrobenzene	200		370 U	8800 U	350 U	36000 U
Pentachlorophenol	1,000		1800 U	43000 U	1700 U	180000 U
Phenanthrene	50,000		370 U	14000	350 U	26000 J
Phenol	30		370 U	8800 U	350 U	36000 U
Pyrene	50,000		370 U	840 J	350UJV	2600 J

µg/kg - Micrograms per kilogram
Ft bls- Feet below land surface
J - Estimated value
N - Compound is tentative in identification - added during validation
R - Data rejected during validation
U - Indicates that the compound was analyzed for but not detected
V - Qualifier added and/or valude altered during data validation
* - Site specific criteria for total cPAHs used in place of NYSDEC RSCO criteria (see Table 3)
NYSDEC - New York State Department of Environmental Conservation
RSCOs - Recommended Soil Cleanup Objectives
- - No NYSDEC RSCO available
Note:
Bold data indicates that parameter was detected above the NYSDEC RSCOs

Table 4. Summary of Semivolatile Organic Compounds Detected in Soil, Supplemental RI in OU-3, Sunnyside Yard, Queens, New York.

Parameter (Concentrations in µg/kg)	NYSDEC RSCOs (µg/kg)	Designation:	HD-8D	HD-8D	HD-10	HD-10
		Sample Date:	11/24/03	11/24/03	11/25/03	11/25/03
		Sample Depth (ft bls):	20-22	36-38	6-8	8-10
1,2,4-Trichlorobenzene	3,400		350 U	370 U	8700 U	3700 U
1,2-Dichlorobenzene	7,900		350 U	370 U	8700 U	3700 U
1,3-Dichlorobenzene	1,600		350 U	370 U	8700 U	3700 U
1,4-Dichlorobenzene	8,500		350 U	370 U	8700 U	3700 U
2,2'-oxybis(1-Chloropropane)	--		350 UJV	370 U	8700 U	3700 U
2,4,5-Trichlorophenol	100		1700 U	1800 U	42000 U	18000 U
2,4,6-Trichlorophenol	--		350 U	370 U	8700 U	3700 U
2,4-Dichlorophenol	400		350 U	370 U	8700 U	3700 U
2,4-Dimethylphenol	--		350 U	370 U	8700 U	3700 U
2,4-Dinitrophenol	200		1700 U	1800 U	42000 U	18000 U
2,4-Dinitrotoluene	--		350 U	370 U	8700 U	3700 U
2,6-Dinitrotoluene	100		350 U	370 U	8700 U	3700 U
2-Chloronaphthalene	--		350 U	370 U	8700 U	3700 U
2-Chlorophenol	800		350 UJV	370 U	8700 U	3700 U
2-Methylnaphthalene	36,400		80 J	370 U	**56000**	27000
2-Methylphenol	100		350 U	370 U	8700 U	3700 U
2-Nitroaniline	430		1700 UJV	1800 U	42000 U	18000 U
2-Nitrophenol	330		350 U	370 U	8700 U	3700 U
3,3'-Dichlorobenzidine	--		700 U	740 U	17000 U	7400 U
3-Nitroaniline	500		1700 U	1800 U	42000 U	18000 U
4,6-Dinitro-2-methylphenol	--		1700 U	1800 U	42000 U	18000 U
4-Bromophenyl phenyl ether	--		350 U	370 U	8700 U	3700 U
4-Chloro-3-methylphenol	240		350 U	370 U	8700 U	3700 U
4-Chloroaniline	220		350 U	370 U	8700 U	3700 U
4-Chlorophenyl phenyl ether	--		350 U	370 U	8700 U	3700 U
4-Methylphenol	900		350 U	370 U	8700 U	3700 U
4-Nitroaniline	--		700 U	740 U	17000 U	7400 U
4-Nitrophenol	100		1700 U	1800 U	42000 U	18000 U
Acenaphthene	50,000		350 U	370 U	3800 J	2000 J
Acenaphthylene	50,000		350 U	370 U	8700 U	3700 U
Anthracene	50,000		350 U	370 U	960 J	740 J
Benzo[a]anthracene	*		350 U	370 U	8700 U	3700 U
Benzo[a]pyrene	*		350 U	370 U	8700 U	3700 U
Benzo[b]fluoranthene	*		350 U	370 U	8700 U	3700 U
Benzo[g,h,i]perylene	50,000		350 U	370 U	8700 U	3700 U
Benzo[k]fluoranthene	*		350 U	370 U	8700 U	3700 U
Benzoic acid	--		RV	RV	RV	RV
Benzyl alcohol	--		350 U	370 U	8700 U	3700 U
bis(2-Chloroethoxy)methane	--		350 U	370 U	8700 U	3700 U
bis(2-Chloroethyl) ether	--		350 U	370 U	8700 U	3700 U
bis(2-Ethylhexyl) phthalate	50,000		350 UJV	370 U	8700 U	940 J
Butylbenzyl phthalate	50,000		350 U	370 U	8700 U	3700 U
Carbazole	--		350 U	370 U	8700 U	3700 U
Chrysene	*		350 U	370 U	8700 U	3700 U
Di-n-butyl phthalate	8,100		350 U	370UV	8700 U	3700 U
Di-n-octyl phthalate	50,000		350 U	370 U	8700 U	3700 U
Dibenzo[a,h]anthracene	*		350 U	370 U	8700 U	3700 U
Dibenzofuran	6,200		350 U	370 U	2900 J	3700 U
Diethyl phthalate	7,100		350 U	370 U	8700 U	3700 U
Dimethyl phthalate	2,000		350 U	370 U	8700 U	3700 U

Table 4. Summary of Semivolatile Organic Compounds Detected in Soil, Supplemental RI in OU-3, Sunnyside Yard, Queens, New York.

Parameter (Concentrations in µg/kg)	NYSDEC RSCOs (µg/kg)	**Designation:** **Sample Date:** **Sample Depth (ft bls):**	HD-8D 11/24/03 20-22	HD-8D 11/24/03 36-38	HD-10 11/25/03 6-8	HD-10 11/25/03 8-10
Fluoranthene	50,000		350 U	370 U	8700 U	460 J
Fluorene	50,000		23 J	370 U	6200 J	3800
Hexachlorobenzene	41		350 U	370 U	8700 U	3700 U
Hexachlorobutadiene	--		350 U	370 U	8700 U	3700 U
Hexachlorocyclopentadiene	--		350 U	370 U	8700 UJV	3700 UJV
Hexachloroethane	--		350 U	370 U	8700 U	3700 U
Indeno[1,2,3-cd]pyrene	*		350 U	370 U	8700 U	3700 U
Isophorone	4,400		350 U	370 U	8700 U	3700 U
N-Nitrosodi-n-propylamine	--		350 U	370 U	8700 U	3700 U
N-Nitrosodiphenylamine	--		350 U	370 U	8700 U	3700 U
Naphthalene	13,000		350 U	370 U	8700 U	990 J
Nitrobenzene	200		350 U	370 U	8700 U	3700 U
Pentachlorophenol	1,000		1700 U	1800 U	42000 U	18000 U
Phenanthrene	50,000		53 J	370 U	14000	6600
Phenol	30		350 U	370 U	8700 U	3700 U
Pyrene	50,000		350 U	370 U	8700UJV	600 J

µg/kg - Micrograms per kilogram
Ft bls- Feet below land surface
J - Estimated value
N - Compound is tentative in identification - added during validation
R - Data rejected during validation
U - Indicates that the compound was analyzed for but not detected
V - Qualifier added and/or valude altered during data validation
* - Site specific criteria for total cPAHs used in place of NYSDEC RSCO criteria (see Table 3)
NYSDEC - New York State Department of Environmental Conservation
RSCOs - Recommended Soil Cleanup Objectives
- - No NYSDEC RSCO available
Note:
Bold data indicates that parameter was detected above the NYSDEC RSCOs

Table 4. Summary of Semivolatile Organic Compounds Detected in Soil, Supplemental RI in OU-3, Sunnyside Yard, Queens, New York.

Parameter (Concentrations in µg/kg)	NYSDEC RSCOs (µg/kg)	Designation:	HD-10	HD-11	HD-11	HD-11
		Sample Date:	11/25/03	12/18/03	12/18/03	12/18/03
		Sample Depth (ft bls):	16-18	4-6	8-10	13-15
1,2,4-Trichlorobenzene	3,400		360 U	9300 U	19000 U	350 U
1,2-Dichlorobenzene	7,900		360 U	9300 U	19000 U	350 U
1,3-Dichlorobenzene	1,600		360 U	9300 U	19000 U	350 U
1,4-Dichlorobenzene	8,500		360 U	9300 U	19000 U	350 U
2,2'-oxybis(1-Chloropropane)	--		360 U	9300 U	19000 U	350 U
2,4,5-Trichlorophenol	100		1700 U	45000 U	92000 U	1700 U
2,4,6-Trichlorophenol	--		360 U	9300 U	19000 U	350 U
2,4-Dichlorophenol	400		360 U	9300 U	19000 U	350 U
2,4-Dimethylphenol	--		360 U	9300 U	19000 U	350 U
2,4-Dinitrophenol	200		1700 U	RV	RV	RV
2,4-Dinitrotoluene	--		360 U	9300 U	19000 U	350 U
2,6-Dinitrotoluene	100		360 U	9300 U	19000 U	350 U
2-Chloronaphthalene	--		360 U	9300 U	19000 U	350 U
2-Chlorophenol	800		360 U	9300 U	19000 U	350 U
2-Methylnaphthalene	36,400		360 U	**69000**	**80000**	350 U
2-Methylphenol	100		360 U	9300 U	19000 U	350 U
2-Nitroaniline	430		1700 U	45000 U	92000 U	1700 U
2-Nitrophenol	330		360 U	9300 U	19000 U	350 U
3,3'-Dichlorobenzidine	--		710 U	19000 U	38000 U	690 U
3-Nitroaniline	500		1700 U	45000 U	92000 U	1700 U
4,6-Dinitro-2-methylphenol	--		1700 U	45000 U	92000 U	1700 U
4-Bromophenyl phenyl ether	--		360 U	9300 U	19000 U	350 U
4-Chloro-3-methylphenol	240		360 U	9300 U	19000 U	350 U
4-Chloroaniline	220		360 U	9300 U	19000 U	350 U
4-Chlorophenyl phenyl ether	--		360 U	9300 U	19000 U	350 U
4-Methylphenol	900		360 U	9300 U	19000 U	350 U
4-Nitroaniline	--		710 U	19000 U	38000 U	690 U
4-Nitrophenol	100		1700 U	45000 U	92000 U	1700 U
Acenaphthene	50,000		360 U	9300 U	4500 J	16 J
Acenaphthylene	50,000		360 U	9300 U	19000 U	13 J
Anthracene	50,000		360 U	1800 J	1400 J	26 J
Benzo[a]anthracene	*		360 U	520 J	19000 U	100 J
Benzo[a]pyrene	*		360 U	9300 U	19000 U	110 J
Benzo[b]fluoranthene	*		360 U	9300 U	19000 U	95 J
Benzo[g,h,i]perylene	50,000		360 U	480 U	19000 U	97 J
Benzo[k]fluoranthene	*		360 U	9300 U	19000 U	89 J
Benzoic acid	--		RV	RV	RV	RV
Benzyl alcohol	--		360 U	9300 U	19000 U	350 U
bis(2-Chloroethoxy)methane	--		360 U	9300 U	19000 U	350 U
bis(2-Chloroethyl) ether	--		360 U	9300 U	19000 U	350 U
bis(2-Ethylhexyl) phthalate	50,000		150 J	9300UV	1900UV	350UV
Butylbenzyl phthalate	50,000		360 U	9300 U	19000 U	350 U
Carbazole	--		360 U	9300 U	19000 U	350 U
Chrysene	*		360 U	630 J	19000 U	120 J
Di-n-butyl phthalate	8,100		360 U	9300 U	19000 U	350 U
Di-n-octyl phthalate	50,000		360 U	9300 U	19000 U	350 U
Dibenzo[a,h]anthracene	*		360 U	9300 U	19000 U	27 J
Dibenzofuran	6,200		360 U	9300 U	19000 U	350 U
Diethyl phthalate	7,100		360 U	9300 U	19000 U	350 U
Dimethyl phthalate	2,000		360 U	9300 U	19000 U	350 U

Table 4. Summary of Semivolatile Organic Compounds Detected in Soil, Supplemental RI in OU-3, Sunnyside Yard, Queens, New York.

Parameter (Concentrations in µg/kg)	NYSDEC RSCOs (µg/kg)	**Designation:** **Sample Date:** **Sample Depth (ft bls):**	HD-10 11/25/03 16-18	HD-11 12/18/03 4-6	HD-11 12/18/03 8-10	HD-11 12/18/03 13-15
Fluoranthene	50,000		360 U	1800 J	19000 U	240 J
Fluorene	50,000		360 U	6400 J	7200 J	350 U
Hexachlorobenzene	41		360 U	9300 U	19000 U	350 U
Hexachlorobutadiene	--		360 U	9300 U	19000 U	350 U
Hexachlorocyclopentadiene	--		360 U	9300 U	19000 U	350 U
Hexachloroethane	--		360 U	9300 U	19000 U	350 U
Indeno[1,2,3-cd]pyrene	*		360 U	9300 U	19000 U	79 J
Isophorone	4,400		360 U	9300 U	19000 U	350 U
N-Nitrosodi-n-propylamine	--		360 U	9300 U	19000 U	350 U
N-Nitrosodiphenylamine	--		360 U	9300 U	19000 U	350 U
Naphthalene	13,000		360 U	9300 U	19000 U	350 U
Nitrobenzene	200		360 U	9300 U	19000 U	350 U
Pentachlorophenol	1,000		1700 U	45000 U	92000 U	1700 U
Phenanthrene	50,000		47 J	15000	12000 J	190 J
Phenol	30		360 U	9300 U	19000 U	350 U
Pyrene	50,000		360UJV	1900 J	1400 J	260 J

µg/kg - Micrograms per kilogram
Ft bls- Feet below land surface
J - Estimated value
N - Compound is tentative in identification - added during validation
R - Data rejected during validation
U - Indicates that the compound was analyzed for but not detected
V - Qualifier added and/or valude altered during data validation
* - Site specific criteria for total cPAHs used in place of NYSDEC RSCO criteria (see Table 3)
NYSDEC - New York State Department of Environmental Conservation
RSCOs - Recommended Soil Cleanup Objectives
- - No NYSDEC RSCO available
Note:
Bold data indicates that parameter was detected above the NYSDEC RSCOs

Table 4. Summary of Semivolatile Organic Compounds Detected in Soil, Supplemental RI in OU-3, Sunnyside Yard, Queens, New York.

Parameter (Concentrations in µg/kg)	NYSDEC RSCOs (µg/kg)	**Designation:** **Sample Date:** **Sample Depth (ft bls):**	HD-16 12/19/03 9-11	HD-16 12/19/03 13-15
1,2,4-Trichlorobenzene	3,400		360 U	380 U
1,2-Dichlorobenzene	7,900		360 U	380 U
1,3-Dichlorobenzene	1,600		360 U	380 U
1,4-Dichlorobenzene	8,500		360 U	380 U
2,2'-oxybis(1-Chloropropane)	--		360 U	380 U
2,4,5-Trichlorophenol	100		1800 U	1800 U
2,4,6-Trichlorophenol	--		360 U	380 U
2,4-Dichlorophenol	400		360 U	380 U
2,4-Dimethylphenol	--		360 U	380 U
2,4-Dinitrophenol	200		RV	RV
2,4-Dinitrotoluene	--		360 U	380 U
2,6-Dinitrotoluene	100		360 U	380 U
2-Chloronaphthalene	--		360 U	380 U
2-Chlorophenol	800		360 U	380 U
2-Methylnaphthalene	36,400		1100	380 U
2-Methylphenol	100		360 U	380 U
2-Nitroaniline	430		1800 U	1800 U
2-Nitrophenol	330		360 U	380 U
3,3'-Dichlorobenzidine	--		730 U	760 U
3-Nitroaniline	500		1800 U	1800 U
4,6-Dinitro-2-methylphenol	--		1800 U	1800 U
4-Bromophenyl phenyl ether	--		360 U	380 U
4-Chloro-3-methylphenol	240		360 U	380 U
4-Chloroaniline	220		360 U	380 U
4-Chlorophenyl phenyl ether	--		360 U	380 U
4-Methylphenol	900		360 U	380 U
4-Nitroaniline	--		730 U	760 U
4-Nitrophenol	100		1800 U	1800 U
Acenaphthene	50,000		360 U	380 U
Acenaphthylene	50,000		360 U	380 U
Anthracene	50,000		31 J	380 U
Benzo[a]anthracene	*		360 U	380 U
Benzo[a]pyrene	*		360 U	380 U
Benzo[b]fluoranthene	*		360 U	380 U
Benzo[g,h,i]perylene	50,000		360 U	380 U
Benzo[k]fluoranthene	*		360 U	380 U
Benzoic acid	--		RV	RV
Benzyl alcohol	--		360 U	380 U
bis(2-Chloroethoxy)methane	--		360 U	380 U
bis(2-Chloroethyl) ether	--		360 U	380 U
bis(2-Ethylhexyl) phthalate	50,000		360 U	380 U
Butylbenzyl phthalate	50,000		360 U	380 U
Carbazole	--		360 U	380 U
Chrysene	*		29 J	380 U
Di-n-butyl phthalate	8,100		360 U	380 U
Di-n-octyl phthalate	50,000		360 U	380 U
Dibenzo[a,h]anthracene	*		360 U	380 U
Dibenzofuran	6,200		360 U	380 U
Diethyl phthalate	7,100		360 U	380 U
Dimethyl phthalate	2,000		360 U	380 U

Table 4. Summary of Semivolatile Organic Compounds Detected in Soil, Supplemental RI in OU-3, Sunnyside Yard, Queens, New York.

Parameter (Concentrations in µg/kg)	NYSDEC RSCOs (µg/kg)	**Designation:** **Sample Date:** **Sample Depth (ft bls):**	HD-16 12/19/03 9-11	HD-16 12/19/03 13-15
Fluoranthene	50,000		29 J	380 U
Fluorene	50,000		150 J	380 U
Hexachlorobenzene	41		360 U	380 U
Hexachlorobutadiene	--		360 U	380 U
Hexachlorocyclopentadiene	--		360 UJV	380 UJV
Hexachloroethane	--		360 U	380 U
Indeno[1,2,3-cd]pyrene	*		360 U	380 U
Isophorone	4,400		360 U	380 U
N-Nitrosodi-n-propylamine	--		360 U	380 U
N-Nitrosodiphenylamine	--		360 U	380 U
Naphthalene	13,000		360 U	380 U
Nitrobenzene	200		360 U	380 U
Pentachlorophenol	1,000		1800 U	1800 U
Phenanthrene	50,000		260 J	380 U
Phenol	30		360 U	380 U
Pyrene	50,000		79 J	380 U

µg/kg - Micrograms per kilogram
Ft bls- Feet below land surface
J - Estimated value
N - Compound is tentative in identification - added during validation
R - Data rejected during validation
U - Indicates that the compound was analyzed for but not detected
V - Qualifier added and/or valude altered during data validation
* - Site specific criteria for total cPAHs used in place of NYSDEC RSCO criteria (see Table 3)
NYSDEC - New York State Department of Environmental Conservation
RSCOs - Recommended Soil Cleanup Objectives
- - No NYSDEC RSCO available
Note:
Bold data indicates that parameter was detected above the NYSDEC RSCOs

Table 5. Summary of Volatile Organic Compounds Detected in Soil, Supplemental RI in OU-3, Sunnyside Yard, Queens, New York.

Parameter (Concentrations in µg/kg)	NYSDEC RSCOs (µg/kg)	**Designation:** **Sample Date:** **Sample Depth (ft bls):**	HD-1 12/18/03 4-6	HD-4 11/26/03 8-10	HD-4 11/26/03 14-16
1,1,1-Trichloroethane	800		6 U	630 U	6 U
1,1,2,2-Tetrachloroethane	600		6 U	630 U	6 U
1,1,2-Trichloroethane	--		6 U	630 U	6 U
1,1-Dichloroethane	200		6 U	630 U	6 U
1,1-Dichloroethene	400		6 U	630 U	6 U
1,2-Dichloroethane	100		6 U	630 U	6 U
1,2-Dichloropropane	--		6 U	630 U	6 U
2-Butanone	300		12 U	630 UJV	11 U
2-Hexanone	--		12 U	630 U	11 U
4-Methyl-2-Pentanone	1,000		12 U	630 U	11 U
Acetone	200		12 UJV	630 UV	11 U
Benzene	60		6 U	630 U	6 U
Bromodichloromethane	--		6 U	630 U	6 U
Bromoform	--		6 U	630 U	6 U
Bromomethane	--		RV	630 U	6 U
Carbon Disulfide	2,700		6 U	630 U	6 U
Carbon Tetrachloride	600		6 U	630 U	6 U
Chlorobenzene	1,700		6 U	630 U	6 U
Chloroethane	1,900		6 U	630 U	6 U
Chloroform	300		6 U	630 U	6 U
Chloromethane	--		6 U	630 U	6 U
cis-1,2-Dichloroethene	--		6 U	630 U	6 U
cis-1,3-Dichloropropene	--		6 U	630 U	6 U
Dibromochloromethane	--		6 U	630 U	6 U
Ethylbenzene	5,500		6 U	630 U	6 U
Methylene Chloride	100		6 UJV	630 UV	6 UV
Styrene	--		6 U	630 U	6 U
Tetrachloroethene	1,400		6 U	630 UJV	6 U
Toluene	1,500		0.6 J	630 U	6 U
trans-1,2-Dichloroethene	300		6 U	630 U	6 U
trans-1,3-Dichloropropene	--		6 U	630 U	6 U
Trichloroethene	700		6 U	630 U	6 U
Vinyl Acetate	--		6 U	630 U	6 U
Vinyl Chloride	200		6 U	630 U	6 U
Xylenes (total)	1,200		2 J	630 U	6 U

µg/kg - Micrograms per kilogram
ft bls - Feet below land surface
J - Estimated value
U - Indicates that the compound was analyzed for but not detected
V - Qualifier added and/or value altered during data validation
-- No NYSDEC RSCO available
NYSDEC - New York State Department of Environmental Conservation
RSCOs - Recommended Soil Cleanup Objectives
Note:
Bold data indicates that parameter was detected above the NYSDEC RSCOs

Table 5. Summary of Volatile Organic Compounds Detected in Soil, Supplemental RI in OU-3, Sunnyside Yard, Queens, New York.

Parameter (Concentrations in µg/kg)	NYSDEC RSCOs (µg/kg)	**Designation:** **Sample Date:** **Sample Depth (ft bls):**	HD-6 11/26/03 9-11	HD-6 11/26/03 18-20	HD-7 11/25/03 8-10
1,1,1-Trichloroethane	800		2700 U	6 U	560 U
1,1,2,2-Tetrachloroethane	600		2700 U	6 U	560 U
1,1,2-Trichloroethane	--		2700 U	6 U	560 U
1,1-Dichloroethane	200		2700 U	6 U	560 U
1,1-Dichloroethene	400		2700 U	6 U	560 U
1,2-Dichloroethane	100		2700 U	6 U	560 U
1,2-Dichloropropane	--		2700 U	6 U	560 U
2-Butanone	300		2700 UJV	11 U	560 UJV
2-Hexanone	--		2700 U	11 U	560 U
4-Methyl-2-Pentanone	1,000		2700 U	11 U	560 U
Acetone	200		2700 UV	11 U	620 UV
Benzene	60		2700 U	6 U	560 U
Bromodichloromethane	--		2700 U	6 U	560 U
Bromoform	--		2700 U	6 U	560 U
Bromomethane	--		2700 UJV	6 U	560 UJV
Carbon Disulfide	2,700		2700 U	3 J	560 U
Carbon Tetrachloride	600		2700 U	6 U	560 U
Chlorobenzene	1,700		2700 U	6 U	560 U
Chloroethane	1,900		2700 U	6 U	560 U
Chloroform	300		2700 U	6 U	560 U
Chloromethane	--		2700 U	6 U	560 U
cis-1,2-Dichloroethene	--		2700 U	6 U	560 U
cis-1,3-Dichloropropene	--		2700 U	6 U	560 U
Dibromochloromethane	--		2700 U	6 U	560 U
Ethylbenzene	5,500		2700 U	6 U	460 J
Methylene Chloride	100		2700 UV	6 UJV	560 UV
Styrene	--		2700 U	6 U	560 U
Tetrachloroethene	1,400		2700 U	6 U	560 U
Toluene	1,500		2700 U	6 U	560 U
trans-1,2-Dichloroethene	300		2700 U	6 U	560 U
trans-1,3-Dichloropropene	--		2700 U	6 U	560 U
Trichloroethene	700		2700 U	6 U	560 U
Vinyl Acetate	--		2700 U	6 U	560 U
Vinyl Chloride	200		2700 U	6 U	560 U
Xylenes (total)	1,200		2700 U	6 U	850

µg/kg - Micrograms per kilogram
ft bls - Feet below land surface
J - Estimated value
U - Indicates that the compound was analyzed for but not detected
V - Qualifier added and/or value altered during data validation
-- No NYSDEC RSCO available
NYSDEC - New York State Department of Environmental Conservation
RSCOs - Recommended Soil Cleanup Objectives
Note:
Bold data indicates that parameter was detected above the NYSDEC RSCOs

Table 5. Summary of Volatile Organic Compounds Detected in Soil, Supplemental RI in OU-3, Sunnyside Yard, Queens, New York.

Parameter (Concentrations in µg/kg)	NYSDEC RSCOs (µg/kg)	**Designation:** **Sample Date:** **Sample Depth (ft bls):**	HD-7 11/25/03 21-23	HD-8D 11/24/03 7-9	HD-8D 11/24/03 20-22
1,1,1-Trichloroethane	800		6 U	5700 U	5 U
1,1,2,2-Tetrachloroethane	600		6 U	5700 U	5 U
1,1,2-Trichloroethane	--		6 U	5700 U	5 U
1,1-Dichloroethane	200		6 U	5700 U	5 U
1,1-Dichloroethene	400		6 U	5700 U	5 U
1,2-Dichloroethane	100		6 U	5700 U	5 U
1,2-Dichloropropane	--		6 U	5700 U	5 U
2-Butanone	300		11 U	**4100 J**	11 U
2-Hexanone	--		11 U	5700 U	11 U
4-Methyl-2-Pentanone	1,000		11 U	5700 U	11 U
Acetone	200		11 U	2200 UV	7 J
Benzene	60		6 U	5700 U	5 U
Bromodichloromethane	--		6 U	5700 U	5 U
Bromoform	--		6 U	5700 U	5 U
Bromomethane	--		6 U	5700 U	5 U
Carbon Disulfide	2,700		6 U	5700 U	5 U
Carbon Tetrachloride	600		6 U	5700 U	5 U
Chlorobenzene	1,700		6 U	5700 U	5 U
Chloroethane	1,900		6 U	5700 U	5 U
Chloroform	300		6 U	5700 U	5 U
Chloromethane	--		6 U	5700 U	5 U
cis-1,2-Dichloroethene	--		6 U	5700 U	5 U
cis-1,3-Dichloropropene	--		6 U	5700 U	5 U
Dibromochloromethane	--		6 U	5700 U	5 U
Ethylbenzene	5,500		6 U	2500 J	5 U
Methylene Chloride	100		6 UJV	**630 J**	5 UJV
Styrene	--		6 U	5700 U	5 U
Tetrachloroethene	1,400		6 U	5700 U	5 U
Toluene	1,500		6 U	5700 U	5 U
trans-1,2-Dichloroethene	300		6 U	5700 U	5 U
trans-1,3-Dichloropropene	--		6 U	5700 U	5 U
Trichloroethene	700		6 U	5700 U	5 U
Vinyl Acetate	--		6 U	5700 U	5 U
Vinyl Chloride	200		6 U	5700 U	5 U
Xylenes (total)	1,200		6 U	**18000**	5 U

µg/kg - Micrograms per kilogram
ft bls - Feet below land surface
J - Estimated value
U - Indicates that the compound was analyzed for but not detected
V - Qualifier added and/or value altered during data validation
-- No NYSDEC RSCO available
NYSDEC - New York State Department of Environmental Conservation
RSCOs - Recommended Soil Cleanup Objectives
Note:
Bold data indicates that parameter was detected above the NYSDEC RSCOs

Table 5. Summary of Volatile Organic Compounds Detected in Soil, Supplemental RI in OU-3, Sunnyside Yard, Queens, New York.

Parameter (Concentrations in µg/kg)	NYSDEC RSCOs (µg/kg)	**Designation:** **Sample Date:** **Sample Depth (ft bls):**	HD-8D 11/24/03 36-38	HD-10 11/25/03 6-8	HD-10 11/25/03 8-10
1,1,1-Trichloroethane	800		6 U	560 U	560 U
1,1,2,2-Tetrachloroethane	600		6 U	560 U	560 U
1,1,2-Trichloroethane	--		6 U	560 U	560 U
1,1-Dichloroethane	200		6 U	560 U	560 U
1,1-Dichloroethene	400		6 U	560 U	560 U
1,2-Dichloroethane	100		6 U	560 U	560 U
1,2-Dichloropropane	--		6 U	560 U	560 U
2-Butanone	300		11 U	560 UJV	560 UJV
2-Hexanone	--		11 U	560 U	560 U
4-Methyl-2-Pentanone	1,000		11 U	560 U	560 U
Acetone	200		11 U	650 UV	650 UV
Benzene	60		6 U	560 U	560 U
Bromodichloromethane	--		6 U	560 U	560 U
Bromoform	--		6 U	560 U	560 U
Bromomethane	--		6 U	560 UJV	560 UJV
Carbon Disulfide	2,700		6 U	560 U	560 U
Carbon Tetrachloride	600		6 U	560 U	560 U
Chlorobenzene	1,700		6 U	560 U	560 U
Chloroethane	1,900		6 U	560 U	560 U
Chloroform	300		6 U	560 U	560 U
Chloromethane	--		6 U	560 U	560 U
cis-1,2-Dichloroethene	--		6 U	560 U	560 U
cis-1,3-Dichloropropene	--		6 U	560 U	560 U
Dibromochloromethane	--		6 U	560 U	560 U
Ethylbenzene	5,500		6 U	110 J	180 J
Methylene Chloride	100		6 UJV	560 UV	560 UV
Styrene	--		6 U	560 U	560 U
Tetrachloroethene	1,400		6 U	560 U	560 U
Toluene	1,500		1 J	560 U	560 U
trans-1,2-Dichloroethene	300		6 U	560 U	560 U
trans-1,3-Dichloropropene	--		6 U	560 U	560 U
Trichloroethene	700		6 U	560 U	560 U
Vinyl Acetate	--		6 U	560 U	560 U
Vinyl Chloride	200		6 U	560 U	560 U
Xylenes (total)	1,200		6 U	330 J	590

µg/kg - Micrograms per kilogram
ft bls - Feet below land surface
J - Estimated value
U - Indicates that the compound was analyzed for but not detected
V - Qualifier added and/or value altered during data validation
-- No NYSDEC RSCO available
NYSDEC - New York State Department of Environmental Conservation
RSCOs - Recommended Soil Cleanup Objectives
Note:
Bold data indicates that parameter was detected above the NYSDEC RSCOs

Table 5. Summary of Volatile Organic Compounds Detected in Soil, Supplemental RI in OU-3, Sunnyside Yard, Queens, New York.

Parameter (Concentrations in µg/kg)	NYSDEC RSCOs (µg/kg)	**Designation:** **Sample Date:** **Sample Depth (ft bls):**	HD-10 11/25/03 16-18	HD-11 12/18/03 4-6	HD-11 12/18/03 8-10
1,1,1-Trichloroethane	800		6 U	570 U	580 U
1,1,2,2-Tetrachloroethane	600		6 U	570 U	580 U
1,1,2-Trichloroethane	--		6 U	570 U	580 U
1,1-Dichloroethane	200		6 U	570 U	580 U
1,1-Dichloroethene	400		6 U	570 U	580 U
1,2-Dichloroethane	100		6 U	570 U	580 U
1,2-Dichloropropane	--		6 U	570 U	580 U
2-Butanone	300		11 U	570 U	580 U
2-Hexanone	--		11 U	570 U	580 U
4-Methyl-2-Pentanone	1,000		11 U	570 U	580 U
Acetone	200		11 U	1300 UV	1000 UV
Benzene	60		6 U	570 U	580 U
Bromodichloromethane	--		6 U	570 U	580 U
Bromoform	--		6 U	570 U	580 U
Bromomethane	--		6 U	570 U	580 U
Carbon Disulfide	2,700		6 U	570 U	580 U
Carbon Tetrachloride	600		6 U	570 U	580 U
Chlorobenzene	1,700		6 U	570 U	580 U
Chloroethane	1,900		6 U	570 U	580 U
Chloroform	300		6 U	570 U	580 U
Chloromethane	--		6 U	570 U	580 U
cis-1,2-Dichloroethene	--		6 U	570 U	580 U
cis-1,3-Dichloropropene	--		6 U	570 U	580 U
Dibromochloromethane	--		6 U	570 U	580 U
Ethylbenzene	5,500		6 U	570 U	580 U
Methylene Chloride	100		6 UJV	570 U	84 J
Styrene	--		6 U	570 U	580 U
Tetrachloroethene	1,400		6 U	570 U	580 U
Toluene	1,500		6 U	570 U	580 U
trans-1,2-Dichloroethene	300		6 U	570 U	580 U
trans-1,3-Dichloropropene	--		6 U	570 U	580 U
Trichloroethene	700		6 U	570 U	580 U
Vinyl Acetate	--		6 U	570 U	580 U
Vinyl Chloride	200		6 U	570 U	580 U
Xylenes (total)	1,200		6 U	570 U	580 U

µg/kg - Micrograms per kilogram
ft bls - Feet below land surface
J - Estimated value
U - Indicates that the compound was analyzed for but not detected
V - Qualifier added and/or value altered during data validation
-- No NYSDEC RSCO available
NYSDEC - New York State Department of Environmental Conservation
RSCOs - Recommended Soil Cleanup Objectives
Note:
Bold data indicates that parameter was detected above the NYSDEC RSCOs

Table 5. Summary of Volatile Organic Compounds Detected in Soil, Supplemental RI in OU-3, Sunnyside Yard, Queens, New York.

Parameter (Concentrations in µg/kg)	NYSDEC RSCOs (µg/kg)	**Designation:** **Sample Date:** **Sample Depth (ft bls):**	HD-11 12/18/03 13-15	HD-14 12/18/03 4-6	HD-14 12/18/03 6-8
1,1,1-Trichloroethane	800		5 U	6 U	6 U
1,1,2,2-Tetrachloroethane	600		5 U	6 U	6 U
1,1,2-Trichloroethane	--		5 U	6 U	6 U
1,1-Dichloroethane	200		5 U	6 U	6 U
1,1-Dichloroethene	400		5 U	6 U	6 U
1,2-Dichloroethane	100		5 U	6 U	6 U
1,2-Dichloropropane	--		5 U	6 U	6 U
2-Butanone	300		10 U	26	39
2-Hexanone	--		10 U	11 U	12 U
4-Methyl-2-Pentanone	1,000		10 U	11 U	12 U
Acetone	200		10 UJV	84 UJV	110 UJV
Benzene	60		5 U	6 U	6 U
Bromodichloromethane	--		5 U	6 U	6 U
Bromoform	--		5 U	6 U	6 U
Bromomethane	--		RV	RV	RV
Carbon Disulfide	2,700		5 U	4 J	3 J
Carbon Tetrachloride	600		5 U	6 U	6 U
Chlorobenzene	1,700		5 U	6 U	6 U
Chloroethane	1,900		5 U	6 U	6 U
Chloroform	300		5 U	6 U	6 U
Chloromethane	--		5 U	6 U	6 U
cis-1,2-Dichloroethene	--		5 U	1 J	6 U
cis-1,3-Dichloropropene	--		5 U	6 U	6 U
Dibromochloromethane	--		5 U	6 U	6 U
Ethylbenzene	5,500		5 U	6 U	6 U
Methylene Chloride	100		5 UJV	6 UJV	6 UJV
Styrene	--		5 U	6 U	6 U
Tetrachloroethene	1,400		5 U	6 U	6 U
Toluene	1,500		5 U	6 U	6 U
trans-1,2-Dichloroethene	300		5 U	6 U	6 U
trans-1,3-Dichloropropene	--		5 U	6 U	6 U
Trichloroethene	700		5 U	6 U	6 U
Vinyl Acetate	--		5 U	6 U	6 U
Vinyl Chloride	200		5 U	6 U	6 U
Xylenes (total)	1,200		5 U	6 U	6 U

µg/kg - Micrograms per kilogram
ft bls - Feet below land surface
J - Estimated value
U - Indicates that the compound was analyzed for but not detected
V - Qualifier added and/or value altered during data validation
-- No NYSDEC RSCO available
NYSDEC - New York State Department of Environmental Conservation
RSCOs - Recommended Soil Cleanup Objectives
Note:
Bold data indicates that parameter was detected above the NYSDEC RSCOs

Table 5. Summary of Volatile Organic Compounds Detected in Soil, Supplemental RI in OU-3, Sunnyside Yard, Queens, New York.

Parameter (Concentrations in µg/kg)	NYSDEC RSCOs (µg/kg)	**Designation:** **Sample Date:** **Sample Depth (ft bls):**	HD-16 12/19/03 9-11	HD-16 12/19/03 13-15	HD-19 12/19/03 2-4
1,1,1-Trichloroethane	800		24 U	5 U	6 U
1,1,2,2-Tetrachloroethane	600		24 U	5 U	6 U
1,1,2-Trichloroethane	--		24 U	5 U	6 U
1,1-Dichloroethane	200		24 U	5 U	6 U
1,1-Dichloroethene	400		24 U	5 U	6 U
1,2-Dichloroethane	100		24 U	5 U	6 U
1,2-Dichloropropane	--		24 U	5 U	6 U
2-Butanone	300		48 U	9 U	12 U
2-Hexanone	--		48 U	9 U	12 U
4-Methyl-2-Pentanone	1,000		48 U	9 U	12 U
Acetone	200		27 J	9 UJV	12 UJV
Benzene	60		24 U	5 U	6 U
Bromodichloromethane	--		24 U	5 U	6 U
Bromoform	--		24 U	5 U	6 U
Bromomethane	--		RV	RV	RV
Carbon Disulfide	2,700		24 U	5 U	6 U
Carbon Tetrachloride	600		24 U	5 U	6 U
Chlorobenzene	1,700		24 U	5 U	6 U
Chloroethane	1,900		24 U	5 U	6 U
Chloroform	300		24 U	5 U	6 U
Chloromethane	--		24 U	5 U	6 U
cis-1,2-Dichloroethene	--		24 U	5 U	6 U
cis-1,3-Dichloropropene	--		24 U	5 U	6 U
Dibromochloromethane	--		24 U	5 U	6 U
Ethylbenzene	5,500		24 U	5 U	6 U
Methylene Chloride	100		24 UJV	5 UJV	6 UJV
Styrene	--		24 U	5 U	6 U
Tetrachloroethene	1,400		24 U	5 U	6 U
Toluene	1,500		24 U	5 U	6 U
trans-1,2-Dichloroethene	300		24 U	5 U	6 U
trans-1,3-Dichloropropene	--		24 U	5 U	6 U
Trichloroethene	700		24 U	5 U	6 U
Vinyl Acetate	--		24 U	5 U	6 U
Vinyl Chloride	200		24 U	5 U	6 U
Xylenes (total)	1,200		24 U	5 U	6 U

µg/kg - Micrograms per kilogram
ft bls - Feet below land surface
J - Estimated value
U - Indicates that the compound was analyzed for but not detected
V - Qualifier added and/or value altered during data validation
-- No NYSDEC RSCO available
NYSDEC - New York State Department of Environmental Conservation
RSCOs - Recommended Soil Cleanup Objectives
Note:
Bold data indicates that parameter was detected above the NYSDEC RSCOs

Table 6. Summary of Metals Detected in Soil, Supplemental RI in OU-3, Sunnyside Yard, Queens, New York.

Parameter (Concentrations in mg/kg)	NYSDEC - Site-Specific Soil Cleanup Level for Lead (mg/kg)	NYSDEC RSCOs or Eastern USA Background Criteria (mg/kg)	Sample Designation: HD-1 Sample Date: 12/18/03 Sample Depth (ft bls): 4-6	HD-2 12/18/03 9-11	HD-2 12/18/03 13-15	HD-3 11/26/03 5-7
Aluminum		33,000*	-	-	-	-
Antimony		--	-	-	-	-
Arsenic		7.5	-	-	-	-
Barium		300	-	-	-	-
Beryllium		0.16	-	-	-	-
Cadmium		1	-	-	-	-
Calcium		35,000*	-	-	-	-
Chromium		10	-	-	-	-
Cobalt		30	-	-	-	-
Copper		25	-	-	-	-
Iron		2000	-	-	-	-
Lead	1,000		5 B	2.2 B	1.9 B	3.2 B
Magnesium		5,000*	-	-	-	-
Manganese		5,000*	-	-	-	-
Mercury		0.1	-	-	-	-
Nickel		13	-	-	-	-
Potassium		43,000*	-	-	-	-
Selenium		2	-	-	-	-
Silver		--	-	-	-	-
Sodium		8,000*	-	-	-	-
Thallium		--	-	-	-	-
Vanadium		150	-	-	-	-
Zinc		20	-	-	-	-

mg/kg - Milligrams per kilogram
ft bls - Feet below land surface
B - Indicates analyte result between instrument detection limit and the contract required detection limit
U - Indicates that the compound was analyzed for but not detected
V - Qualifier added and/or value altered during data validation
NYSDEC - New York State Department of Environmental Conservation
RSCOs - Recommended Soil Cleanup Objectives
- - Sample submitted for Lead analysis only, and not analyzed for specific metal
* - Eastern USA Background criteria used due to lack of NYSDEC RSCO criteria for specific metal
-- No NYSDEC RSCO or Eastern USA Background criteria available

Note:
Bold data indicates that parameter was detected above the NYSDEC RSCOs, Eastern USA Background Criteria, or Site Specific Cleanup Criteria for lead.

Table 6. Summary of Metals Detected in Soil, Supplemental RI in OU-3, Sunnyside Yard, Queens, New York.

Parameter (Concentrations in mg/kg)	NYSDEC - Site-Specific Soil Cleanup Level for Lead (mg/kg)	NYSDEC RSCOs or Eastern USA Background Criteria (mg/kg)	Sample Designation: HD-3 Sample Date: 11/26/03 Sample Depth (ft bls): 8-10	HD-4 11/26/03 8-10	HD-4 11/26/03 14-16	HD-5B 11/25/03 9-11
Aluminum		33,000*	-	3200	3010	-
Antimony		--	-	1.8 UJV	1.6 UJV	-
Arsenic		7.5	-	1.5 UJV	1.3 UJV	-
Barium		300	-	22.2	114	-
Beryllium		0.16	-	3 U	2.7 U	-
Cadmium		1	-	4.5 U	4 U	-
Calcium		35,000*	-	1420	1310	-
Chromium		10	-	7.6	**10.8**	-
Cobalt		30	-	3.1	3.7	-
Copper		25	-	12.2 JV	12.2 JV	-
Iron		2000	-	**7770**	**6880**	-
Lead	1,000		3.1 B	3.4 B	1.9 B	4.2 B
Magnesium		5,000*	-	1740	1880	-
Manganese		5,000*	-	88 JV	818 JV	-
Mercury		0.1	-	2.2 U	1.8 U	-
Nickel		13	-	7.8	8.2	-
Potassium		43,000*	-	392 V	469 V	-
Selenium		2	-	2.4 UV	2.2 UV	-
Silver		--	-	4.5 U	4 U	-
Sodium		8,000*	-	189	175	-
Thallium		--	-	32.8 U	29.7 U	-
Vanadium		150	-	17.8	9.8	-
Zinc		20	-	15.9 B	12.9 B	-

mg/kg - Milligrams per kilogram
ft bls - Feet below land surface
B - Indicates analyte result between instrument detection limit and the contract required detection limit
U - Indicates that the compound was analyzed for but not detected
V - Qualifier added and/or value altered during data validation
NYSDEC - New York State Department of Environmental Conservation
RSCOs - Recommended Soil Cleanup Objectives
- - Sample submitted for Lead analysis only, and not analyzed for specific metal
* - Eastern USA Background criteria used due to lack of NYSDEC RSCO criteria for specific metal
-- No NYSDEC RSCO or Eastern USA Background criteria available

Note:
Bold data indicates that parameter was detected above the NYSDEC RSCOs, Eastern USA Background Criteria, or Site Specific Cleanup Criteria for lead.

Table 6. Summary of Metals Detected in Soil, Supplemental RI in OU-3, Sunnyside Yard, Queens, New York.

Parameter (Concentrations in mg/kg)	NYSDEC - Site-Specific Soil Cleanup Level for Lead (mg/kg)	NYSDEC RSCOs or Eastern USA Background Criteria (mg/kg)	Sample Designation: HD-5B Sample Date: 11/25/03 Sample Depth (ft bls): 15-16	HD-6 11/26/03 9-11	HD-6 11/26/03 18-20	HD-7 11/25/03 8-10
Aluminum		33,000*	-	3450	3010	6370
Antimony		--	-	15.4 UJV	15.9 UJV	1.5 UJV
Arsenic		7.5	-	10.5 UJV	10.9 UJV	1.2 UJV
Barium		300	-	59.4	26.3	79.9
Beryllium		0.16	-	2.6 U	2.7 U	2.5 U
Cadmium		1	-	3.9 U	4.1 U	3.7 U
Calcium		35,000*	-	1350 JV	3410 JV	9560 JV
Chromium		10	-	7.2	6.7	**14.7**
Cobalt		30	-	3.4	3.1	6.4
Copper		25	-	9.8	8.3	**25.5**
Iron		2000	-	**8320**	**7110**	**13500**
Lead	1,000		17.4	2.6 B	1.8 B	3.3 B
Magnesium		5,000*	-	2170	2460	**7160**
Manganese		5,000*	-	1460 JV	227 JV	358 JV
Mercury		0.1	-	2.1 U	2 U	1.8 U
Nickel		13	-	8.2	7.1	**13.8**
Potassium		43,000*	-	586	488	1080
Selenium		2	-	21 U	21.7 U	19.9 U
Silver		--	-	3.9 U	4.1 U	3.7 U
Sodium		8,000*	-	96.4 B	104 B	401
Thallium		--	-	28.9 U	29.9 U	27.3 U
Vanadium		150	-	9.6	8.1	19.1
Zinc		20	-	16 B	13.7 B	**28**

mg/kg - Milligrams per kilogram
ft bls - Feet below land surface
B - Indicates analyte result between instrument detection limit and the contract required detection limit
U - Indicates that the compound was analyzed for but not detected
V - Qualifier added and/or value altered during data validation
NYSDEC - New York State Department of Environmental Conservation
RSCOs - Recommended Soil Cleanup Objectives
- - Sample submitted for Lead analysis only, and not analyzed for specific metal
* - Eastern USA Background criteria used due to lack of NYSDEC RSCO criteria for specific metal
-- No NYSDEC RSCO or Eastern USA Background criteria available

Note:
Bold data indicates that parameter was detected above the NYSDEC RSCOs, Eastern USA Background Criteria, or Site Specific Cleanup Criteria for lead.

Table 6. Summary of Metals Detected in Soil, Supplemental RI in OU-3, Sunnyside Yard, Queens, New York.

Parameter (Concentrations in mg/kg)	NYSDEC - Site-Specific Soil Cleanup Level for Lead (mg/kg)	NYSDEC RSCOs or Eastern USA Background Criteria (mg/kg)	Sample Designation: HD-7 Sample Date: 11/25/03 Sample Depth (ft bls): 21-23	HD-8D 11/24/03 7-9	HD-8D 11/24/03 20-22	HD-9 11/26/03 8-10
Aluminum		33,000*	2990	4070	4570	-
Antimony		--	1.6 UJV	1.6 UJV	1.6 UJV	-
Arsenic		7.5	1.3 UJV	1.4 UJV	1.3 UJV	-
Barium		300	34.5	97.3	60.3	-
Beryllium		0.16	2.7 U	2.7 U	2.6 U	-
Cadmium		1	4 U	4.1 U	3.9 U	-
Calcium		35,000*	4010 JV	1560 JV	3050 JV	-
Chromium		10	6.4	**10.3**	9.1	-
Cobalt		30	2.8	4.6	4.8	-
Copper		25	8.8	15.3	12.8	-
Iron		2000	**7360**	**10500**	**12200**	-
Lead	1,000		2 B	3.4 B	4.4 B	4.5 B
Magnesium		5,000*	2470	2190	4010	-
Manganese		5,000*	143 JV	343 JV	237 JV	-
Mercury		0.1	2.1 U	1.9 U	1.9 U	-
Nickel		13	7.1	9.5	11.9	-
Potassium		43,000*	483	681	518	-
Selenium		2	21.4 U	21.8 U	20.9 U	-
Silver		--	4 U	4.1 U	3.9 U	-
Sodium		8,000*	114 B	145	188	-
Thallium		--	29.4 U	30 U	28.7 U	-
Vanadium		150	11	21.7	11.9	-
Zinc		20	14.6 B	**22.1 B**	**22.3 B**	-

mg/kg - Milligrams per kilogram
ft bls - Feet below land surface
B - Indicates analyte result between instrument detection limit and the contract required detection limit
U - Indicates that the compound was analyzed for but not detected
V - Qualifier added and/or value altered during data validation
NYSDEC - New York State Department of Environmental Conservation
RSCOs - Recommended Soil Cleanup Objectives
- - Sample submitted for Lead analysis only, and not analyzed for specific metal
* - Eastern USA Background criteria used due to lack of NYSDEC RSCO criteria for specific metal
-- No NYSDEC RSCO or Eastern USA Background criteria available

Note:
Bold data indicates that parameter was detected above the NYSDEC RSCOs, Eastern USA Background Criteria, or Site Specific Cleanup Criteria for lead.

Table 6. Summary of Metals Detected in Soil, Supplemental RI in OU-3, Sunnyside Yard, Queens, New York.

Parameter (Concentrations in mg/kg)	NYSDEC - Site-Specific Soil Cleanup Level for Lead (mg/kg)	NYSDEC RSCOs or Eastern USA Background Criteria (mg/kg)	Sample Designation: HD-9 Sample Date: 11/26/03 Sample Depth (ft bls): 13-15	HD-10 11/25/03 6-8	HD-10 11/25/03 8-10	HD-10 11/25/03 16-18
Aluminum		33,000*	-	3880	3910	4620
Antimony		--	-	1.4 UJV	1.5 UJV	1.6 UJV
Arsenic		7.5	-	1.2 UJV	1.2 UJV	1.3 UJV
Barium		300	-	80.9	63.1	82.5
Beryllium		0.16	-	2.4 U	2.4 U	2.7 U
Cadmium		1	-	3.5 U	3.7 U	4 U
Calcium		35,000*	-	6090 JV	6660 JV	3980 JV
Chromium		10	-	9.6	9.6	**10.6**
Cobalt		30	-	4.5	4.6	4.4
Copper		25	-	12.1	15.4	13.4
Iron		2000	-	**9620**	**10300**	**10900**
Lead	1,000		2.1 B	2.5 B	2.9 B	3.3 B
Magnesium		5,000*	-	4710	4630	3640
Manganese		5,000*	-	765 JV	178 JV	196 JV
Mercury		0.1	-	2.2 U	2 U	2.2 U
Nickel		13	-	9.1	9.1	9.6
Potassium		43,000*	-	747	820	1020
Selenium		2	-	18.9 U	19.6 U	21.5 U
Silver		--	-	3.5 U	3.7 U	4 U
Sodium		8,000*	-	161	130	102 B
Thallium		--	-	25.9 U	26.9 U	29.6 U
Vanadium		150	-	12.7	16.5	13.5
Zinc		20	-	**22.8 B**	**23.1 B**	**22.8 B**

mg/kg - Milligrams per kilogram
ft bls - Feet below land surface
B - Indicates analyte result between instrument detection limit and the contract required detection limit
U - Indicates that the compound was analyzed for but not detected
V - Qualifier added and/or value altered during data validation
NYSDEC - New York State Department of Environmental Conservation
RSCOs - Recommended Soil Cleanup Objectives
- - Sample submitted for Lead analysis only, and not analyzed for specific metal
* - Eastern USA Background criteria used due to lack of NYSDEC RSCO criteria for specific metal
-- No NYSDEC RSCO or Eastern USA Background criteria available

Note:
Bold data indicates that parameter was detected above the NYSDEC RSCOs, Eastern USA Background Criteria, or Site Specific Cleanup Criteria for lead.

Table 6. Summary of Metals Detected in Soil, Supplemental RI in OU-3, Sunnyside Yard, Queens, New York.

Parameter (Concentrations in mg/kg)	NYSDEC - Site-Specific Soil Cleanup Level for Lead (mg/kg)	NYSDEC RSCOs or Eastern USA Background Criteria (mg/kg)	Sample Designation: HD-11 Sample Date: 12/18/03 Sample Depth (ft bls): 4-6	HD-11 12/18/03 13-15	HD-12 11/25/03 6-8	HD-12 11/25/03 14-16
Aluminum		33,000*	3870	3590	-	-
Antimony		--	1.6 UJV	1.6 UJV	-	-
Arsenic		7.5	5 B	10.4 U	-	-
Barium		300	45.4	44.1	-	-
Beryllium		0.16	2.7 U	2.6 U	-	-
Cadmium		1	4.1 U	3.9 U	-	-
Calcium		35,000*	2420	8350	-	-
Chromium		10	**13.3**	8.6	-	-
Cobalt		30	4.5	4	-	-
Copper		25	**25.1**	17.4	-	-
Iron		2000	**17300**	**8520**	-	-
Lead	1,000		159	2.3 B	2.3 B	2.9 B
Magnesium		5,000*	1580	**5160**	-	-
Manganese		5,000*	157	199	-	-
Mercury		0.1	0.097 BJV	0.043 U	-	-
Nickel		13	9.4	8	-	-
Potassium		43,000*	435	712	-	-
Selenium		2	22 U	20.7 U	-	-
Silver		--	4.1 U	3.9 U	-	-
Sodium		8,000*	224	189	-	-
Thallium		--	30.2 U	28.5 U	-	-
Vanadium		150	14.4	13.5	-	-
Zinc		20	**188**	18.9 B	-	-

mg/kg - Milligrams per kilogram
ft bls - Feet below land surface
B - Indicates analyte result between instrument detection limit and the contract required detection limit
U - Indicates that the compound was analyzed for but not detected
V - Qualifier added and/or value altered during data validation
NYSDEC - New York State Department of Environmental Conservation
RSCOs - Recommended Soil Cleanup Objectives
- - Sample submitted for Lead analysis only, and not analyzed for specific metal
* - Eastern USA Background criteria used due to lack of NYSDEC RSCO criteria for specific metal
-- No NYSDEC RSCO or Eastern USA Background criteria available

Note:
Bold data indicates that parameter was detected above the NYSDEC RSCOs, Eastern USA Background Criteria, or Site Specific Cleanup Criteria for lead.

Table 6. Summary of Metals Detected in Soil, Supplemental RI in OU-3, Sunnyside Yard, Queens, New York.

Parameter (Concentrations in mg/kg)	NYSDEC - Site-Specific Soil Cleanup Level for Lead (mg/kg)	NYSDEC RSCOs or Eastern USA Background Criteria (mg/kg)	Sample Designation: HD-13 Sample Date: 12/19/03 Sample Depth (ft bls): 3-5	HD-14 12/18/03 4-6	HD-14 12/18/03 6-8	HD-15C 11/25/03 6-8
Aluminum		33,000*	-	-	-	-
Antimony		--	-	-	-	-
Arsenic		7.5	-	-	-	-
Barium		300	-	-	-	-
Beryllium		0.16	-	-	-	-
Cadmium		1	-	-	-	-
Calcium		35,000*	-	-	-	-
Chromium		10	-	-	-	-
Cobalt		30	-	-	-	-
Copper		25	-	-	-	-
Iron		2000	-	-	-	-
Lead	1,000		4 B	41.3	4.3 B	3.4 B
Magnesium		5,000*	-	-	-	-
Manganese		5,000*	-	-	-	-
Mercury		0.1	-	-	-	-
Nickel		13	-	-	-	-
Potassium		43,000*	-	-	-	-
Selenium		2	-	-	-	-
Silver		--	-	-	-	-
Sodium		8,000*	-	-	-	-
Thallium		--	-	-	-	-
Vanadium		150	-	-	-	-
Zinc		20	-	-	-	-

mg/kg - Milligrams per kilogram
ft bls - Feet below land surface
B - Indicates analyte result between instrument detection limit and the contract required detection limit
U - Indicates that the compound was analyzed for but not detected
V - Qualifier added and/or value altered during data validation
NYSDEC - New York State Department of Environmental Conservation
RSCOs - Recommended Soil Cleanup Objectives
- - Sample submitted for Lead analysis only, and not analyzed for specific metal
* - Eastern USA Background criteria used due to lack of NYSDEC RSCO criteria for specific metal
-- No NYSDEC RSCO or Eastern USA Background criteria available

Note:
Bold data indicates that parameter was detected above the NYSDEC RSCOs, Eastern USA Background Criteria, or Site Specific Cleanup Criteria for lead.

Table 6. Summary of Metals Detected in Soil, Supplemental RI in OU-3, Sunnyside Yard, Queens, New York.

Parameter (Concentrations in mg/kg)	NYSDEC - Site-Specific Soil Cleanup Level for Lead (mg/kg)	NYSDEC RSCOs or Eastern USA Background Criteria (mg/kg)	Sample Designation: HD-15C Sample Date: 11/25/03 Sample Depth (ft bls): 20-22	HD-15C 11/25/03 28-30	HD-16 12/19/03 9-11	HD-16 12/19/03 13-15
Aluminum		33,000*	-	-	4440	2120
Antimony		--	-	-	1.6 UJV	1.6 UJV
Arsenic		7.5	-	-	10.5 U	10.7 U
Barium		300	-	-	59.3	13.9
Beryllium		0.16	-	-	2.6 U	2.7 U
Cadmium		1	-	-	3.9 U	4 U
Calcium		35,000*	-	-	3990	1420
Chromium		10	-	-	**14.3**	4.4
Cobalt		30	-	-	4.2	2.2 B
Copper		25	-	-	17.7	3.9 B
Iron		2000	-	-	**10100**	**5020**
Lead	1,000		3.3 B	2.7 B	3.2 B	1.5 B
Magnesium		5,000*	-	-	3900	1680
Manganese		5,000*	-	-	127	52.6
Mercury		0.1	-	-	0.054 U	0.049 U
Nickel		13	-	-	8.5	6.1 B
Potassium		43,000*	-	-	1350	265 B
Selenium		2	-	-	20.9 U	21.4 U
Silver		--	-	-	3.9 U	4 U
Sodium		8,000*	-	-	163	91.5 B
Thallium		--	-	-	28.7 U	29.4 U
Vanadium		150	-	-	23.1	6.8
Zinc		20	-	-	**26.7**	9.5 B

mg/kg - Milligrams per kilogram
ft bls - Feet below land surface
B - Indicates analyte result between instrument detection limit and the contract required detection limit
U - Indicates that the compound was analyzed for but not detected
V - Qualifier added and/or value altered during data validation
NYSDEC - New York State Department of Environmental Conservation
RSCOs - Recommended Soil Cleanup Objectives
- - Sample submitted for Lead analysis only, and not analyzed for specific metal
* - Eastern USA Background criteria used due to lack of NYSDEC RSCO criteria for specific metal
-- No NYSDEC RSCO or Eastern USA Background criteria available

Note:
Bold data indicates that parameter was detected above the NYSDEC RSCOs, Eastern USA Background Criteria, or Site Specific Cleanup Criteria for lead.

Table 6. Summary of Metals Detected in Soil, Supplemental RI in OU-3, Sunnyside Yard, Queens, New York.

Parameter (Concentrations in mg/kg)	NYSDEC - Site-Specific Soil Cleanup Level for Lead (mg/kg)	NYSDEC RSCOs or Eastern USA Background Criteria (mg/kg)	Sample Designation: HD-17 Sample Date: 12/18/03 Sample Depth (ft bls): 4-6	HD-17 12/18/03 8-10	HD-18 12/18/03 4-6	HD-19 12/19/03 2-4
Aluminum		33,000*	-	-	-	-
Antimony		--	-	-	-	-
Arsenic		7.5	-	-	-	-
Barium		300	-	-	-	-
Beryllium		0.16	-	-	-	-
Cadmium		1	-	-	-	-
Calcium		35,000*	-	-	-	-
Chromium		10	-	-	-	-
Cobalt		30	-	-	-	-
Copper		25	-	-	-	-
Iron		2000	-	-	-	-
Lead	1,000		182	10.7 B	20.1	3.5 B
Magnesium		5,000*	-	-	-	-
Manganese		5,000*	-	-	-	-
Mercury		0.1	-	-	-	-
Nickel		13	-	-	-	-
Potassium		43,000*	-	-	-	-
Selenium		2	-	-	-	-
Silver		--	-	-	-	-
Sodium		8,000*	-	-	-	-
Thallium		--	-	-	-	-
Vanadium		150	-	-	-	-
Zinc		20	-	-	-	-

mg/kg - Milligrams per kilogram
ft bls - Feet below land surface
B - Indicates analyte result between instrument detection limit and the contract required detection limit
U - Indicates that the compound was analyzed for but not detected
V - Qualifier added and/or value altered during data validation
NYSDEC - New York State Department of Environmental Conservation
RSCOs - Recommended Soil Cleanup Objectives
- - Sample submitted for Lead analysis only, and not analyzed for specific metal
* - Eastern USA Background criteria used due to lack of NYSDEC RSCO criteria for specific metal
-- No NYSDEC RSCO or Eastern USA Background criteria available

Note:
Bold data indicates that parameter was detected above the NYSDEC RSCOs, Eastern USA Background Criteria, or Site Specific Cleanup Criteria for lead.

Table 6. Summary of Metals Detected in Soil, Supplemental RI in OU-3, Sunnyside Yard, Queens, New York.

Parameter (Concentrations in mg/kg)	NYSDEC - Site-Specific Soil Cleanup Level for Lead (mg/kg)	NYSDEC RSCOs or Eastern USA Background Criteria (mg/kg)	Sample Designation: HD-20 Sample Date: 11/26/03 Sample Depth (ft bls): 6-8	Sample Designation: HD-20 Sample Date: 11/26/03 Sample Depth (ft bls): 10-12
Aluminum		33,000*	-	-
Antimony		--	-	-
Arsenic		7.5	-	-
Barium		300	-	-
Beryllium		0.16	-	-
Cadmium		1	-	-
Calcium		35,000*	-	-
Chromium		10	-	-
Cobalt		30	-	-
Copper		25	-	-
Iron		2000	-	-
Lead	1,000		2.3 B	2.3 B
Magnesium		5,000*	-	-
Manganese		5,000*	-	-
Mercury		0.1	-	-
Nickel		13	-	-
Potassium		43,000*	-	-
Selenium		2	-	-
Silver		--	-	-
Sodium		8,000*	-	-
Thallium		--	-	-
Vanadium		150	-	-
Zinc		20	-	-

mg/kg - Milligrams per kilogram
ft bls - Feet below land surface
B - Indicates analyte result between instrument detection limit and the contract required detection limit
U - Indicates that the compound was analyzed for but not detected
V - Qualifier added and/or value altered during data validation
NYSDEC - New York State Department of Environmental Conservation
RSCOs - Recommended Soil Cleanup Objectives
- - Sample submitted for Lead analysis only, and not analyzed for specific metal
* - Eastern USA Background criteria used due to lack of NYSDEC RSCO criteria for specific metal
-- No NYSDEC RSCO or Eastern USA Background criteria available

Note:
Bold data indicates that parameter was detected above the NYSDEC RSCOs, Eastern USA Background Criteria, or Site Specific Cleanup Criteria for lead.

Table 7. Summary of Semivolatile Organic Compounds Detected in Soil, Pre-Design Study, OU-3, Sunnyside Yard, Queens, New York

Parameter (Concentrations in µg/kg)	Sample Designation:	PDB-1	PDB-1	PDB-2	PDB-2	PDB-3	PDB-3	PDB-4	PDB-4	PDB-5	PDB-5	PDB-6	PDB-6
	Sample Date:	04/16/04	04/16/04	04/16/04	04/16/04	04/16/04	04/16/04	04/16/04	04/16/04	04/16/04	04/16/04	04/16/04	04/16/04
	Sample Depth (ft bls):	0.5-2.5	2.5-4.5	3-5	5-7	2-4	4-6	3-5	5-7	0.5-2.5	2.5-4.5	0-2	2-4
1,2,4-Trichlorobenzene		2100	1500 U	790 U	760 U	740 U	770 U	1500 U	1500 U	1700 U	780 U	1700 U	780 U
1,2-Dichlorobenzene		170 J	1500 U	790 U	760 U	740 U	770 U	1500 U	1500 U	1700 U	780 U	1700 U	780 U
1,3-Dichlorobenzene		1400 J	1500 U	790 U	760 U	740 U	770 U	1500 U	1500 U	1700 U	780 U	1700 U	780 U
1,4-Dichlorobenzene		8500	15000 U	790 U	15000 U	740 U	770 U	1500 U	1500 U	3400 U	780 U	1700 U	780 U
2,2-oxybis (1-chloropropane)		1400 U	15000 U	790 U	15000 U	740 U	770 U	1500 U	1500 U	3400 U	6300 U	1700 U	780 U
2,4,5-Trichlorophenol		7000 U	73000 U	3800 U	3700 U	3600 U	3700 U	7100 U	7500 U	8300 U	30000 U	8300 U	3800 U
2,4,6-Trichlorophenol		1400 U	1500 U	790 U	15000 U	740 U	770 U	1500 U	1500 U	3400 U	6300 U	1700 U	780 U
2,4-Dichlorophenol		1400 U	15000 U	790 U	15000 U	740 U	770 U	1500 U	1500 U	3400 U	780 U	1700 U	780 U
2,4-Dimethylphenol		1400 U	1500 U	790 U	760 U	740 U	770 U	1500 U	1500 U	1700 U	6300 U	1700 U	780 U
2,4-Dinitrophenol		7000 U	7300 U	3800 U	3700 U	3600 U	3700 U	7100 U	7500 U	8300 U	30000 U	8300 U	3800 U
2,4-Dinitrotoluene		1400 U	15000 U	790 U	760 U	740 U	770 U	1500 U	1500 U	1700 U	6300 U	1700 U	780 U
2,6-Dinitrotoluene		1400 U	1500 U	790 U	760 U	740 U	770 U	1500 U	1500 U	1700 U	6300 U	1700 U	780 U
2-Chloronaphthalene		1400 U	1500 U	790 U	760 U	740 U	770 U	1500 U	1500 U	1700 U	6300 U	1700 U	780 U
2-Chlorophenol		1400 U	15000 U	790 U	15000 U	740 U	770 U	1500 U	1500 U	3400 U	780 U	1700 U	780 U
2-Methylnaphthalene		4100	94000	780 J	67000	220 J	770 U	1500	2300	23000	31000	1000 J	5400
2-Methylphenol		1400 U	1500 U	790 U	760 U	740 U	770 U	1500 U	1500 U	1700 U	6300 U	1700 U	780 U
2-Nitroaniline		7000 U	73000 U	3800 U	74000 U	3600 U	3700 U	7100 U	7500 U	17000 U	3800 U	8300 U	3800 U
2-Nitrophenol		1400 U	15000 U	790 U	15000 U	740 U	770 U	1500 U	1500 U	3400 U	780 U	1700 U	780 U
3,3-Dichlorobenzidine		2900 U	30000 U	1600 U	30000 U	1500 U	1500 U	2900 U	3100 U	6800 U	13000 U	3400 U	1600 U
3-Nitroaniline		7000 U	7300 U	3800 U	3700 U	3600 U	3700 U	7100 U	7500 U	8300 U	30000 U	8300 U	3800 U
4,6-Dinitro-2-methylphenol		7000 U	73000 U	3800 U	3700 U	3600 U	3700 U	7100 U	7500 U	8300 U	30000 U	8300 U	3800 U
4-Bromophenyl phenyl ether		1400 U	15000 U	790 U	760 U	740 U	770 U	1500 U	1500 U	1700 U	6300 U	1700 U	780 U
4-Chloro-3-methylphenol		1400 U	15000 U	790 U	15000 U	740 U	770 U	1500 U	1500 U	3400 U	780 U	1700 U	780 U
4-Chloroaniline		1400 U	1500 U	790 U	760 U	740 U	770 U	1500 U	1500 U	1700 U	780 U	1700 U	780 U
4-Chlorophenyl phenyl ether		1400 U	1500 U	790 U	15000 U	740 U	770 U	1500 U	1500 U	3400 U	780 U	1700 U	780 U
4-Methylphenol		1400 U	1500 U	790 U	760 U	740 U	770 U	1500 U	1500 U	1700 U	780 U	1700 U	780 U
4-Nitroaniline		2900 U	3000 U	1600 U	30000 U	1500 U	1500 U	2900 U	3100 U	6800 U	1600 U	3400 U	1600 U
4-Nitrophenol		7000 U	73000 U	3800 U	74000 U	3600 U	3700 U	7100 U	7500 U	17000 U	3800 U	8300 U	3800 U
Acenaphthene		1900	1500 U	200 J	15000 U	70 J	770 U	1200 J	2000	2500 J	780 U	630 J	260 J
Acenaphthylene		1400 U	15000 U	260 J	15000 U	340 J	770 U	1500 U	1500 U	3400 U	780 U	330 J	780 U
Anthracene		1400 J	1900 J	310 J	1000	470 J	770 U	2100	3600	1200 J	790 J	940 J	210 J
Benzo(a)anthracene		1200 J	15000 U	150 J	110 J	650 J	770 U	1500 U	1500 U	170 J	6300 U	530 J	120 J
Benzo(a)pyrene		810 J	210 J	150 J	100 J	460 J	770 U	1500 U	1500 U	3400 U	53 J	670 J	78 J
Benzo(b)fluoranthene		1300 J	310 J	250 J	15000 U	750	770 U	1500 U	1500 U	3400 U	780 U	710 J	780 U
Benzo(g,h,i)perylene		660 J	15000 U	270 J	120 J	440 J	770 U	1500 U	1500 U	1700 U	6300 U	510 J	55 J
Benzo(k)fluoranthene		1200 J	15000 U	150 J	760 U	520 J	770 U	1500 U	1500 U	3400 U	6300 U	530 J	780 U
Benzyl alcohol		1400 U	15000 U	790 U	15000 U	740 U	770 U	1500 U	1500 U	3400 U	6300 U	1700 U	780 U
Bis(2-chloroethoxy)methane		1400 U	15000 U	790 U	15000 U	740 U	770 U	1500 U	1500 U	3400 U	6300 U	1700 U	780 U
Bis(2-chloroethyl)ether		1400 U	15000 U	790 U	15000 U	740 U	770 U	1500 U	1500 U	3400 U	780 U	1700 U	780 U
Bis(2-ethylhexyl)phthalate		850 J	1500 U	790 U	760 U	80 U	770 U	160 U	1500 U	1700 U	110 J	300 J	780 U

Table 7. Summary of Semivolatile Organic Compounds Detected in Soil, Pre-Design Study, OU-3, Sunnyside Yard, Queens, New York

Parameter (Concentrations in µg/kg)	Sample Designation:	PDB-1	PDB-1	PDB-2	PDB-2	PDB-3	PDB-3	PDB-4	PDB-4	PDB-5	PDB-5	PDB-6	PDB-6
	Sample Date:	04/16/04	04/16/04	04/16/04	04/16/04	04/16/04	04/16/04	04/16/04	04/16/04	04/16/04	04/16/04	04/16/04	04/16/04
	Sample Depth (ft bls):	0.5-2.5	2.5-4.5	3-5	5-7	2-4	4-6	3-5	5-7	0.5-2.5	2.5-4.5	0-2	2-4
Butyl benzylphthalate		1400 U	1500 U	790 U	15000 U	740 U	770 U	1500 U	1500 U	3400 U	780 U	1700 U	780 U
Carbazole		1400 U	1500 U	130 J	15000 U	81 J	770 U	1500 U	1500 U	3400 U	780 U	180 J	780 U
Chrysene		1300 J	500 J	270 J	15000 U	950	52 J	120 J	150 J	250 J	150 J	810 J	230 J
Di-n-butyl phthalate		61 UB	640 UB	34 UB	32 UB	120 JB	33 UB	62 UB	65 UB	73 UB	270 UB	73 UB	33 UB
Di-n-octyl phthalate		1400 U	15000 U	790 U	760 U	740 U	770 U	1500 U	1500 U	1700 U	6300 U	1700 U	780 U
Dibenzo(a h)anthracene		210 J	1500 U	86 J	760 U	150 J	770 U	1500 U	1500 U	1700 U	780 U	160 J	780 U
Dibenzofuran		1400 U	5600 J	790 U	760 U	160 J	770 U	1500 U	1500 U	1700 U	6300 U	570 J	780 U
Diethyl phthalate		1400 U	15000 U	790 U	760 U	740 U	770 U	1500 U	1500 U	1700 U	6300 U	1700 U	780 U
Dimethyl phthalate		1400 U	15000 U	790 U	15000 U	740 U	770 U	1500 U	1500 U	3400 U	780 U	1700 U	780 U
Fluoranthene		3700	950 J	280 J	15000 U	1300	770 U	150 J	1500 U	510 J	780 U	1500 J	450 J
Fluorene		2100	5500	350 J	3100	140 J	300 J	1500 U	2600	5400	4300 J	1200 J	590 J
Hexachlorobenzene		1400 U	1500 U	790 U	15000 U	740 U	770 U	1500 U	1500 U	3400 U	780 U	1700 U	780 U
Hexachlorobutadiene		1400 U	15000 U	790 U	15000 U	740 U	770 U	1500 U	1500 U	3400 U	6300 U	1700 U	780 U
Hexachlorocyclopentadiene		1400 U	1500 U	790 U	15000 U	740 U	770 U	1500 U	1500 U	3400 U	780 U	1700 U	780 U
Hexachloroethane		1400 U	15000 U	790 U	15000 U	740 U	770 U	1500 U	1500 U	3400 U	6300 U	1700 U	780 U
Indeno(1,2,3-cd)pyrene		600 J	15000 U	230 J	110 J	380 J	770 U	1500 U	1500 U	1700 U	6300 U	430 J	780 U
Isophorone		1400 U	15000 U	790 U	15000 U	740 U	770 U	1500 U	1500 U	3400 U	780 U	1700 U	780 U
n-Nitroso-di-n-propylamine		1400 U	1500 U	790 U	760 U	740 U	770 U	1500 U	1500 U	1700 U	6300 U	1700 U	780 U
n-Nitrosodiphenylamine		1400 U	11000	790 U	15000 U	740 U	1500	1500 U	1500 U	3400 U	780 U	1700 U	780 U
Naphthalene		1400 U	15000 U	320 J	760 U	110 J	770 U	1500 U	1500 U	2200	6300 U	210 J	780 U
Nitrobenzene		1400 U	1500 U	790 U	760 U	740 U	770 U	1500 U	1500 U	1700 U	6300 U	1700 U	780 U
Pentachlorophenol		7000 U	73000 U	3800 U	3700 U	3600 U	3700 U	7100 U	7500 U	8300 U	30000 U	8300 U	3800 U
Phenanthrene		3500	17000	670 J	12000 J	650 J	310 J	1500 U	1500 U	9200	10000	3000	1100
Phenol		1400 U	1500 U	790 U	760 U	740 U	770 U	1500 U	1500 U	1700 U	780 U	1700 U	780 U
Pyrene		10000	2400 J	350 J	1100	1200	190 J	690 J	740 J	1200 J	1100 J	1700	620 J
Total cPAHs:		6620	1020	1286	320	3860	52	120	150	420	203	3840	428
Total PAHs:		33980	122770	5076	84640	8800	852	5760	11390	45630	47393	14860	9113
Total SVOCs:		47000	139370	5206	84640	9161	2352	5760	11390	45630	47503	15910	9113

Notes:
B - Analyte detected in laboratory blank
J - Estimated value
U - Not detected, detection limit is shown
ft bls - Feet below land surface
µg/kg - Micrograms per kilogram

Table 8. Summary of Diesel Range Organics Detected in Soil, Pre-Design Study, OU-3, Sunnyside Yard, Queens, New York

Parameter (Concentrations in mg/kg)	**Sample Designation:**	PDB-1	PDB-1	PDB-2	PDB-2	PDB-3	PDB-3	PDB-4	PDB-4	PDB-5	PDB-5
	Sample Date:	04/16/04	04/16/04	04/16/04	04/16/04	04/16/04	04/16/04	04/16/04	04/16/04	04/16/04	04/16/04
	Sample Depth (ft bls):	0.5-2.5	2.5-4.5	3-5	5-7	2-4	4-6	3-5	5-7	0.5-2.5	2.5-4.5
Diesel Range Organics		14000	10000	2400	7500	190	6900	8800	9600	7100	5900

— OUTSIDE SYH

Notes:
ft bls - Feet below land surface
mg/kg - Milligrams per kilogram
DRO - Diesel Range Organics

Table 8. Summary of Diesel Range Organics Detected in Soil, Pre-Design Study, OU-3, Sunnyside Yard, Queens, New York

Parameter (Concentrations in mg/kg)	**Sample Designation:**	PDB-6	PDB-6
	Sample Date:	04/16/04	04/16/04
	Sample Depth (ft bls):	0-2	2-4
Diesel Range Organics		5400	7100

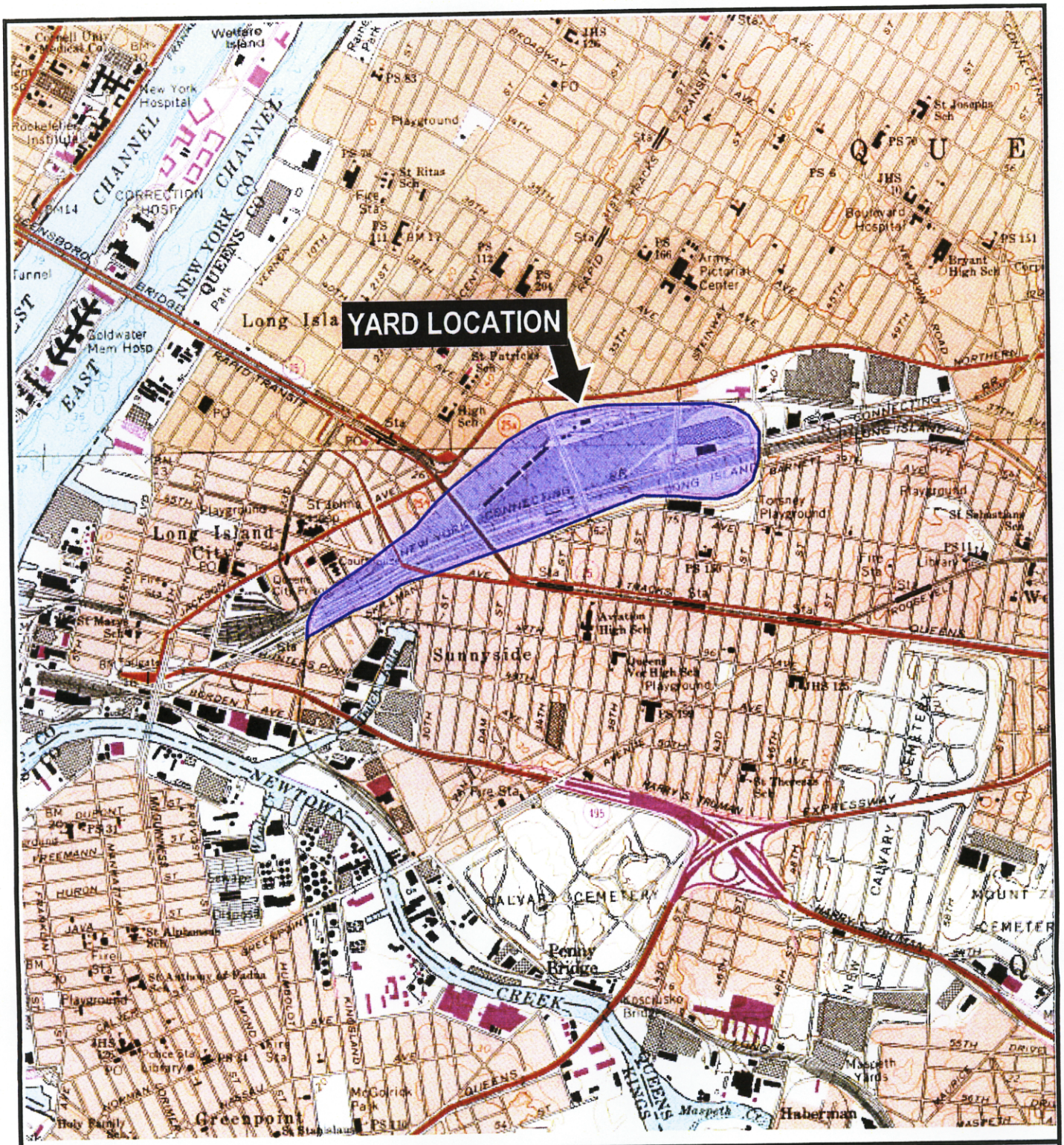
Notes:
ft bls - Feet below land surface
mg/kg - Milligrams per kilogram
DRO - Diesel Range Organics

Table 9. Average Low Water Levels for Monitoring Wells in the Vicinity of the Proposed Phase IV IRM Excavation Area
Sunnyside Yard, Queens, New York

	Monitoring Well			
	MW-16	**MW-50**	**MW-52**	**RW-1**
Lowest Water Level Elevation from 10/22/1999 Through 12/1999 (Ft MSL)	13.92	14.05	13.85	14.08
Lowest Water Level Elevation from 1/2000 Through 12/2000 (Ft MSL)	14.03	14.07	13.86	14.25
Lowest Water Level Elevation from 1/2001 Through 12/2001 (Ft MSL)	14.37	14.31	14.25	14.46
Lowest Water Level Elevation from 1/2002 Through 12/2002 (Ft MSL)	14.05	13.53	13.72	14.64
Lowest Water Level Elevation from 1/2003 Through 12/2003 (Ft MSL)	13.63	13.94	14.29	15.33
Lowest Water Level Elevation from 1/2004 Through 6/3/2004 (Ft MSL)	13.23	13.94	14.8	15.62
Average Annual Low Water Level Elevation from 10/22/1999 through 6/3/2004 (Ft MSL)	13.87	13.97	14.13	14.73
Ground Elevation at Monitoring Well (Ft MSL)	17.2	17.37	16.51	16.66
Average Depth to Low Water from 10/22/1999 through 6/3/2004 (Ft BLS)	3.33	3.40	2.38	1.93
Average Depth to Low Water in Proposed IRM Excavation Area Based on Monitoring Wells MW-16, MW-50, MW-52 and RW-1	**2.76**			

Notes:

1. If SPH was present in monitoring wells during monitoring, the following formula was used to calculate corrected water levels:
   *Corrected Water Elevation = Water Elevation + (Product Thickness * Product Density)*
2. Product Density used to calculate corrected water level = .874
3. SPH - Separate-Phase Hydrocarbon
4. Ft MSL = Feet Relative to Mean Sea Level
5. Ft BLS = Feet Below Land Surface



SOURCE:
CENTRAL PARK AND BROOKLYN, NEW YORK
QUADRANGLE 7.5 MINUTE SERIES (TOPOGRAPHIC)



QUADRANGLE LOCATION

N

0 2000'

Title:

LOCATION OF SITE

SUNNYSIDE YARD
QUEENS, NEW YORK

Prepared for:

AMTRAK

ROUX ASSOCIATES, INC.
Environmental Consulting & Management

Compiled by: H.G.	Date: 27MAR01	FIGURE
Prepared by: R.K.	Scale: 1"=2000'	1
Project Mgr.: H.G.	Office: NY	
File No.: AM4517511.CDR	Project No.: 05545Y09	

N:\PROJECTS\AM055YA\M45Y\175\AM4517511.CDR

APPENDIX A

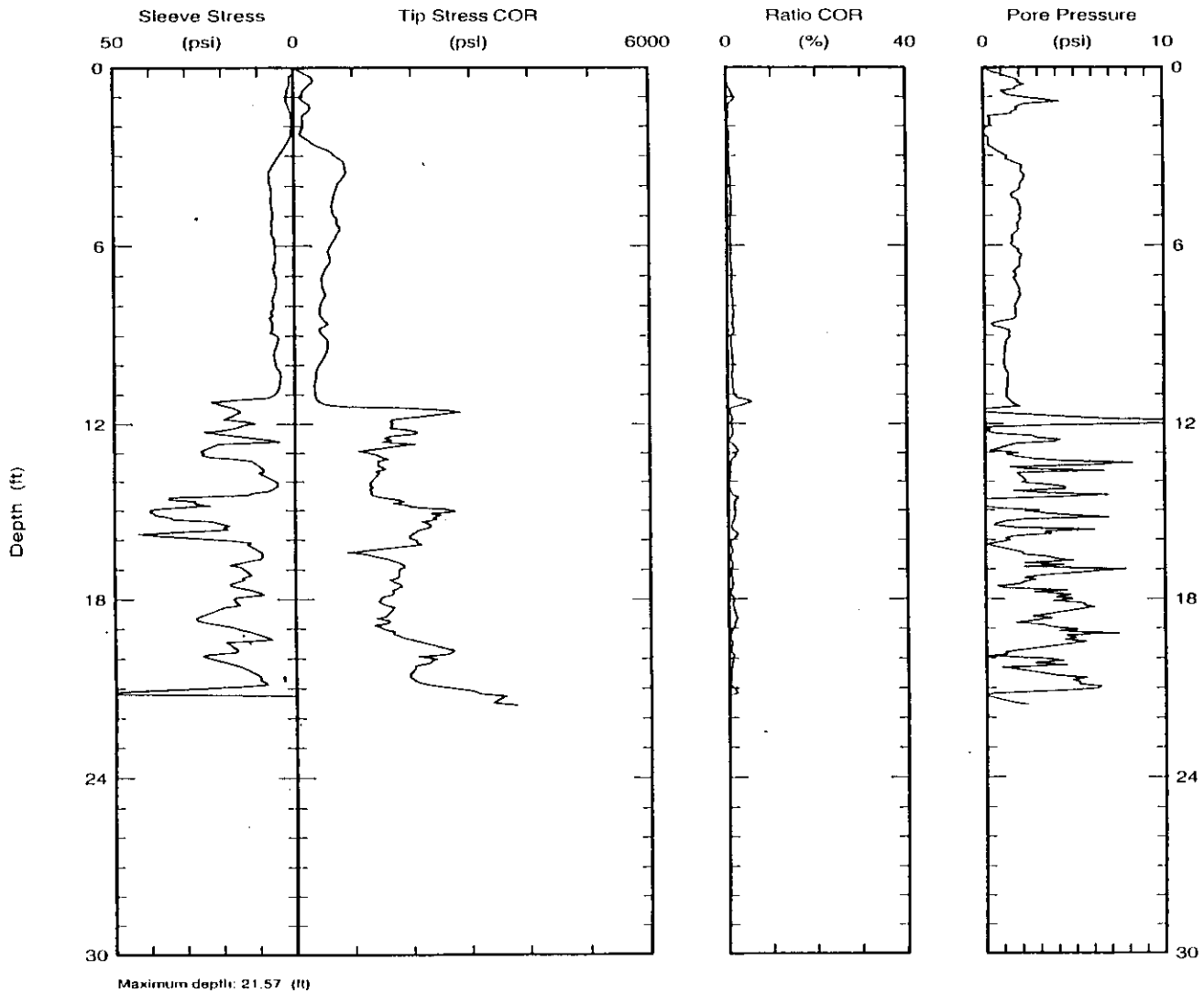
CPT/UVIF Data

Applied Research Associates
South Royalton, VT.05068
802-763-8348
Email: cpt@ned.ara.com
http://www.ara.com

Northing:
Easting:
Elevation:

Date: 05/Nov/2003
Test ID: HD-01
Project: RROUX

Client: ROUX
Site: SUNNYSIDE



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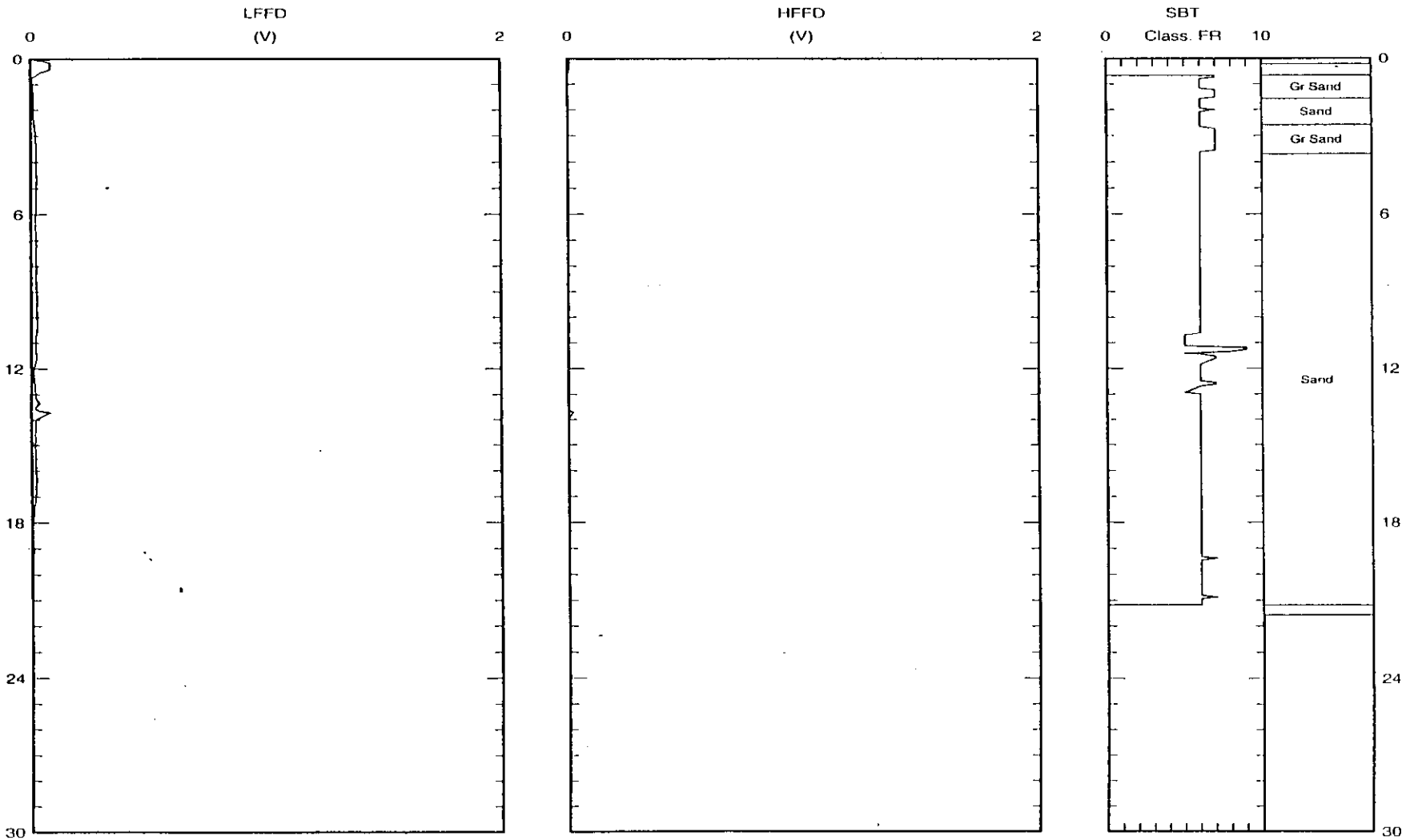
Email: cpt@ned.ara.com
http://www.ara.com

Northing:
Easting:
Elevation:

Date: 05/Nov/2003
Test ID: HD-01
Project: RROUX

Client: ROUX
Site: SUNNYSIDE



Maximum depth: 21.57 (ft)

Class FR: Friction Ratio Classification (Ref: Robertson 1990)

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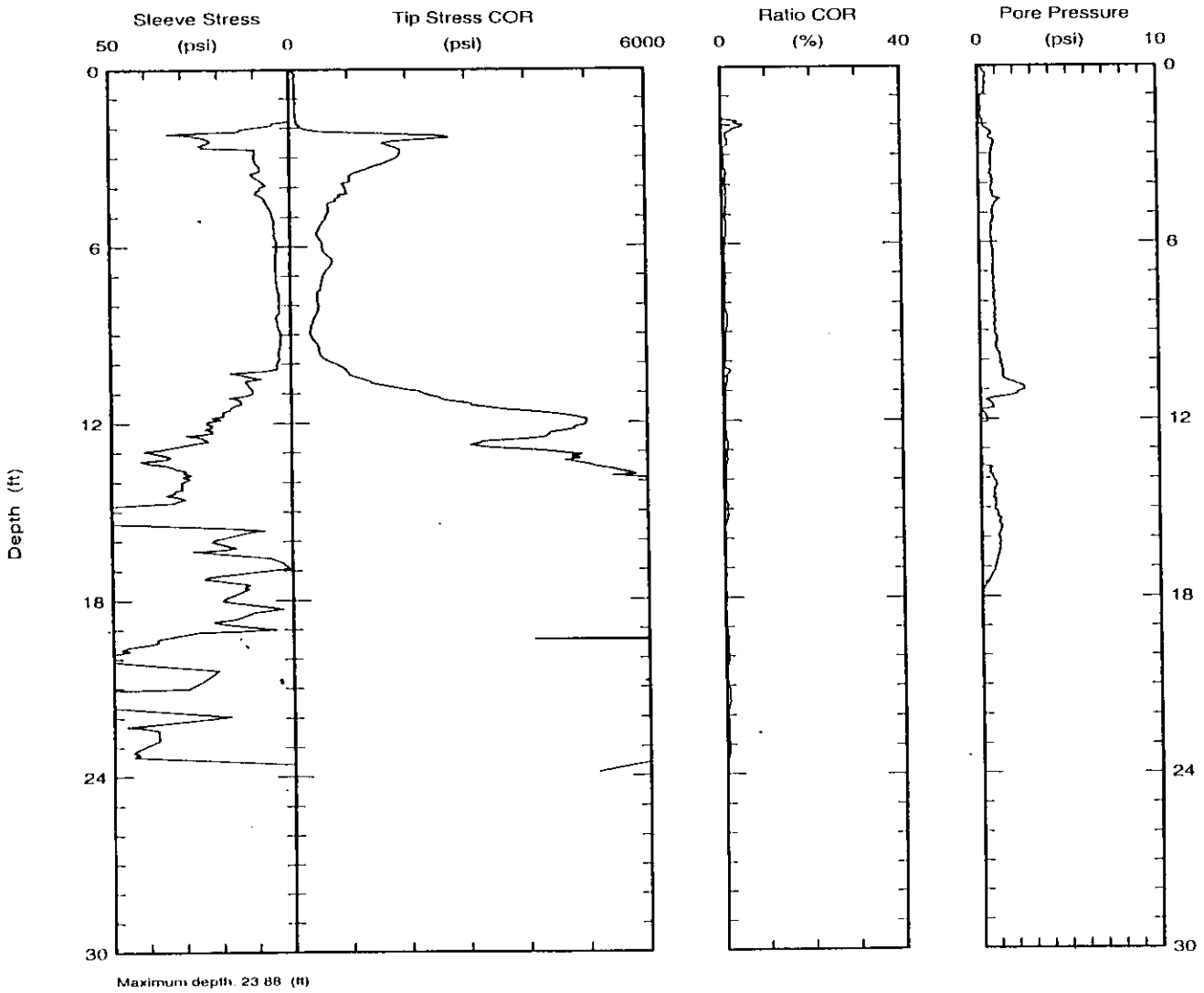
802-763-8348
Email: cpt@ned.ara.com
http://www.ara.com

Northing:
Easting:
Elevation:

Date: 04/Nov/2003
Test ID: HD-02
Project: RROUX

Client: ROUX
Site: SUNNYSIDE



Applied Research Associates
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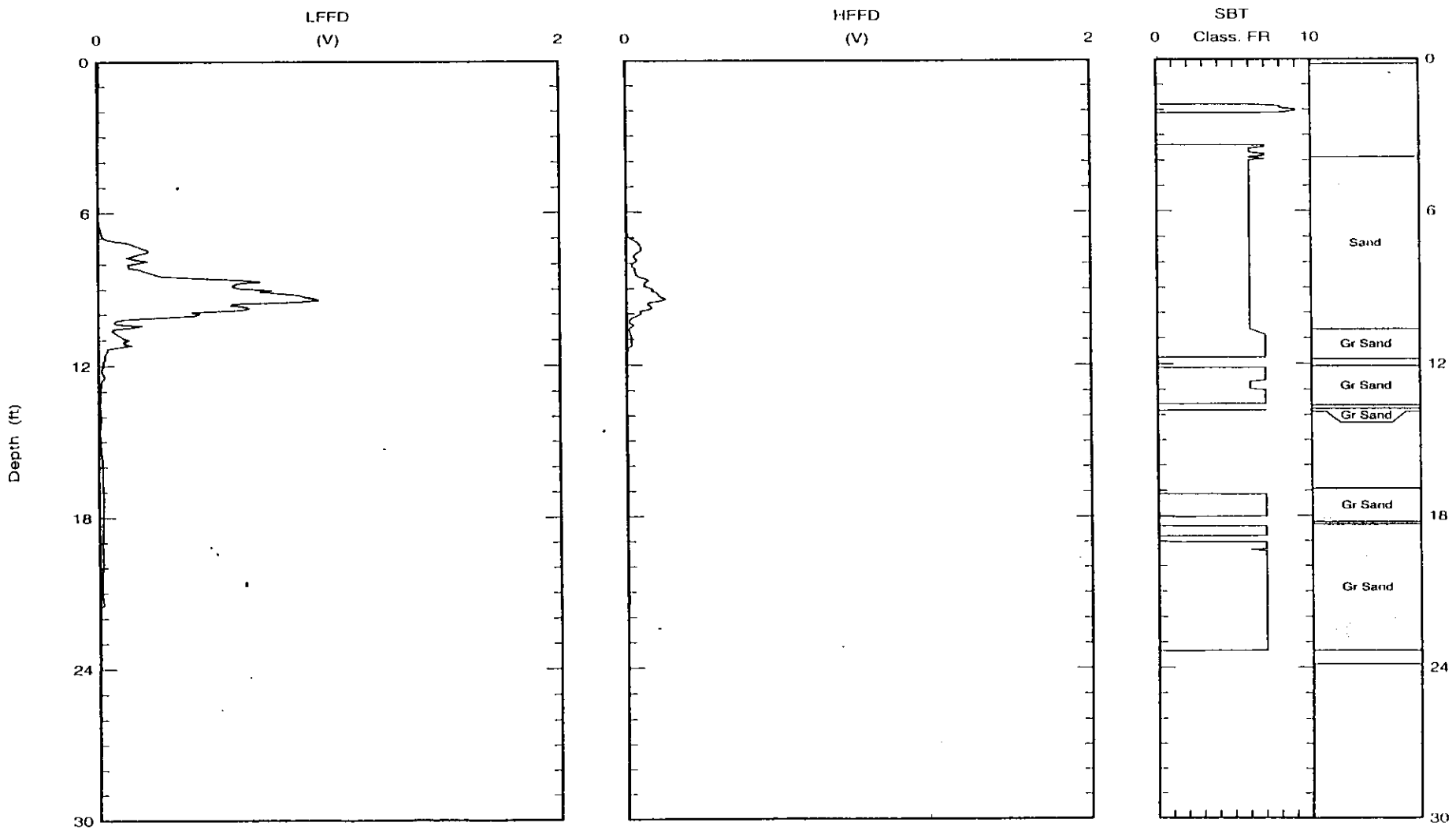
802-763-8348
Email: cpt@ned.ara.com
http://www.ara.com

Northing:
Easting:
Elevation:

Date: 04/Nov/2003
Test ID: HD-02
Project: RROUX

Client: ROUX
Site: SUNNYSIDE



Maximum depth: 23.88 (ft)

Class FR: Friction Ratio Classification (Ref: Robertson 1990)

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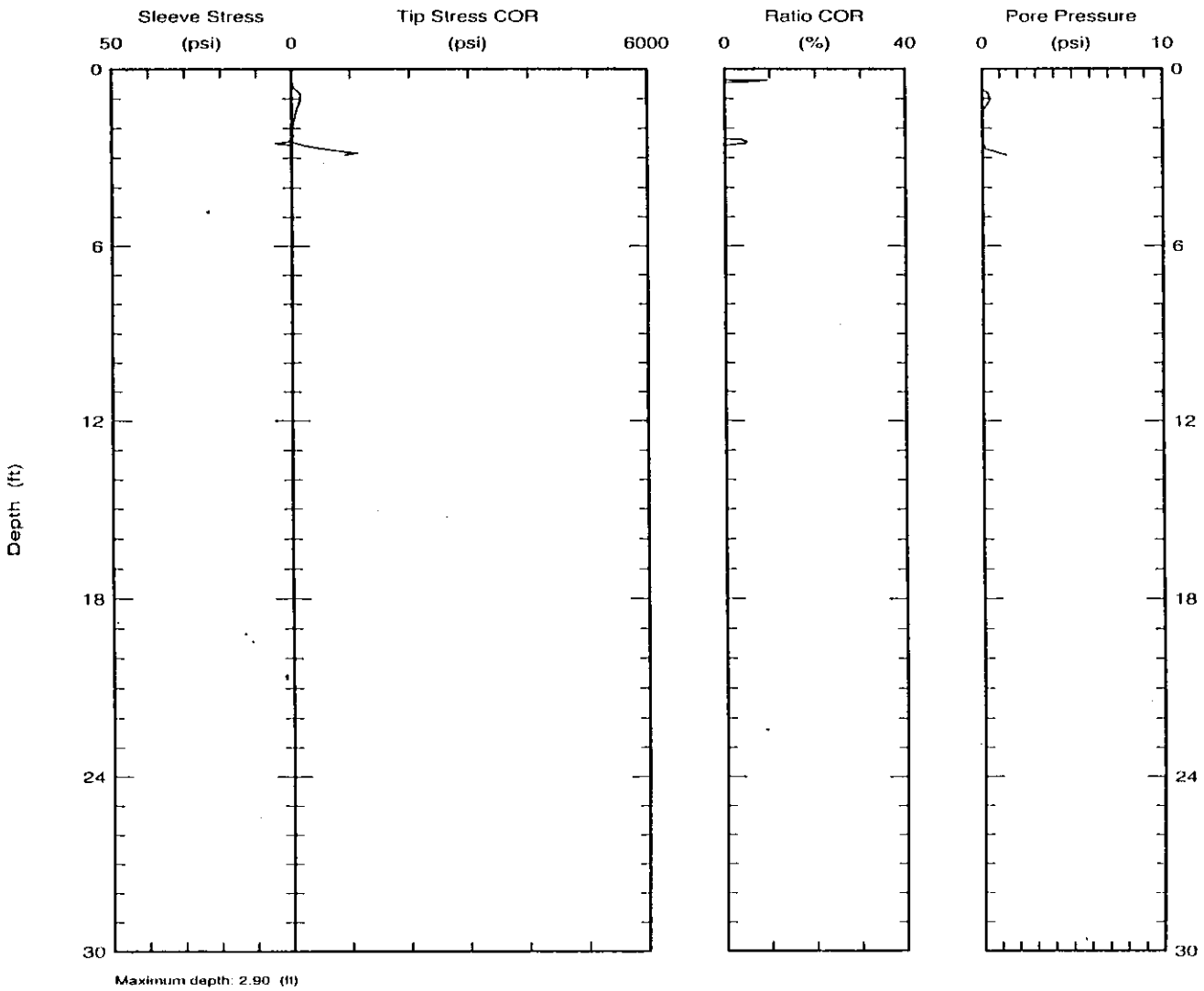
Email: cpt@ned.ara.com
http://www.ara.com

Northing:
Easting:
Elevation:

Date: 04/Nov/2003
Test ID: HD-03
Project: RROUX

Client: ROUX
Site: SUNNYSIDE



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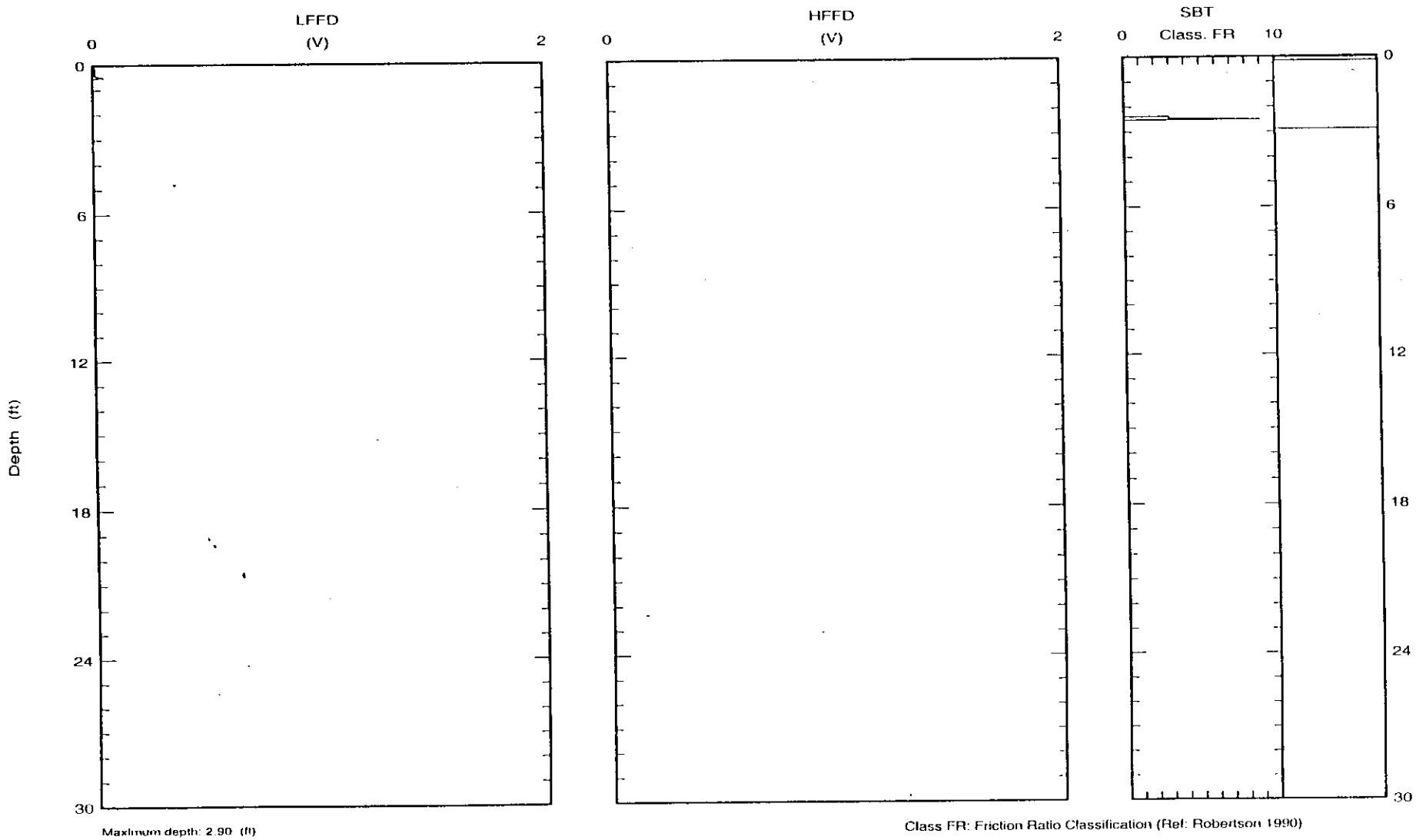
Email: cpt@ned.ara.com
http://www.ara.com

Northing:
Easting:
Elevation:

Date: 04/Nov/2003
Test ID: HD-03
Project: RROUX

Client: ROUX
Site: SUNNYSIDE



Maximum depth: 2.90 (ft)

Class FR: Friction Ratio Classification (Ref: Robertson 1990)

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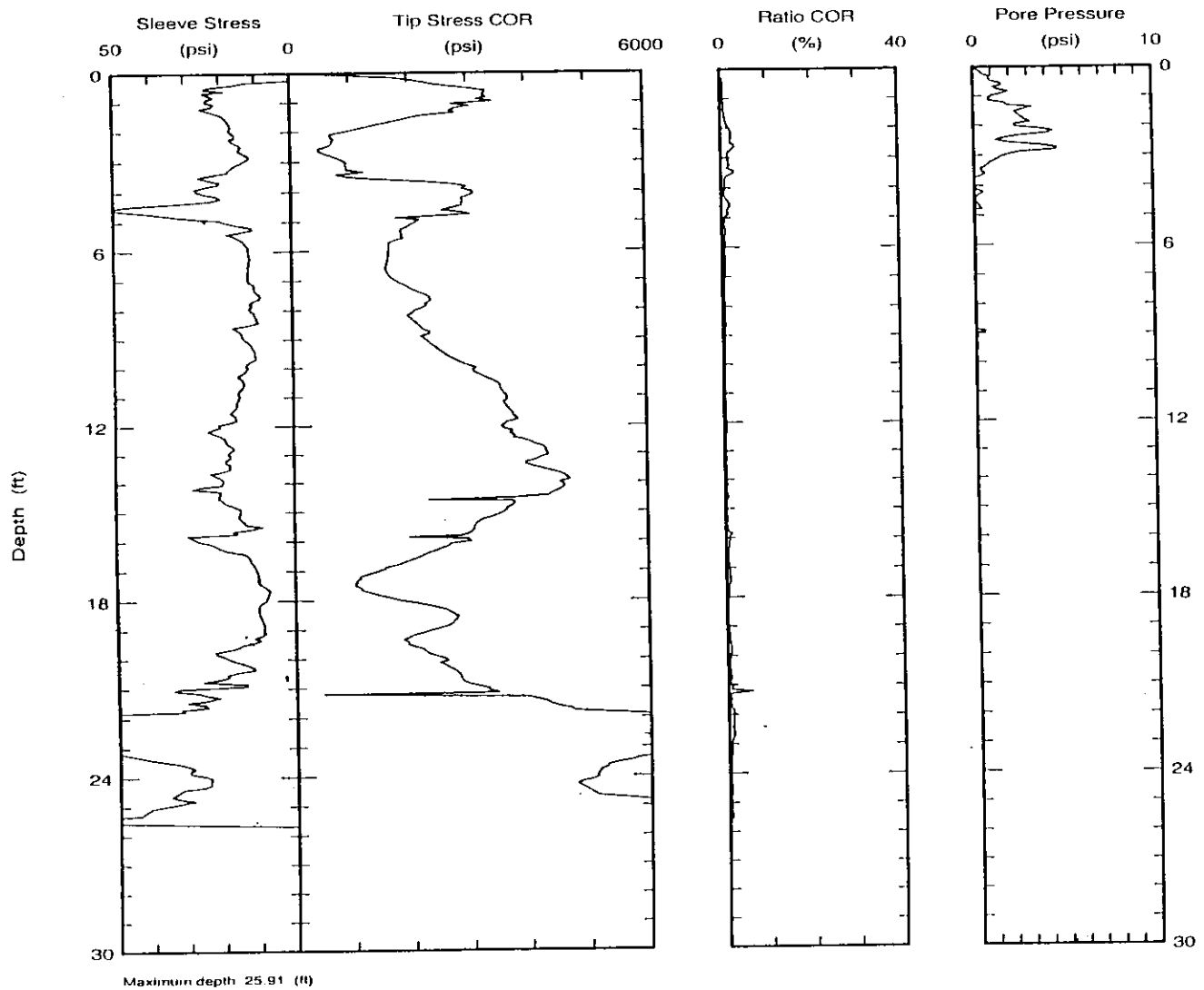
Northing:
Easting:
Elevation:

Date: 04/Nov/2003
Test ID: HD-03A
Project: RROUX

Client: ROUX
Site: SUNNYSIDE



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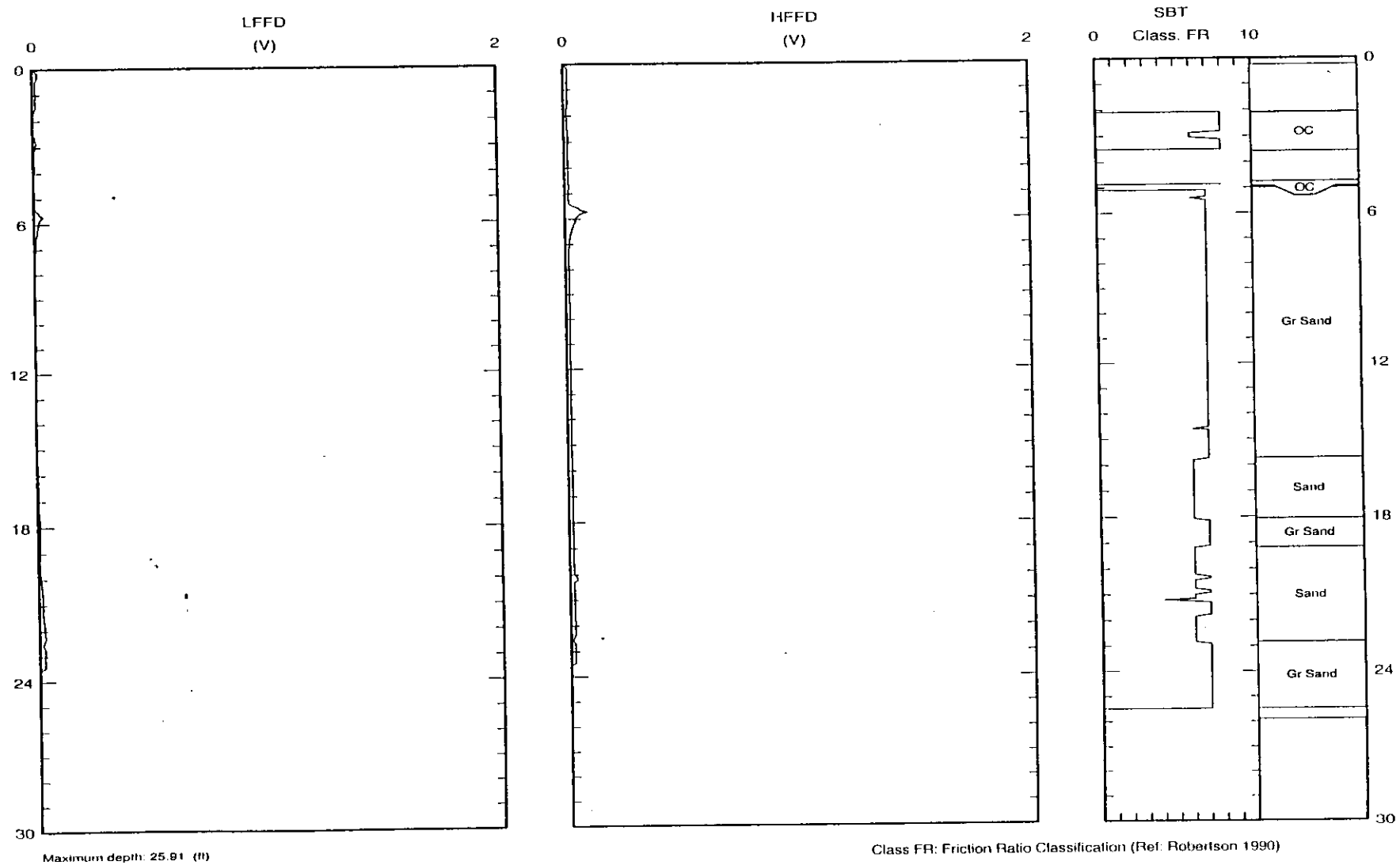
Email: cpt@ned.ara.com
http://www.ara.com

Northing:
Easting:
Elevation:

Date: 04/Nov/2003
Test ID: HD-03A
Project: RROUX

Client: ROUX
Site: SUNNYSIDE



Maximum depth: 25.91 (ft)

Class FR: Friction Ratio Classification (Ref: Robertson 1990)

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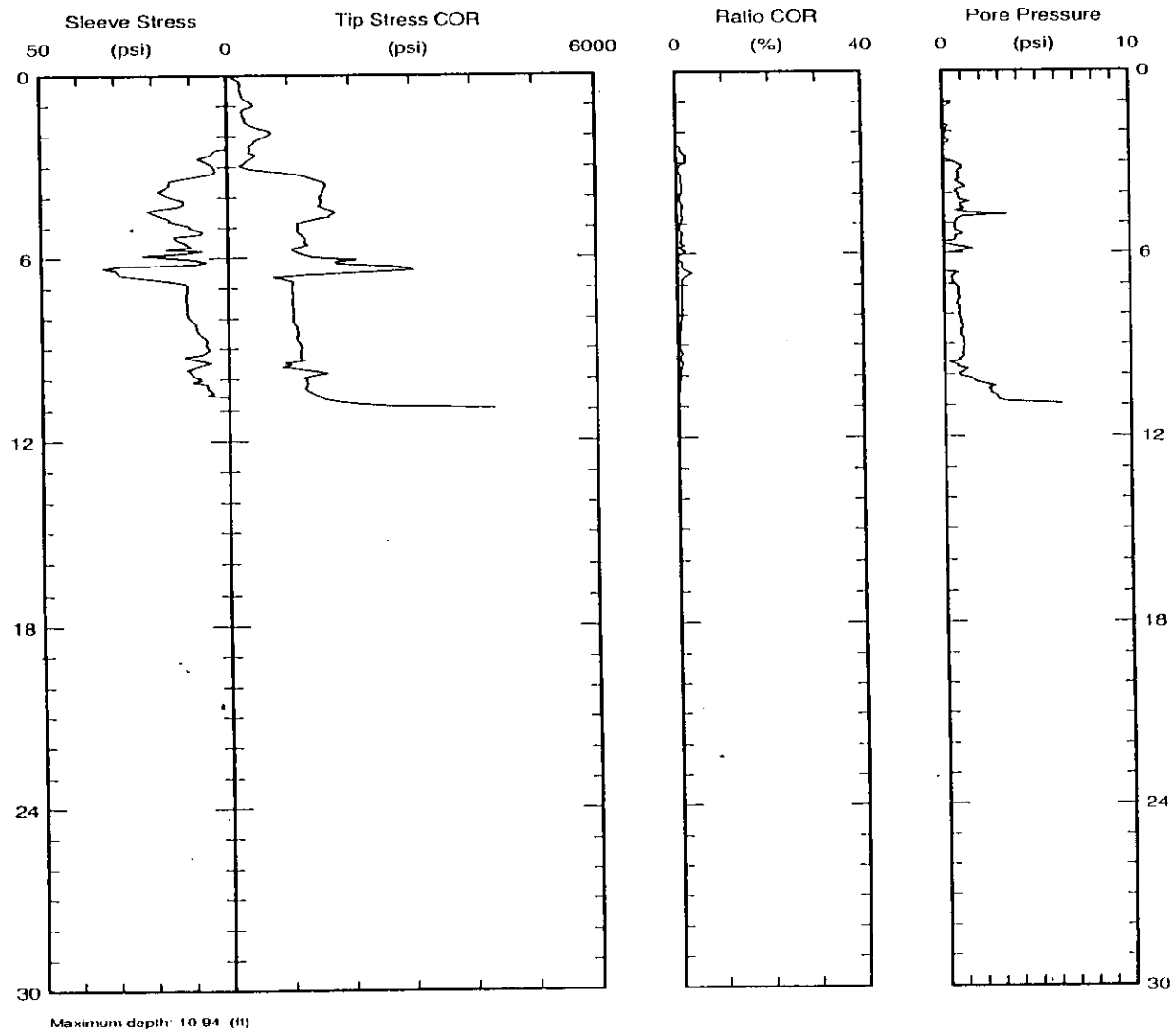
Email: cpt@ned.ara.com
http://www.ara.com

Northing:
Easting:
Elevation:

Date: 04/Nov/2003
Test ID: HD-04
Project: RROUX

Client: ROUX
Site: SUNNYSIDE



Maximum depth: 10.94 (ft)

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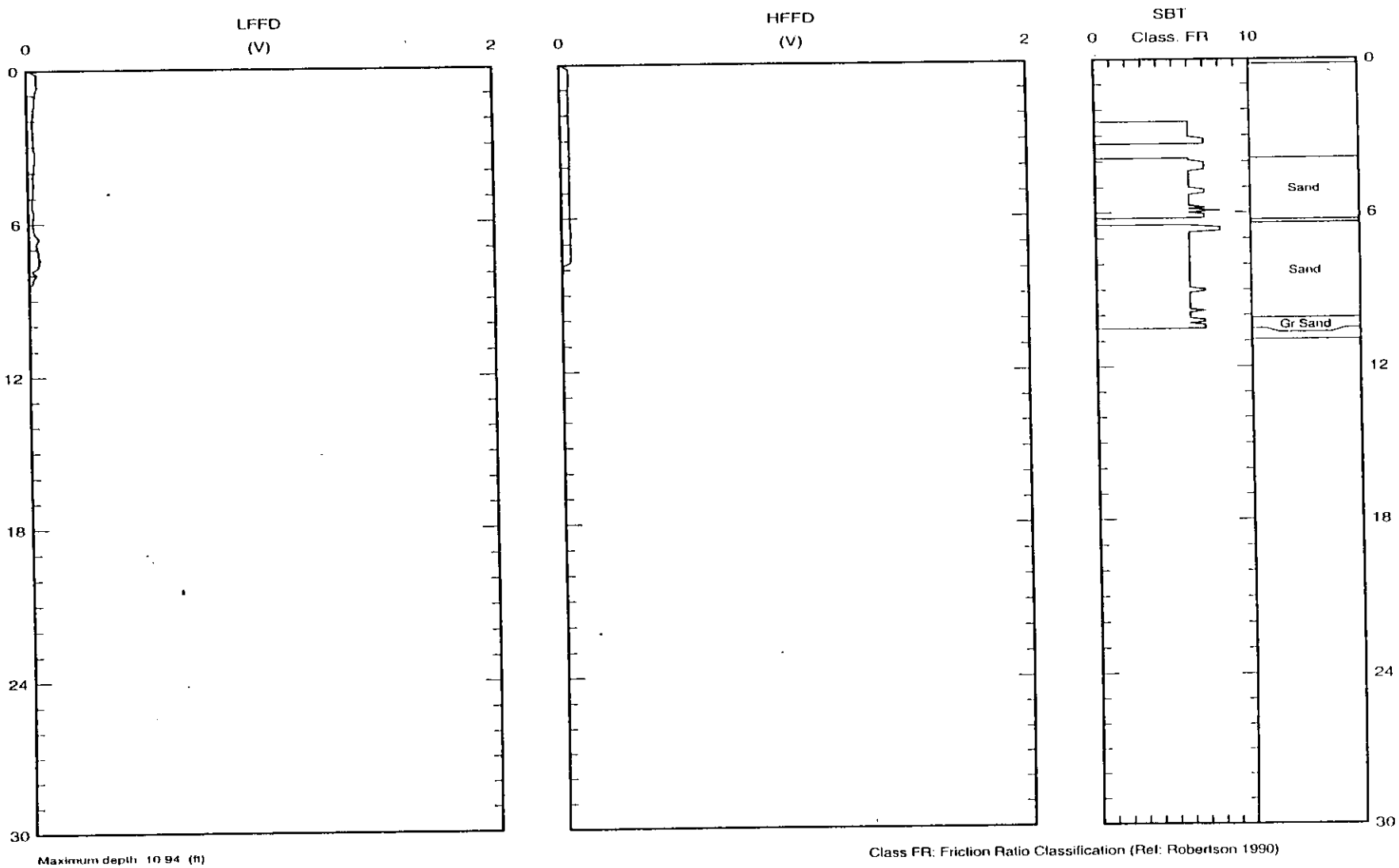
Email: cpt@ned.ara.com
http://www.ara.com

Northing:
Easting:
Elevation:

Date: 04/Nov/2003
Test ID: HD-04
Project: RROUX

Client: ROUX
Site: SUNNYSIDE



Maximum depth 10.94 (ft)

Class FR: Friction Ratio Classification (Ref: Robertson 1990)

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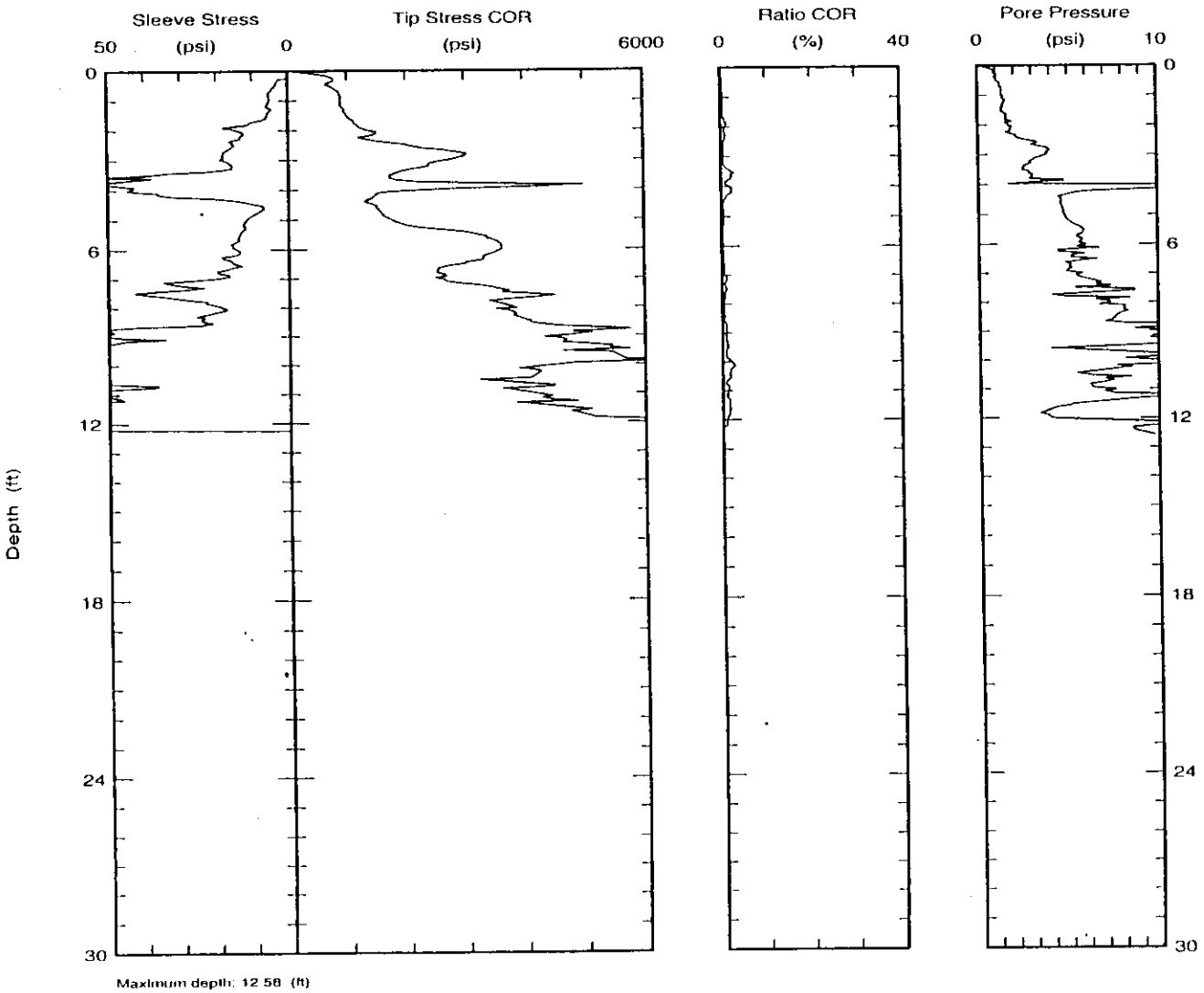
Email: cpt@ned.ara.com
http://www.ara.com

Northing:
Easting:
Elevation:

Date: 05/Nov/2003
Test ID: HD-05
Project: RROUX

Client: ROUX
Site: SUNNYSIDE



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Email: cpt@ned.ara.com
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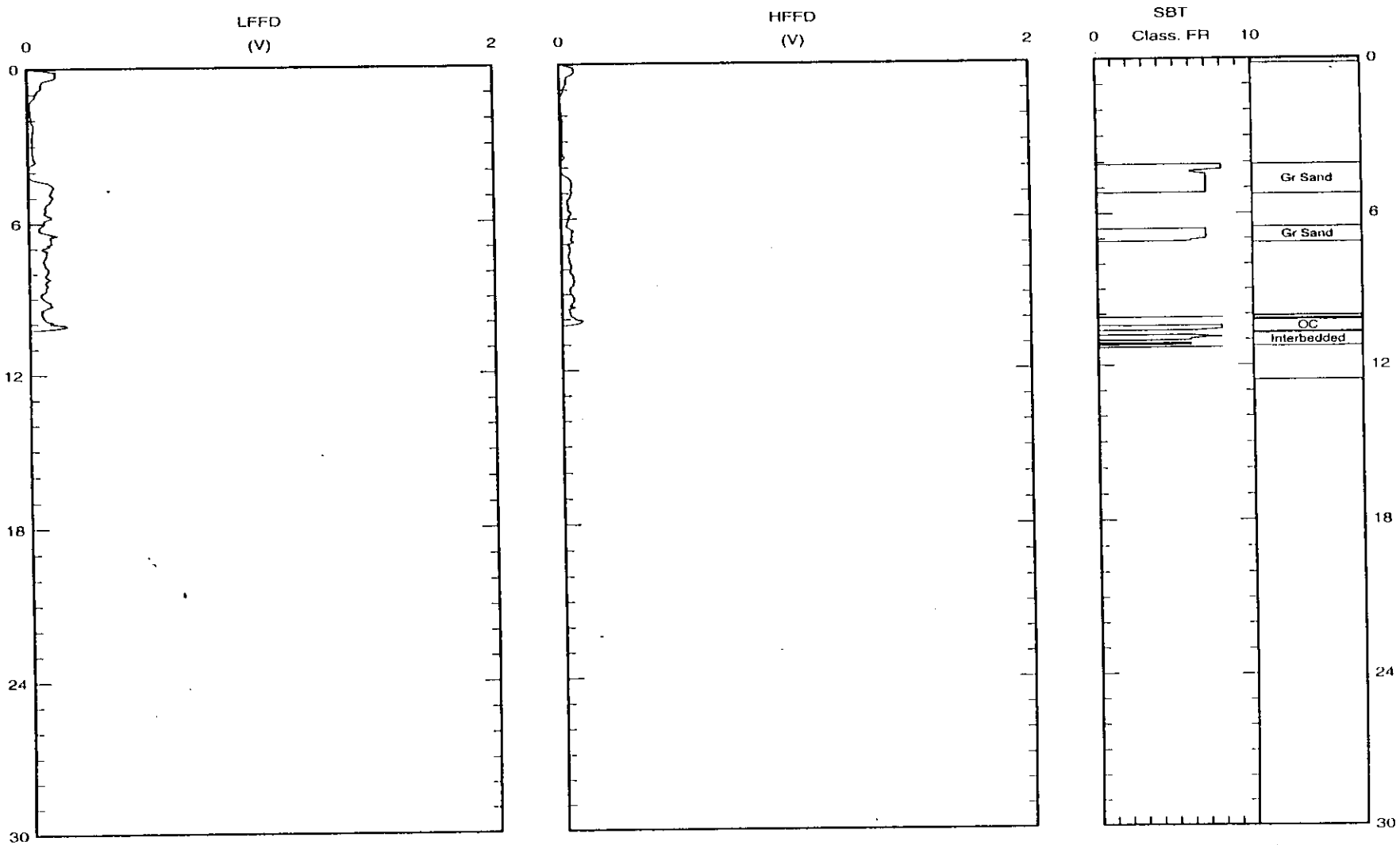
Northing:
Easting:
Elevation:

Date: 05/Nov/2003
Test ID: HD-05
Project: RROUX

Client: ROUX
Site: SUNNYSIDE



Maximum depth: 12.58 (ft)

Class FR: Friction Ratio Classification (Ref: Robertson 1990)

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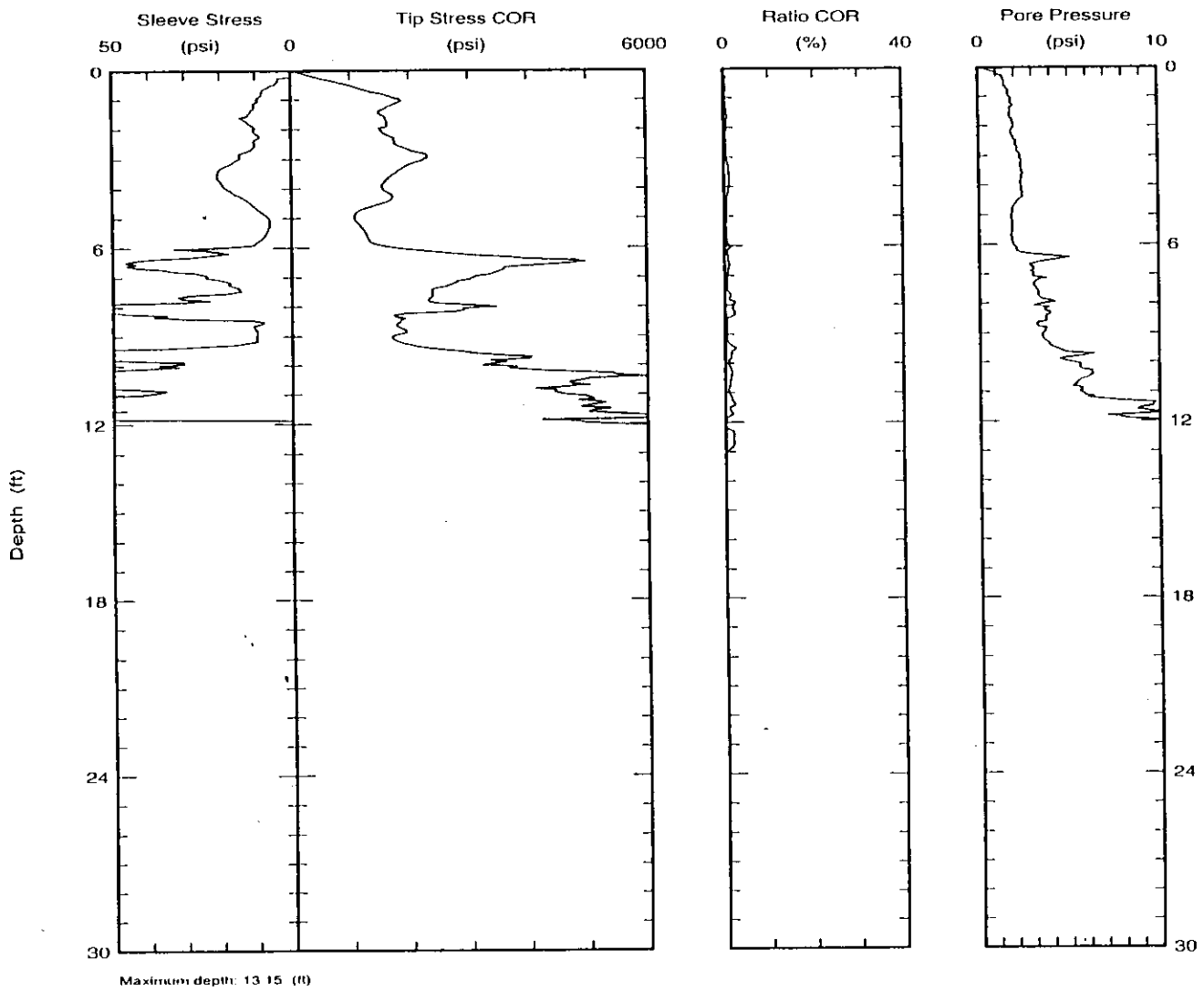
http://www.ara.com

Northing:
Easting:
Elevation:

Date: 05/Nov/2003
Test ID: FFD-05A
Project: RROUX

Client: ROUX
Site: SUNNYSIDE



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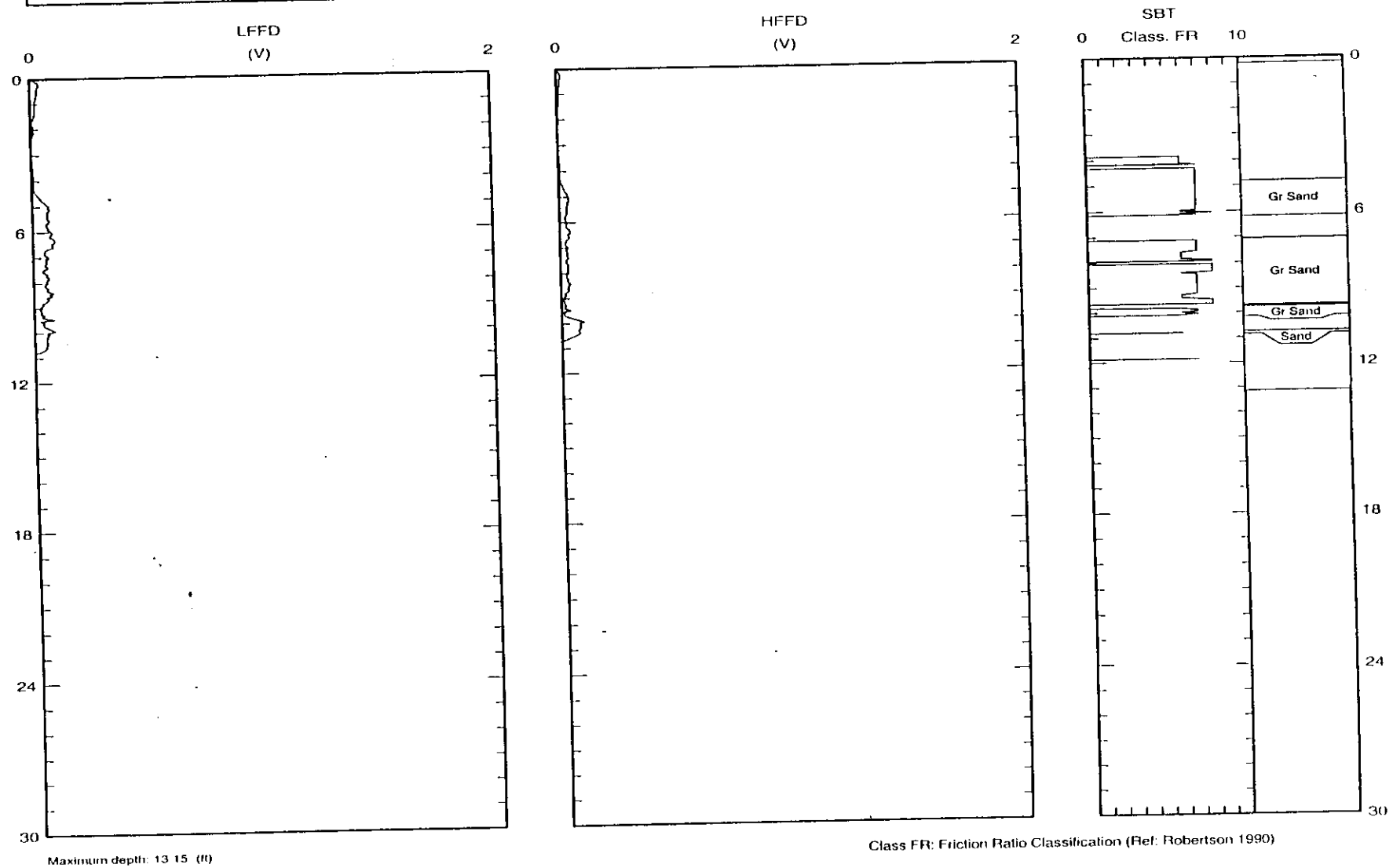
Email: cpt@ned.ara.com
http://www.ara.com

Northing:
Easting:
Elevation:

Date: 05/Nov/2003
Test ID: FFD-05A
Project: RROUX

Client: ROUX
Site: SUNNYSIDE



Maximum depth: 13.15 (ft)

Class FR: Friction Ratio Classification (Ref: Robertson 1990)

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Email: cpt@ned.ara.com
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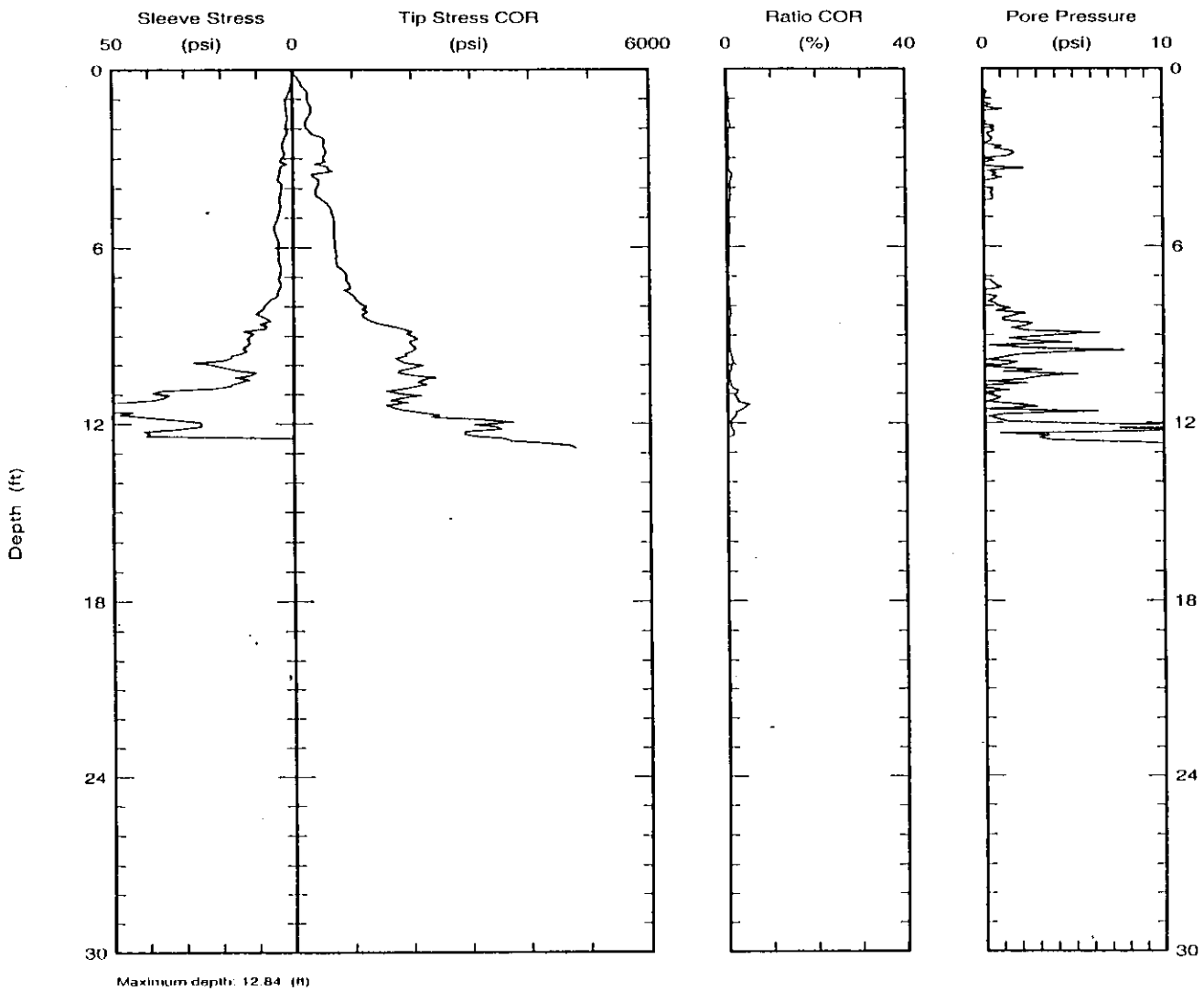
Northing:	Date: 05/Nov/2003
Easting:	Test ID: HD-05B
Elevation:	Project: RROUX
Client: ROUX	
Site: SUNNYSIDE	



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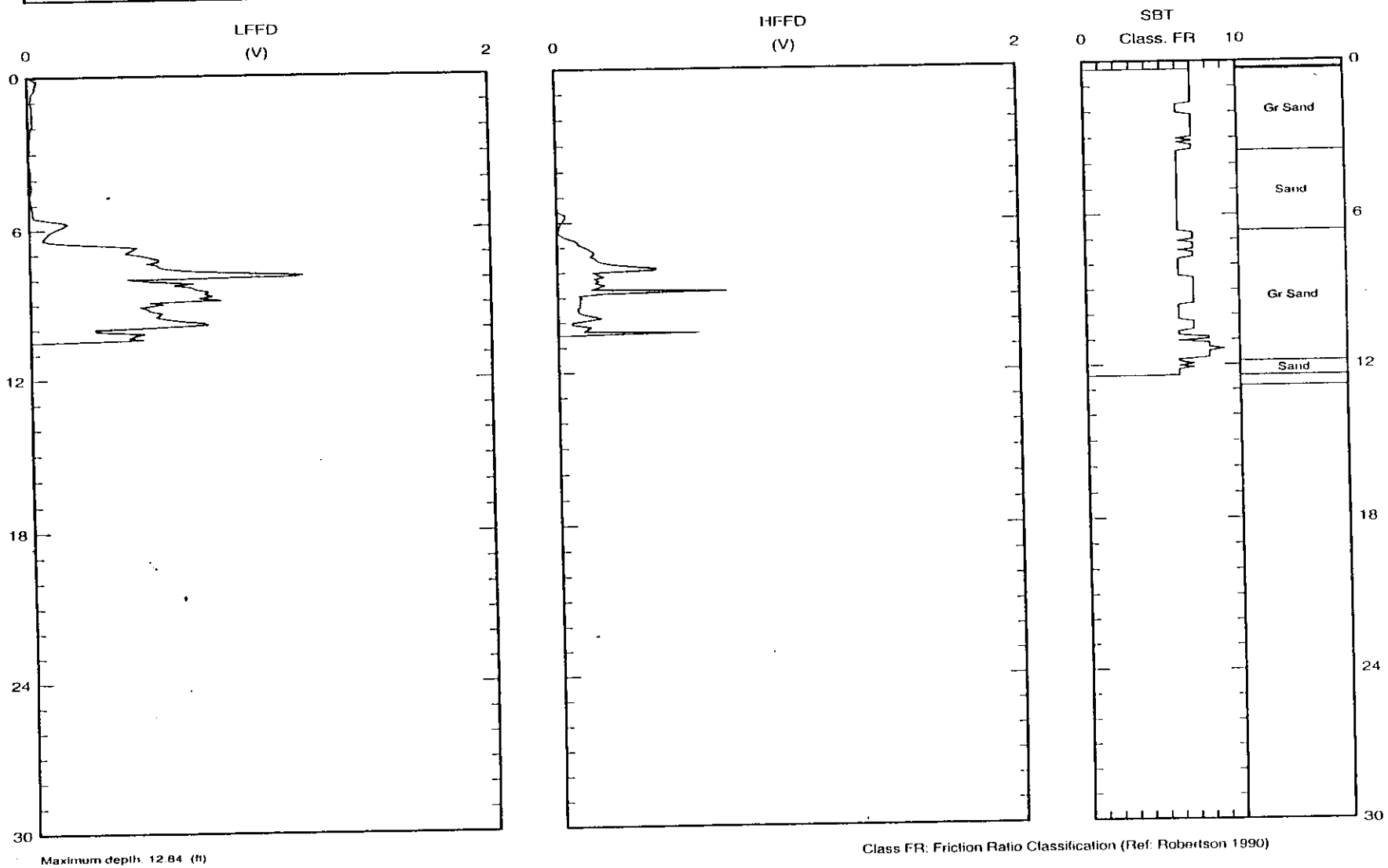
Email: cpt@ned.ara.com
http://www.ara.com

Northing:
Easting:
Elevation:

Date: 05/Nov/2003
Test ID: HD-05B
Project: RROUX

Client: ROUX
Site: SUNNYSIDE



Maximum depth: 12.84 (ft)

Class FR: Friction Ratio Classification (Ref: Robertson 1990)

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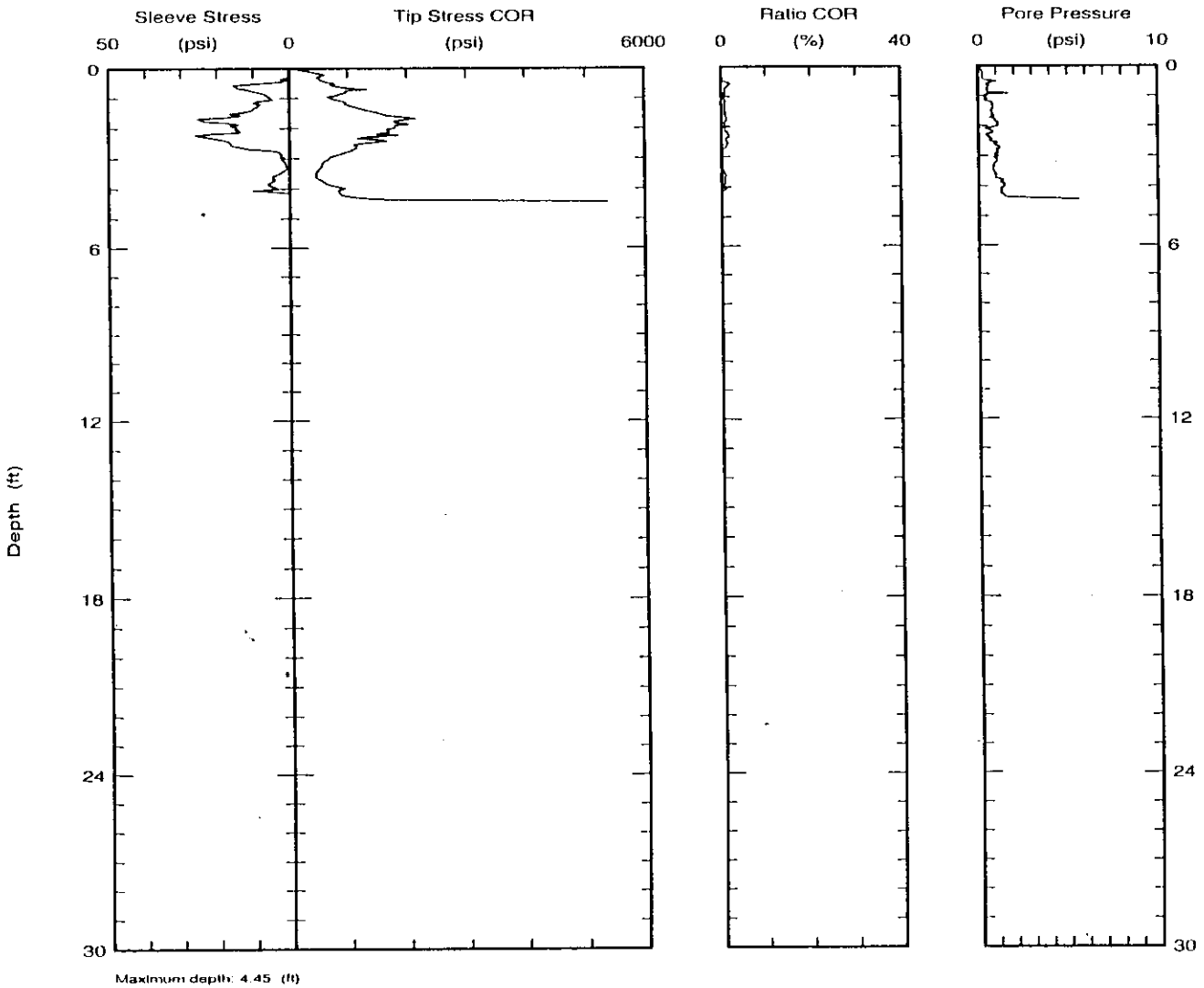
http://www.ara.com

Northing:
Easting:
Elevation:

Date: 04/Nov/2003
Test ID: FFD-06
Project: RROUX

Client: ROUX
Site: SUNNYSIDE



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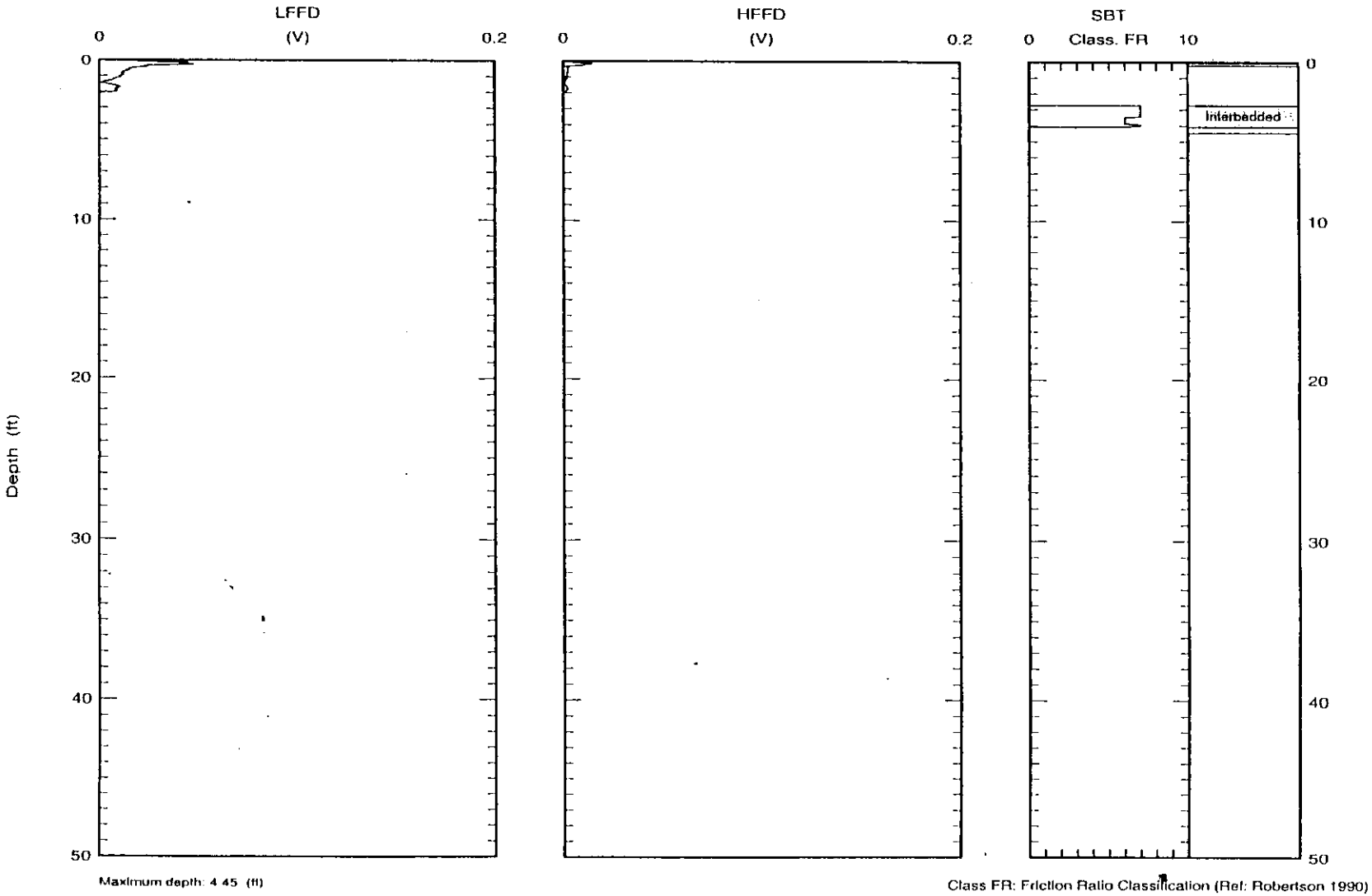
Email: cpt@ned.ara.com
http://www.ara.com

Northing:	Date: 04/Nov/2003
Easting:	Test ID: HD-06
Elevation:	Project: RROUX
Client: ROUX	
Site: SUNNYSIDE	



Maximum depth: 4.45 (ft)

Class FR: Friction Ratio Classification (Ref: Robertson 1990)

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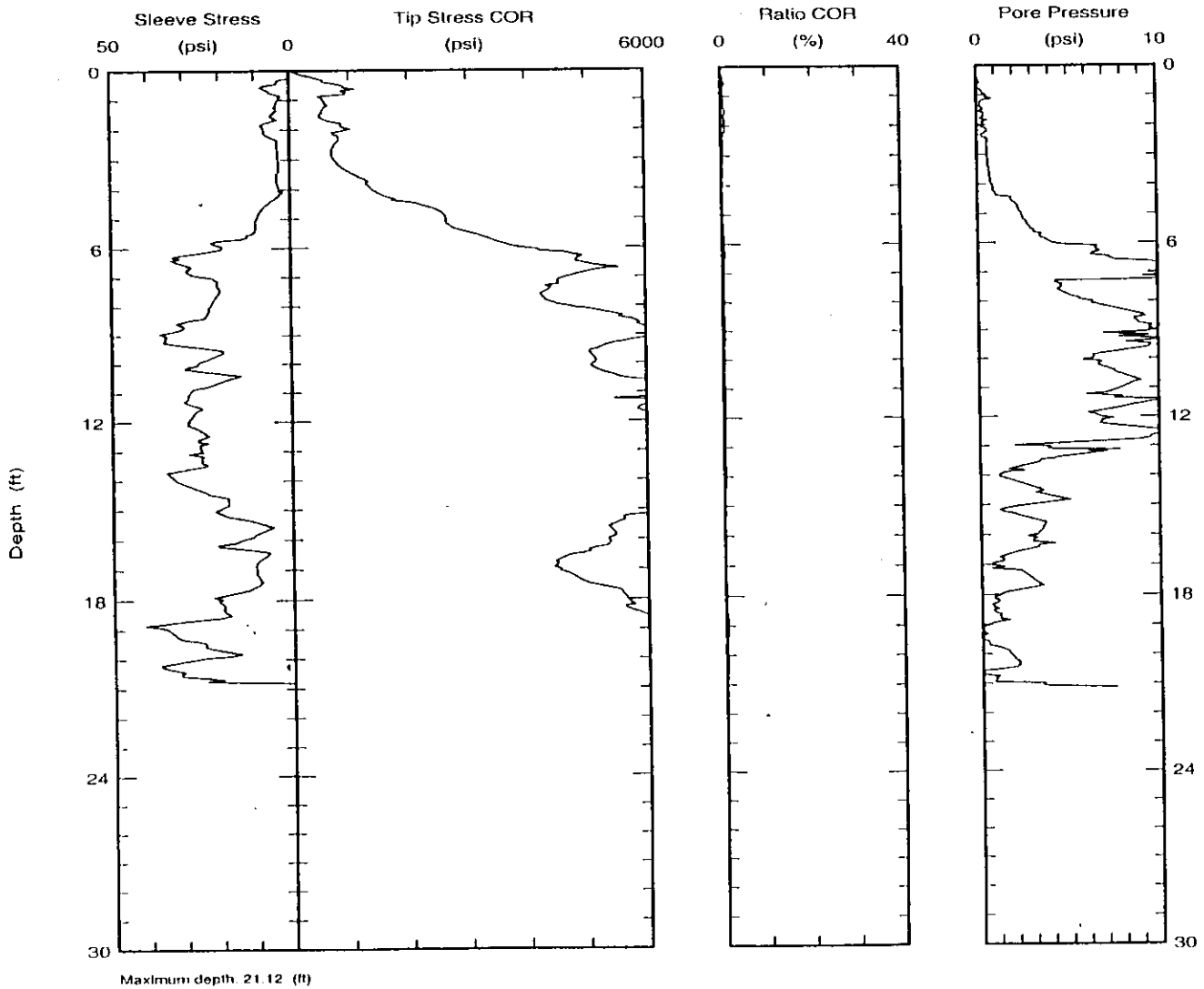
Email: cpt@ned.ara.com
http://www.ara.com

Northing:
Easting:
Elevation:

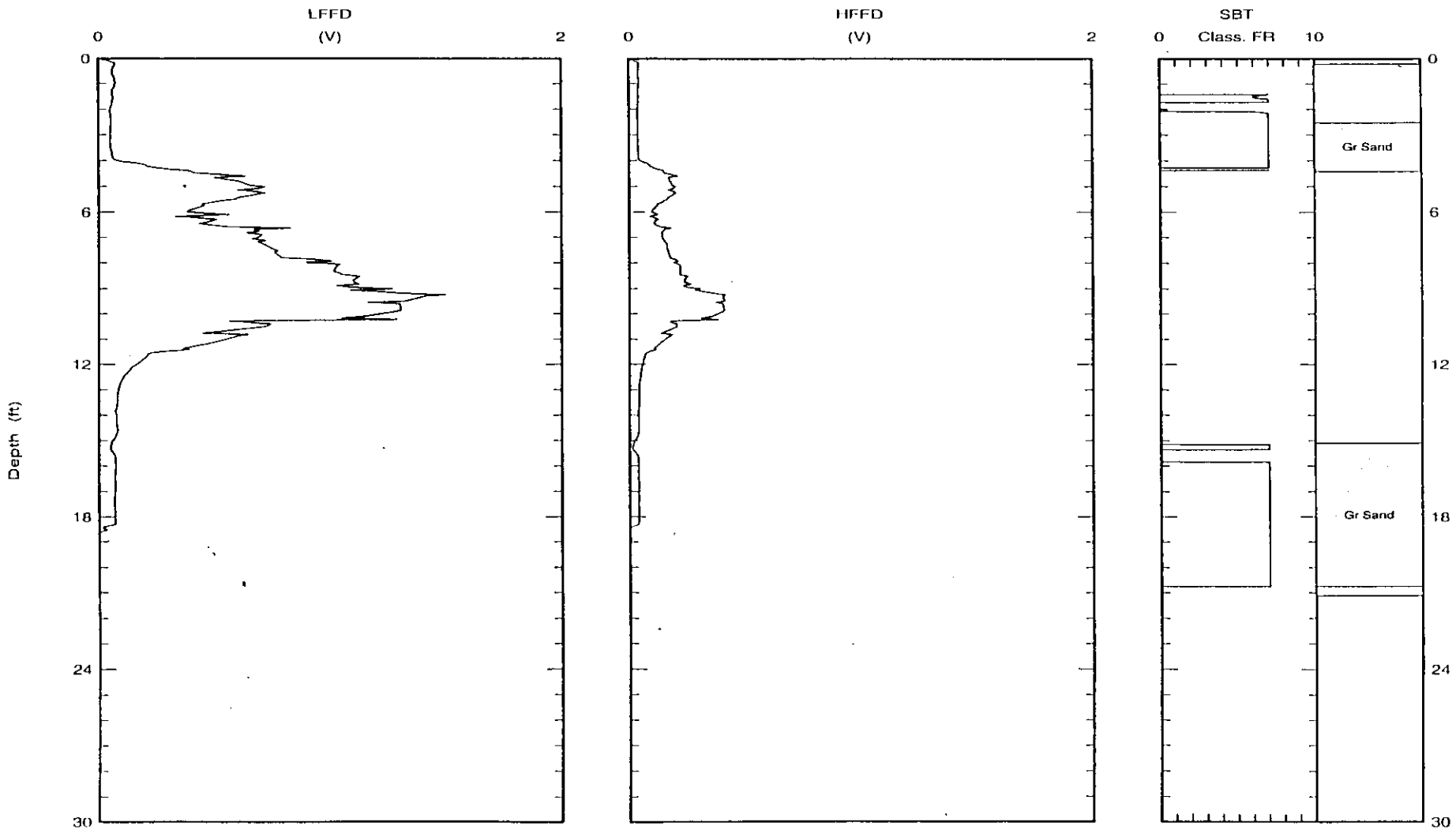
Date: 04/Nov/2003
Test ID: FFD-06A
Project: RROUX

Client: ROUX
Site: SUNNYSIDE



Test ID: FFD-06A
File: 304N0306C.ECP

Applied Research Associates South Royalton, VT 05068 802-763-8348 Email: cpt@ned.ara.com http://www.ara.com	Northing: Easting: Elevation:	Date: 04/Nov/2003 Test ID: FFD-06A Project: RROUX
	Client: ROUX Site: SUNNYSIDE	



Maximum depth: 21.12 (ft)

Class FR: Friction Ratio Classification (Ref: Robertson 1990)

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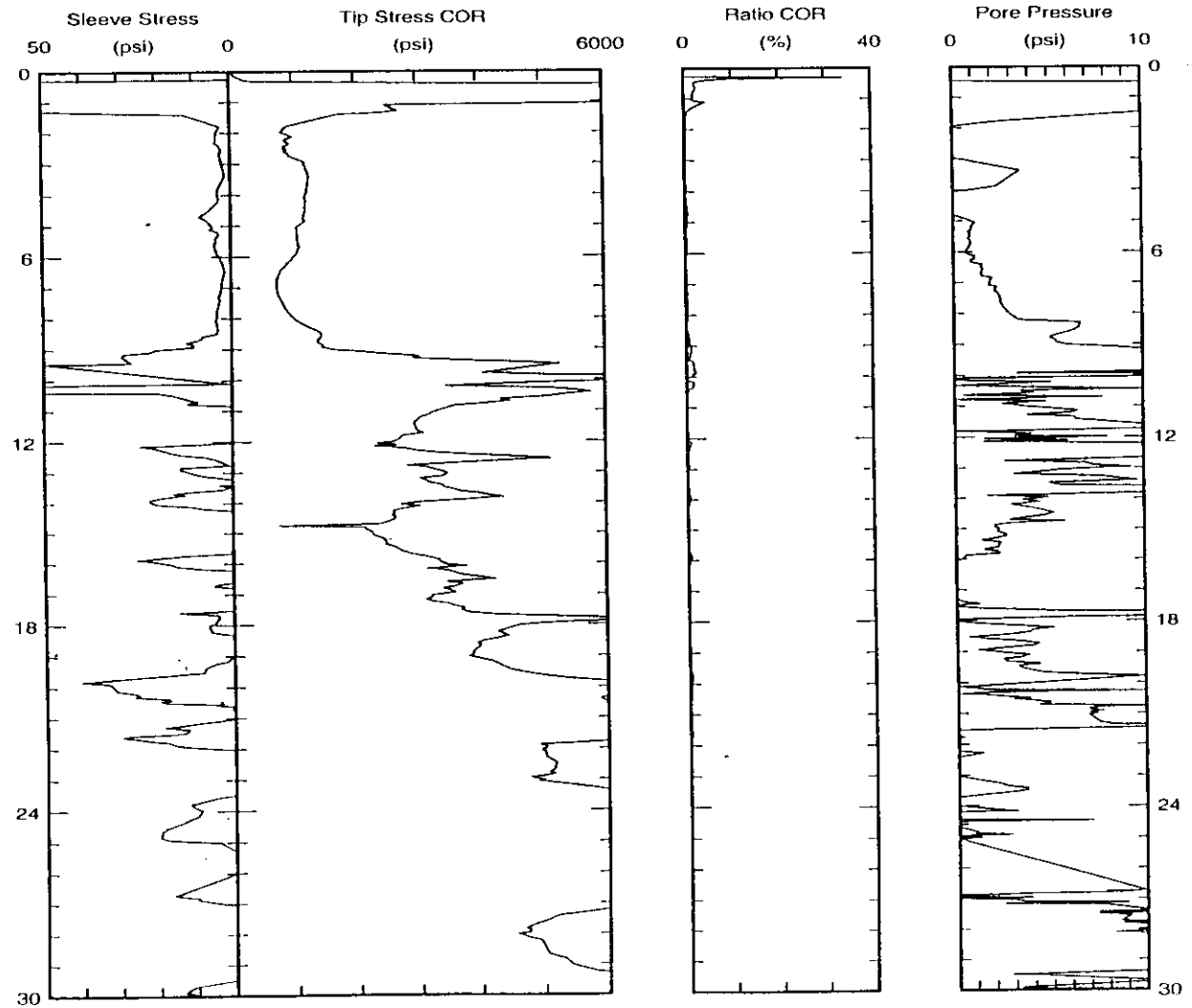
Email: cpt@ned.ara.com
http://www.ara.com

Northing:
Easting:
Elevation:

Date: 04/Nov/2003
Test ID: HD-07
Project: RROUX

Client: ROUX
Site: SUNNYSIDE



Maximum depth: 34.48 (ft)

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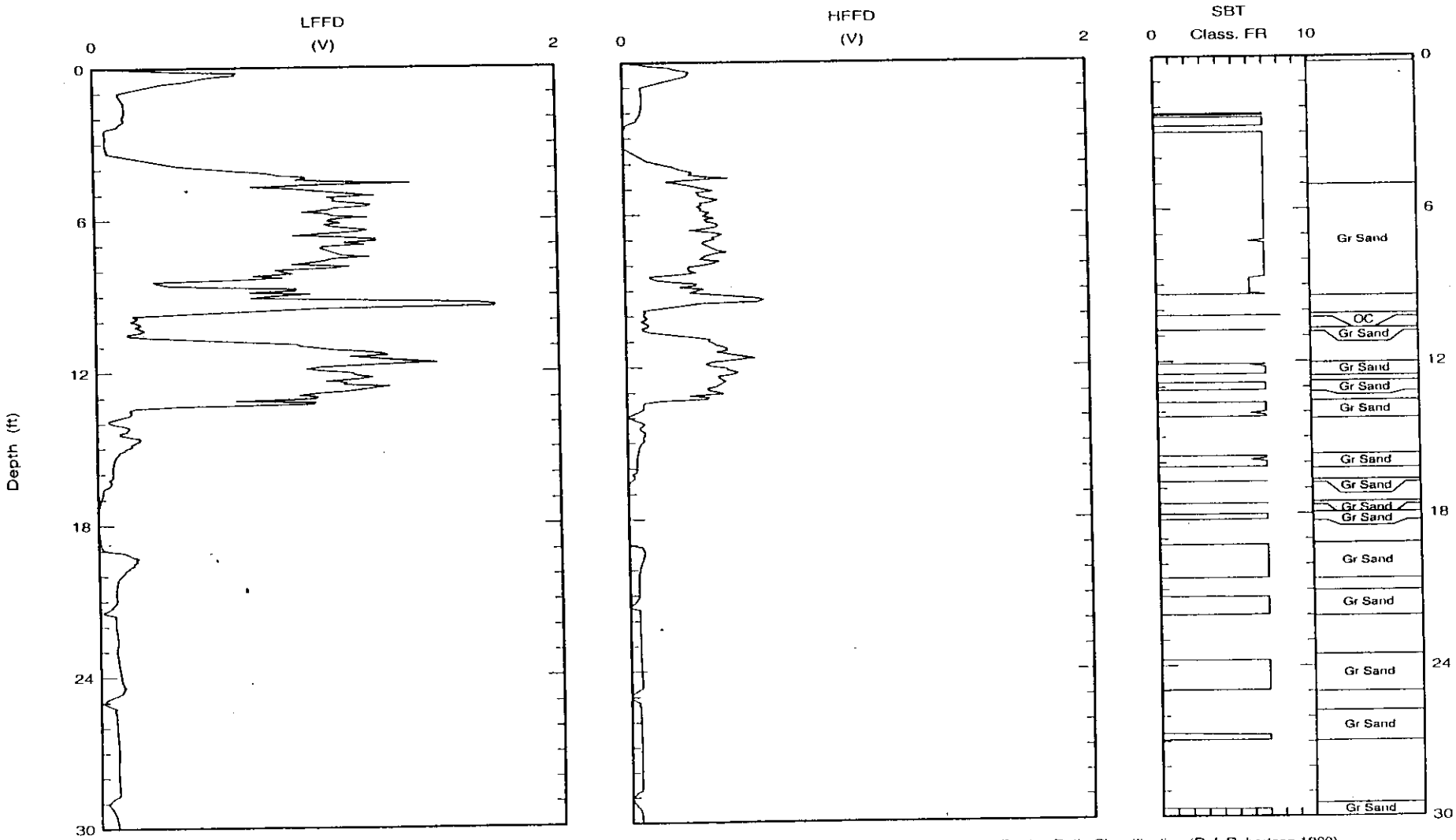
http://www.ara.com

Northing:
Easting:
Elevation:

Date: 04/Nov/2003
Test ID: HD-07
Project: RROUX

Client: ROUX
Site: SUNNYSIDE



Maximum depth: 34.48 (ft)

Class FR: Friction Ratio Classification (Ref: Robertson 1990)

Test ID: HD-07
File: 304N0302C.ECP

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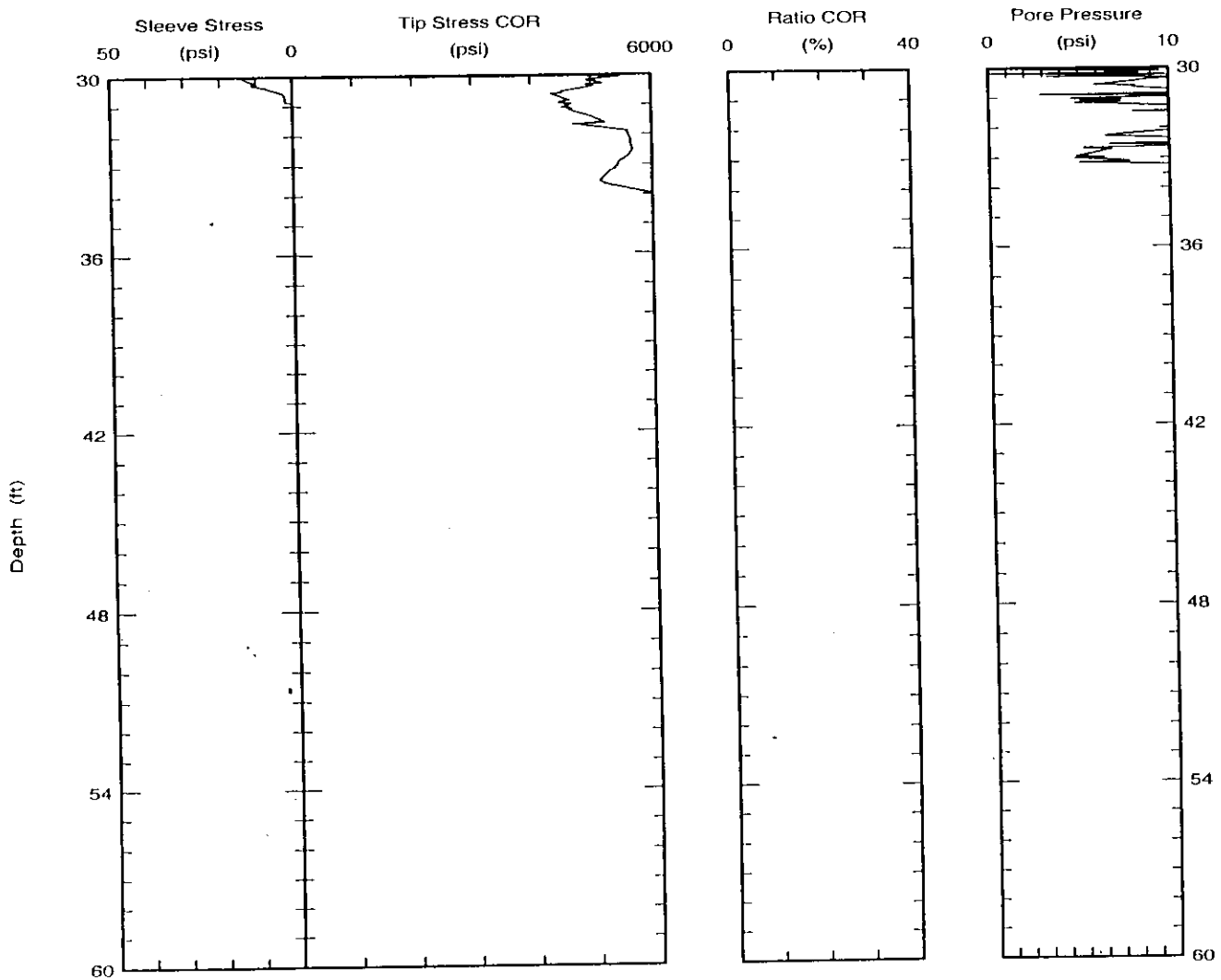
http://www.ara.com

Northing:
Easting:
Elevation:

Date: 04/Nov/2003
Test ID: HD-07
Project: RROUX

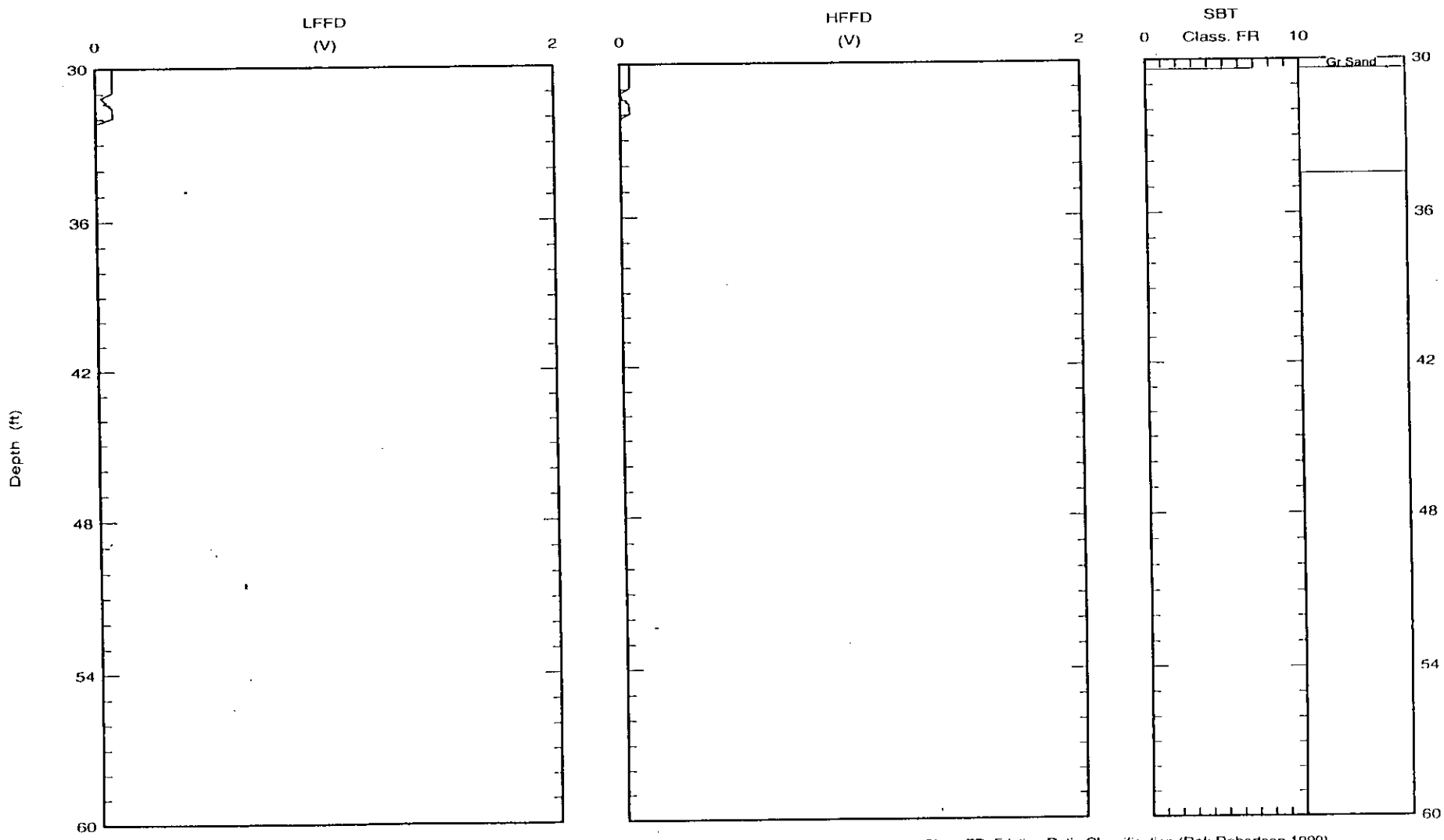
Client: ROUX
Site: SUNNYSIDE



Maximum depth 34.48 (ft)

Test ID: HD-07
File: 304N0302C.ECP

Applied Research Associates South Royalton, VT 05068 802-763-8348 Email: cpt@ned.ara.com http://www.ara.com	Northing: Easting: Elevation:	Date: 04/Nov/2003 Test ID: HD-07 Project: RROUX
	Client: ROUX Site: SUNNYSIDE	



Maximum depth: 34.48 (ft)

Class FR: Friction Ratio Classification (Rel: Robertson 1990)

Test ID: HD-07
File: 304N0302C.ECP

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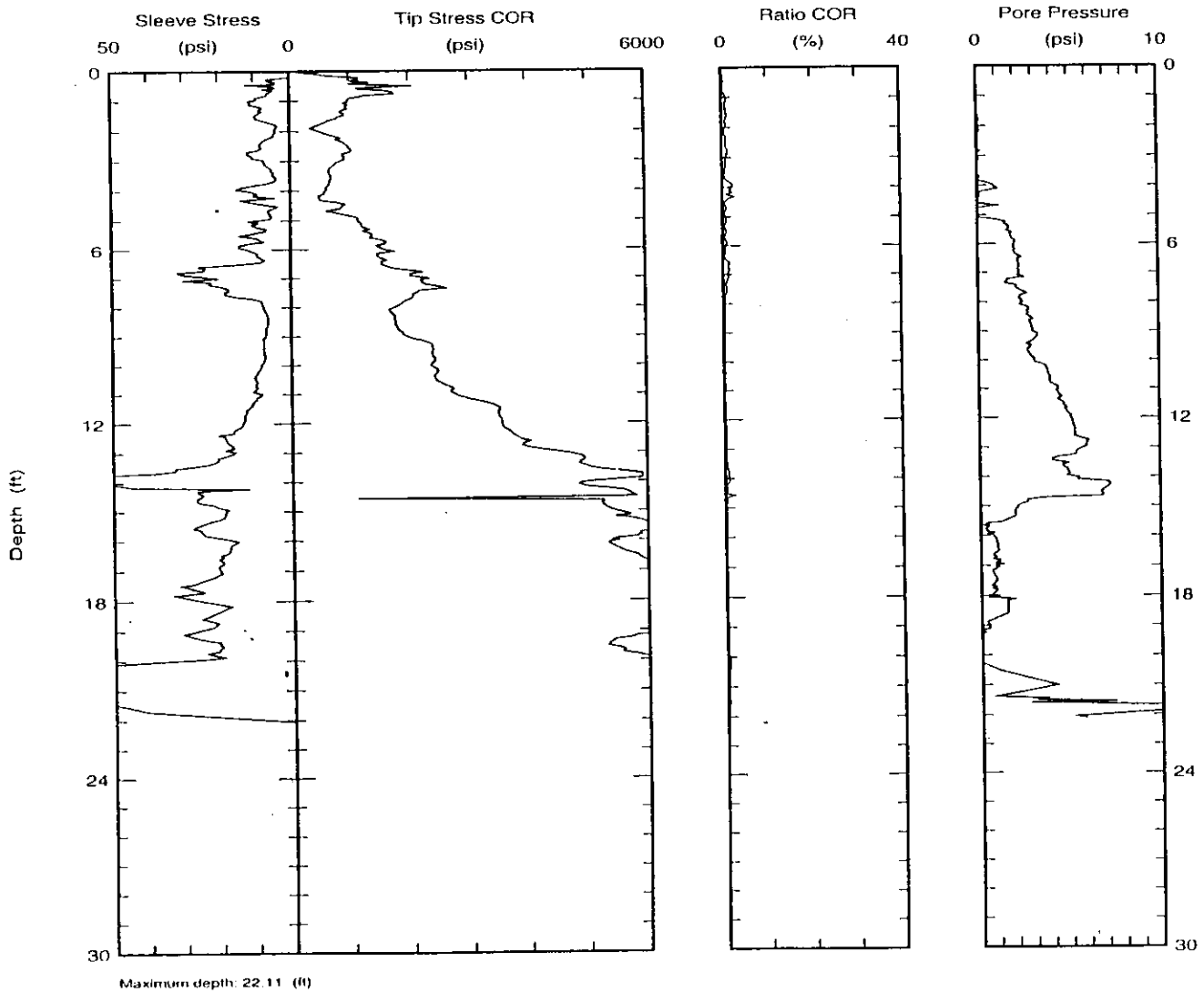
Northing:
Easting:
Elevation:

Date: 03/Nov/2003
Test ID: HD-08
Project: RROUX

Client: ROUX
Site: SUNNYSIDE



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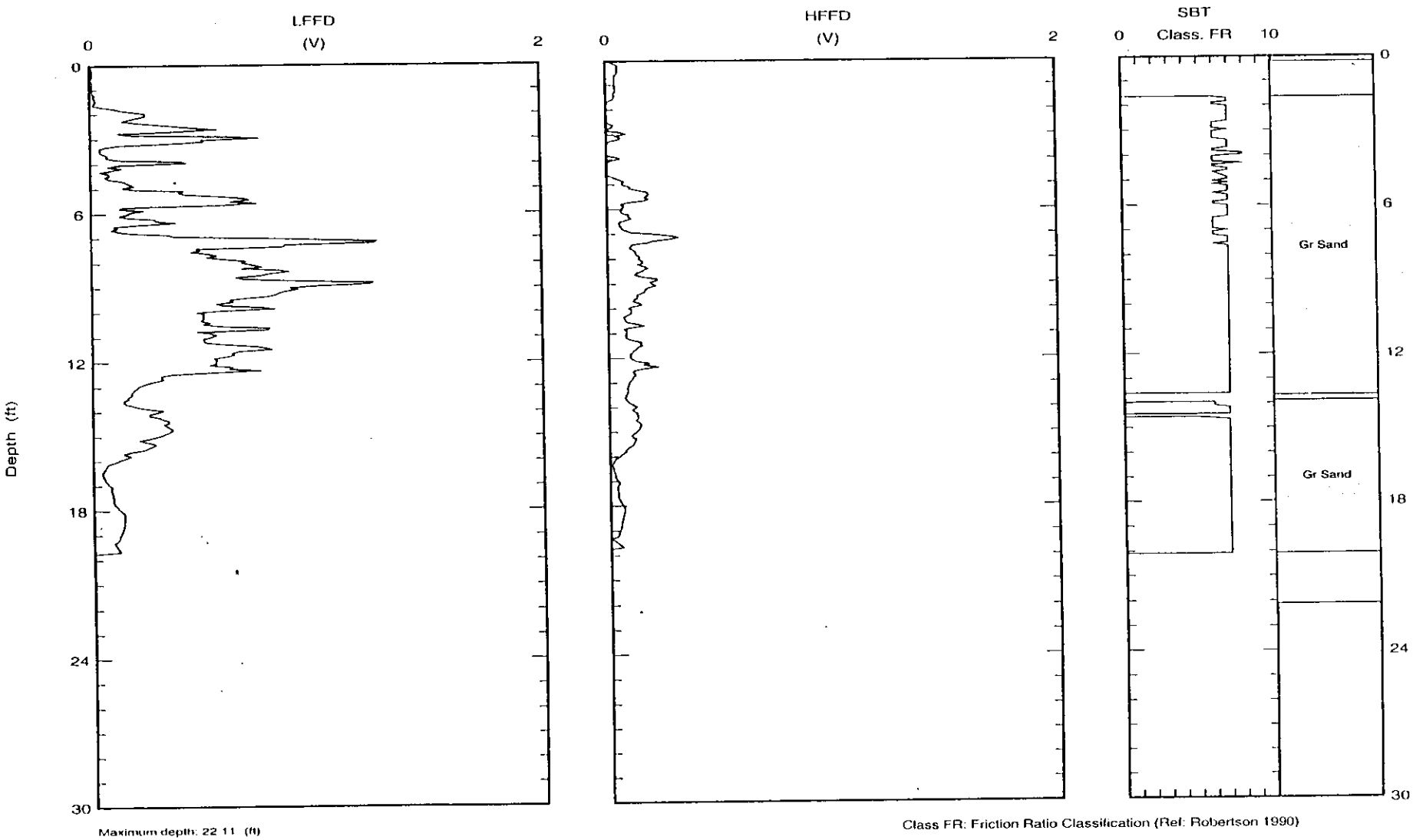
Northing:
Easting:
Elevation:

Date: 03/Nov/2003
Test ID: HD-08
Project: RROUX

Client: ROUX
Site: SUNNYSIDE



Maximum depth: 22.11 (ft)

Class FR: Friction Ratio Classification (Ref: Robertson 1990)

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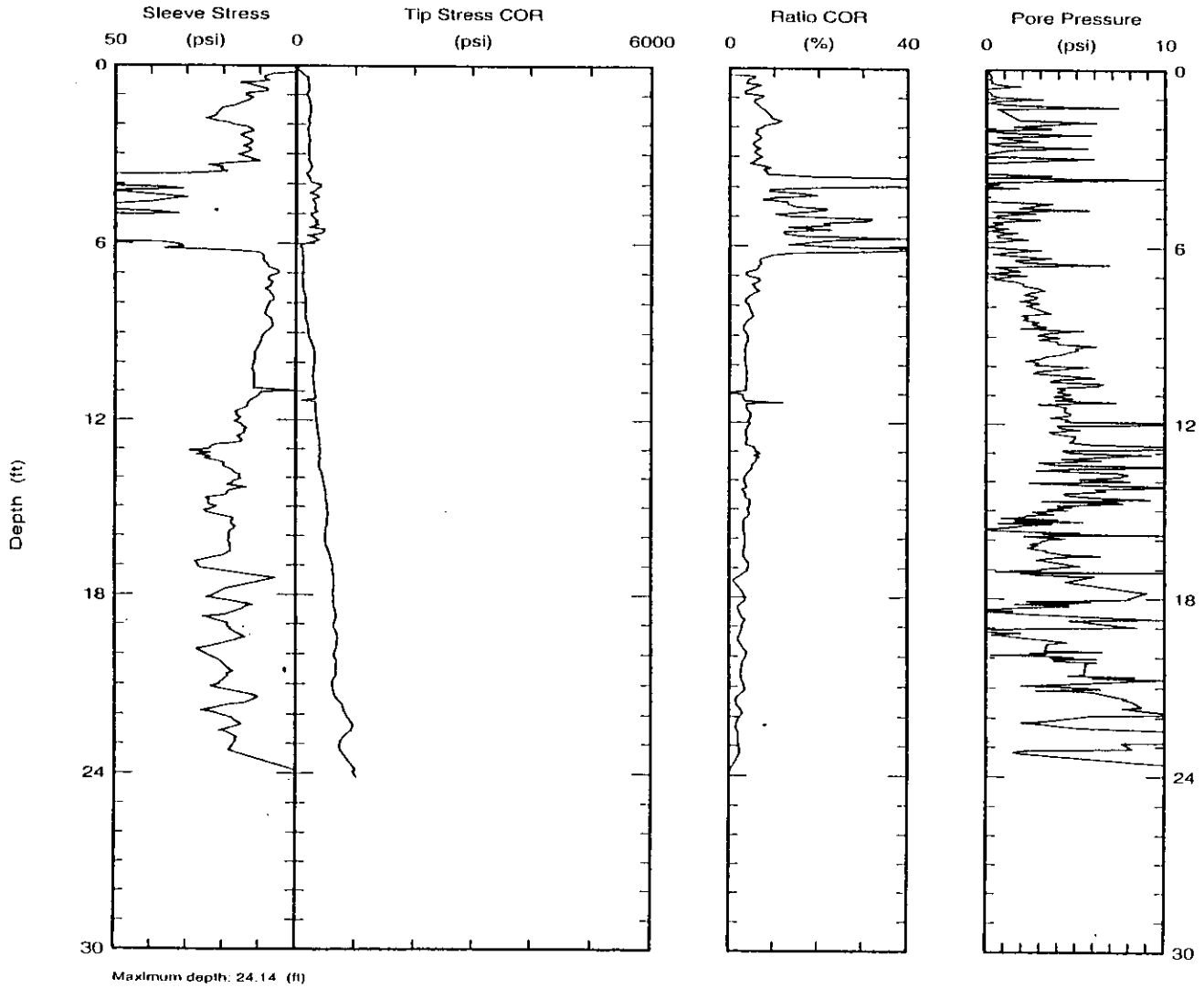
Northing:
Easting:
Elevation:

Date: 03/Nov/2003
Test ID: HD-08A
Project: RROUX

Client: ROUX
Site: SUNNYSIDE



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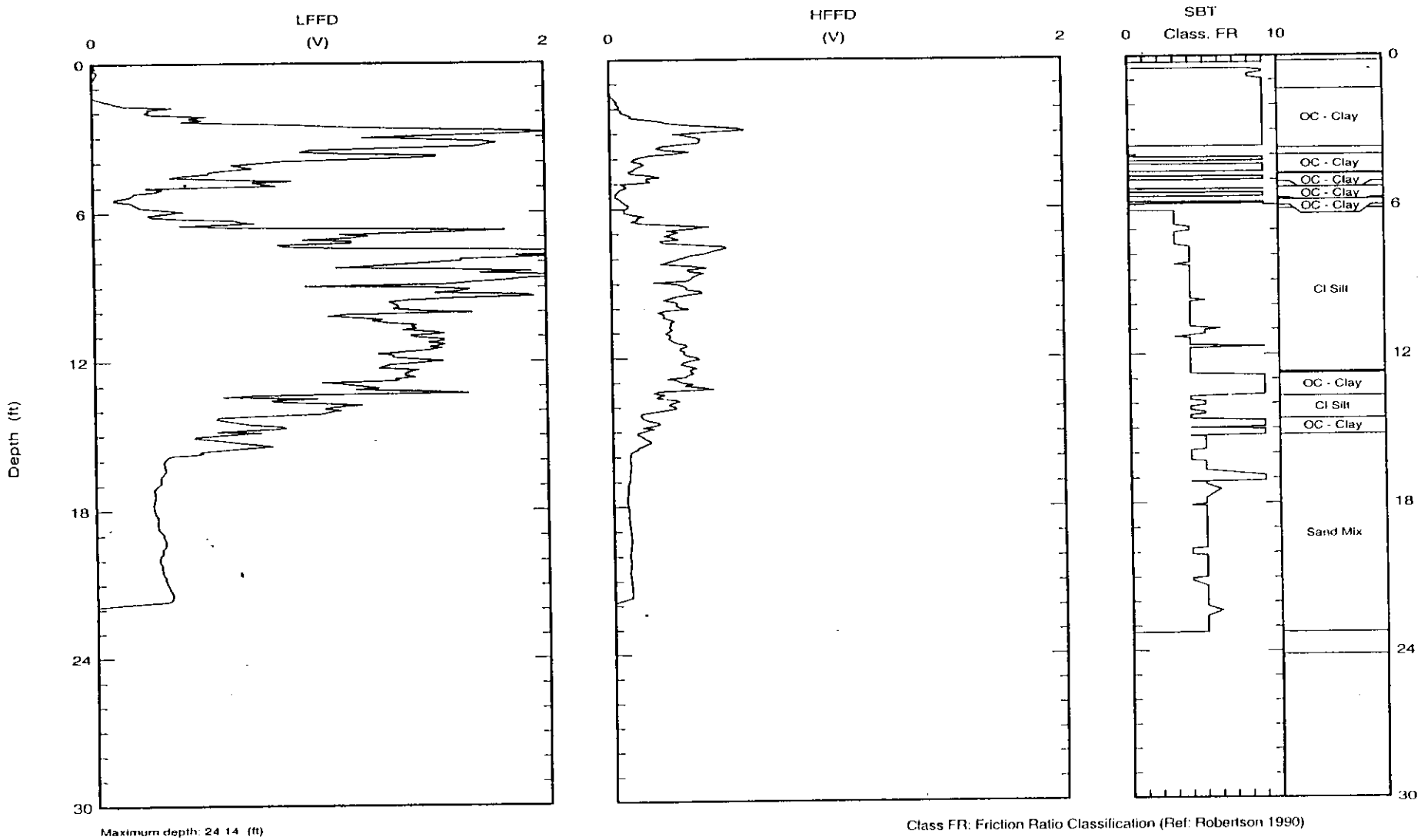
Email: cpt@ned.ara.com
http://www.ara.com

Northing:
Easting:
Elevation:

Date: 03/Nov/2003
Test ID: HD-08A
Project: RROUX

Client: ROUX
Site: SUNNYSIDE



Maximum depth: 24.14 (ft)

Class FR: Friction Ratio Classification (Ref: Robertson 1990)

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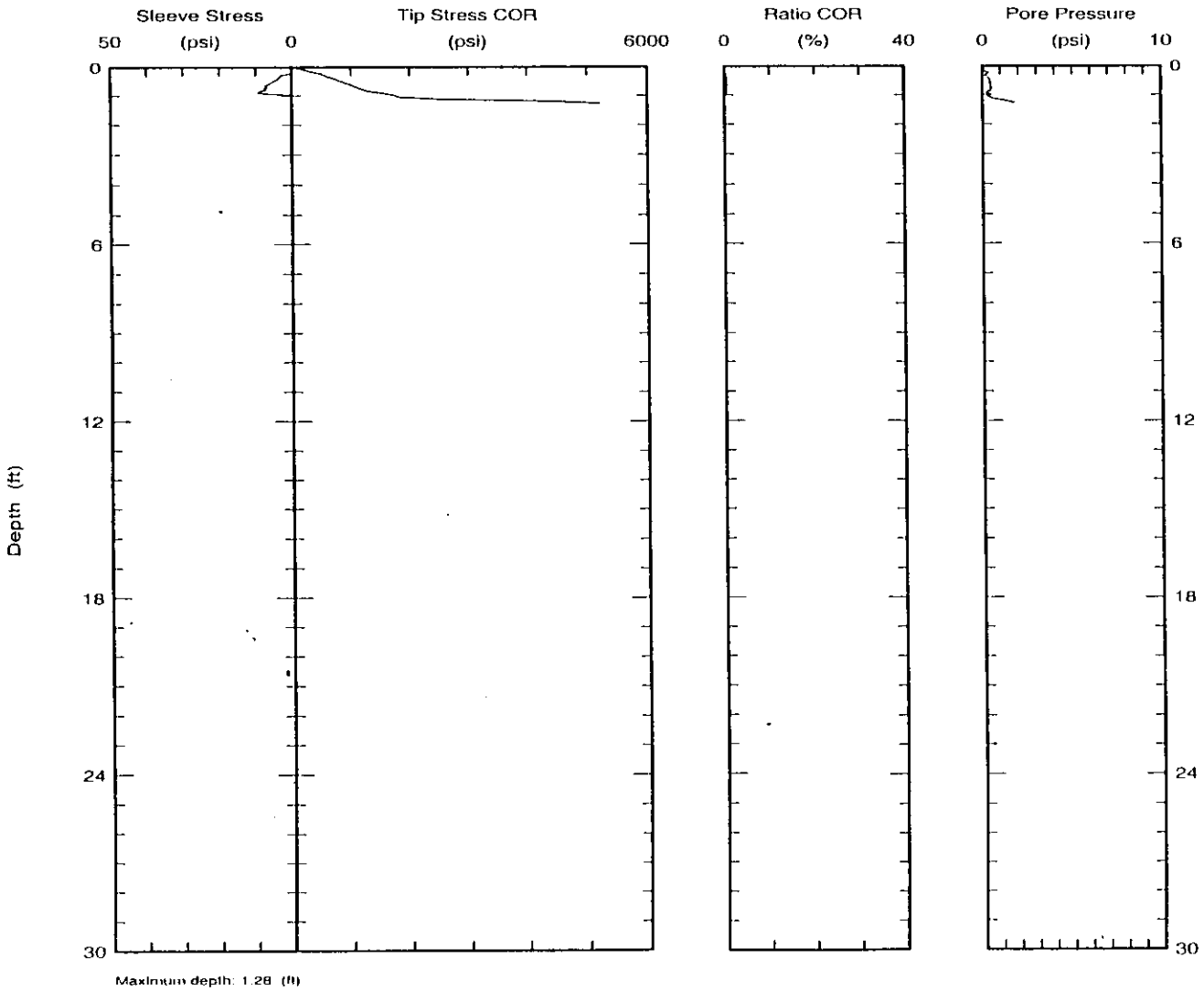
Northing:
Easting:
Elevation:

Date: 05/Nov/2003
Test ID: HD-08B
Project: RROUX

Client: ROUX
Site: SUNNYSIDE



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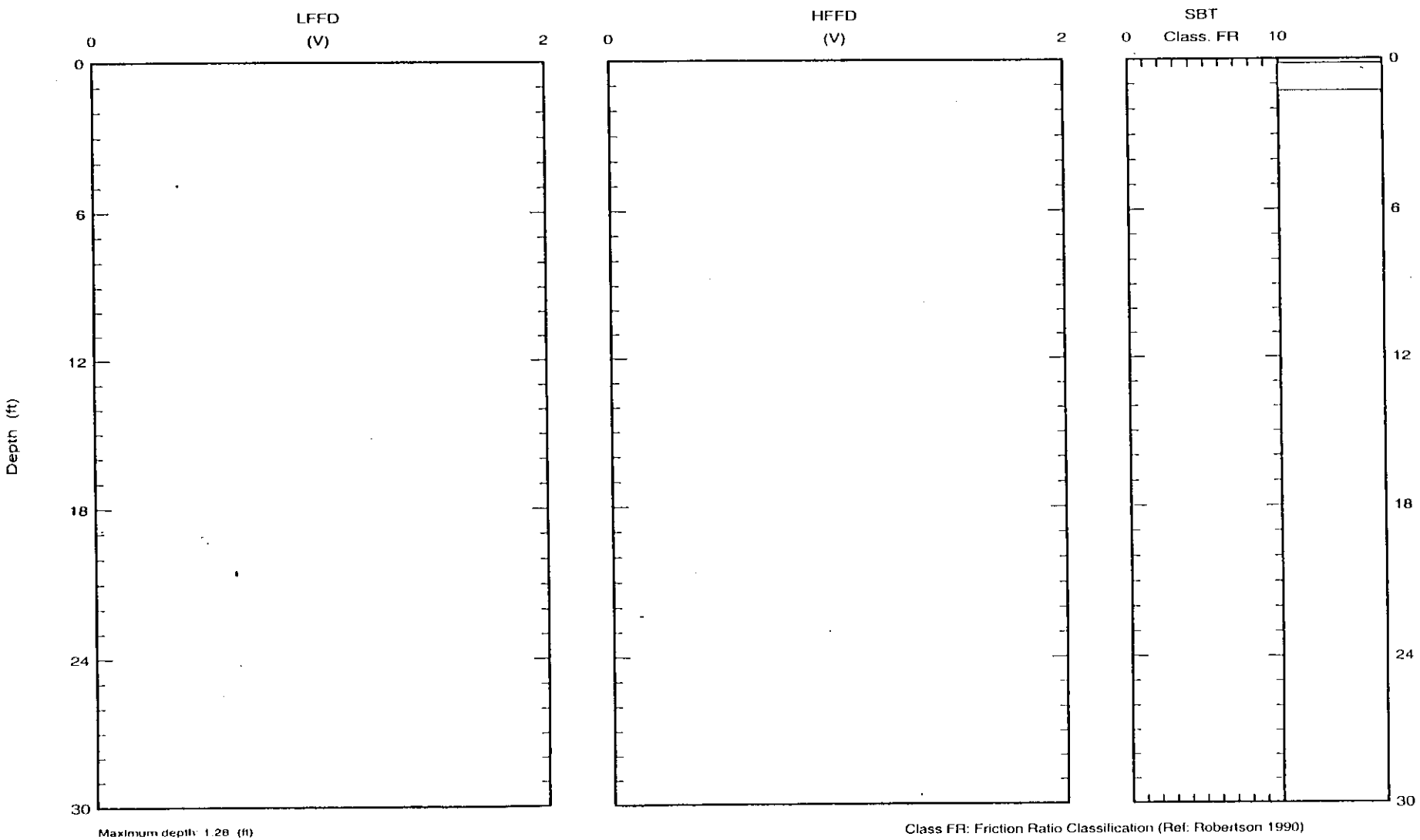
Email: cpt@ned.ara.com
http://www.ara.com

Northing:
Easting:
Elevation:

Date: 05/Nov/2003
Test ID: HD-08B
Project: RROUX

Client: ROUX
Site: SUNNYSIDE



Maximum depth: 1.28 (ft)

Class FR: Friction Ratio Classification (Ref: Robertson 1990)

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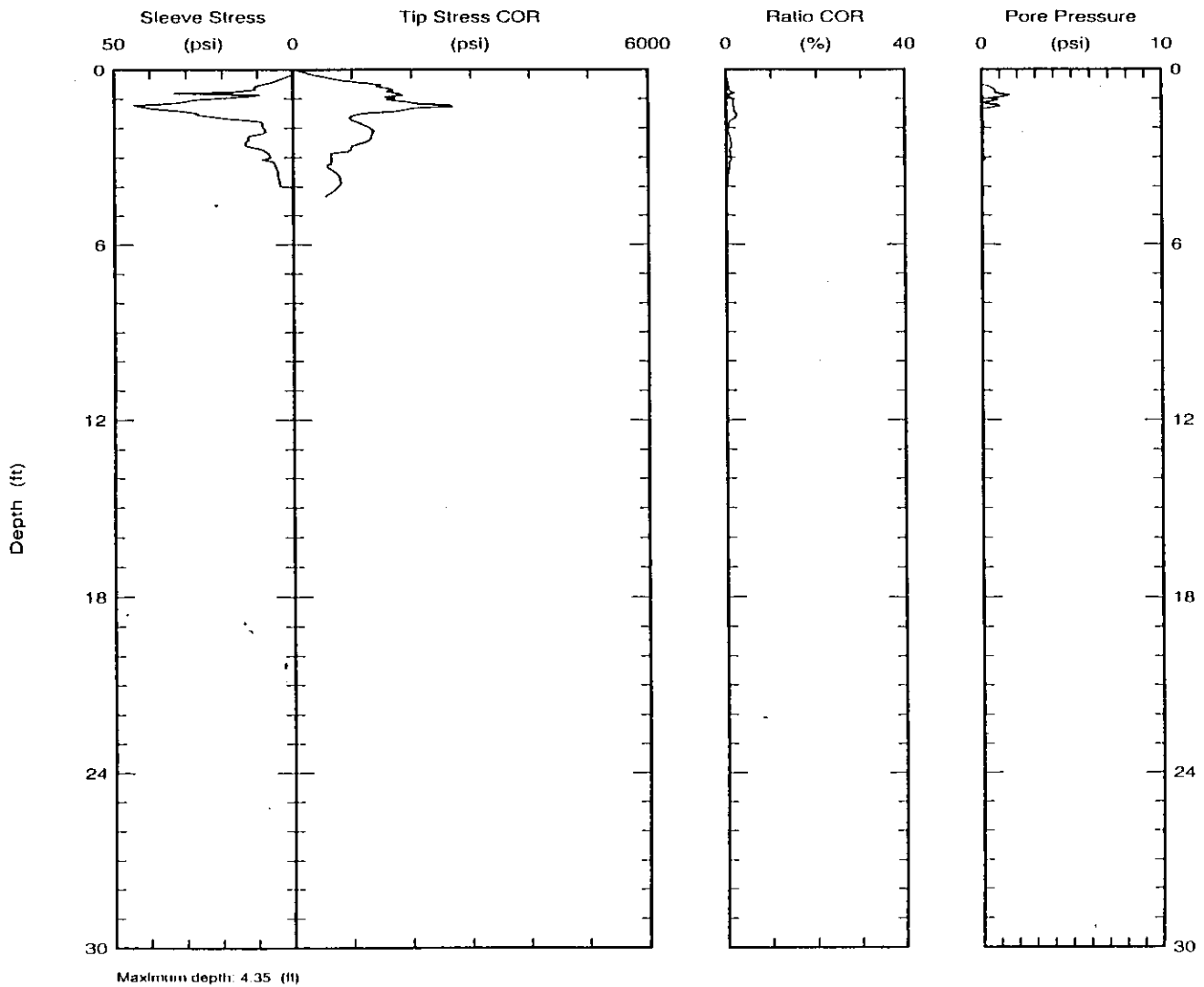
	Client: ROUX Site: SUNNYSIDE	



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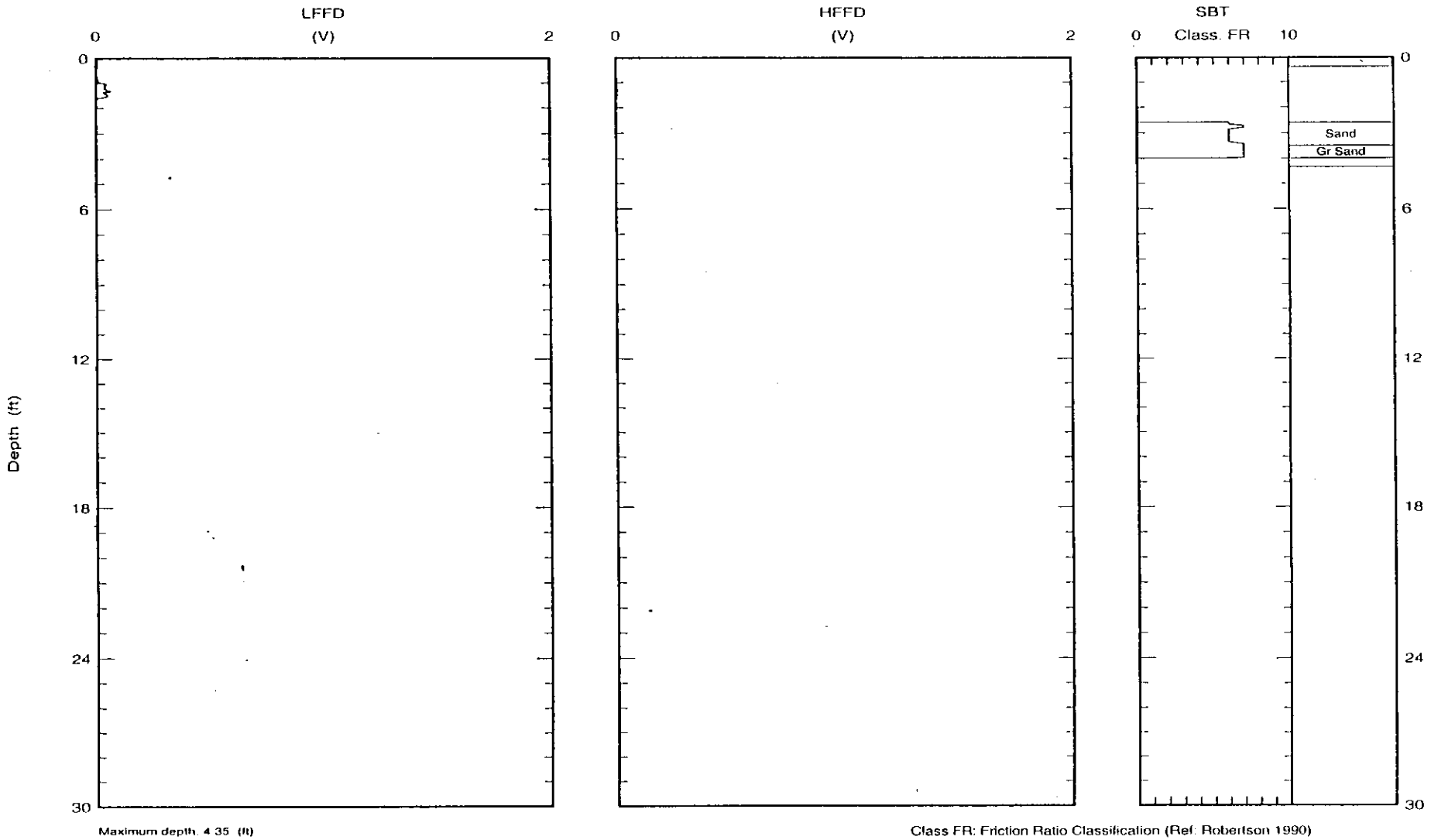
Email: cpt@ned.ara.com
http://www.ara.com

Northing:	Date: 05/Nov/2003
Easting:	Test ID: HD-08C
Elevation:	Project: RROUX
Client: ROUX	
Site: SUNNYSIDE	



Maximum depth: 4.35 (ft)

Class FR: Friction Ratio Classification (Ref: Robertson 1990)

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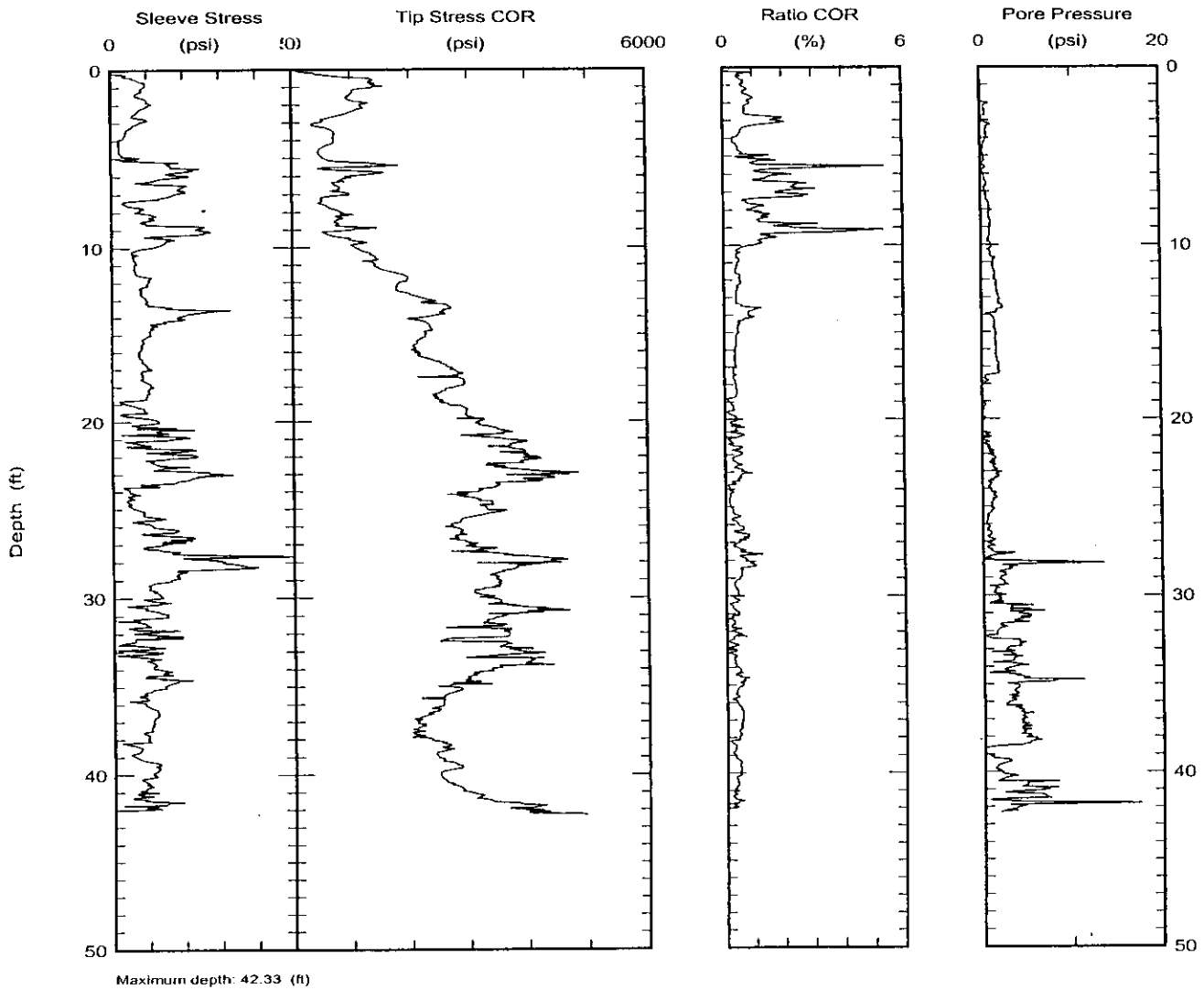
Northing:
Easting:
Elevation:

Date: 05/Nov/2003
Test ID: HD-08D
Project: RROUX

Client: ROUX
Site: SUNNYSIDE



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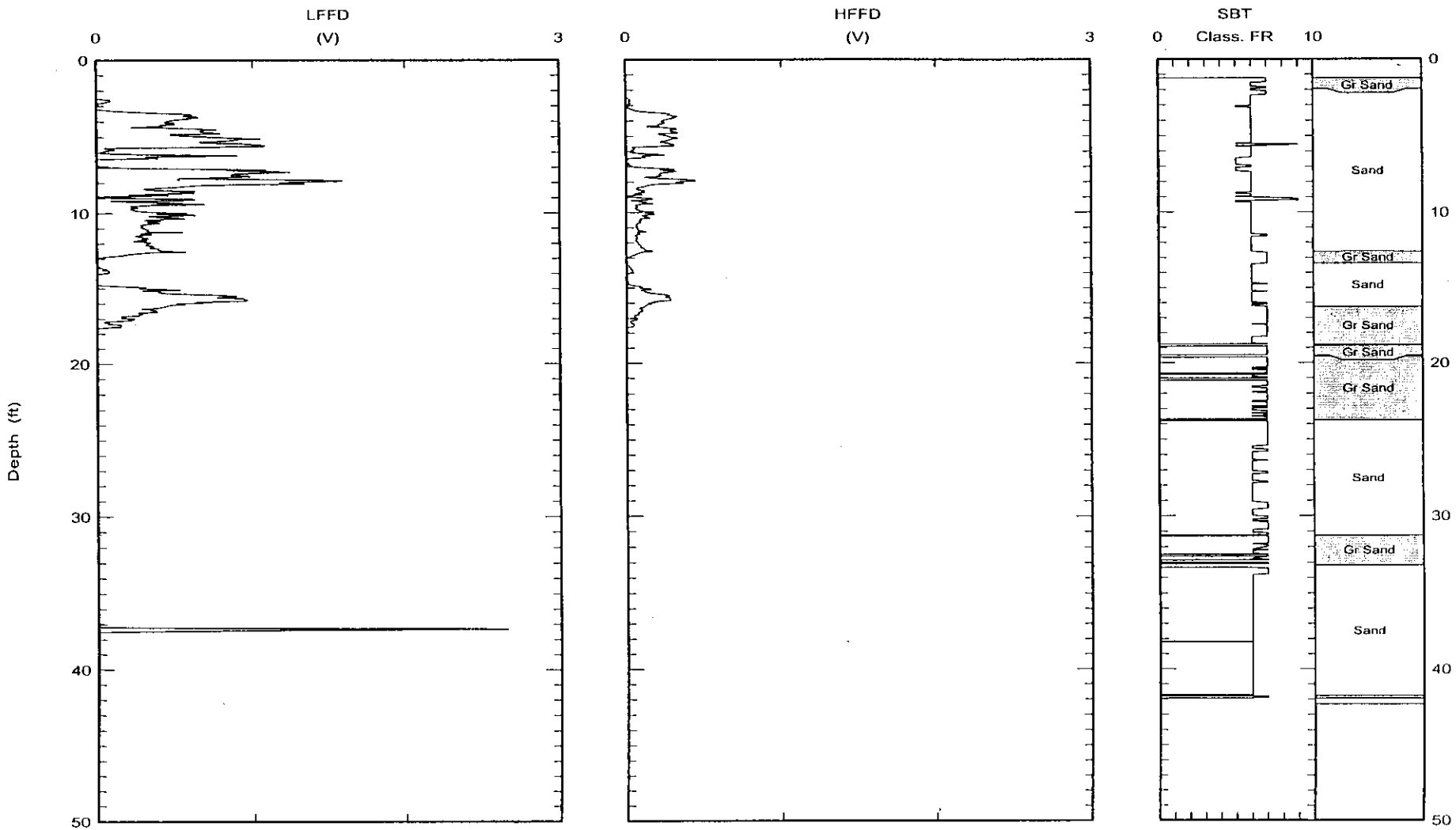
Northing:	Date: 05/Nov/2003
Easting:	Test ID: HD-08D
Elevation:	Project: RROUX
Client: ROUX	
Site: SUNNYSIDE	

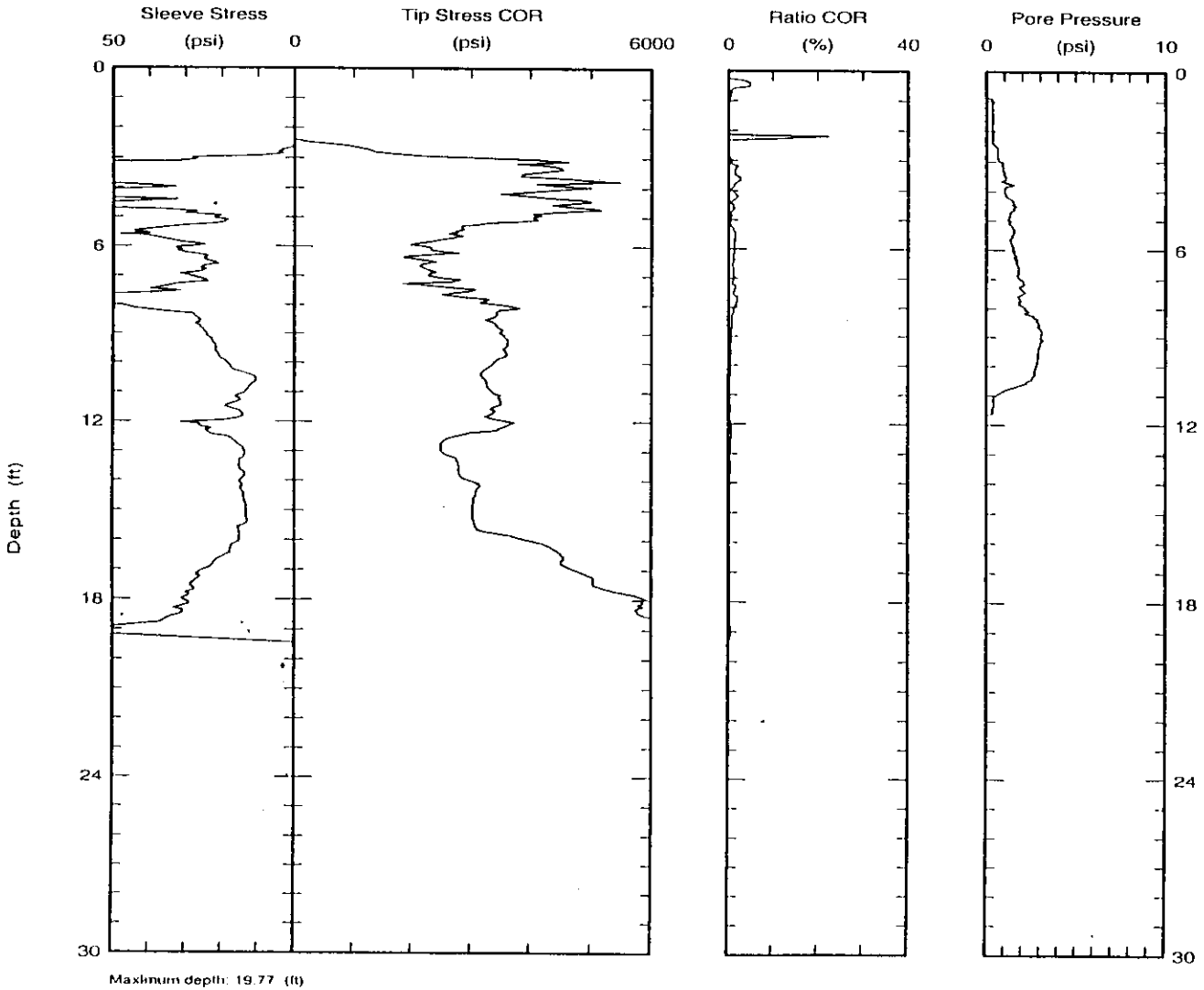


Maximum depth: 42.33 (ft)

Class FR: Friction Ratio Classification (Ref: Robertson 1990)

Applied Research Associates
South Royalton, VT 05068
802-763-8348
Email: cpt@ned.ara.com
http://www.ara.com

Northing:	Date: 04/Nov/2003
Easting:	Test ID: FFD-09
Elevation:	Project: RROUX
Client: ROUX	
Site: SUNNYSIDE	

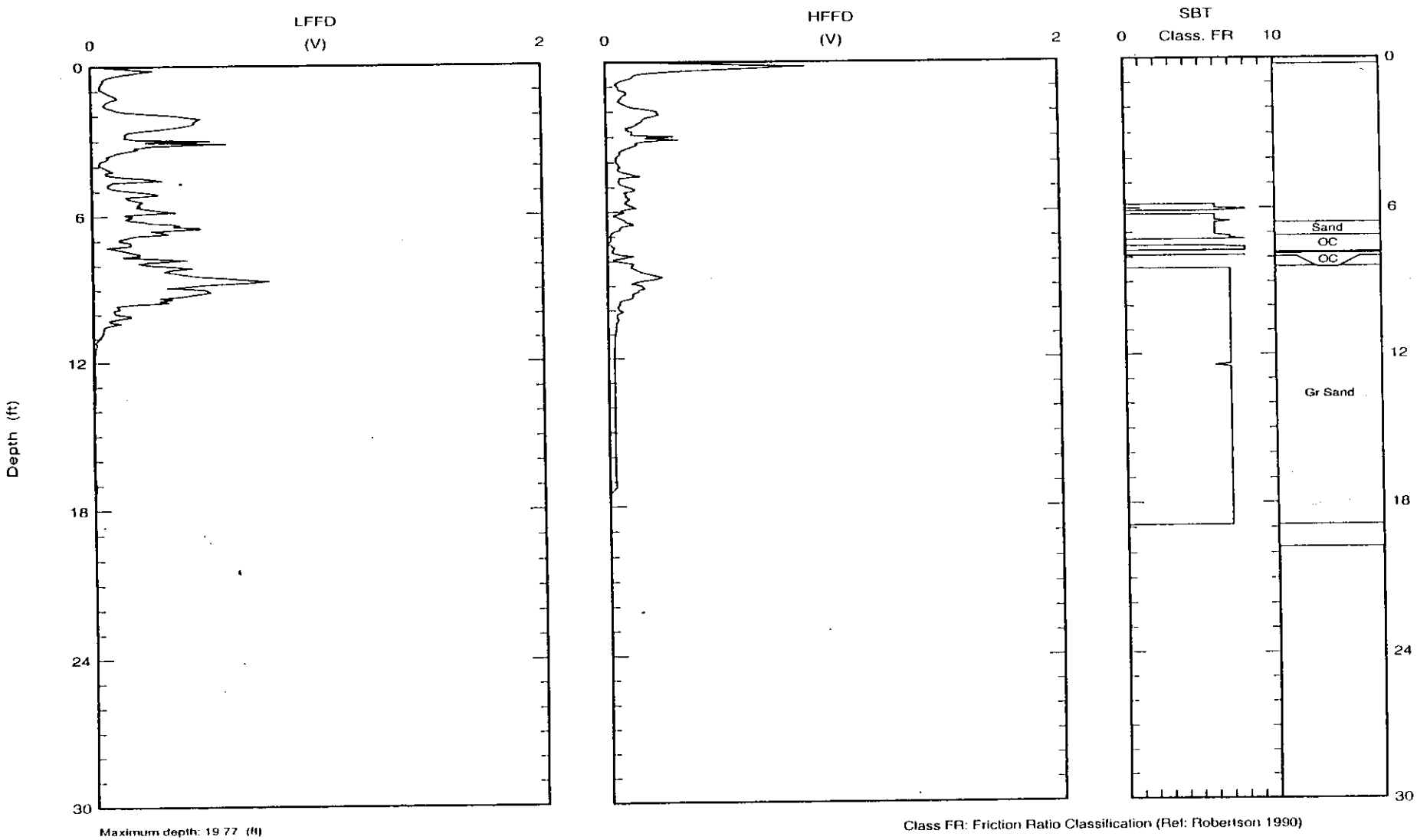


Applied Research Associates
South Royalton, VT 05068
802-763-8348
Email: cpt@ned.ara.com
http://www.ara.com

Northing:
Easting:
Elevation:

Date: 04/Nov/2003
Test ID: FFD-09
Project: RROUX

Client: ROUX
Site: SUNNYSIDE

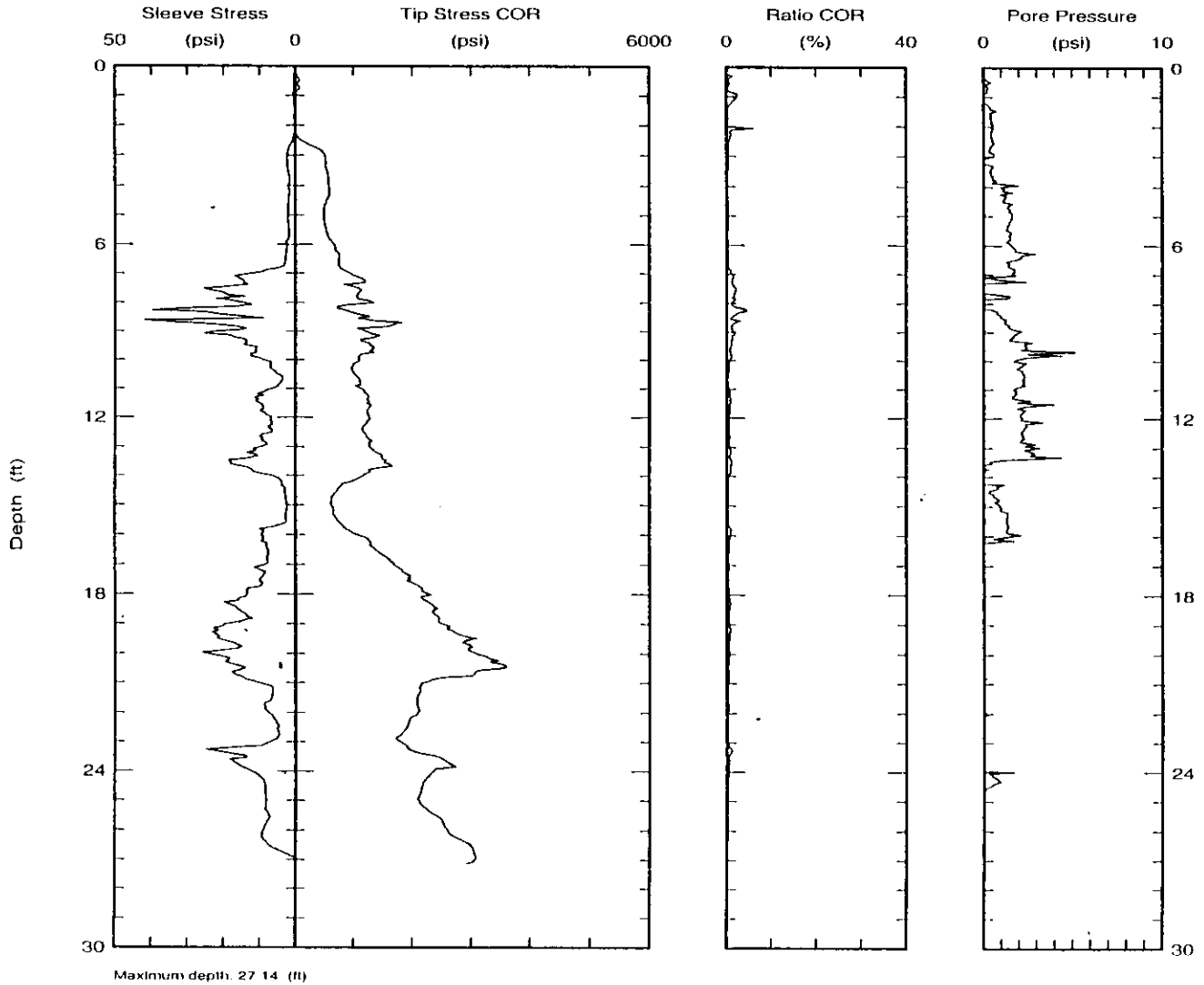


Maximum depth: 19.77 (ft)

Class FR: Friction Ratio Classification (Ref: Robertson 1990)

Applied Research Associates
South Royalton, VT 05068
802-763-8348
Email: cpt@ned.ara.com
http://www.ara.com

Northing:	Date: 05/Nov/2003
Easting:	Test ID: HD-10
Elevation:	Project: RROUX
Client: ROUX	
Site: SUNNYSIDE	



Applied Research Associates
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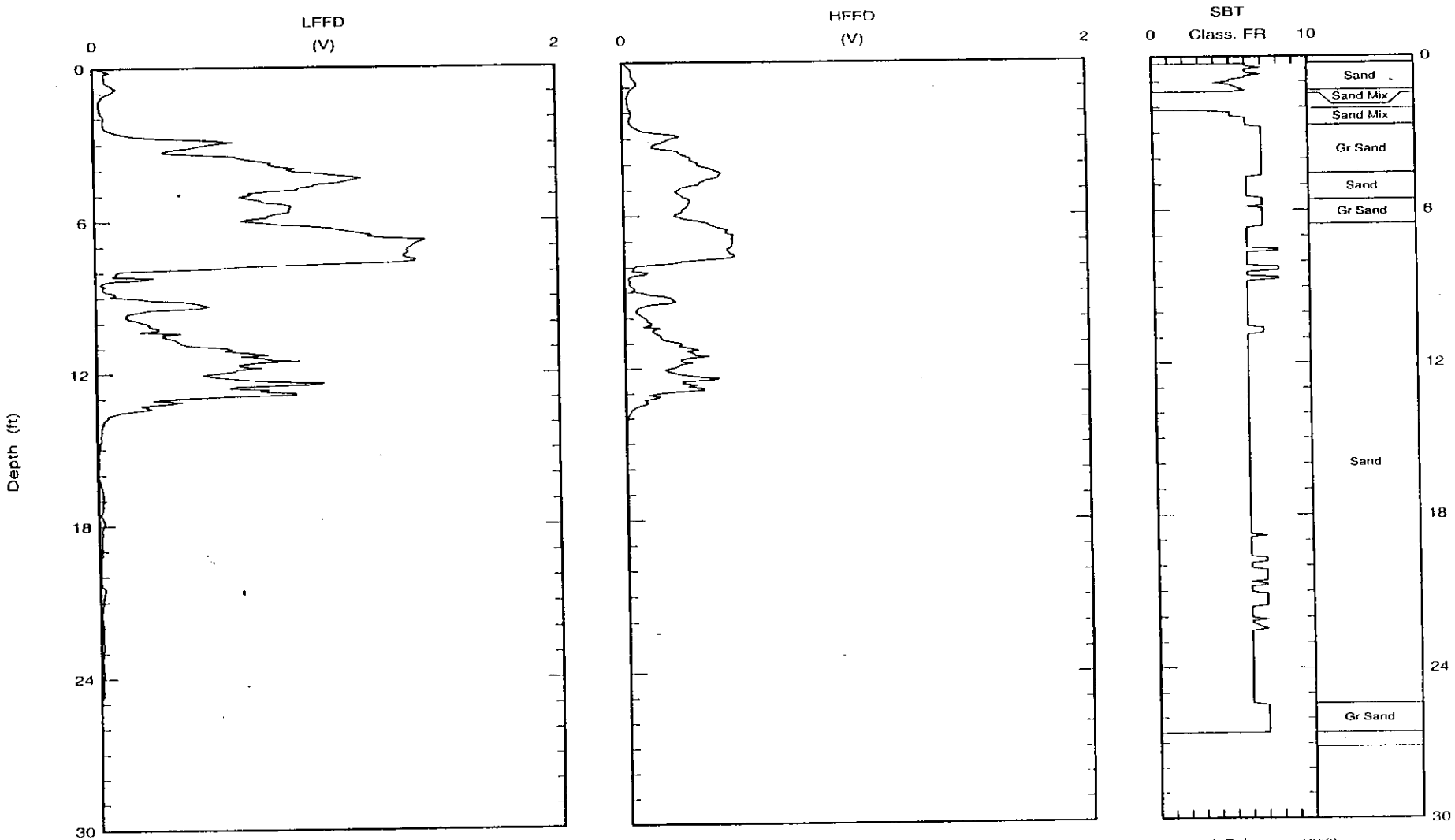
802-763-8348
Email: cpt@ned.ara.com
http://www.ara.com

Northing:
Easting:
Elevation:

Date: 05/Nov/2003
Test ID: HD-10
Project: RROUX

Client: ROUX
Site: SUNNYSIDE



Maximum depth: 27.14 (ft)

Class FR: Friction Ratio Classification (Ref: Robertson 1990)

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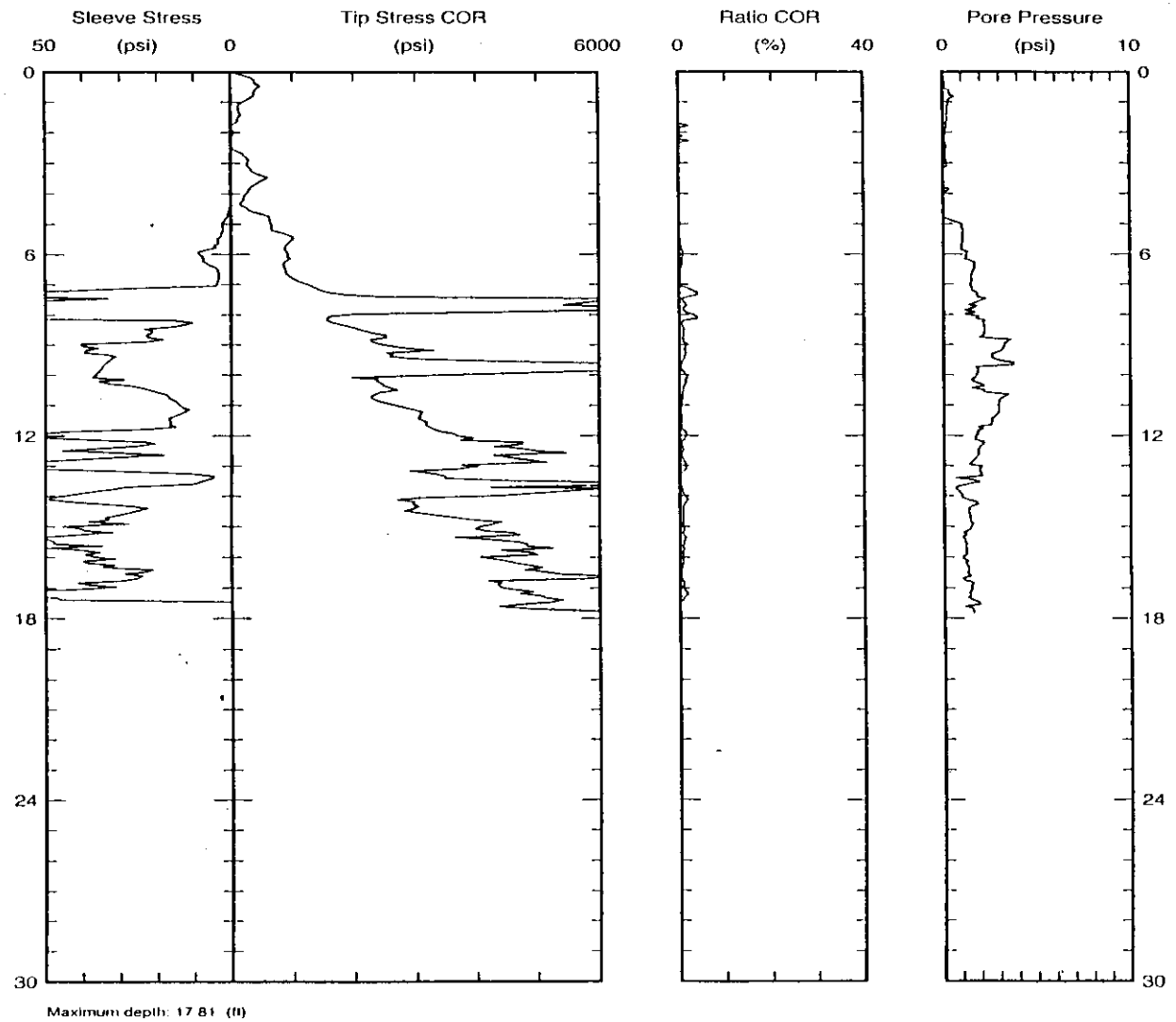
Email: cpt@ned.ara.com
http://www.ara.com

Northing:
Easting:
Elevation:

Date: 04/Nov/2003
Test ID: HD-11
Project: RROUX

Client: ROUX
Site: SUNNYSIDE



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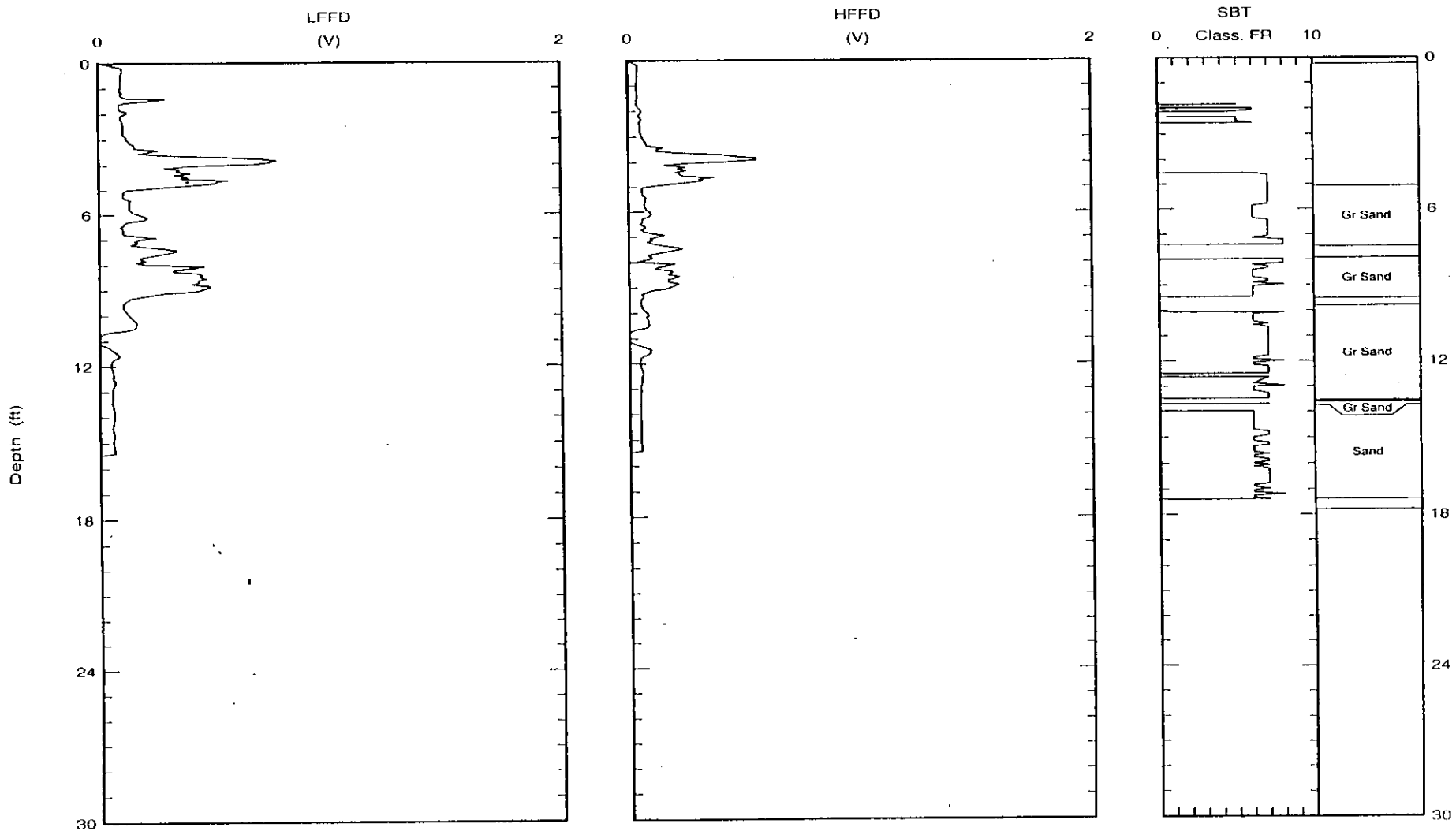
802-763-8348
Email: cpt@ned.ara.com
http://www.ara.com

Northing:
Easting:
Elevation:

Date: 04/Nov/2003
Test ID: HD-11
Project: RROUX

Client: ROUX
Site: SUNNYSIDE



Maximum depth: 17.81 (ft)

Class FR: Friction Ratio Classification (Ref: Robertson 1990)

Applied Research Associates
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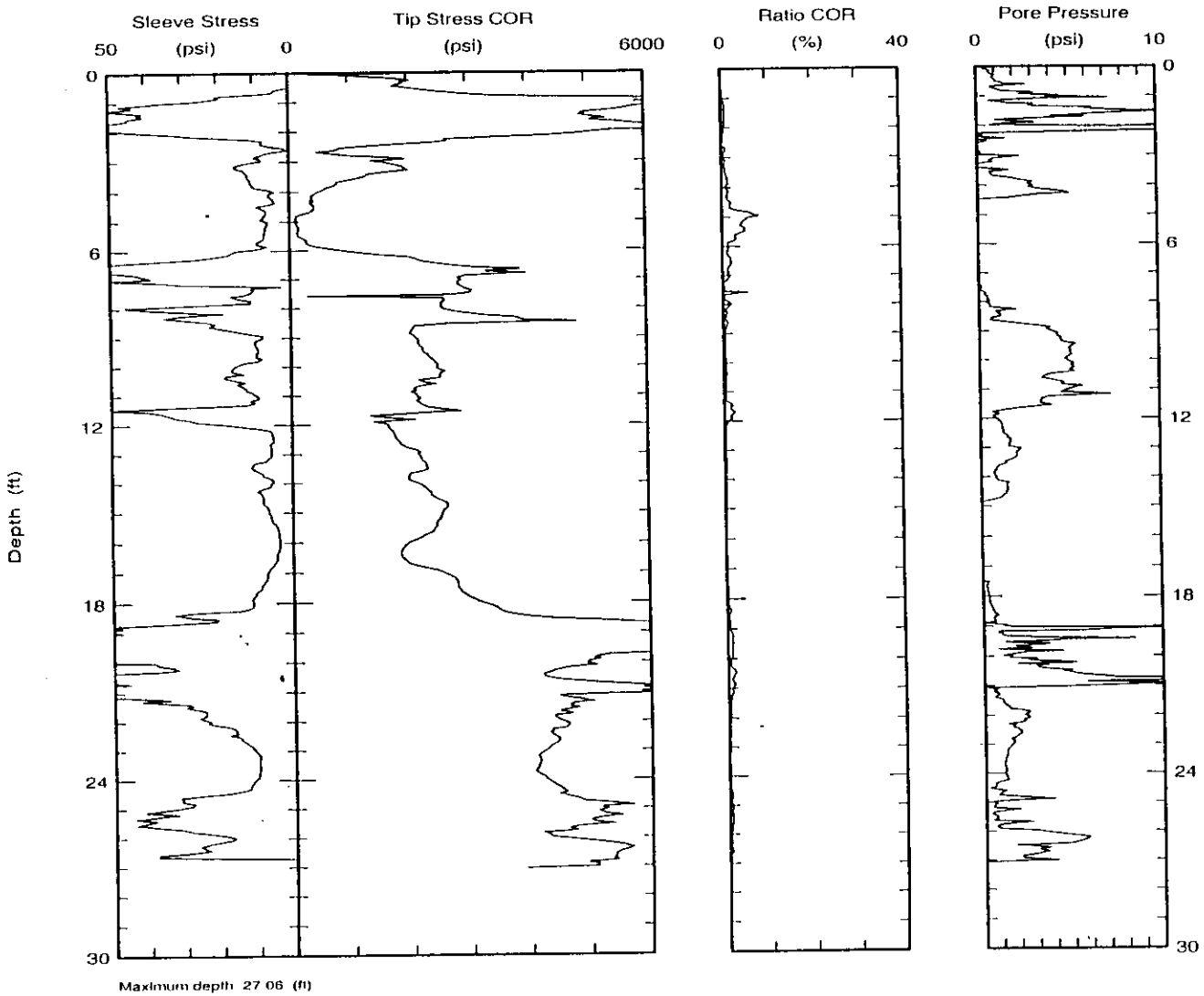
802-763-8348
Email: cpt@ned.ara.com
http://www.ara.com

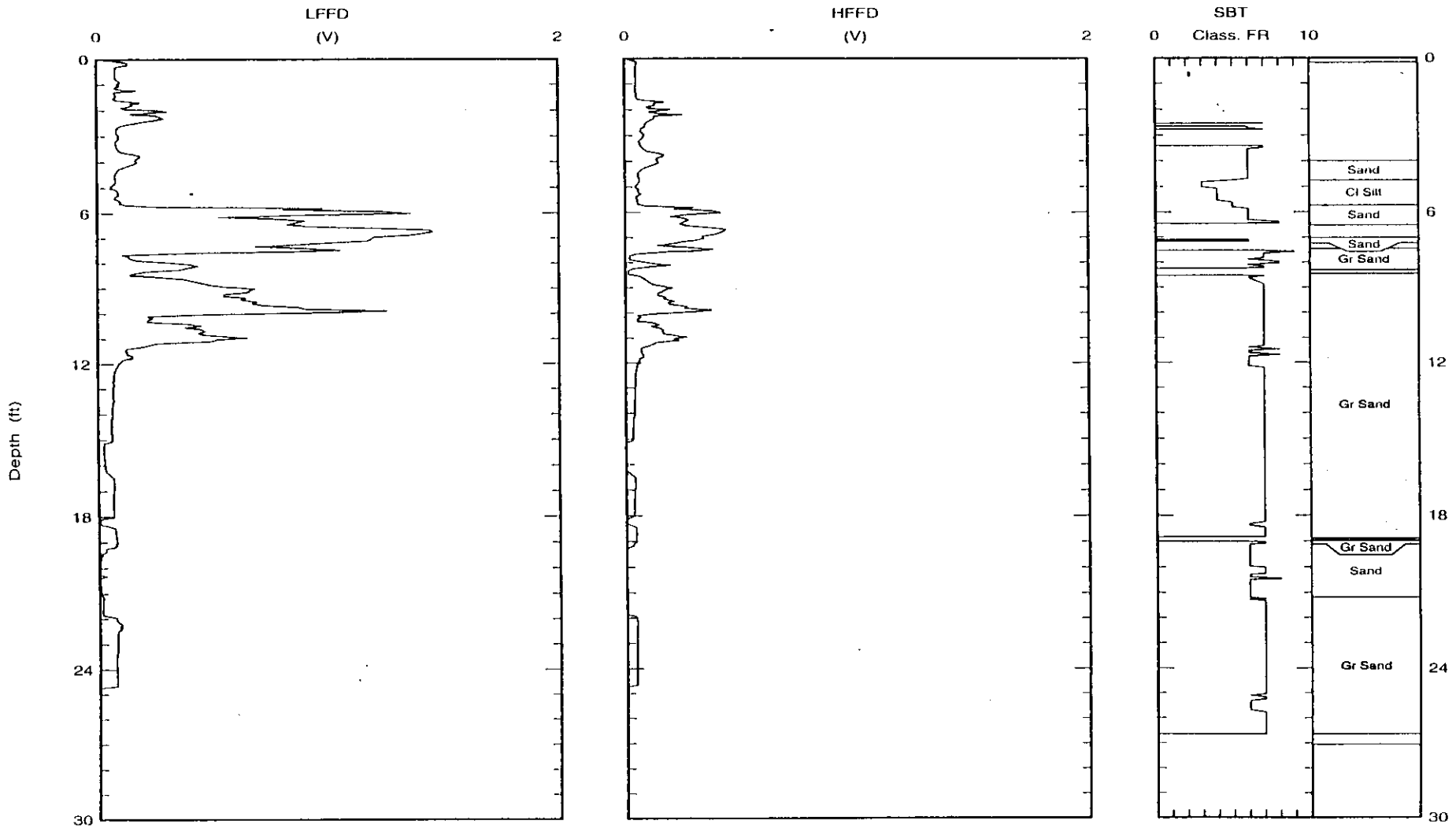
Northing:
Easting:
Elevation:

Date: 04/Nov/2003
Test ID: FFD-12
Project: RROUX

Client: ROUX
Site: SUNNYSIDE



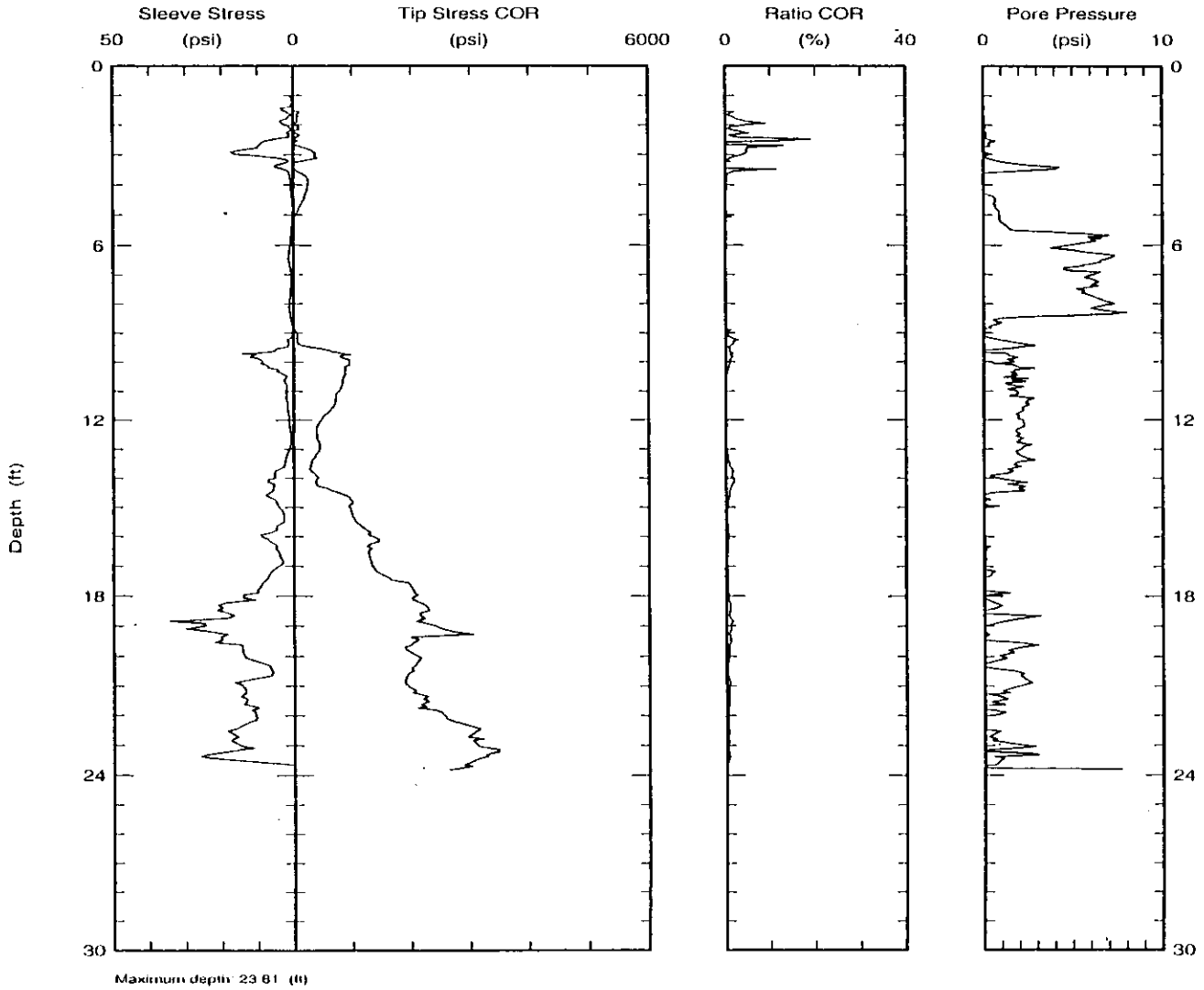
Applied Research Associates South Royalton, VT 05068 802-763-8348 Email: cpt@ned.ara.com http://www.ara.com	Northing: Easting: Elevation:	Date: 04/Nov/2003 Test ID: FFD-12 Project: RROUX
	Client: ROUX Site: SUNNYSIDE	



Maximum depth: 27.06 (ft)

Class FR: Friction Ratio Classification (Ref: Robertson 1990)

Applied Research Associates South Royalton, VT 05068 802-763-8348 Email: cpt@ned.ara.com http://www.ara.com	Northing: Easting: Elevation:	Date: 03/Nov/2003 Test ID: HD-13 Project: RROUX
	Client: ROUX Site: SUNNYSIDE	



Applied Research Associates
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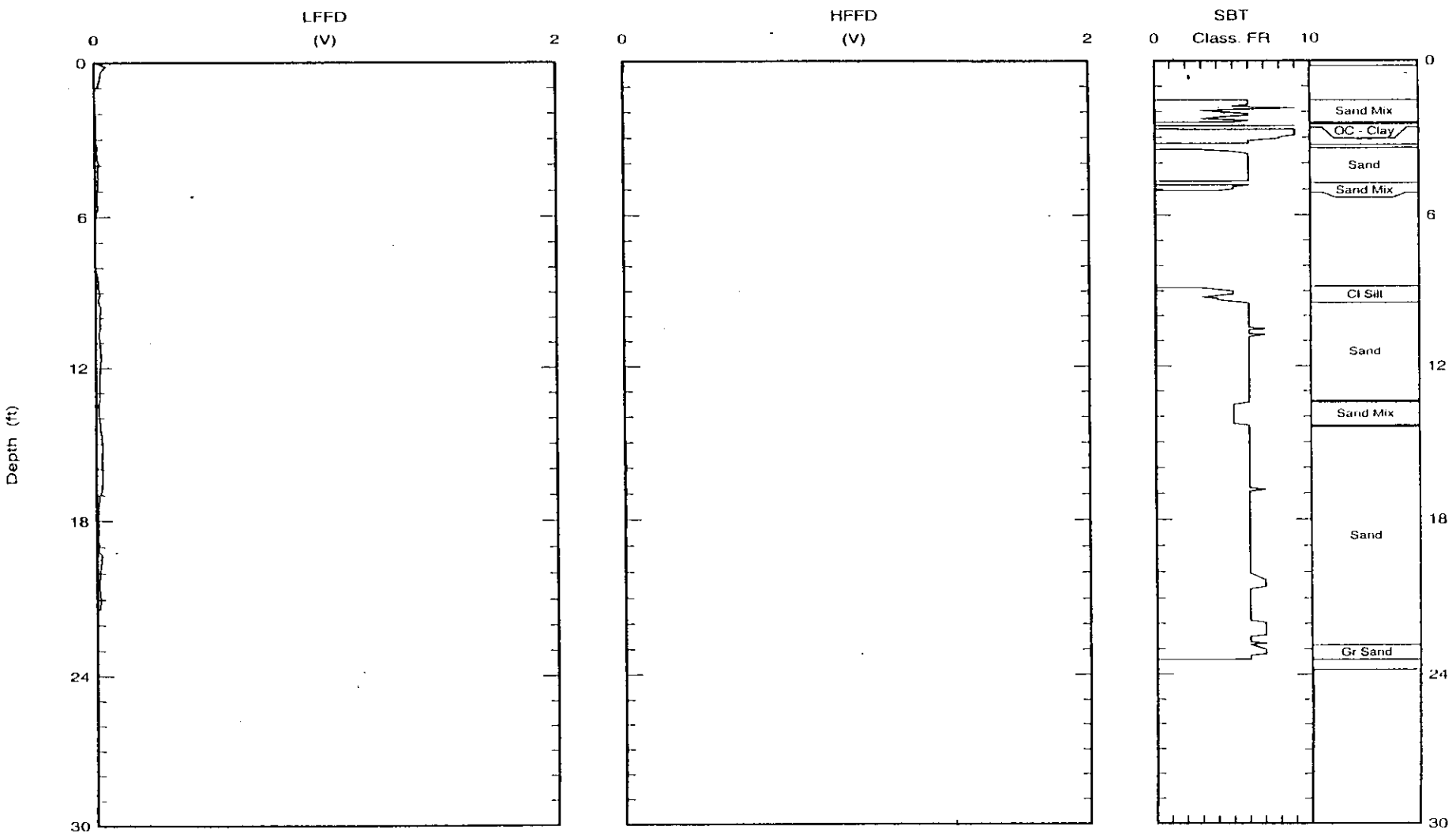
Email: cpt@ned.ara.com
http://www.ara.com

Northing:
Easting:
Elevation:

Date: 03/Nov/2003
Test ID: HD-13
Project: RROUX

Client: ROUX
Site: SUNNYSIDE



Maximum depth: 23.81 (ft)

Class FR: Friction Ratio Classification (Ref: Robertson 1990)

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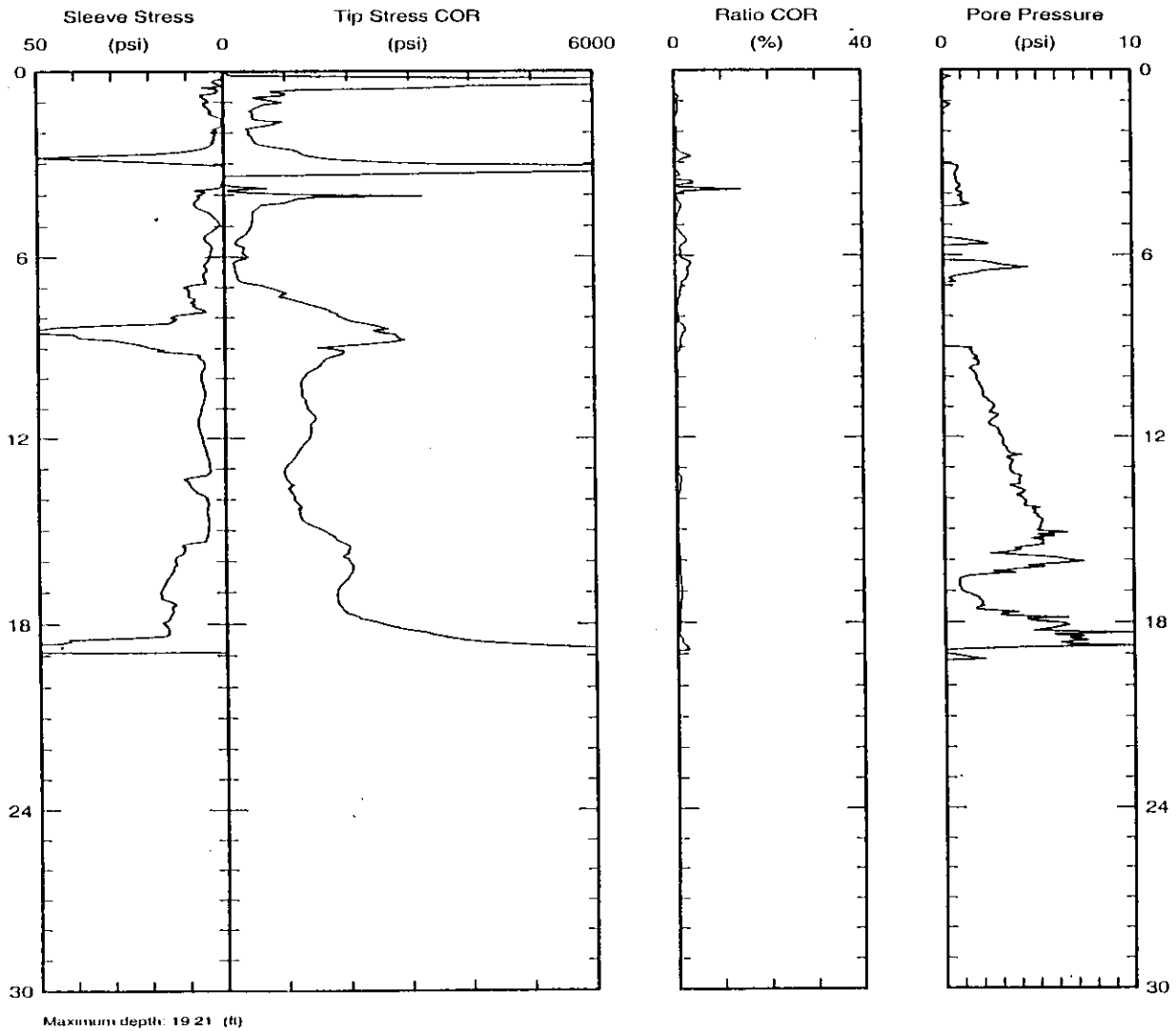
http://www.ara.com

Northing:
Easting:
Elevation:

Date: 05/Nov/2003
Test ID: FFD-14
Project: RROUX

Client: ROUX
Site: SUNNYSIDE



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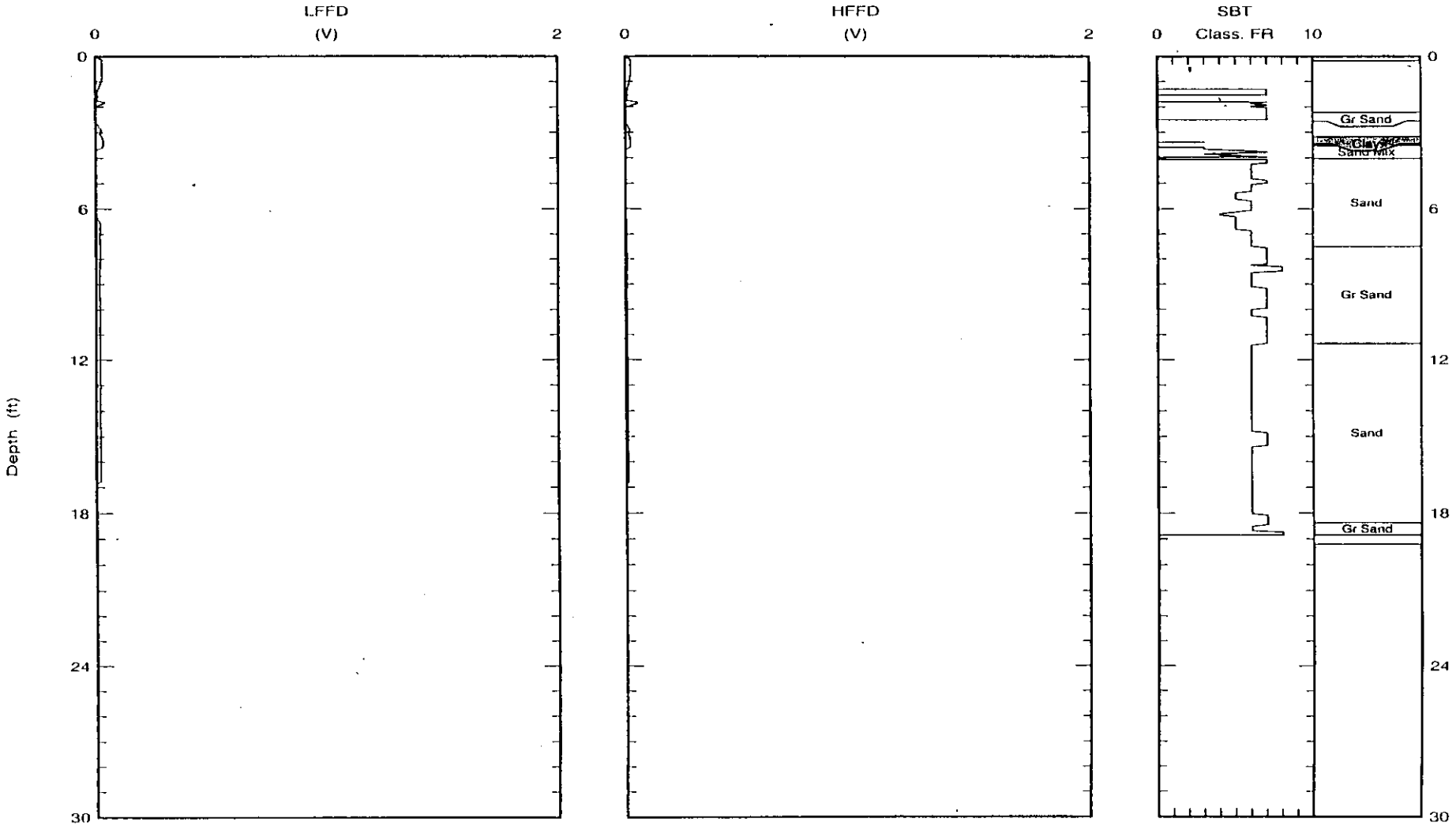
Email: cpt@ned.ara.com
http://www.ara.com

Northing:
Easting:
Elevation:

Date: 05/Nov/2003
Test ID: FFD-14
Project: RROUX

Client: ROUX
Site: SUNNYSIDE



Maximum depth: 19.21 (ft)

Class FR: Friction Ratio Classification (Ref: Robertson 1990)

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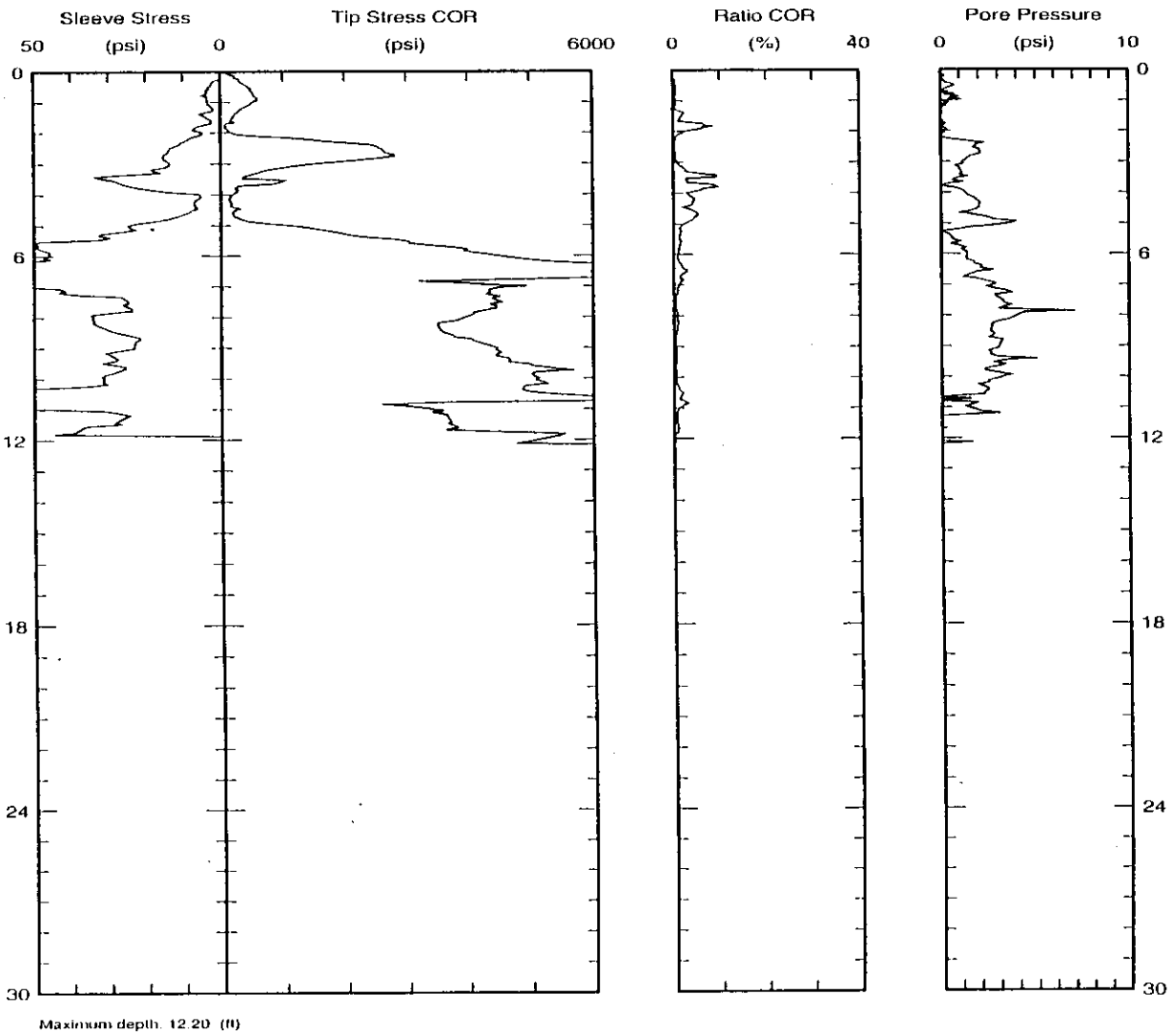
Email: cpt@ned.ara.com
http://www.ara.com

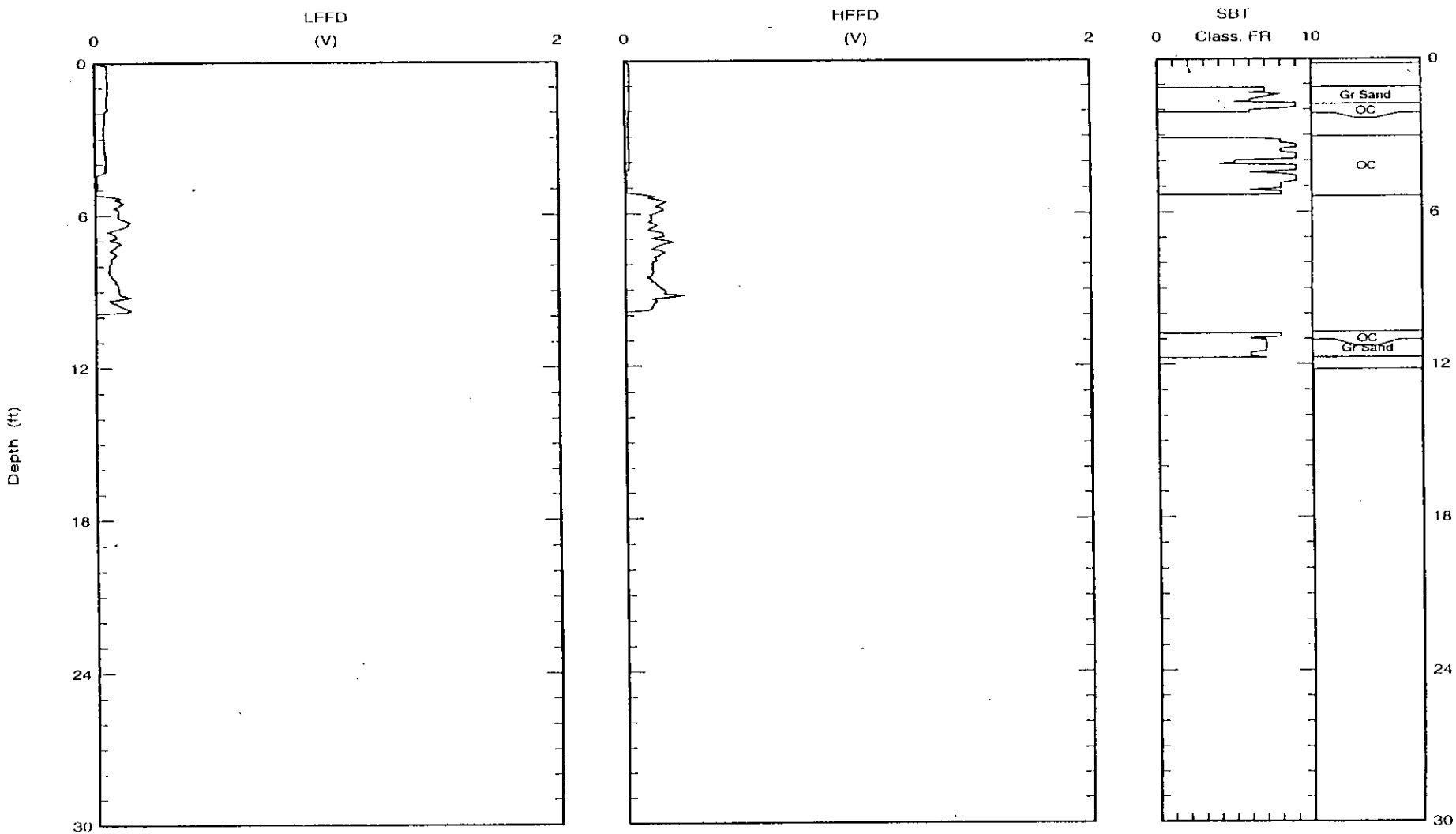
Northing:
Easting:
Elevation:

Date: 05/Nov/2003
Test ID: HD-15
Project: RROUX

Client: ROUX
Site: SUNNYSIDE



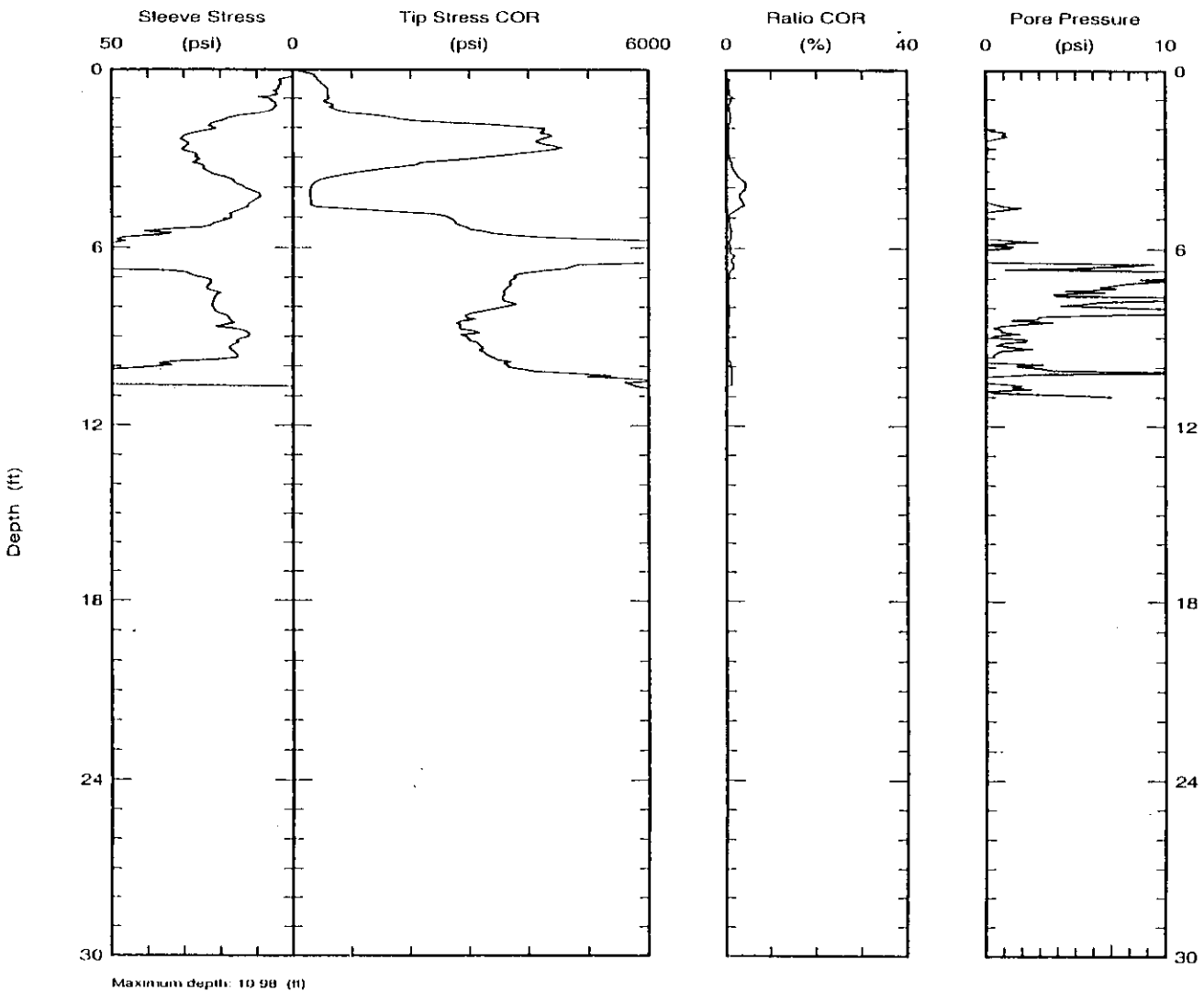
Applied Research Associates South Royalton, VT 05068 802-763-8348 Email: cpt@ned.ara.com http://www.ara.com	Northing: Easting: Elevation:	Date: 05/Nov/2003 Test ID: HD-15 Project: RROUX
	Client: ROUX Site: SUNNYSIDE	



Maximum depth: 12.20 (ft)

Class FR: Friction Ratio Classification (Ref: Robertson 1990)

Applied Research Associates South Royalton, VT 05068 802-763-8348 Email: cpt@ned.ara.com http://www.ara.com	Northing: Easting: Elevation:	Date: 05/Nov/2003 Test ID: FFD-15A Project: RROUX
	Client: ROUX Site: SUNNYSIDE	



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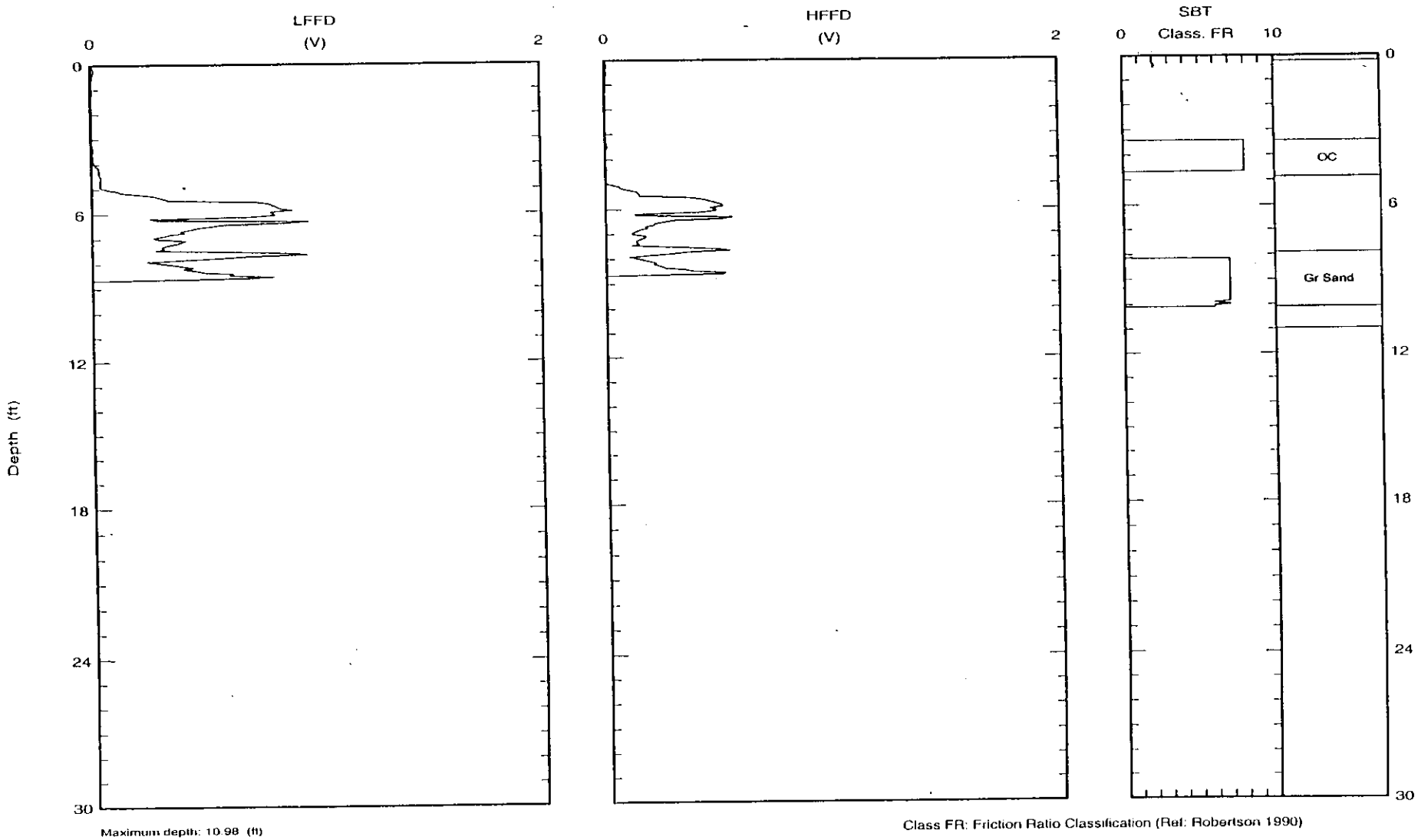
Email: cpt@ned.ara.com
http://www.ara.com

Northing:
Easting:
Elevation:

Date: 05/Nov/2003
Test ID: FFD-15A
Project: RROUX

Client: ROUX
Site: SUNNYSIDE



Maximum depth: 10.98 (ft)

Class FR: Friction Ratio Classification (Ref: Robertson 1990)

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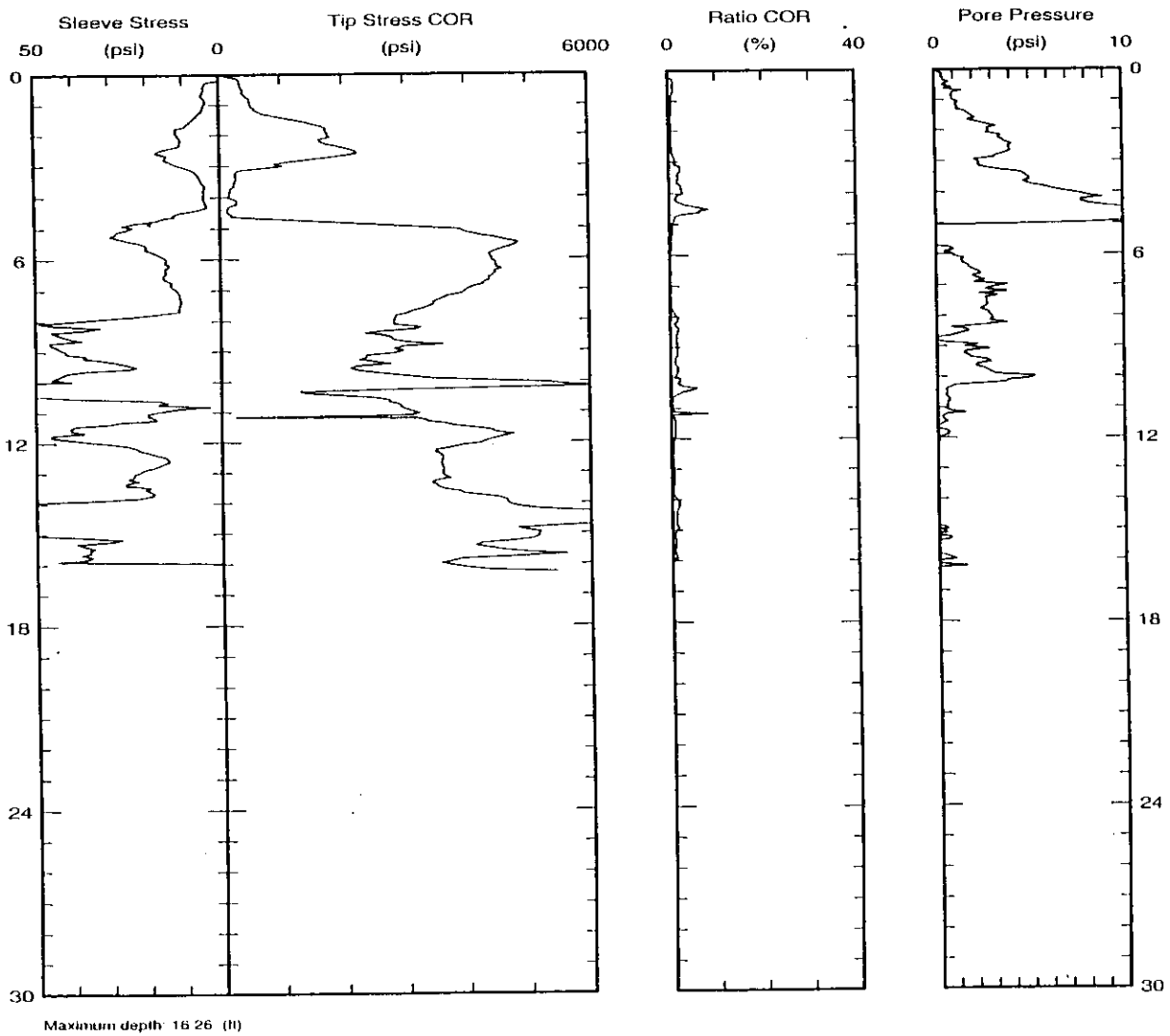
802-763-8348
Email: cpt@ned.ara.com
http://www.ara.com

Northing:
Easting:
Elevation:

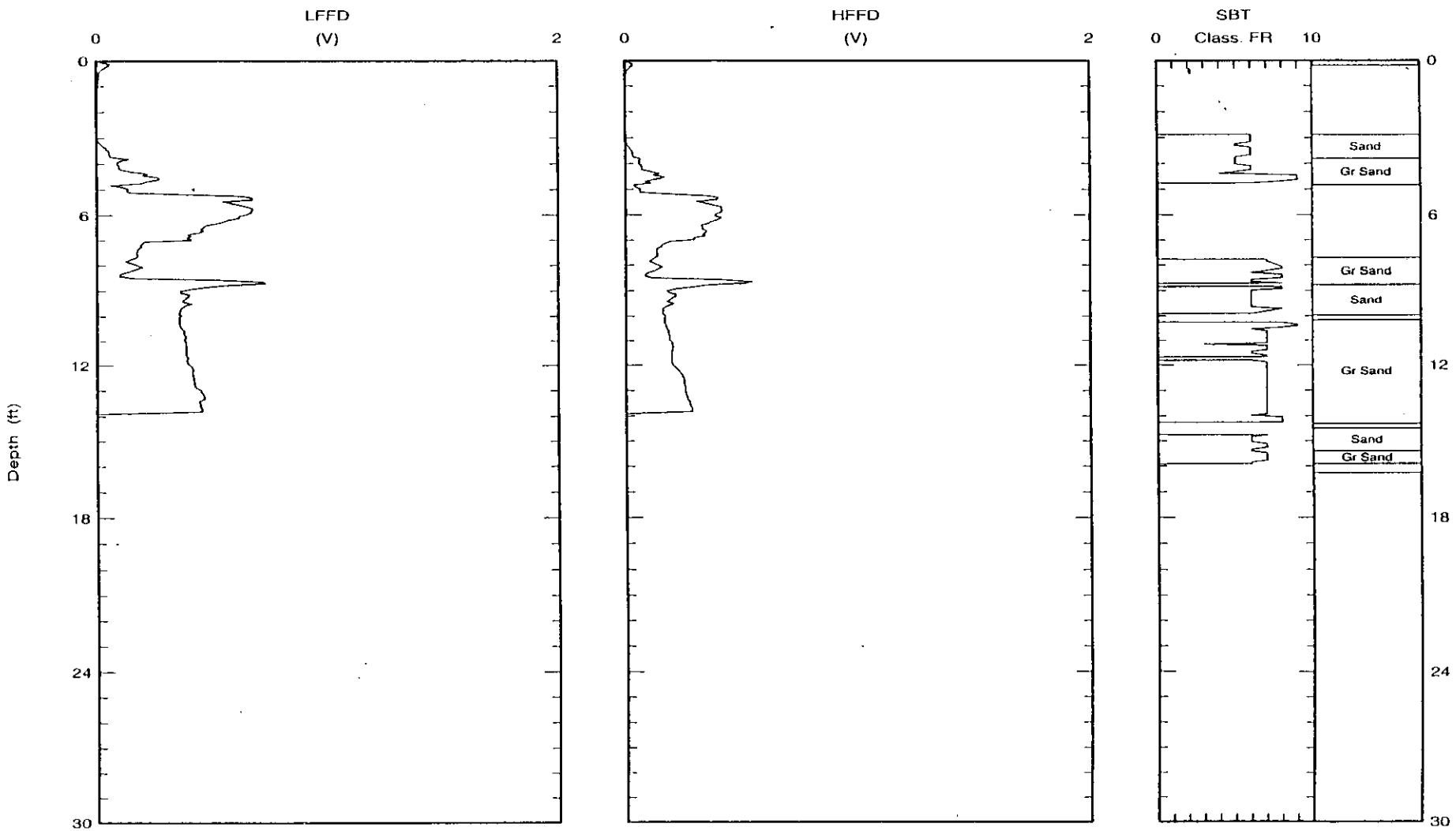
Date: 05/Nov/2003
Test ID: HD-15B
Project: RROUX

Client: ROUX
Site: SUNNYSIDE



Maximum depth: 16.26 (ft)

Applied Research Associates South Royalton, VT 05068 802-763-8348 Email: cpt@ned.ara.com http://www.ara.com	Northing: Easting: Elevation:	Date: 05/Nov/2003 Test ID: HD-15B Project: RROUX
	Client: ROUX Site: SUNNYSIDE	



Maximum depth: 16.26 (ft)

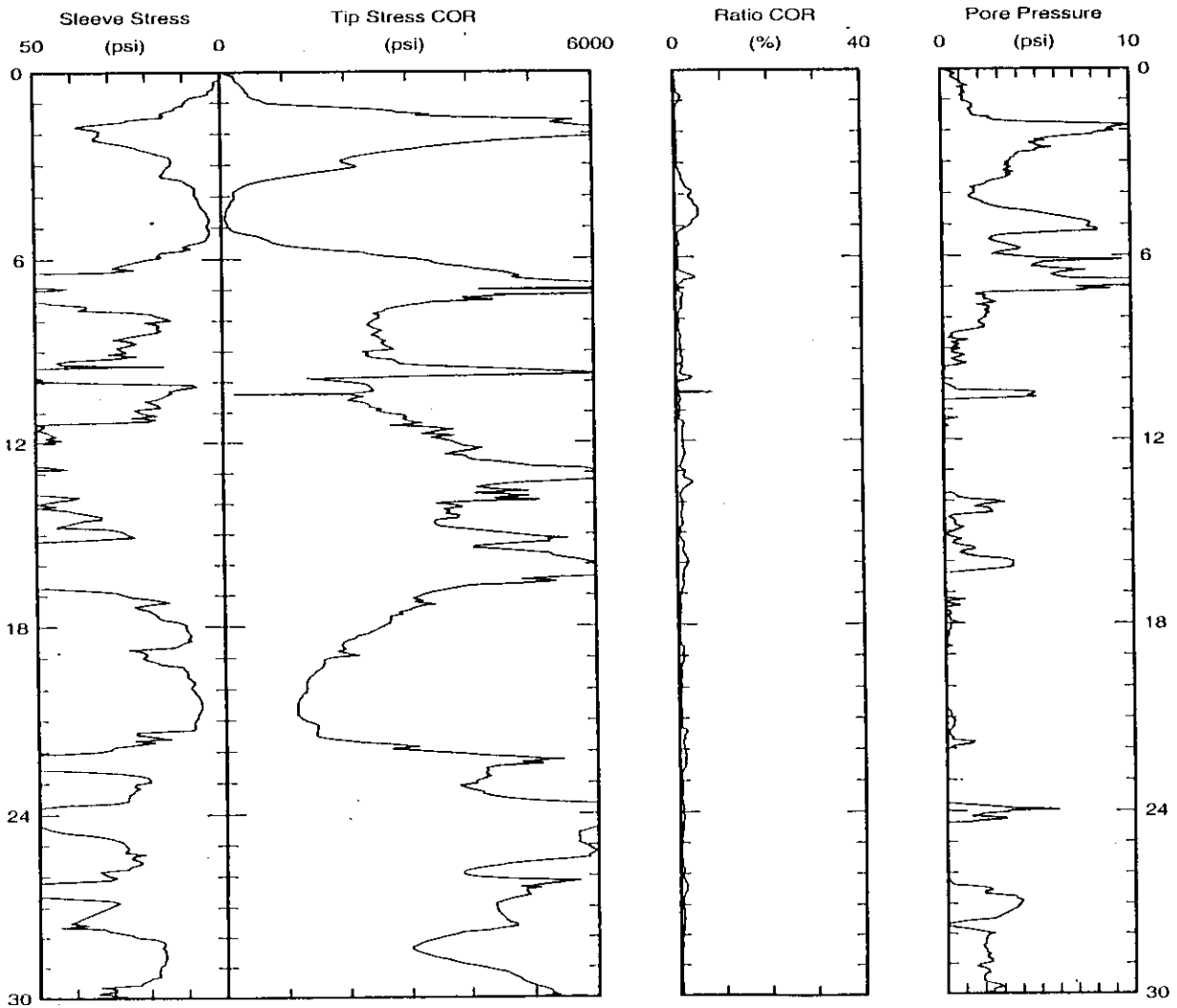
Class FR: Friction Ratio Classification (Ref: Robertson 1990)

Applied Research Associates
South Royalton, VT 05068
802-763-8348
Email: cpt@ned.ara.com
http://www.ara.com

Northing:
Easting:
Elevation:

Date: 05/Nov/2003
Test ID: HD-15C
Project: RROUX

Client: ROUX
Site: SUNNYSIDE



Maximum depth: 37.00 (ft)

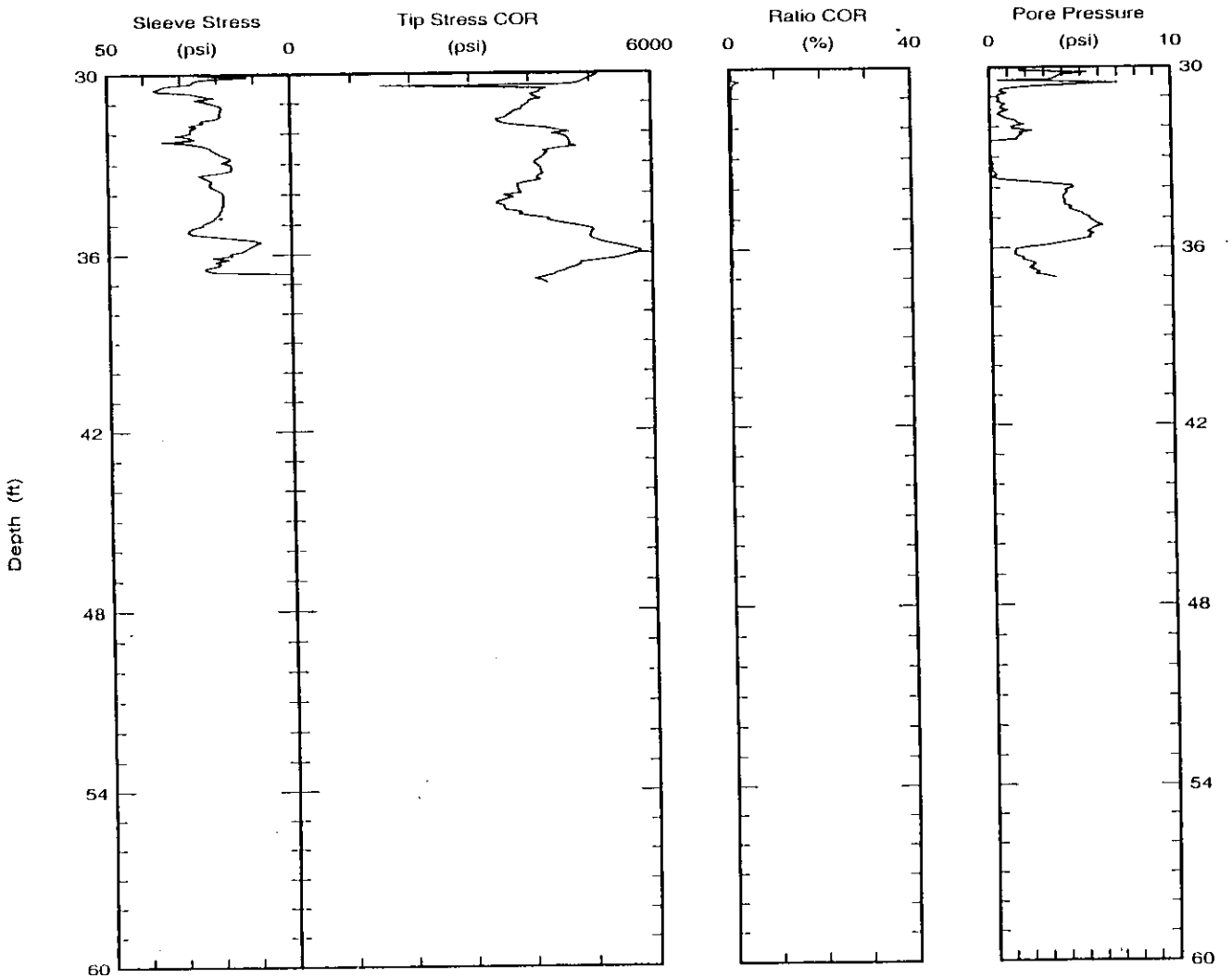
Test ID: HD-15C
File: 305N0306C.ECP

Applied Research Associates
South Royalton, VT 05068
802-763-8348
Email: cpt@ned.ara.com
http://www.ara.com

Northing:
Easting:
Elevation:

Date: 05/Nov/2003
Test ID: HD-15C
Project: RROUX

Client: ROUX
Site: SUNNYSIDE



Maximum depth: 37.00 (ft)

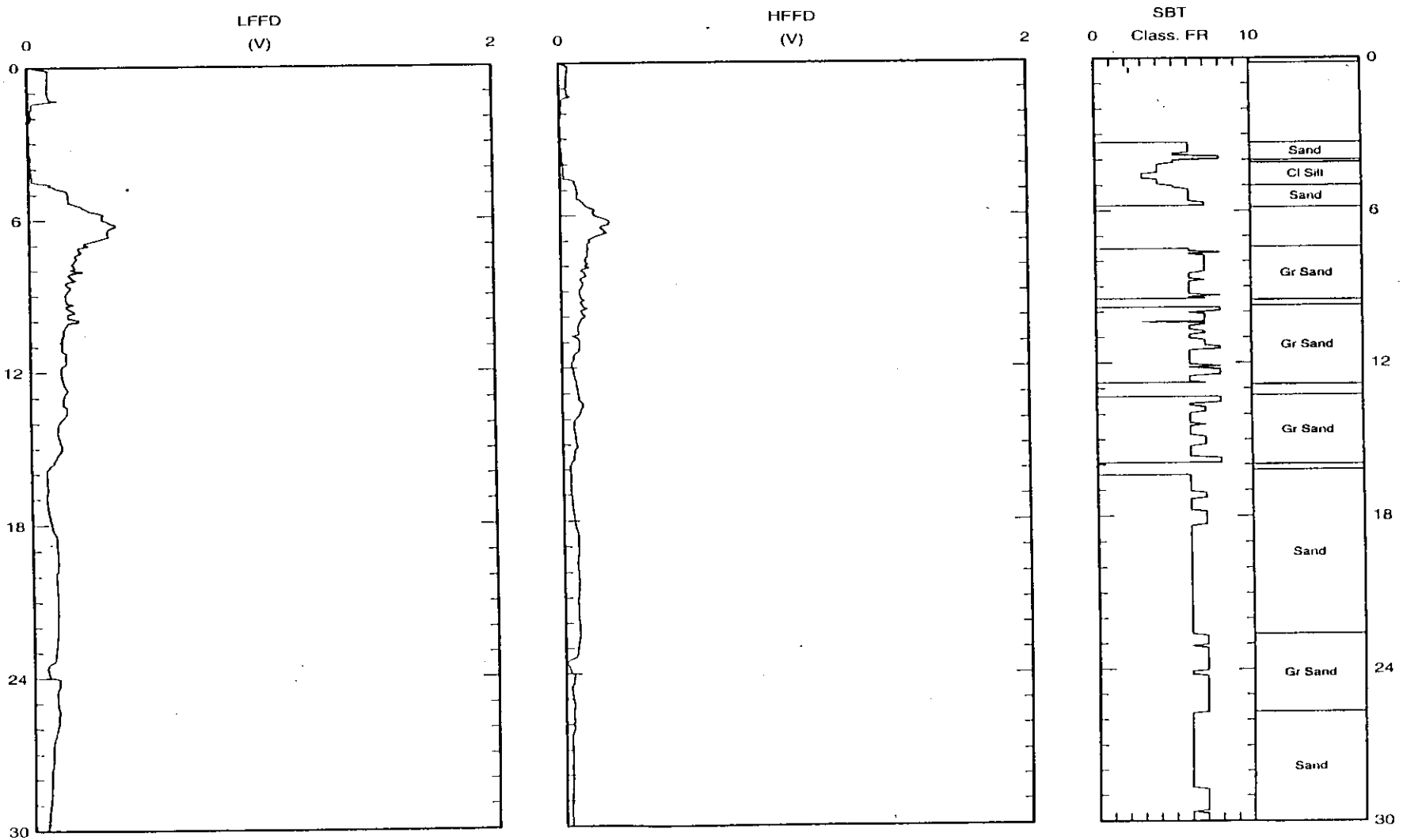
Test ID: HD-15C
File: 305N0306C.ECP

Applied Research Associates
South Royalton, VT 05068
802-763-8348
Email: cpt@ned.ara.com
http://www.ara.com

Northing:
Easting:
Elevation:

Date: 05/Nov/2003
Test ID: HD-15C
Project: RROUX

Client: ROUX
Site: SUNNYSIDE

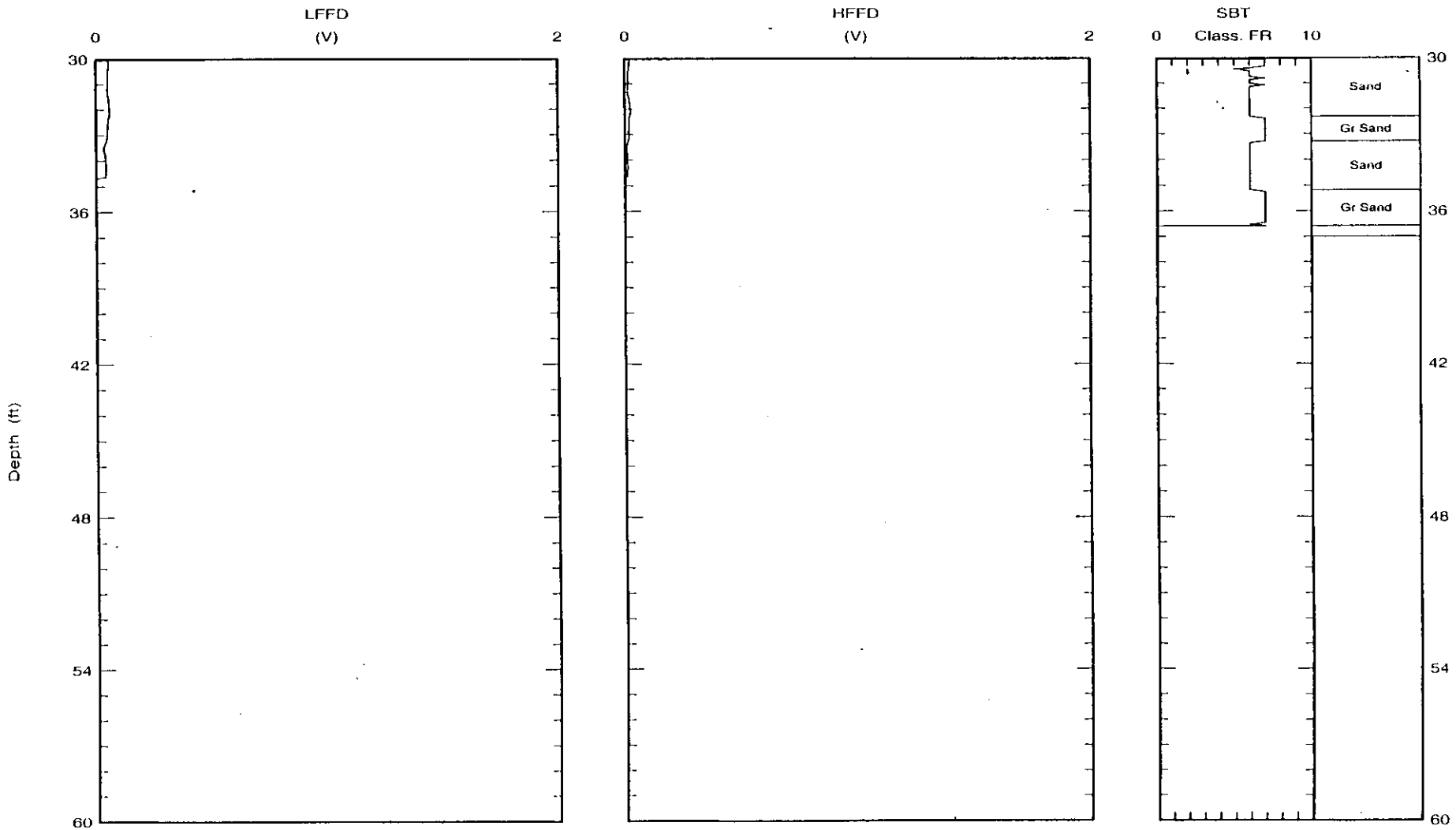


Maximum depth: 37.00 (ft)

Class FR: Friction Ratio Classification (Ref: Robertson 1990)

Test ID: HD-15C
File: 305N0306C.ECP

Applied Research Associates South Royalton, VT 05068 802-763-8348 Email: cpt@ned.ara.com http://www.ara.com	Northing: Easting: Elevation:	Date: 05/Nov/2003 Test ID: HD-15C Project: RROUX
	Client: ROUX Site: SUNNYSIDE	



Maximum depth: 37.00 (ft)

Class FR: Friction Ratio Classification (Ref: Robertson 1990)

Test ID: HD-15C
File: 305N0306C.ECP

Applied Research Associates
South Royalton, VT 05068
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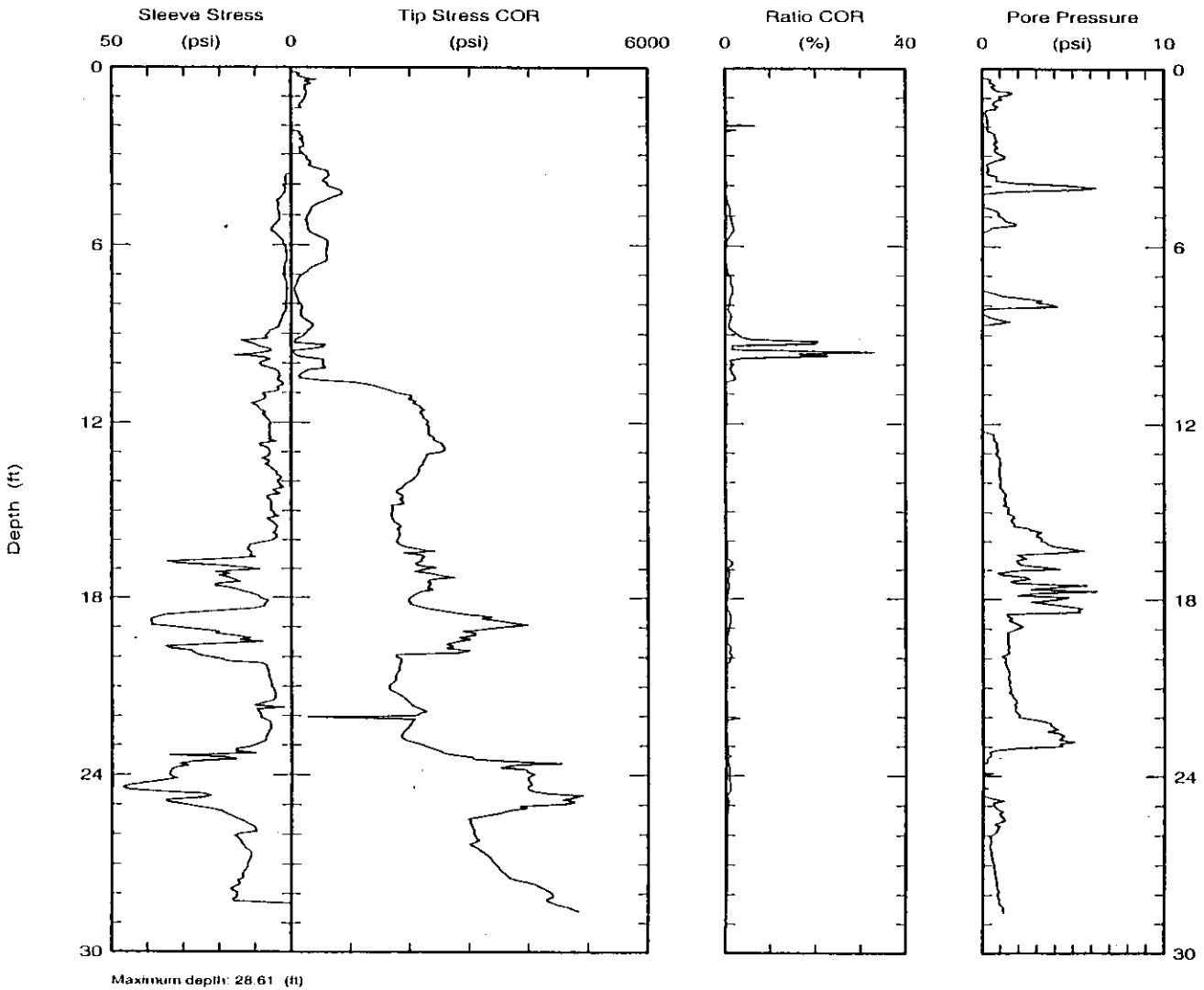
Email: cpt@ned.ara.com
http://www.ara.com

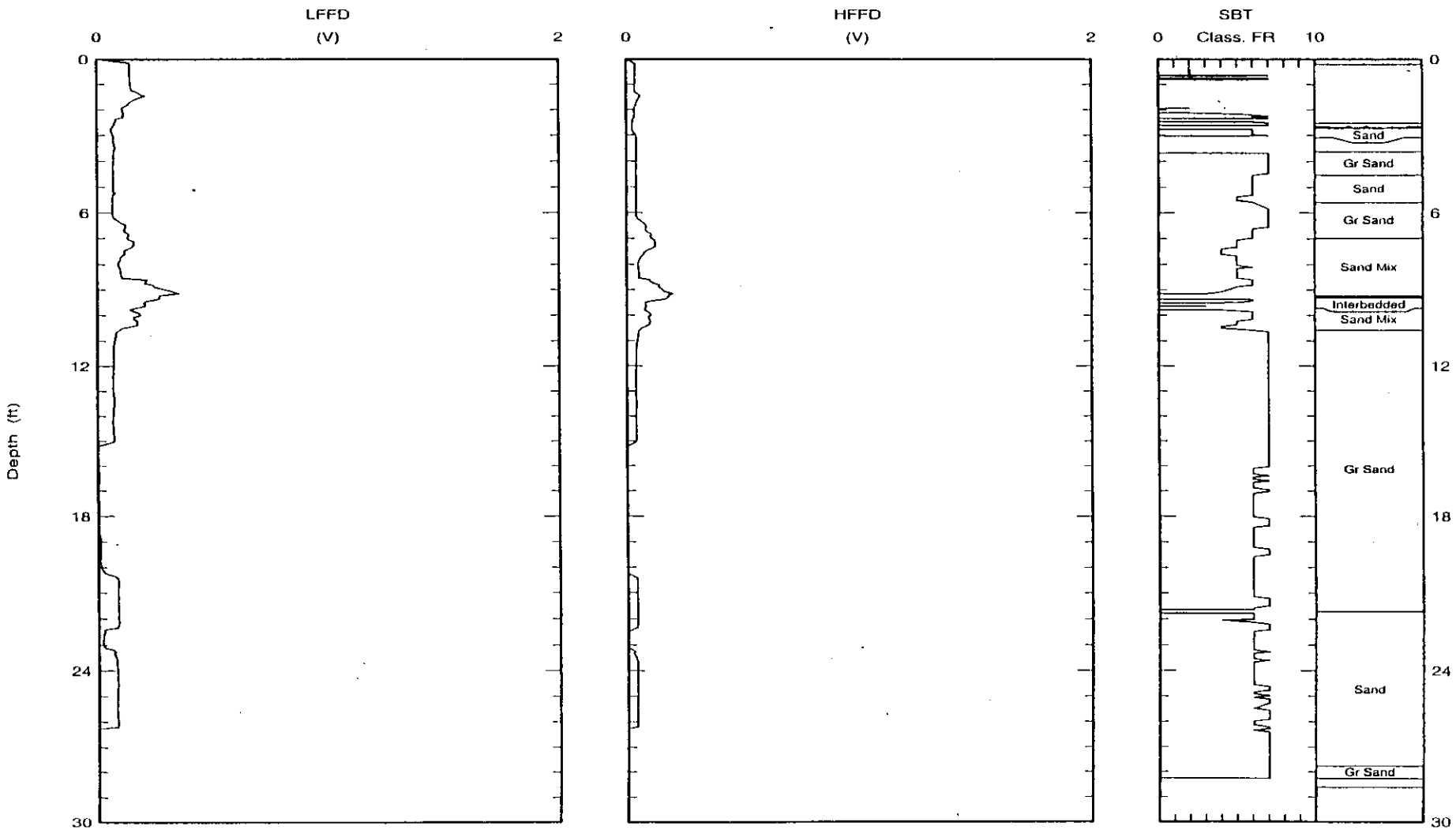
Northing:
Easting:
Elevation:

Date: 04/Nov/2003
Test ID: HD-16
Project: RROUX

Client: ROUX
Site: SUNNYSIDE



Applied Research Associates South Royalton, VT 05068 802-763-8348 Email: cpt@ned.ara.com http://www.ara.com	Northing: Easting: Elevation:	Date: 04/Nov/2003 Test ID: HD-16 Project: RROUX
	Client: ROUX Site: SUNNYSIDE	



Maximum depth: 28.61 (ft)

Class FR: Friction Ratio Classification (Ref: Robertson 1990)

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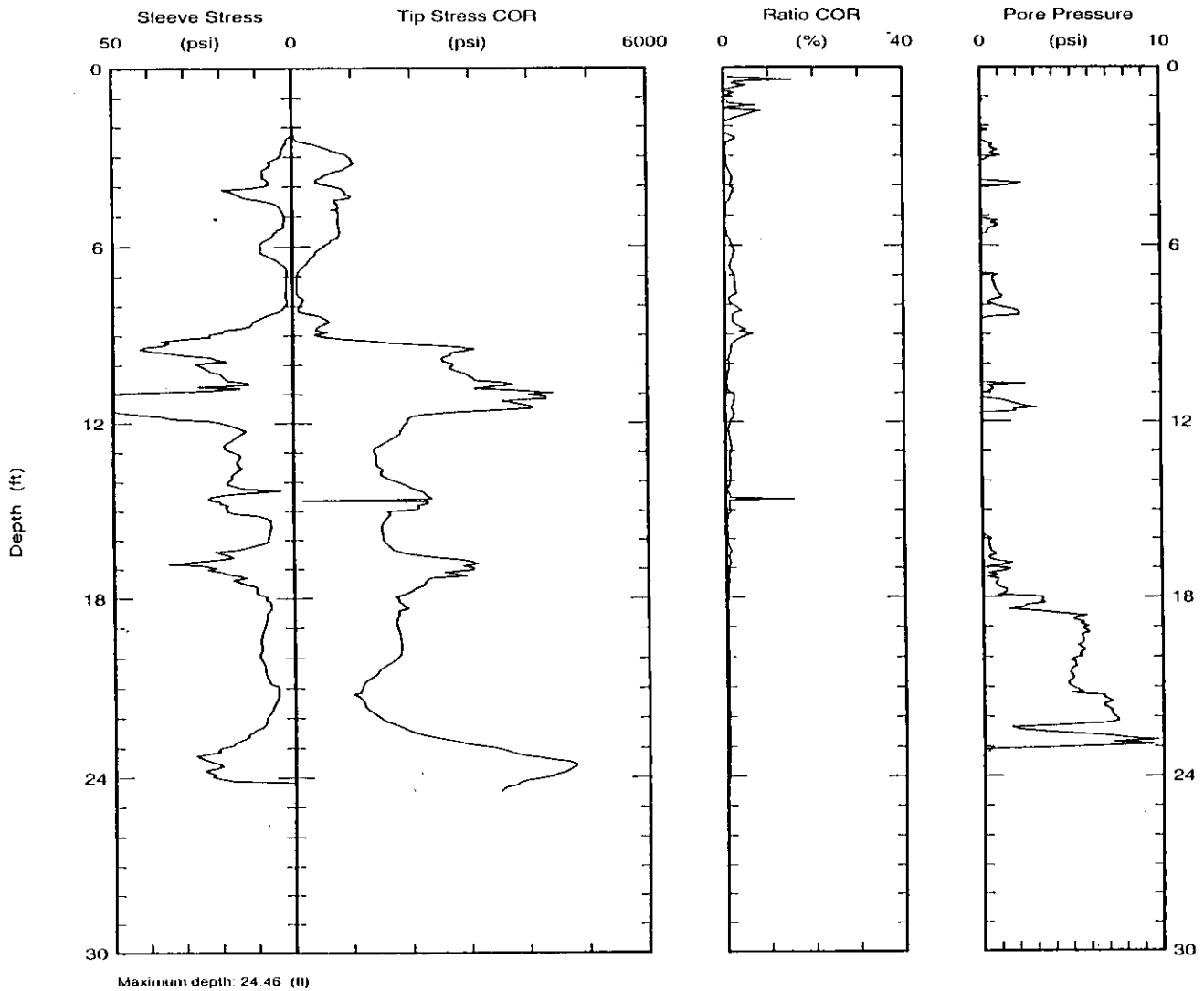
http://www.ara.com

Northing:
Easting:
Elevation:

Date: 05/Nov/2003
Test ID: FFD-17
Project: RROUX

Client: ROUX
Site: SUNNYSIDE



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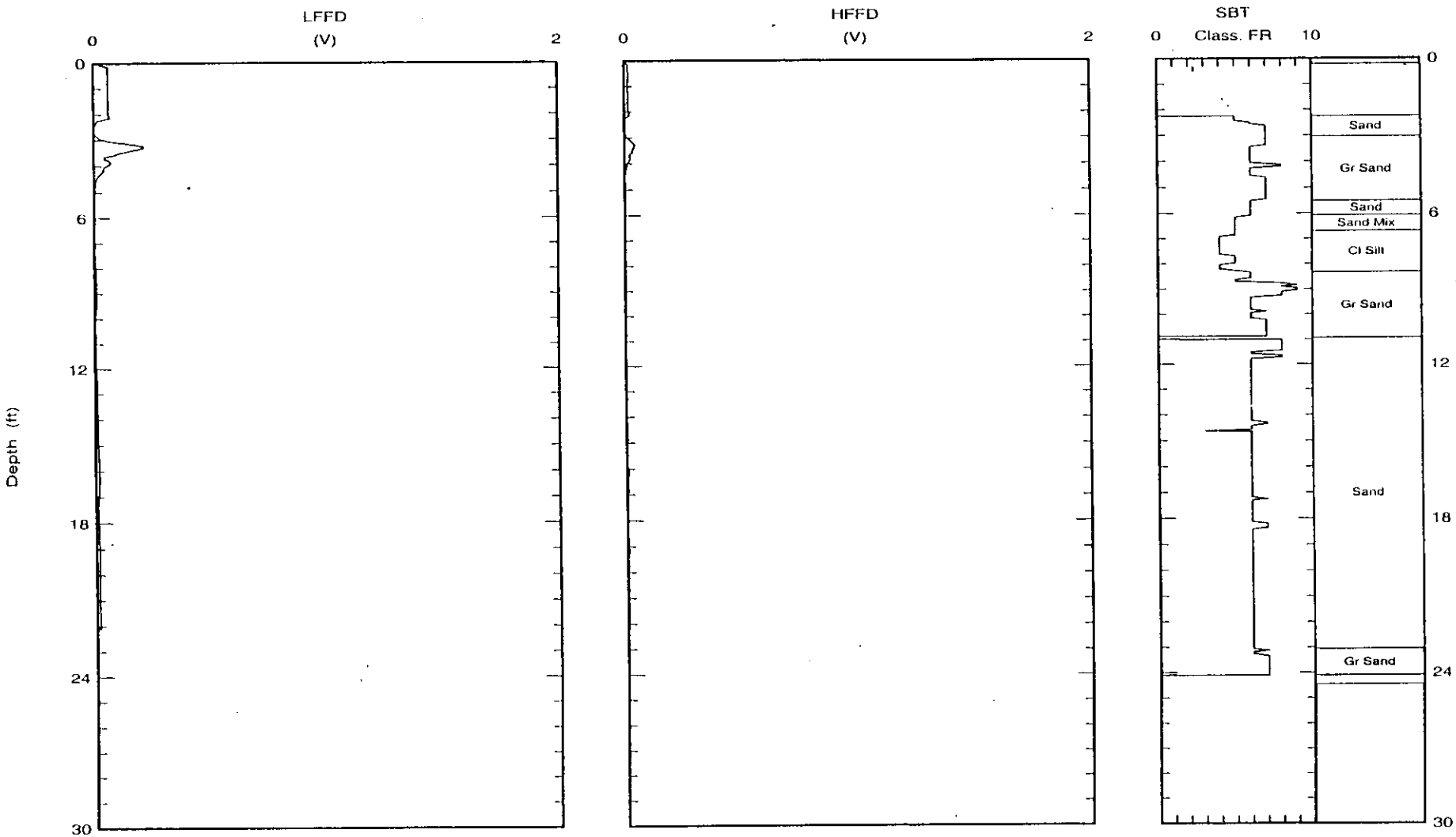
Email: cpt@ned.ara.com
http://www.ara.com

Northing:
Easting:
Elevation:

Date: 05/Nov/2003
Test ID: FFD-17
Project: RROUX

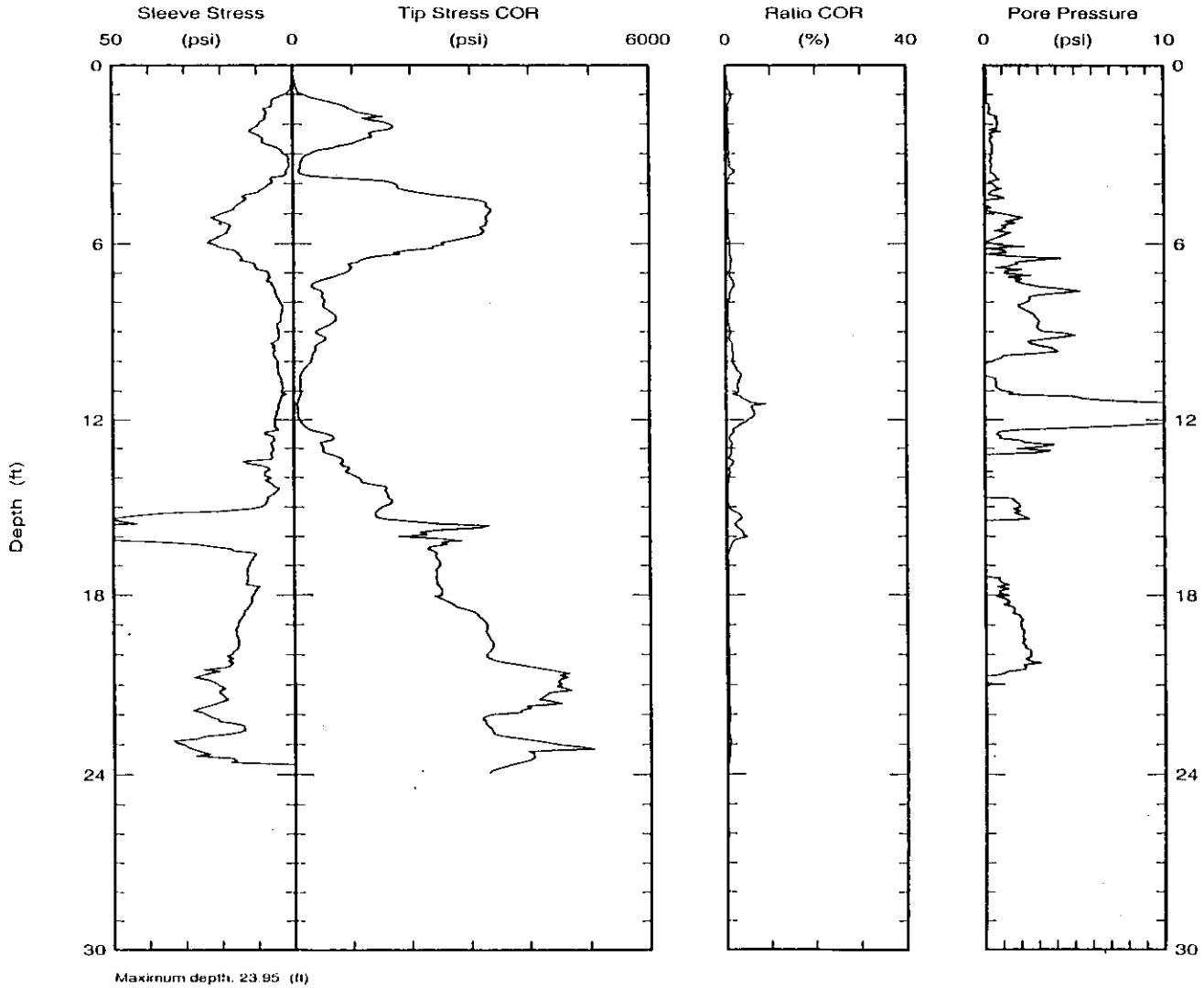
Client: ROUX
Site: SUNNYSIDE



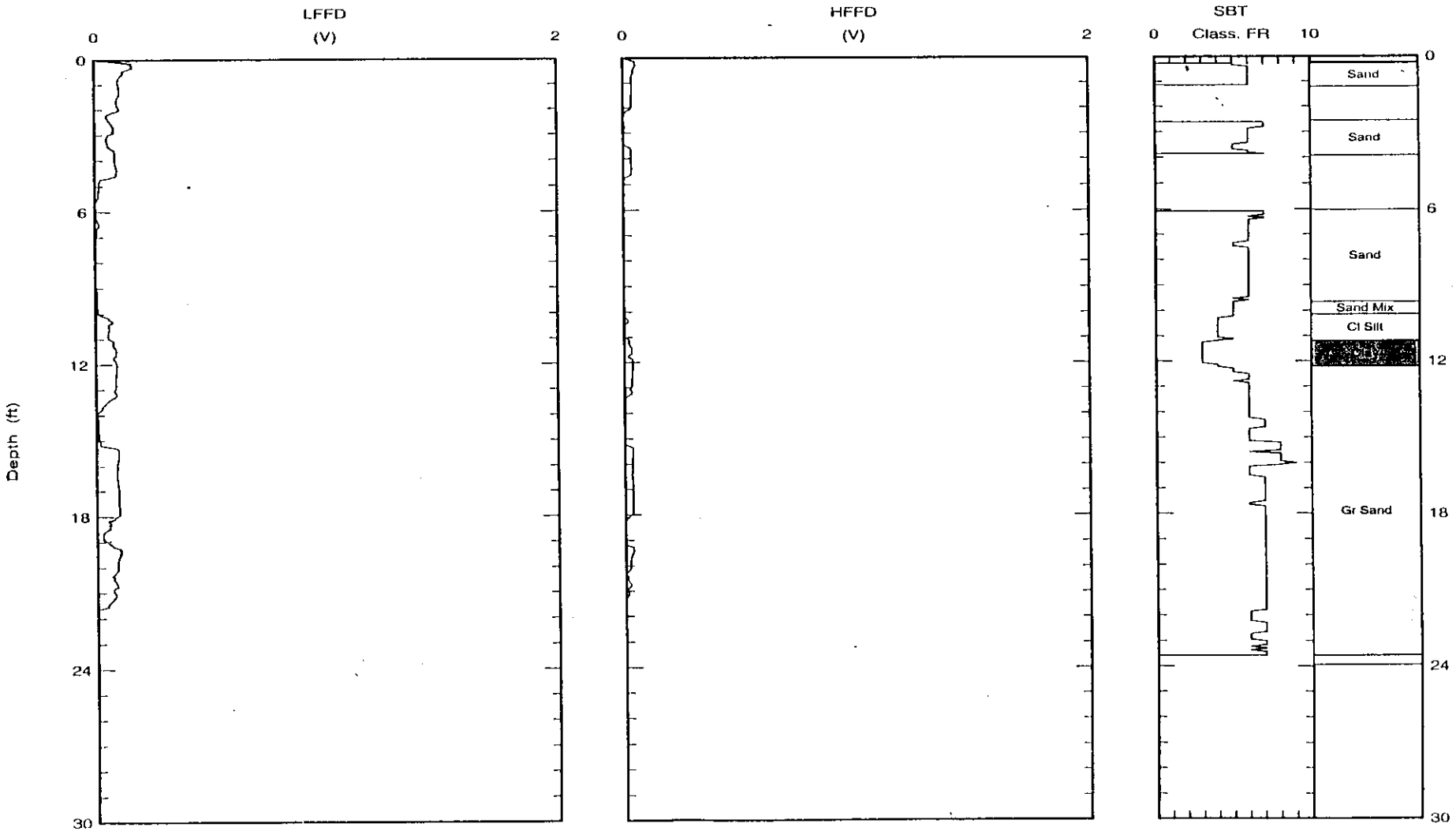
Maximum depth: 24.46 (ft)

Class FR: Friction Ratio Classification (Ref: Robertson 1990)

Applied Research Associates South Royalton, VT 05068 802-763-8348 Email: cpt@ned.ara.com http://www.ara.com	Northing: Easting: Elevation:	Date: 03/Nov/2003 Test ID: HD-18 Project: RROUX
	Client: ROUX Site: SUNNYSIDE	



Applied Research Associates South Royalton, VT 05068 802-763-8348 Email: cpt@ned.ara.com http://www.ara.com	Northing: Easting: Elevation:	Date: 03/Nov/2003 Test ID: HD-18 Project: RROUX
	Client: ROUX Site: SUNNYSIDE	



Maximum depth: 23.95 (ft)

Class FR: Friction Ratio Classification (Ref: Robertson 1990)

Applied Research Associates
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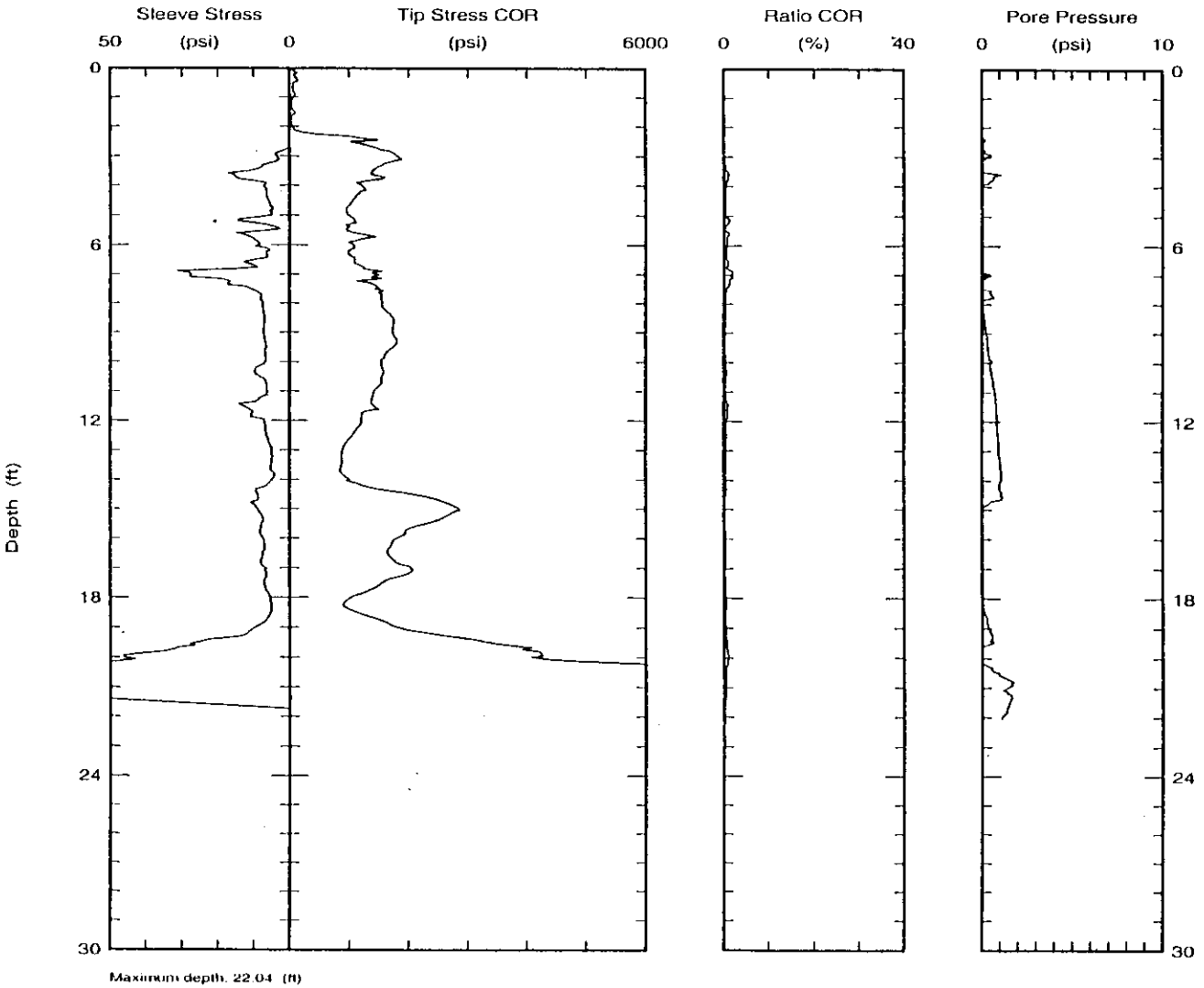
Email: cpt@ned.ara.com
http://www.ara.com

Northing:
Easting:
Elevation:

Date: 04/Nov/2003
Test ID: FFD-19
Project: RROUX

Client: ROUX
Site: SUNNYSIDE



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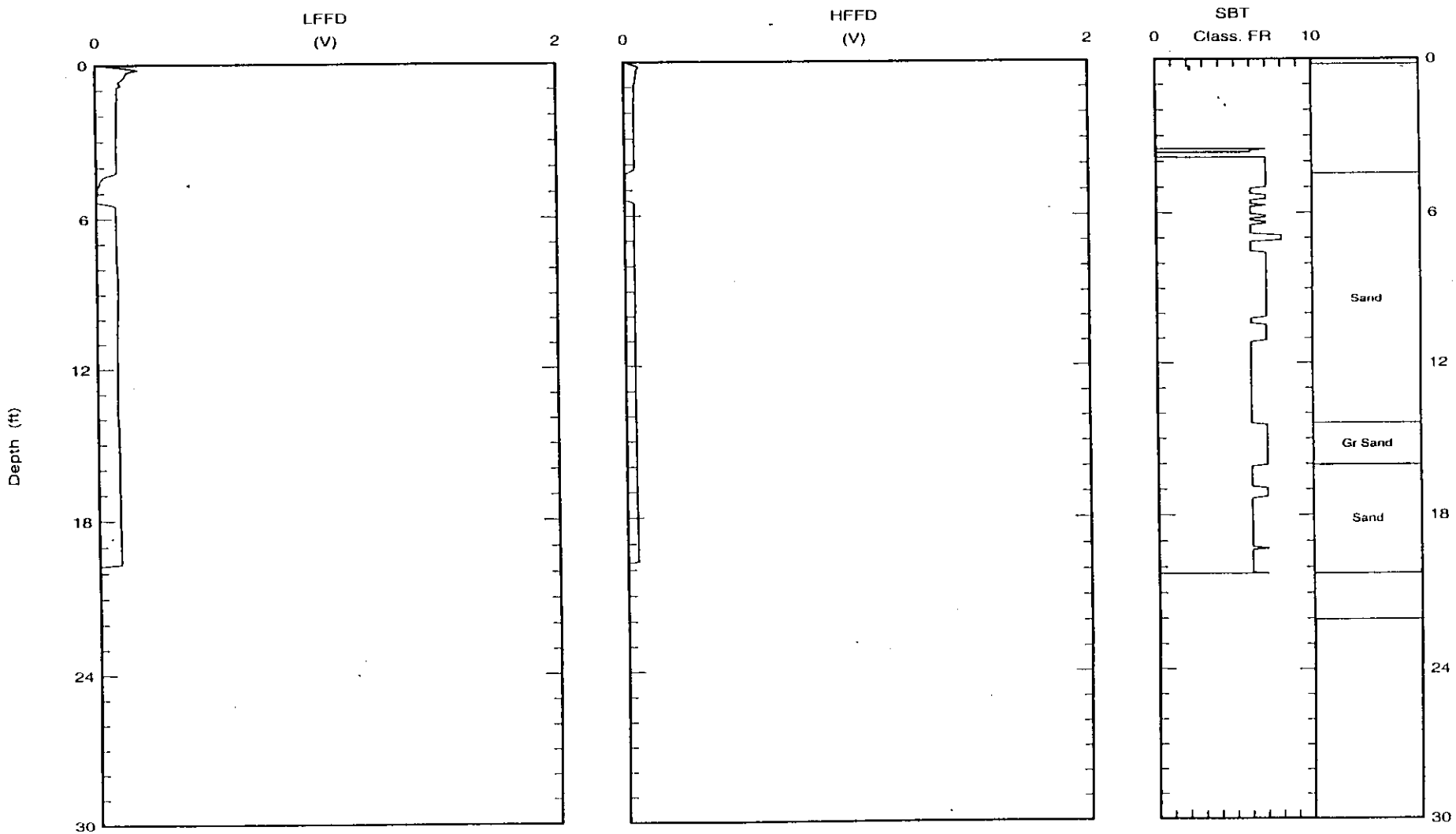
Email: cpt@ned.ara.com
http://www.ara.com

Northing:
Easting:
Elevation:

Date: 04/Nov/2003
Test ID: FFD-19
Project: RROUX

Client: ROUX
Site: SUNNYSIDE



Maximum depth: 22.04 (ft)

Class FR: Friction Ratio Classification (Ref: Robertson 1990)

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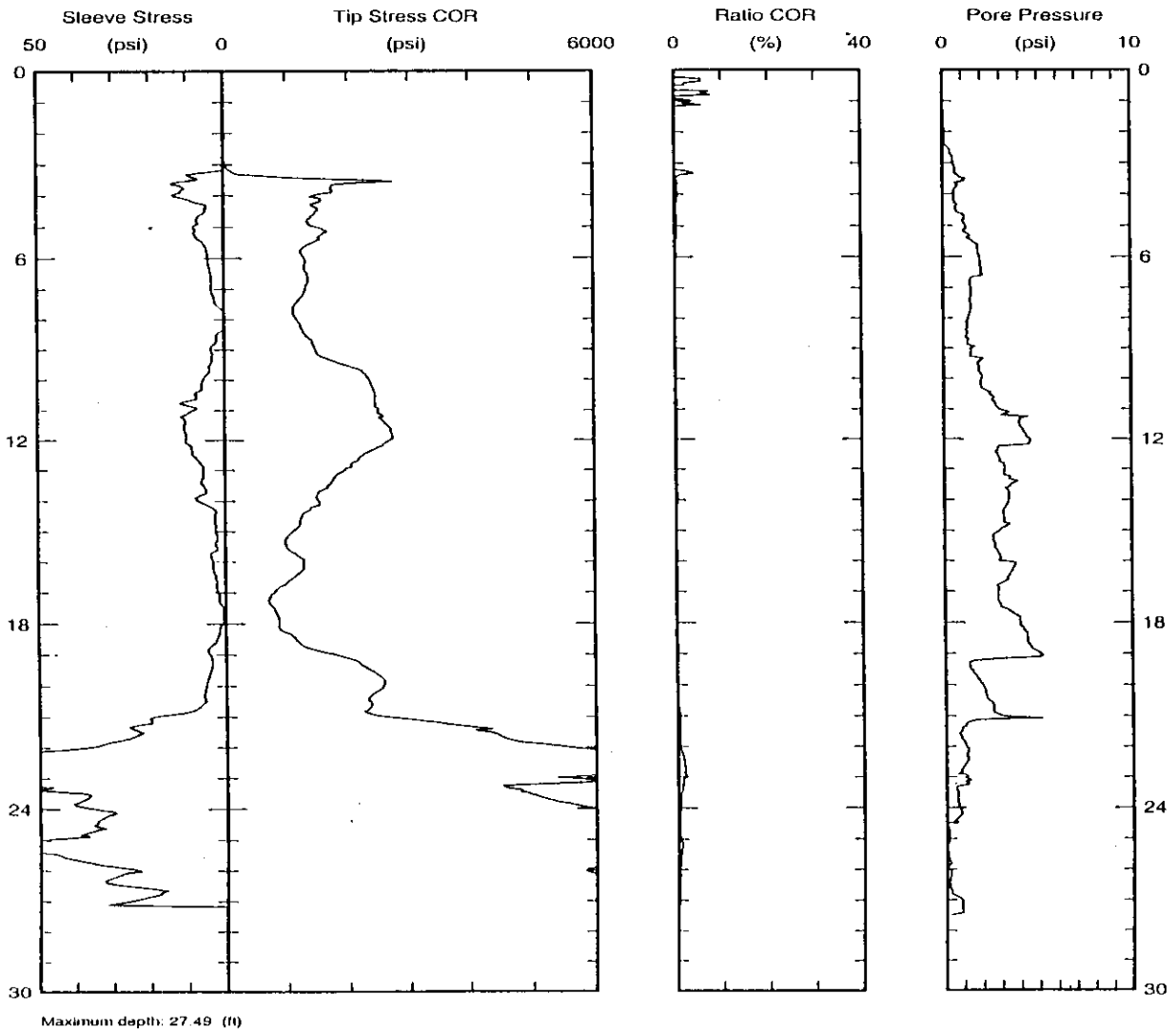
Email: cpt@ned.ara.com
http://www.ara.com

Northing:
Easting:
Elevation:

Date: 04/Nov/2003
Test ID: HD-20
Project: RROUX

Client: ROUX
Site: SUNNYSIDE



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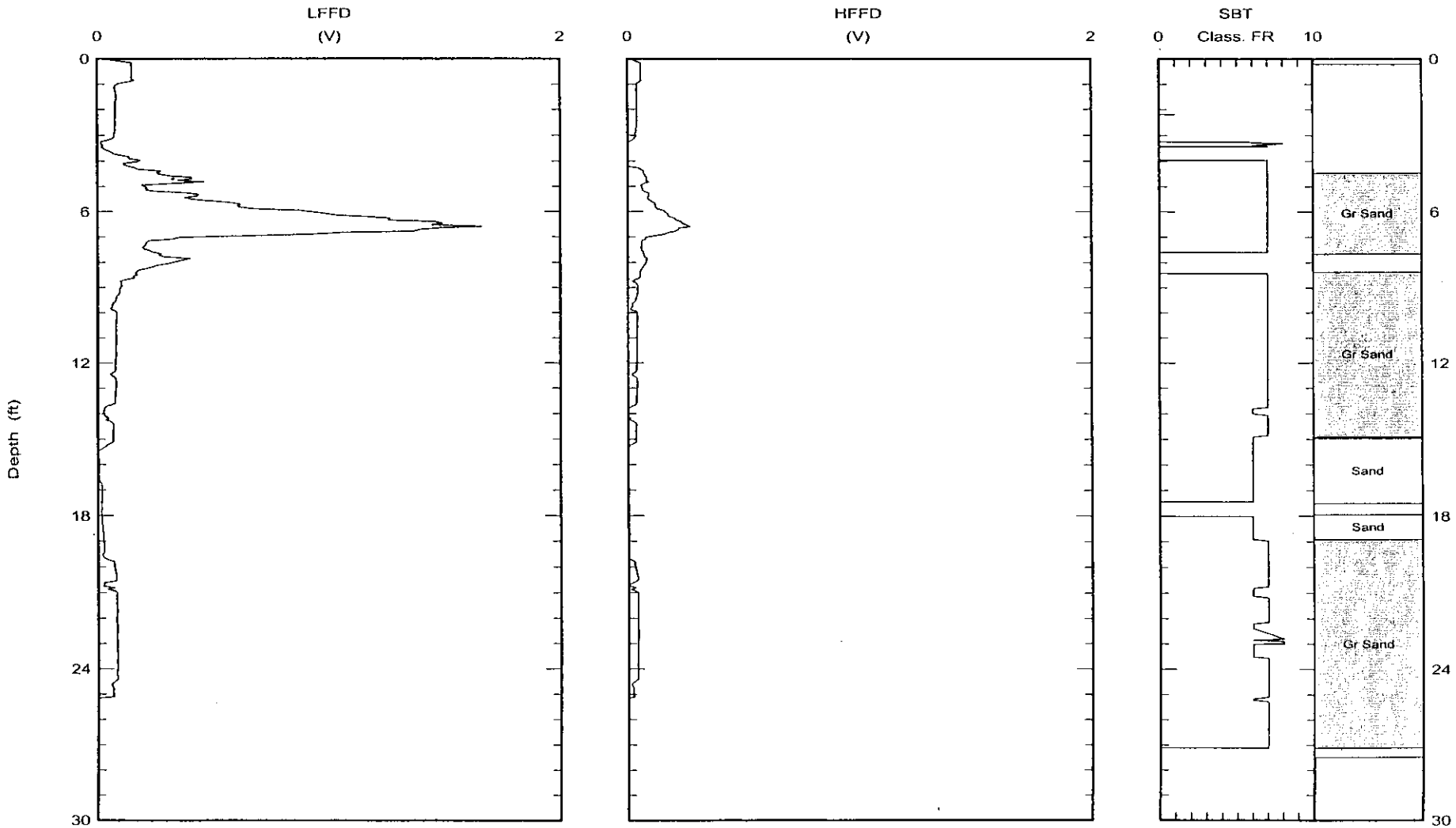
Northing:	Date: 04/Nov/2003
Easting:	Test ID: HD-20
Elevation:	Project: RROUX
Client: ROUX	
Site: SUNNYSIDE	



Maximum depth: 27.49 (ft)

Class FR: Friction Ratio Classification (Ref: Robertson 1990)

Electric Cone Penetrometer Data

Cone_TAP v 2.90

Test Id: HD-01 Date: 5-Nov-03

Site: SUNNYSIDE Cone Id: 108.021XXX

Location: QUEENS NY GWT (ft): 5

Project: ROUX Soil Density(pcf): 120

Client: ROUX

Depth (ft)	Sleeve Stress (psi)	Tip Stress UNC (psi)	Tip Stress COR (psi)	Ratio COR (%)	Pore Pressure (psi)	LFFD (V)	HFFD (V)	Excitation (Vdc)	Overburden (psi)	Eff. Overburden (psi)	Wet Density (pcf)	Class. FR (Rob. 1990)	Class. PP (Rob. 1990)
0	0	0	0	0	0	0	0	0.997	0.00E+00	0.00E+00	120	-99	-99
0.0004	0	-1.7	-1.7	0	0.06	-0.0028	0.002	0.997	3.34E-04	3.34E-04	120	-99	-99
0.0835	0	93.6	93.7	0	0.28	-0.0069	0.0011	0.997	6.96E-02	6.96E-02	120	-99	-99
0.15857	0	130.2	130.3	0	0.48	-0.0329	-0.0032	0.997	1.32E-01	1.32E-01	120	-99	7
0.23002	0	206.8	207	0	0.99	-0.0438	-0.0022	0.997	1.92E-01	1.92E-01	120	-99	-99
0.30429	1.11	281.4	281.7	0.39	1.3	-0.0422	-0.0054	0.997	2.54E-01	2.54E-01	120	-99	-99
0.37695	1.24	315.3	315.6	0.39	1.72	-0.0424	-0.0051	0.997	3.14E-01	3.14E-01	120	-99	-99
0.4472	1.02	333.3	333.6	0.31	1.95	-0.0421	-0.0042	0.997	3.73E-01	3.73E-01	120	7	7
0.51745	0.97	324.2	324.6	0.3	1.92	-0.0492	-0.0068	0.997	4.31E-01	4.31E-01	120	7	7
0.5889	0.92	271.9	272.3	0.34	2.28	-0.0769	-0.0094	0.997	4.91E-01	4.91E-01	120	7	7
0.66237	1.29	233.1	233.4	0.55	1.79	-0.092	-0.0115	0.997	5.52E-01	5.52E-01	120	7	7
0.73141	1.57	193.7	194	0.81	1.76	-0.1024	-0.0132	0.997	6.10E-01	6.10E-01	120	6	7
0.8059	1.68	161.9	162.1	1.03	1.01	-0.1174	-0.0147	0.997	6.72E-01	6.72E-01	120	6	7
0.87399	1.83	151	151.3	1.21	1.15	-0.1219	-0.0149	0.996	7.28E-01	7.28E-01	120	6	7
0.94407	1.85	135.8	136	1.36	1.41	-0.1217	-0.0151	0.996	7.87E-01	7.87E-01	120	6	6
1.01656	2.02	104.7	105.2	1.92	2.24	-0.1202	-0.0144	0.996	8.47E-01	8.47E-01	120	5	6
1.09465	2.05	127.5	128.1	1.6	3.41	-0.1185	-0.0113	0.996	9.12E-01	9.12E-01	120	6	6
1.16233	2.01	183.4	184.2	1.09	4.19	-0.1167	-0.0132	0.997	9.69E-01	9.69E-01	120	6	7
1.23241	1.71	244.1	244.6	0.7	2.32	-0.1161	-0.0138	0.997	1.03E+00	1.03E+00	120	6	7
1.29589	1.55	277.3	277.7	0.56	2.01	-0.1158	-0.0138	0.997	1.08E+00	1.08E+00	120	6	7
1.36837	1.34	278	278.4	0.48	1.81	-0.1156	-0.014	0.996	1.14E+00	1.14E+00	120	6	7
1.44146	1.08	268.4	268.7	0.4	1.86	-0.1148	-0.014	0.996	1.20E+00	1.20E+00	120	6	7
1.51635	0.99	240	240.3	0.41	1.57	-0.1145	-0.0139	0.997	1.26E+00	1.26E+00	120	6	7
1.58403	0.83	177.8	178.1	0.47	1.52	-0.1142	-0.0137	0.997	1.32E+00	1.32E+00	120	6	6
1.65571	0.74	147.5	147.5	0.5	0.28	-0.1073	-0.0133	0.997	1.38E+00	1.38E+00	120	6	6
1.72459	0.59	146.7	146.8	0.4	0.3	-0.1149	-0.014	0.997	1.44E+00	1.44E+00	120	6	6
1.79508	0.56	150.2	150.3	0.37	0.41	-0.1143	-0.0141	0.997	1.50E+00	1.50E+00	120	6	6
1.86676	0.58	147.5	147.5	0.39	0.32	-0.1137	-0.014	0.997	1.56E+00	1.56E+00	120	6	6
1.94005	0.48	158.6	158.7	0.3	0.37	-0.1132	-0.0136	0.996	1.62E+00	1.62E+00	120	6	6
2.01133	0.35	162	162.1	0.22	0.3	-0.1125	-0.0138	0.996	1.68E+00	1.68E+00	120	6	6
2.08382	0.51	147.5	147.5	0.34	0.14	-0.1144	-0.0142	0.997	1.74E+00	1.74E+00	120	6	6
2.1511	0.72	122.6	122.6	0.59	0.01	-0.1158	-0.0137	0.997	1.79E+00	1.79E+00	120	6	6
2.22158	0.78	107.4	107.4	0.71	0.06	-0.1158	-0.01	0.997	1.85E+00	1.85E+00	120	6	6
2.29287	0.78	109.5	109.5	0.71	0.03	-0.1152	-0.0129	0.997	1.91E+00	1.91E+00	120	6	6
2.36495	1	161.4	161.4	0.62	0.24	-0.1141	-0.0139	0.996	1.97E+00	1.97E+00	120	6	6
2.43904	1.18	219.4	219.4	0.54	0.28	-0.1144	-0.0142	0.996	2.03E+00	2.03E+00	120	6	6
2.51914	1.54	271.1	271.2	0.57	0.26	-0.1117	-0.0129	0.996	2.10E+00	2.10E+00	120	6	6
2.58681	1.88	317.3	317.4	0.59	0.28	-0.1117	-0.0135	0.997	2.16E+00	2.16E+00	120	6	6
2.6589	2.29	383	383	0.6	0.26	-0.1112	-0.0134	0.996	2.22E+00	2.22E+00	120	6	7

2.73419	2.63	472.6	472.7	0.56	0.47	-0.1111	-0.0141	0.997	2.28E+00	2.28E+00	120	6	7
2.81268	3.02	570.2	570.4	0.53	0.68	-0.109	-0.012	0.996	2.34E+00	2.34E+00	120	6	7
2.88637	3.43	625.8	626	0.55	0.87	-0.1069	-0.0131	0.997	2.41E+00	2.41E+00	120	6	7
2.96366	3.91	672.2	672.4	0.58	1.12	-0.1055	-0.0127	0.997	2.47E+00	2.47E+00	120	6	7
3.03815	4.37	720.8	721.1	0.61	1.31	-0.1058	-0.0127	0.996	2.53E+00	2.53E+00	120	6	7
3.11624	4.76	779.9	780.1	0.61	1.21	-0.1067	-0.0133	0.997	2.60E+00	2.60E+00	120	6	7
3.18913	5.13	832.7	833	0.62	1.48	-0.1061	-0.013	0.996	2.66E+00	2.66E+00	120	6	7
3.26242	5.51	840.1	840.5	0.66	1.81	-0.1048	-0.0126	0.996	2.72E+00	2.72E+00	120	6	7
3.3329	5.88	853.9	854.3	0.69	2.12	-0.104	-0.0124	0.996	2.78E+00	2.78E+00	120	6	7
3.40859	6.28	863.1	863.5	0.73	2.02	-0.1026	-0.0123	0.996	2.84E+00	2.84E+00	120	6	7
3.48188	6.51	872.4	872.8	0.75	2.05	-0.1021	-0.0123	0.997	2.90E+00	2.90E+00	120	6	7
3.55476	6.95	874.7	875	0.79	2.04	-0.1019	-0.013	0.996	2.96E+00	2.96E+00	120	6	7
3.62545	5.58	862.2	862.6	0.65	2.21	-0.1019	-0.0132	0.996	3.02E+00	3.02E+00	120	6	7
3.69733	6.64	838.7	839.2	0.79	2.21	-0.1029	-0.0132	0.996	3.08E+00	3.08E+00	120	6	7
3.77022	6.92	805.1	805.5	0.86	2.19	-0.1032	-0.0132	0.996	3.14E+00	3.14E+00	120	6	7
3.8419	7.02	767.8	768.2	0.91	2.11	-0.1031	-0.0126	0.996	3.20E+00	3.20E+00	120	6	7
3.90998	6.8	741.2	741.6	0.92	2.01	-0.103	-0.0127	0.997	3.26E+00	3.26E+00	120	6	7
3.97687	6.58	694.9	695.2	0.95	2.03	-0.1034	-0.0127	0.997	3.31E+00	3.31E+00	120	6	7
4.04697	6.47	710.9	711.2	0.91	2.01	-0.1029	-0.0127	0.997	3.37E+00	3.37E+00	120	6	7
4.11546	6.35	704.8	705.2	0.9	1.95	-0.1026	-0.013	0.997	3.43E+00	3.43E+00	120	6	7
4.18516	6.3	691.8	692.1	0.91	1.75	-0.1029	-0.013	0.997	3.49E+00	3.49E+00	120	6	7
4.25807	6.22	680.7	681	0.91	1.53	-0.1036	-0.0132	0.997	3.55E+00	3.55E+00	120	6	7
4.33057	6.28	668.9	669.2	0.94	1.5	-0.1035	-0.0133	0.997	3.61E+00	3.61E+00	120	6	7
4.39747	6.36	666.1	666.4	0.95	1.55	-0.1028	-0.0132	0.997	3.67E+00	3.67E+00	120	6	7
4.46837	6.47	659.2	659.6	0.98	1.86	-0.1021	-0.0131	0.997	3.72E+00	3.72E+00	120	6	7
4.53646	6.37	644.6	644.9	0.99	1.88	-0.1016	-0.0133	0.997	3.78E+00	3.78E+00	120	6	7
4.60817	6.37	641.2	641.6	0.99	1.9	-0.101	-0.0131	0.997	3.84E+00	3.84E+00	120	6	6
4.67947	6.21	635.7	636.1	0.98	1.99	-0.1001	-0.0129	0.997	3.90E+00	3.90E+00	120	6	6
4.75397	6.16	639.1	639.4	0.96	2.01	-0.1	-0.013	0.997	3.96E+00	3.96E+00	120	6	6
4.82207	6.08	645.6	646	0.94	2	-0.1002	-0.0132	0.997	4.02E+00	4.02E+00	120	6	6
4.89377	5.93	646	646.4	0.92	2.05	-0.0998	-0.0126	0.997	4.08E+00	4.08E+00	120	6	6
4.96307	5.89	666.1	666.5	0.88	1.95	-0.1008	-0.0141	0.997	4.14E+00	4.14E+00	120	6	6
5.03277	5.83	696.5	696.9	0.84	1.95	-0.1011	-0.0134	0.997	4.19E+00	4.18E+00	120	6	6
5.10407	5.94	725.5	725.9	0.82	2.04	-0.1025	-0.0139	0.997	4.25E+00	4.21E+00	120	6	7
5.17778	6.17	728.3	728.6	0.85	1.95	-0.1016	-0.0137	0.997	4.32E+00	4.24E+00	120	6	7
5.24508	6.34	699.8	700.2	0.9	1.83	-0.1021	-0.0133	0.997	4.37E+00	4.27E+00	120	6	6
5.31718	6.17	734.6	735	0.84	1.88	-0.102	-0.0136	0.997	4.43E+00	4.29E+00	120	6	7
5.38587	6.04	773.8	774.2	0.78	1.86	-0.1034	-0.01	0.997	4.49E+00	4.32E+00	120	6	7
5.45537	6.1	777.7	778.1	0.78	1.9	-0.1033	-0.0144	0.997	4.55E+00	4.35E+00	120	6	7
5.52547	6.3	754.5	754.8	0.83	1.81	-0.1022	-0.0141	0.997	4.61E+00	4.38E+00	120	6	7
5.59918	6.3	729.1	729.4	0.86	1.66	-0.1016	-0.0138	0.997	4.67E+00	4.41E+00	120	6	6
5.66768	5.94	711.4	711.7	0.83	1.54	-0.1027	-0.0135	0.997	4.72E+00	4.43E+00	120	6	6
5.73978	5.59	699.3	699.5	0.8	1.5	-0.1034	-0.0135	0.997	4.78E+00	4.46E+00	120	6	6
5.80828	5.42	673	673.3	0.8	1.59	-0.1032	-0.0141	0.997	4.84E+00	4.49E+00	120	6	6
5.87958	5.43	652	652.4	0.83	1.59	-0.1032	-0.0133	0.997	4.90E+00	4.52E+00	120	6	6
5.94968	5.46	633	633.2	0.86	1.46	-0.1045	-0.0144	0.997	4.96E+00	4.55E+00	120	6	6
6.02098	5.38	606.7	607	0.89	1.59	-0.1047	-0.0135	0.997	5.02E+00	4.58E+00	120	6	6
6.09028	5.29	589.6	589.9	0.9	1.79	-0.1056	-0.014	0.997	5.08E+00	4.60E+00	120	6	6
6.16078	5.32	574.2	574.5	0.93	1.92	-0.1065	-0.0144	0.997	5.13E+00	4.63E+00	120	6	6
6.23048	5.31	572.8	573.1	0.93	1.88	-0.1066	-0.0151	0.997	5.19E+00	4.66E+00	120	6	6
6.30418	5.25	584.8	585.2	0.9	2.09	-0.1071	-0.0141	0.997	5.25E+00	4.69E+00	120	6	6
6.37388	5.05	598.4	598.8	0.84	2.04	-0.1063	-0.0126	0.997	5.31E+00	4.72E+00	120	6	6

6.44598	5.09	612.2	612.6	0.83	1.95	-0.1051	-0.0122	0.997	5.37E+00	4.75E+00	120	6	6
6.51609	5.07	614.2	614.6	0.83	1.97	-0.1058	-0.0127	0.997	5.43E+00	4.77E+00	120	6	6
6.58619	5.26	599	599.4	0.88	1.97	-0.105	-0.0129	0.997	5.49E+00	4.80E+00	120	6	6
6.65749	5.52	572.2	572.6	0.96	1.99	-0.1059	-0.0126	0.997	5.55E+00	4.83E+00	120	6	6
6.72839	5.64	544.4	544.7	1.04	1.9	-0.1052	-0.0131	0.997	5.61E+00	4.86E+00	120	6	6
6.79889	5.72	521.7	522	1.1	1.74	-0.1048	-0.0128	0.997	5.67E+00	4.89E+00	120	6	6
6.86939	5.7	507.1	507.4	1.12	1.83	-0.1066	-0.0124	0.997	5.72E+00	4.91E+00	120	6	6
6.93949	5.04	492.1	492.4	1.02	1.72	-0.1046	-0.0126	0.997	5.78E+00	4.94E+00	120	6	6
7.01159	5.01	474.1	474.5	1.05	1.77	-0.1031	-0.0133	0.997	5.84E+00	4.97E+00	120	6	6
7.08089	4.95	463.7	464	1.07	1.81	-0.1034	-0.013	0.997	5.90E+00	5.00E+00	120	6	6
7.15299	4.89	465.2	465.6	1.05	1.71	-0.1039	-0.012	0.997	5.96E+00	5.03E+00	120	6	6
7.21188	4.81	425.8	426.1	1.13	1.72	-0.1026	-0.0125	0.997	6.01E+00	5.05E+00	120	6	6
7.26116	4.82	468	468.4	1.03	1.75	-0.1033	-0.0126	0.997	6.05E+00	5.07E+00	120	6	6
7.32607	4.76	471.4	471.7	1.01	1.81	-0.1041	-0.0127	0.997	6.11E+00	5.10E+00	120	6	6
7.39739	4.91	476.9	477.3	1.03	1.9	-0.1036	-0.0125	0.997	6.16E+00	5.13E+00	120	6	6
7.4687	5.12	491.5	491.9	1.04	1.97	-0.1035	-0.0127	0.997	6.22E+00	5.15E+00	120	6	6
7.54363	5.3	510.6	511	1.04	1.92	-0.1034	-0.0131	0.997	6.29E+00	5.18E+00	120	6	6
7.61254	5.49	523.1	523.5	1.05	2.01	-0.1028	-0.013	0.997	6.34E+00	5.21E+00	120	6	6
7.68226	5.72	517.5	517.9	1.1	1.97	-0.1025	-0.0131	0.997	6.40E+00	5.24E+00	120	6	6
7.75077	5.95	494.1	494.4	1.2	1.88	-0.1028	-0.0131	0.997	6.46E+00	5.27E+00	120	6	6
7.82209	6.07	468.6	469	1.29	1.86	-0.1029	-0.0129	0.997	6.52E+00	5.30E+00	120	6	6
7.89141	5.99	456.2	456.5	1.31	1.81	-0.1036	-0.013	0.997	6.58E+00	5.32E+00	120	5	6
7.96513	5.76	446.3	446.7	1.29	1.72	-0.1042	-0.0137	0.997	6.64E+00	5.35E+00	120	5	6
8.04005	5.61	436.7	437	1.28	1.67	-0.1038	-0.0134	0.997	6.70E+00	5.38E+00	120	5	6
8.11017	5.75	431.1	431.5	1.33	1.72	-0.1039	-0.0131	0.997	6.76E+00	5.41E+00	120	5	6
8.18029	6.62	426.6	426.9	1.55	1.75	-0.1009	-0.0124	0.997	6.82E+00	5.44E+00	120	5	6
8.25241	6.38	428.7	429.1	1.49	1.73	-0.1024	-0.01	0.997	6.88E+00	5.47E+00	120	5	6
8.32012	5.68	437	437.4	1.3	1.78	-0.1028	-0.0124	0.997	6.93E+00	5.50E+00	120	5	6
8.39505	7.07	461.9	462.2	1.53	1.73	-0.103	-0.0072	0.997	7.00E+00	5.53E+00	120	5	6
8.46556	6.56	496.2	496.5	1.32	1.5	-0.1046	-0.0126	0.997	7.06E+00	5.55E+00	120	6	6
8.53568	6.13	534.7	534.8	1.15	0.74	-0.1033	-0.013	0.997	7.11E+00	5.58E+00	120	6	6
8.6058	6.04	572.2	572.3	1.06	0.35	-0.1033	-0.013	0.997	7.17E+00	5.61E+00	120	6	6
8.67752	6.16	506.1	506.2	1.22	0.49	-0.1026	-0.0123	0.997	7.23E+00	5.64E+00	120	6	6
8.74563	6.07	427.2	427.4	1.42	0.97	-0.1015	-0.0128	0.997	7.29E+00	5.67E+00	120	5	6
8.82296	6.22	424.4	424.7	1.46	1.37	-0.1018	-0.0125	0.997	7.35E+00	5.70E+00	120	5	6
8.89307	6.86	438.8	439.1	1.56	1.39	-0.1016	-0.0133	0.997	7.41E+00	5.72E+00	120	5	6
8.96359	5.3	466.4	466.7	1.13	1.34	-0.1027	-0.0129	0.997	7.47E+00	5.75E+00	120	6	6
9.03491	4.51	505.9	506.2	0.89	1.41	-0.102	-0.0134	0.997	7.53E+00	5.78E+00	120	6	6
9.10623	4.41	543.2	543.4	0.81	1.32	-0.1014	-0.0129	0.997	7.59E+00	5.81E+00	120	6	6
9.17394	4.56	560.6	560.8	0.81	1.22	-0.101	-0.0124	0.997	7.65E+00	5.84E+00	120	6	6
9.24726	4.69	565.3	565.5	0.83	1.15	-0.1005	-0.0133	0.997	7.71E+00	5.87E+00	120	6	6
9.31738	4.79	566.1	566.3	0.85	1.22	-0.1007	-0.0136	0.997	7.76E+00	5.89E+00	120	6	6
9.38669	5.02	561.1	561.4	0.89	1.1	-0.0997	-0.0117	0.997	7.82E+00	5.92E+00	120	6	6
9.45441	5.28	557.8	558	0.95	1.13	-0.0991	-0.011	0.997	7.88E+00	5.95E+00	120	6	6
9.52533	5.53	544	544.2	1.02	1.17	-0.0998	-0.0115	0.997	7.94E+00	5.98E+00	120	6	6
9.59424	5.64	530	530.2	1.06	1.08	-0.1009	-0.0117	0.997	8.00E+00	6.00E+00	120	6	6
9.66676	5.69	514.2	514.4	1.11	1.1	-0.101	-0.0116	0.997	8.06E+00	6.03E+00	120	6	6
9.73768	5.64	501.2	501.4	1.12	1.13	-0.1019	-0.0118	0.997	8.12E+00	6.06E+00	120	6	6
9.8094	5.54	478.3	478.5	1.16	1.1	-0.1015	-0.0119	0.997	8.17E+00	6.09E+00	120	6	6
9.88112	5.41	452.6	452.8	1.19	1.08	-0.1002	-0.0124	0.997	8.23E+00	6.12E+00	120	5	6
9.95805	5.27	425.6	425.8	1.24	1.05	-0.1005	-0.0125	0.997	8.30E+00	6.15E+00	120	5	6
10.02656	5.2	408.4	408.7	1.27	1.12	-0.1013	-0.0129	0.997	8.36E+00	6.18E+00	120	5	6

10.10229	5	389.1	389.3	1.28	1.12	-0.1	-0.0132	0.997	8.42E+00	6.21E+00	120	5	6
10.172	4.26	371.8	372	1.15	1.19	-0.0992	-0.0132	0.997	8.48E+00	6.24E+00	120	5	6
10.24292	4.02	364.3	364.5	1.1	1.28	-0.0992	-0.0132	0.997	8.54E+00	6.26E+00	120	5	6
10.31344	3.85	364.3	364.5	1.06	1.3	-0.0995	-0.0133	0.997	8.60E+00	6.29E+00	120	5	6
10.38436	3.81	365.8	365.9	1.04	1.3	-0.0988	-0.0092	0.997	8.65E+00	6.32E+00	120	5	6
10.45247	3.88	362.9	363.1	1.07	1.3	-0.1057	-0.0104	0.997	8.71E+00	6.35E+00	120	5	6
10.48333	3.94	358.7	359	1.1	1.26	-0.1073	-0.0124	0.997	8.74E+00	6.36E+00	120	5	6
10.55309	4	351.1	351.3	1.14	1.27	-0.1021	-0.0087	0.997	8.79E+00	6.39E+00	120	5	6
10.62245	4.01	341.4	341.7	1.17	1.27	-0.1014	-0.0114	0.997	8.85E+00	6.42E+00	120	5	6
10.69262	4.1	339.4	339.7	1.21	1.3	-0.1027	-0.0137	0.997	8.91E+00	6.44E+00	120	5	6
10.76159	4.17	340	340.3	1.23	1.27	-0.1038	-0.0129	0.997	8.97E+00	6.47E+00	120	5	6
10.83296	4.44	344.2	344.4	1.29	1.19	-0.1058	-0.0134	0.997	9.03E+00	6.50E+00	120	5	6
10.90834	4.81	349.1	349.3	1.38	1.26	-0.106	-0.0149	0.997	9.09E+00	6.53E+00	120	5	6
10.9765	5.15	349.7	349.9	1.47	1.23	-0.1077	-0.0146	0.997	9.15E+00	6.56E+00	120	5	6
11.04667	5.99	355.2	355.4	1.69	1.19	-0.1074	-0.0107	0.997	9.21E+00	6.59E+00	120	5	6
11.11603	7.41	363.5	363.7	2.04	1.23	-0.1074	-0.0137	0.997	9.26E+00	6.61E+00	120	5	6
11.1862	16.7	383.6	383.9	4.35	1.34	-0.1078	-0.015	0.997	9.32E+00	6.64E+00	120	4	6
11.25717	22.6	429.9	430.2	5.25	1.46	-0.1068	-0.0156	0.997	9.38E+00	6.67E+00	120	4	6
11.33295	21.76	523.1	523.4	4.16	1.66	-0.1056	-0.0152	0.997	9.44E+00	6.70E+00	120	4	6
11.40071	27.19	828.8	829.1	3.28	1.94	-0.1054	-0.0106	0.997	9.50E+00	6.73E+00	120	5	6
11.44882	25.25	1830.7	1831	1.38	1.12	-0.103	-0.0115	0.997	9.54E+00	6.75E+00	120	6	7
11.5222	15.64	2583.3	2583.2	0.61	-0.61	-0.1008	-0.0141	0.997	9.60E+00	6.78E+00	120	6	7
11.59317	14.98	2815.3	2815.2	0.53	-0.61	-0.101	-0.0152	0.997	9.66E+00	6.80E+00	120	7	7
11.63888	13.95	2595.7	2595.8	0.54	0.37	-0.1013	-0.0151	0.997	9.70E+00	6.82E+00	120	7	7
11.69741	17.24	2352.4	2352.7	0.73	1.32	-0.1012	-0.0149	0.997	9.75E+00	6.85E+00	120	6	7
11.7732	25.75	2344.7	2344.9	1.1	1.19	-0.1018	-0.0154	0.997	9.81E+00	6.88E+00	120	6	7
11.84697	19.66	1650.8	1652.2	1.19	7.15	-0.1055	-0.0154	0.997	9.87E+00	6.91E+00	120	6	7
11.91714	13.57	1613.5	1617.2	0.84	18.92	-0.1095	-0.0153	0.997	9.93E+00	6.93E+00	120	6	7
11.98771	11.08	1668.8	1671.2	0.66	12.61	-0.1125	-0.0154	0.997	9.99E+00	6.96E+00	120	6	7
12.05627	14.46	1647.1	1647.6	0.88	3.7	-0.1137	-0.0154	0.997	1.01E+01	6.99E+00	120	6	7
12.13045	16.26	1624.2	1624.1	1	-0.47	-0.1153	-0.0157	0.997	1.01E+01	7.02E+00	120	6	7
12.20141	19.51	1948.5	1948.5	1	0.31	-0.1152	-0.0156	0.996	1.02E+01	7.05E+00	120	6	7
12.27238	25.06	2089.3	2089.3	1.2	0.12	-0.115	-0.0151	0.997	1.02E+01	7.08E+00	120	6	7
12.34255	21.24	2044.4	2044.6	1.04	0.7	-0.1145	-0.0138	0.997	1.03E+01	7.10E+00	120	6	7
12.41352	9.42	1625.8	1626.3	0.58	2.58	-0.1138	-0.0141	0.997	1.03E+01	7.13E+00	120	6	7
12.48369	11.36	1524.7	1525.3	0.74	2.86	-0.115	-0.0147	0.997	1.04E+01	7.16E+00	120	6	7
12.55466	7.65	1641	1641.8	0.47	4.14	-0.1141	-0.0129	0.997	1.05E+01	7.19E+00	120	6	7
12.62562	4.07	1486.5	1487.2	0.27	3.9	-0.1127	-0.0133	0.997	1.05E+01	7.22E+00	120	6	7
12.69499	21.06	2040.3	2040.6	1.03	1.68	-0.1091	-0.0123	0.997	1.06E+01	7.25E+00	120	6	7
12.77037	29.66	1213	1213.1	2.44	0.26	-0.1112	-0.0123	0.997	1.06E+01	7.28E+00	120	5	6
12.7836	28.76	1578	1578.4	1.82	1.61	-0.1113	-0.0124	0.997	1.07E+01	7.28E+00	120	6	7
12.85377	23.45	2387	2387.4	0.98	2.35	-0.1089	-0.0131	0.997	1.07E+01	7.31E+00	120	6	7
12.93757	26.11	1075	1075.1	2.43	0.27	-0.106	-0.0112	0.997	1.08E+01	7.34E+00	120	5	6
13.00212	25.17	1269.7	1270	1.98	1.83	-0.1089	-0.0127	0.997	1.08E+01	7.37E+00	120	6	7
13.06988	25.91	1391.6	1391.9	1.86	1.17	-0.1077	-0.0135	0.997	1.09E+01	7.40E+00	120	6	7
13.14526	23.61	1471.3	1471.8	1.6	1.81	-0.1073	-0.0139	0.997	1.10E+01	7.43E+00	120	6	7
13.21663	16	1592.8	1593.3	1	2.66	-0.1058	-0.0141	0.997	1.10E+01	7.45E+00	120	6	7
13.2878	12.03	1400.9	1401.7	0.86	4.21	-0.1027	-0.0133	0.997	1.11E+01	7.48E+00	120	6	7
13.35536	11.14	1411.9	1413.5	0.79	8.21	-0.098	-0.0133	0.997	1.11E+01	7.51E+00	120	6	7
13.43234	13.73	1406.8	1408	0.98	8.14	-0.0902	-0.0127	0.997	1.12E+01	7.54E+00	120	6	7
13.50452	9.59	1488.3	1488.6	0.64	1.39	-0.1	-0.0141	0.997	1.13E+01	7.57E+00	120	6	7
13.57629	8.71	1550.6	1551	0.56	2.22	-0.1075	-0.0148	0.996	1.13E+01	7.60E+00	120	6	7

13.64645	8.56	1374.6	1375.9	0.82	6.61	-0.1079	-0.015	0.997	1.14E+01	7.63E+00	120	6	7
13.71742	10.06	1430.8	1431.1	0.7	1.75	-0.095	-0.012	0.997	1.14E+01	7.65E+00	120	6	7
13.78639	9.29	1302.3	1303.1	0.71	3.71	-0.0467	0.0032	0.997	1.15E+01	7.68E+00	120	6	7
13.8345	8.29	1208.9	1209.6	0.89	3.74	-0.0664	-0.0044	0.997	1.15E+01	7.70E+00	120	6	6
13.90707	9.45	1271	1271.7	0.74	3.25	-0.101	-0.014	0.997	1.16E+01	7.73E+00	120	6	6
13.97764	5.75	1305.1	1305.5	0.44	2.25	-0.1023	-0.0135	0.997	1.17E+01	7.76E+00	120	6	7
14.04621	4.6	1275.6	1276	0.36	2	-0.1038	-0.0119	0.996	1.17E+01	7.79E+00	120	6	6
14.11958	4.89	1265	1265.7	0.37	3.57	-0.106	-0.0154	0.997	1.18E+01	7.81E+00	120	6	6
14.19418	5.02	1327.2	1328.1	0.38	4.42	-0.1072	-0.0155	0.997	1.18E+01	7.84E+00	120	6	7
14.26152	6.25	1266.9	1267.7	0.49	4.4	-0.1071	-0.016	0.997	1.19E+01	7.87E+00	120	6	6
14.33209	7.24	1304.6	1304.9	0.55	1.57	-0.1081	-0.0158	0.997	1.19E+01	7.90E+00	120	6	6
14.40145	11.88	1286.7	1287.3	0.92	3.29	-0.1077	-0.0152	0.996	1.20E+01	7.93E+00	120	6	6
14.47282	12.85	1306.5	1307.8	0.98	6.87	-0.1084	-0.0154	0.997	1.21E+01	7.96E+00	120	6	6
14.5474	34.7	1453.3	1454.2	2.39	4.44	-0.1084	-0.0158	0.997	1.21E+01	7.99E+00	120	5	7
14.62037	35	1748.3	1748.2	2	-0.28	-0.1088	-0.0146	0.997	1.22E+01	8.02E+00	120	6	7
14.69335	27.52	1849.7	1849.6	1.49	-0.72	-0.1103	-0.0149	0.997	1.22E+01	8.04E+00	120	6	7
14.76712	27.74	1670.6	1670.6	1.86	-0.08	-0.1089	-0.0152	0.997	1.23E+01	8.07E+00	120	6	7
14.83127	23.45	1955	1955	1.2	0.02	-0.1054	-0.0151	0.996	1.24E+01	8.10E+00	120	6	7
14.86215	27.34	1941.2	1941.2	1.41	-0.03	-0.1059	-0.0154	0.997	1.24E+01	8.11E+00	120	6	7
14.90665	33.02	2134.5	2134.6	1.55	0.41	-0.1069	-0.0157	0.997	1.24E+01	8.13E+00	120	6	7
14.94875	38.27	2532.7	2532.9	1.51	0.76	-0.1089	-0.0156	0.997	1.25E+01	8.15E+00	120	6	7
15.00248	40.31	2676.3	2676.9	1.51	2.96	-0.1108	-0.0158	0.996	1.25E+01	8.17E+00	120	6	7
15.04538	40.33	2718.7	2719.1	1.48	2.19	-0.1118	-0.0161	0.997	1.25E+01	8.19E+00	120	6	7
15.10071	39.28	2309.9	2310.5	1.7	3.25	-0.1108	-0.0157	0.997	1.26E+01	8.21E+00	120	6	7
15.16046	38.78	2471.5	2472.4	1.57	4.59	-0.109	-0.0143	0.997	1.26E+01	8.23E+00	120	6	7
15.24265	34.57	2351.9	2353.2	1.47	6.85	-0.109	-0.0146	0.997	1.27E+01	8.26E+00	120	6	7
15.30681	33.93	2412.6	2413.1	1.41	2.18	-0.1098	-0.0154	0.997	1.28E+01	8.29E+00	120	6	7
15.37898	23.17	2154.9	2155.2	1.08	1.1	-0.109	-0.0155	0.997	1.28E+01	8.32E+00	120	6	7
15.45035	20.65	2261	2261.1	0.91	0.59	-0.1092	-0.0133	0.997	1.29E+01	8.35E+00	120	6	7
15.52533	18.15	2317.6	2317.7	0.78	0.51	-0.107	-0.0141	0.997	1.29E+01	8.38E+00	120	6	7
15.59389	19.67	2274.8	2274.9	0.86	1.69	-0.1056	-0.0153	0.997	1.30E+01	8.40E+00	120	6	7
15.66967	18.59	2107.3	2108.5	0.88	6.04	-0.1063	-0.0157	0.996	1.31E+01	8.44E+00	120	6	7
15.73823	33.07	2048.9	2049.6	1.61	3.3	-0.1073	-0.0135	0.997	1.31E+01	8.46E+00	120	6	7
15.808	43.4	1986.8	1987.5	2.18	3.61	-0.1073	-0.0124	0.997	1.32E+01	8.49E+00	120	6	7
15.88017	36.63	1931.9	1932.2	1.9	1.5	-0.1059	-0.0145	0.997	1.32E+01	8.52E+00	120	6	7
15.95515	20.44	1953	1953.2	1.05	1.13	-0.1063	-0.015	0.997	1.33E+01	8.55E+00	120	6	7
16.02331	18.03	2061.7	2062	0.87	1.37	-0.1078	-0.0143	0.996	1.34E+01	8.58E+00	120	6	7
16.1011	12.29	2073.1	2073.2	0.59	0.59	-0.1056	-0.0132	0.997	1.34E+01	8.61E+00	120	6	7
16.16565	13.2	2146.7	2146.6	0.61	-0.05	-0.1006	-0.0122	0.997	1.35E+01	8.63E+00	120	6	7
16.24825	8.6	2746.3	2746.3	0.31	0.23	-0.1056	-0.0131	0.997	1.35E+01	8.67E+00	120	7	7
16.31561	8.58	1344.7	1345	0.64	1.43	-0.1067	-0.0135	0.997	1.36E+01	8.69E+00	120	6	6
16.38177	11.04	1188.6	1189.3	0.93	3.65	-0.106	-0.0131	0.997	1.37E+01	8.72E+00	120	6	6
16.42286	9.4	885.2	885.6	1.06	2.06	-0.1031	-0.0127	0.997	1.37E+01	8.74E+00	120	6	6
16.49844	9.05	1234.7	1235.1	0.73	2.06	-0.1019	-0.0148	0.997	1.38E+01	8.77E+00	120	6	6
16.5654	8.94	1357.1	1357.8	0.66	3.48	-0.1046	-0.0132	0.997	1.38E+01	8.79E+00	120	6	6
16.63838	9.43	1560.1	1560.8	0.6	3.88	-0.1064	-0.0134	0.997	1.39E+01	8.82E+00	120	6	7
16.70975	1.28	1651.8	1652.8	0.08	4.86	-0.107	-0.0149	0.997	1.39E+01	8.85E+00	120	-99	7
16.78593	17.57	1784.4	1784.9	0.98	2.19	-0.1072	-0.0147	0.997	1.40E+01	8.88E+00	120	6	7
16.85369	18.13	1845.6	1846.4	0.98	4.3	-0.1055	-0.0151	0.997	1.40E+01	8.91E+00	120	6	7
16.92666	15.04	1859.7	1860.2	0.81	2.14	-0.1069	-0.0154	0.997	1.41E+01	8.94E+00	120	6	7
16.99483	14.13	1759.9	1761.5	0.8	7.81	-0.1081	-0.0161	0.997	1.42E+01	8.97E+00	120	6	7
17.04895	13.51	1727.2	1727.5	0.78	1.48	-0.1083	-0.0162	0.997	1.42E+01	8.99E+00	120	6	7

17.12268	13.22	1768.2	1768.8	0.75	3.01	-0.1077	-0.0157	0.997	1.43E+01	9.02E+00	120	6	7
17.19961	12.13	1765.1	1765.7	0.69	3.08	-0.1073	-0.0154	0.997	1.43E+01	9.05E+00	120	6	7
17.27092	14.79	1725.4	1725.8	0.86	2.17	-0.1078	-0.0119	0.997	1.44E+01	9.08E+00	120	6	7
17.34224	13.96	1599.7	1600.3	0.87	2.75	-0.1101	-0.0148	0.997	1.45E+01	9.10E+00	120	6	7
17.41597	16.16	1668.8	1669.2	0.97	2.12	-0.1137	-0.0155	0.997	1.45E+01	9.13E+00	120	6	7
17.49249	18.02	1776.9	1777.2	1.01	1.83	-0.1178	-0.0159	0.997	1.46E+01	9.16E+00	120	6	7
17.56021	17.91	1816.6	1816.7	0.99	0.66	-0.1183	-0.0156	0.997	1.46E+01	9.19E+00	120	6	7
17.63513	14.78	1742.4	1742.6	0.85	1.03	-0.1178	-0.0144	0.997	1.47E+01	9.22E+00	120	6	7
17.70444	11.9	1652.2	1653.1	0.72	4.48	-0.1187	-0.016	0.997	1.48E+01	9.25E+00	120	6	7
17.77817	9.86	1677.5	1678	0.59	2.68	-0.1146	-0.0153	0.997	1.48E+01	9.28E+00	120	6	7
17.8539	8.77	1626.8	1627.7	0.54	4.69	-0.12	-0.0163	0.997	1.49E+01	9.31E+00	120	6	7
17.93002	16.28	1459.8	1460.6	1.11	3.93	-0.1212	-0.0165	0.997	1.49E+01	9.34E+00	120	6	6
17.99854	29.69	1445.1	1446	2.05	4.79	-0.1221	-0.0158	0.997	1.50E+01	9.37E+00	120	5	6
18.07426	26.46	1407.3	1408	1.88	3.72	-0.1215	-0.0161	0.997	1.51E+01	9.40E+00	120	6	6
18.14318	18.36	1463.4	1464.5	1.25	5.48	-0.1247	-0.0144	0.997	1.51E+01	9.42E+00	120	6	6
18.2173	15.83	1544.9	1546	1.02	5.48	-0.1245	-0.0154	0.997	1.52E+01	9.45E+00	120	6	6
18.28942	19.63	1687.1	1688.3	1.16	6.01	-0.1259	-0.0125	0.997	1.52E+01	9.48E+00	120	6	7
18.44848	17.6	1702.7	1703.4	1.03	3.32	-0.1267	-0.01	0.997	1.54E+01	9.55E+00	120	6	7
18.5202	21.82	1679.4	1680.1	1.3	3.31	-0.1268	-0.0129	0.997	1.54E+01	9.58E+00	120	6	7
18.58872	26.37	1538	1538.5	1.71	2.59	-0.1266	-0.0138	0.997	1.55E+01	9.60E+00	120	6	6
18.65483	27.74	1379.2	1379.9	2.01	3.65	-0.1265	-0.014	0.997	1.56E+01	9.63E+00	120	5	6
18.73135	27.13	1606.2	1606.7	1.69	2.59	-0.1252	-0.0142	0.997	1.56E+01	9.66E+00	120	6	6
18.80428	24.36	1590.5	1590.8	1.53	1.66	-0.1247	-0.0145	0.997	1.57E+01	9.69E+00	120	6	6
18.8808	20.37	1332.3	1332.9	1.53	3.25	-0.1244	-0.0128	0.997	1.57E+01	9.72E+00	120	6	6
18.94972	17.66	1438.1	1438.8	1.23	3.5	-0.1235	-0.0156	0.997	1.58E+01	9.75E+00	120	6	6
19.02464	15.52	1501.3	1502.2	1.03	5.04	-0.1224	-0.0153	0.997	1.59E+01	9.78E+00	120	6	6
19.09115	12.96	1674.3	1675.1	0.77	4.04	-0.118	-0.0155	0.997	1.59E+01	9.80E+00	120	6	7
19.17048	10.45	1655	1656.4	0.63	7.41	-0.1165	-0.0155	0.997	1.60E+01	9.84E+00	120	6	6
19.2386	3.11	1753.4	1754.3	0.18	4.45	-0.1148	-0.0153	0.997	1.60E+01	9.86E+00	120	7	7
19.31112	3.2	1848.3	1849.3	0.17	4.97	-0.1155	-0.0153	0.997	1.61E+01	9.89E+00	120	7	7
19.37963	6.55	1975.7	1976.6	0.33	4.37	-0.1138	-0.0134	0.997	1.62E+01	9.92E+00	120	6	7
19.45416	19.21	2139.7	2140.8	0.9	5.55	0	0	0.997	1.62E+01	9.95E+00	120	6	7
19.52227	18.14	2273.7	2274.6	0.8	4.61	0	0	0.997	1.63E+01	9.98E+00	120	6	7
19.57997	12.07	2149.7	2150.5	0.56	4.23	0	0	0.997	1.63E+01	1.00E+01	120	6	7
19.64928	17.87	2480.9	2481.7	0.72	4.39	0	0	0.997	1.64E+01	1.00E+01	120	6	7
19.7234	15.97	2693.6	2693.9	0.59	1.86	0	0	0.997	1.64E+01	1.01E+01	120	6	7
19.79392	16.64	2659.3	2659.5	0.63	1.08	0	0	0.997	1.65E+01	1.01E+01	120	6	7
19.86965	24.33	2550.8	2551.1	0.95	1.15	0	0	0.996	1.66E+01	1.01E+01	120	6	7
19.92213	25.74	2084.2	2084.2	1.23	0.06	0	0	0.997	1.66E+01	1.01E+01	120	6	7
20.01148	20.94	2401.9	2402.6	0.87	3.44	0	0	0.997	1.67E+01	1.02E+01	120	6	7
20.08841	16.23	2313.2	2314	0.7	4.26	0	0	0.996	1.67E+01	1.02E+01	120	6	7
20.15693	15.46	2266.8	2267.3	0.68	2.66	0	0	0.997	1.68E+01	1.02E+01	120	6	7
20.23506	16.14	2025.1	2026	0.8	4.44	0	0	0.997	1.69E+01	1.03E+01	120	6	7
20.30317	14.54	2036.2	2036.3	0.71	0.88	0	0	0.997	1.69E+01	1.03E+01	120	6	7
20.37869	11.77	2001.6	2002.7	0.59	5.77	0	0	0.997	1.70E+01	1.03E+01	120	6	7
20.43897	10.57	1877.7	1878.5	0.56	4.37	0	0	0.997	1.70E+01	1.03E+01	120	6	7
20.51026	9.88	1951.9	1952.5	0.51	2.84	0	0	0.996	1.71E+01	1.04E+01	120	6	7
20.58314	10.11	1920.2	1920.9	0.53	3.9	0	0	0.996	1.72E+01	1.04E+01	120	6	7
20.65683	9.81	1963.7	1964.7	0.5	5.54	0	0	0.997	1.72E+01	1.04E+01	120	6	7
20.73452	9.8	2022.4	2023.3	0.48	4.79	0	0	0.996	1.73E+01	1.05E+01	120	6	7
20.8034	8.42	2102.5	2103.5	0.4	5.19	0	0	0.996	1.73E+01	1.05E+01	120	6	7
20.87829	7.99	2249.2	2250.2	0.36	5.16	0	0	0.997	1.74E+01	1.05E+01	120	6	7

20.94677	8.48	2482.4	2483.6	0.34	6.39	0	0	0.996	1.75E+01	1.06E+01	120	6	7
21.02086	13.46	2805	2806.2	0.48	6.18	0	0	0.996	1.75E+01	1.06E+01	120	6	7
21.09335	41.33	3034.7	3035.5	1.36	4.21	0	0	0.996	1.76E+01	1.06E+01	120	6	7
21.18505	58.1	3139.8	3139.9	1.88	0.46	0	0	0.997	1.77E+01	1.06E+01	120	6	7
21.25194	59.84	3591.3	3591.3	1.67	-0.14	0	0	0.996	1.77E+01	1.07E+01	120	6	7
21.30039	25.06	3576.2	3576.1	0.7	-0.77	0	0	0.997	1.78E+01	1.07E+01	120	6	7
21.35806	35.3	4112	4112.4	0.86	2.21	0	0	0.996	1.78E+01	1.07E+01	120	6	7
21.41773	0	3688	3688.4	0	1.88	0	0	0.997	1.79E+01	1.07E+01	120	-99	7
21.49783	0	3366.3	3366.5	0	1.43	0	0	0.997	1.79E+01	1.08E+01	120	-99	7
21.56751	0	3766.7	3767.1	0	2.28	0	0	0.996	1.80E+01	1.08E+01	120	-99	7
21.62998	0	4116.1	4116.7	0	3.08	0	0	0.997	1.80E+01	1.08E+01	120	-99	7
21.63719	0	2427.5	2427.6	0	0.39	0	0	0.997	1.80E+01	1.08E+01	120	-99	7
21.65782	0	3908.9	3909.7	0	4.23	0	0	0.996	1.81E+01	1.08E+01	120	-99	7
21.71288	0	3418.6	3418.9	0	1.41	0	0	0.996	1.81E+01	1.09E+01	120	-99	7

Electric Cone Penetrometer Data

Cone_TAP v 2.90

Test Id: HD-02 Date: 4-Nov-03

Site: SUNNYSIDE Cone Id: 108.034XXX

Location: QUEENS NY GWT (ft): 5

Project: RROUX Soil Density(pcf): 120

Client: ROUX

Depth (ft)	Sleeve Stress (psi)	Tip Stress UNC (psi)	Tip Stress COR (psi)	Ratio COR (%)	Pore Pressure (psi)	LFFD (V)	HFFD (V)	Excitation (Vdc)	Overburden (psi)	Eff. Overburden (psi)	Wet Density (pcf)	Class. FR (Rob. 1990)	Class. PP (Rob. 1990)
0	0	0	0	0	0	0	0	NM	0.00E+00	0.00E+00	120	-99	-99
0.02892	0	60.9	61	0	0.28	-0.0267	-0.0017	NM	2.41E-02	2.41E-02	120	-99	-99
0.06908	0	72.7	72.7	0	0.28	-0.0406	-0.0026	NM	5.78E-02	5.76E-02	120	-99	-99
0.10683	0	97.6	97.7	0	0.28	-0.0516	-0.0038	NM	8.90E-02	8.90E-02	120	-99	-99
0.1482	0	103.5	103.6	0	0.33	-0.0563	-0.0081	NM	1.24E-01	1.24E-01	120	-99	7
0.19519	0	106.4	106.5	0	0.28	-0.0587	-0.0106	NM	1.63E-01	1.63E-01	120	-99	7
0.24057	0	113.8	113.8	0	0.43	-0.0588	-0.0116	NM	2.01E-01	2.01E-01	120	-99	7
0.28756	-0.04	75.6	75.7	-0.06	0.48	-0.0598	-0.0118	NM	2.40E-01	2.40E-01	120	-99	7
0.34058	-0.02	82.9	83	-0.02	0.48	-0.0606	-0.012	NM	2.84E-01	2.84E-01	120	-99	7
0.39882	-0.01	93.2	93.3	-0.01	0.43	-0.0609	-0.0124	NM	3.32E-01	3.32E-01	120	-99	7
0.45705	-0.01	96.1	96.2	-0.01	0.43	-0.0606	-0.0128	NM	3.81E-01	3.81E-01	120	-99	7
0.51408	-0.04	100.6	100.6	-0.04	0.43	-0.0601	-0.0129	NM	4.28E-01	4.28E-01	120	-99	7
0.57754	-0.06	105	105	-0.05	0.43	-0.0599	-0.0132	NM	4.81E-01	4.81E-01	120	-99	7
0.63819	-0.06	103.5	103.6	-0.06	0.43	-0.0611	-0.0129	NM	5.32E-01	5.32E-01	120	-99	7
0.70124	-0.1	106.4	106.5	-0.1	0.43	-0.0604	-0.0138	NM	5.84E-01	5.84E-01	120	-99	7
0.7643	-0.16	109.4	109.4	-0.15	0.38	-0.0617	-0.0138	NM	6.37E-01	6.37E-01	120	-99	7
0.83016	-0.17	99.1	99.2	-0.17	0.43	-0.0602	-0.0123	NM	6.92E-01	6.92E-01	120	-99	6
0.89241	-0.17	105	105	-0.16	0.38	-0.0597	-0.0126	NM	7.44E-01	7.44E-01	120	-99	6
0.95708	-0.17	102	102.1	-0.16	0.38	-0.0602	-0.013	NM	7.98E-01	7.98E-01	120	-99	6
1.0521	-0.19	98.7	98.7	-0.19	0.12	-0.062	-0.0132	NM	8.77E-01	8.77E-01	120	-99	6
1.11823	-0.17	107.4	107.5	-0.15	0.17	-0.0611	-0.0134	NM	9.32E-01	9.32E-01	120	-99	6
1.18478	-0.17	111.8	111.9	-0.15	0.17	-0.061	-0.0134	NM	9.87E-01	9.87E-01	120	-99	6
1.25409	-0.18	104.5	104.6	-0.17	0.17	-0.0614	-0.0133	NM	1.05E+00	1.05E+00	120	-99	6
1.32342	-0.21	103.1	103.1	-0.21	0.17	-0.0609	-0.0128	NM	1.10E+00	1.10E+00	120	-99	6
1.38754	-0.17	106	106	-0.16	0.17	-0.0609	-0.0132	NM	1.16E+00	1.16E+00	120	-99	6
1.45367	-0.2	104.5	104.6	-0.19	0.22	-0.0635	-0.0134	NM	1.21E+00	1.21E+00	120	-99	6
1.51939	-0.19	104.5	104.6	-0.18	0.17	-0.0631	-0.0131	NM	1.27E+00	1.27E+00	120	-99	6
1.58672	-0.16	110.4	110.4	-0.15	0.17	-0.0626	-0.0126	NM	1.32E+00	1.32E+00	120	-99	6
1.65405	-0.12	111.8	111.9	-0.11	0.17	-0.0633	-0.0133	NM	1.38E+00	1.38E+00	120	-99	6
1.72538	-0.07	122.1	122.1	-0.06	0.17	-0.063	-0.0133	NM	1.44E+00	1.44E+00	120	-99	6
1.79071	0.75	122.1	122.1	0.62	0.17	-0.0629	-0.0129	NM	1.49E+00	1.49E+00	120	6	6
1.85764	4.87	128	128	3.85	0.27	-0.0635	-0.013	NM	1.55E+00	1.55E+00	120	4	6
1.92336	4.92	170.5	170.6	2.89	0.27	-0.0644	-0.0135	NM	1.60E+00	1.60E+00	120	5	6
1.99069	9.59	195.5	195.5	4.91	0.22	-0.0641	-0.0132	NM	1.66E+00	1.66E+00	120	9	6
2.05561	13.75	290.8	290.8	4.73	0.27	-0.0635	-0.0136	NM	1.71E+00	1.71E+00	120	9	7
2.12575	14.25	522.6	522.6	2.73	0.37	-0.0638	-0.014	NM	1.77E+00	1.77E+00	120	8	7
2.19187	33.79	1593.3	1593.4	2.12	0.57	-0.0642	-0.0138	NM	1.83E+00	1.83E+00	120	8	7
2.2612	27.33	2628.9	2629	1.04	0.72	-0.0631	-0.0133	NM	1.88E+00	1.88E+00	120	-99	-99
2.33014	23.92	2721.3	2721.4	0.88	0.77	-0.0632	-0.0138	NM	1.94E+00	1.94E+00	120	-99	-99

2.40187	22.5	2181.5	2181.6	1.03	0.57	-0.0621	-0.0133	NM	2.00E+00	2.00E+00	120	-99	-99
2.4684	21.9	1707.7	1707.8	1.28	0.57	-0.0626	-0.0133	NM	2.06E+00	2.06E+00	120	6	7
2.53733	23.11	1591.8	1592	1.45	0.82	-0.0636	-0.0138	NM	2.11E+00	2.11E+00	120	6	7
2.60546	25.16	1703.3	1703.5	1.48	0.92	-0.0633	-0.0142	NM	2.17E+00	2.17E+00	120	6	7
2.67158	23.84	1820.7	1820.8	1.31	0.87	-0.0641	-0.0144	NM	2.23E+00	2.23E+00	120	6	7
2.73851	9.73	1888.1	1888.3	0.52	0.82	-0.0648	-0.0144	NM	2.28E+00	2.28E+00	120	7	7
2.80504	9.73	1908.7	1908.8	0.51	0.77	-0.0648	-0.014	NM	2.34E+00	2.34E+00	120	7	7
2.87157	9.6	1894	1894.1	0.51	0.77	-0.0659	-0.0144	NM	2.39E+00	2.39E+00	120	7	7
2.93729	9.98	1874.9	1875.1	0.53	0.77	-0.0658	-0.0143	NM	2.45E+00	2.45E+00	120	7	7
3.00502	9.82	1844.1	1844.3	0.53	0.67	-0.0665	-0.0145	NM	2.50E+00	2.50E+00	120	7	7
3.07275	9.87	1770.8	1770.9	0.56	0.77	-0.0678	-0.0147	NM	2.56E+00	2.56E+00	120	7	7
3.13807	9.59	1685.7	1685.9	0.57	0.72	-0.0664	-0.0148	NM	2.62E+00	2.62E+00	120	7	7
3.2038	9.38	1606.5	1606.6	0.58	0.67	-0.0661	-0.0142	NM	2.67E+00	2.67E+00	120	7	7
3.26872	8.83	1503.8	1504	0.59	0.72	-0.0671	-0.0145	NM	2.72E+00	2.72E+00	120	7	7
3.33565	8.39	1392.4	1392.5	0.6	0.67	-0.0673	-0.0144	NM	2.78E+00	2.78E+00	120	7	7
3.40298	8.22	1298.5	1298.6	0.63	0.72	-0.0664	-0.0152	NM	2.84E+00	2.84E+00	120	7	7
3.47191	8.38	1176.7	1176.9	0.71	0.72	-0.0677	-0.0154	NM	2.89E+00	2.89E+00	120	6	7
3.53803	10.82	1087.3	1087.4	1	0.72	-0.0679	-0.0155	NM	2.95E+00	2.95E+00	120	6	7
3.60737	10.6	1030.1	1030.2	1.03	0.67	-0.0686	-0.0154	NM	3.01E+00	3.01E+00	120	6	7
3.67349	9.69	1013.9	1014	0.96	0.62	-0.0686	-0.0153	NM	3.06E+00	3.06E+00	120	6	7
3.74042	8.67	1034.5	1034.6	0.84	0.77	-0.0679	-0.0151	NM	3.12E+00	3.12E+00	120	6	7
3.80735	7.85	1034.5	1034.6	0.76	0.72	-0.0685	-0.0153	NM	3.17E+00	3.17E+00	120	6	7
3.87588	7.4	892.2	892.3	0.83	0.82	-0.0681	-0.0152	NM	3.23E+00	3.23E+00	120	6	7
3.942	6.57	921.5	921.7	0.71	0.72	-0.0676	-0.0152	NM	3.29E+00	3.29E+00	120	6	7
4.00933	8.33	945	945.1	0.88	0.82	-0.068	-0.0153	NM	3.34E+00	3.34E+00	120	6	7
4.07546	8.35	959.7	959.8	0.87	0.72	-0.0679	-0.0148	NM	3.40E+00	3.40E+00	120	6	7
4.14158	9.45	974.3	974.5	0.97	0.72	-0.0669	-0.0148	NM	3.45E+00	3.45E+00	120	6	7
4.20651	9.64	993.4	993.5	0.97	0.67	-0.0675	-0.015	NM	3.51E+00	3.51E+00	120	6	7
4.24417	9.01	839.4	839.5	1.07	0.72	-0.0683	-0.015	NM	3.54E+00	3.54E+00	120	6	7
4.30708	7.79	862.8	863	0.9	0.82	-0.0687	-0.0147	NM	3.59E+00	3.59E+00	120	6	7
4.3792	7.1	776.3	776.5	0.91	0.77	-0.0678	-0.0146	NM	3.65E+00	3.65E+00	120	6	7
4.4437	7.01	789.5	789.7	0.89	0.82	-0.0677	-0.0146	NM	3.70E+00	3.70E+00	120	6	7
4.51342	6.9	679.5	679.7	1.02	1.22	-0.0679	-0.0149	NM	3.76E+00	3.76E+00	120	6	7
4.57953	6.35	637	637.2	1	1.02	-0.0679	-0.015	NM	3.82E+00	3.82E+00	120	6	6
4.64604	6.09	656	656.2	0.93	0.92	-0.0682	-0.015	NM	3.87E+00	3.87E+00	120	6	7
4.71135	5.8	648.7	648.9	0.89	0.87	-0.0692	-0.0151	NM	3.93E+00	3.93E+00	120	6	6
4.77866	5.44	664.8	665	0.82	0.82	-0.0702	-0.0159	NM	3.98E+00	3.98E+00	120	6	6
4.80991	5.29	556.3	556.5	0.95	0.92	-0.0705	-0.0161	NM	4.01E+00	4.01E+00	120	6	6
4.81031	5.29	531.4	531.5	1	0.82	-0.0705	-0.0161	NM	4.01E+00	4.01E+00	120	6	6
4.87602	5.16	866.3	866.4	0.77	0.77	-0.0698	-0.0147	NM	4.06E+00	4.06E+00	120	6	6
4.94334	5.11	651.8	651.8	0.78	0.82	-0.0698	-0.0153	NM	4.12E+00	4.12E+00	120	6	6
5.01185	4.9	609.1	609.2	0.8	0.72	-0.0698	-0.0147	NM	4.18E+00	4.17E+00	120	6	6
5.08078	4.72	601.8	601.9	0.78	0.77	-0.0698	-0.0157	NM	4.23E+00	4.20E+00	120	6	6
5.14607	4.38	566.6	566.7	0.77	0.87	-0.0698	-0.0152	NM	4.29E+00	4.23E+00	120	6	6
5.21499	4.46	540.1	540.3	0.83	0.77	-0.0696	-0.0153	NM	4.35E+00	4.25E+00	120	6	6
5.2819	4.63	524	524.2	0.88	0.77	-0.0693	-0.0148	NM	4.40E+00	4.28E+00	120	6	6
5.34841	4.72	500.6	500.7	0.94	0.67	-0.0689	-0.0149	NM	4.46E+00	4.31E+00	120	6	6
5.41853	4.5	493.2	493.3	0.91	0.67	-0.0689	-0.0149	NM	4.52E+00	4.33E+00	120	6	6
5.48864	4.34	472.7	472.8	0.92	0.72	-0.0689	-0.0147	NM	4.57E+00	4.36E+00	120	6	6
5.55435	4.33	462.4	462.6	0.94	0.72	-0.0687	-0.0146	NM	4.63E+00	4.39E+00	120	6	6
5.62246	4.55	463.9	464	0.98	0.87	-0.0685	-0.0148	NM	4.69E+00	4.42E+00	120	6	6
5.68737	4.46	478.5	478.7	0.93	0.87	-0.0679	-0.0141	NM	4.74E+00	4.44E+00	120	6	6

5.75549	4.17	502	502.1	0.83	0.67	-0.0678	-0.0137	NM	4.80E+00	4.47E+00	120	6	6
5.8224	3.88	532.8	532.9	0.73	0.67	-0.0676	-0.0136	NM	4.85E+00	4.50E+00	120	6	6
5.89211	3.82	546	546.2	0.7	0.72	-0.0661	-0.0135	NM	4.91E+00	4.52E+00	120	6	6
5.95822	3.77	554.8	555	0.68	0.72	-0.0653	-0.0141	NM	4.97E+00	4.55E+00	120	6	6
6.02554	3.74	541.6	541.8	0.69	0.72	-0.0658	-0.0147	NM	5.02E+00	4.58E+00	120	6	6
6.09205	3.74	556.3	556.4	0.67	0.72	-0.0661	-0.0146	NM	5.08E+00	4.60E+00	120	6	6
6.16016	3.76	568	568.2	0.66	0.72	-0.0669	-0.0142	NM	5.13E+00	4.63E+00	120	6	6
6.22587	3.94	593	593.1	0.66	0.77	-0.0675	-0.0138	NM	5.19E+00	4.66E+00	120	6	6
6.29558	4.04	631.1	631.2	0.64	0.82	-0.0674	-0.0142	NM	5.25E+00	4.69E+00	120	6	6
6.3625	4.11	673.6	673.8	0.61	0.77	-0.0667	-0.0145	NM	5.30E+00	4.71E+00	120	6	6
6.42861	4.15	705.9	706	0.59	0.77	-0.0657	-0.0142	NM	5.36E+00	4.74E+00	120	6	6
6.49391	4.21	725	725.1	0.58	0.77	-0.0647	-0.0135	NM	5.41E+00	4.76E+00	120	6	6
6.56083	4.11	723.5	723.7	0.57	0.82	-0.0637	-0.0129	NM	5.47E+00	4.79E+00	120	6	6
6.62653	4.11	705.9	706	0.58	0.77	-0.0625	-0.012	NM	5.52E+00	4.82E+00	120	6	6
6.69505	4.13	675.1	675.3	0.61	0.82	-0.0606	-0.0108	NM	5.58E+00	4.85E+00	120	6	6
6.76316	4.07	645.8	645.9	0.63	0.77	-0.0586	-0.0103	NM	5.64E+00	4.87E+00	120	6	6
6.83127	4.04	612	612.2	0.66	0.77	-0.0568	-0.0099	NM	5.69E+00	4.90E+00	120	6	6
6.89939	4.02	590	590.2	0.68	0.77	-0.0555	-0.0093	NM	5.75E+00	4.93E+00	120	6	6
6.9667	4.04	571	571.1	0.71	0.77	-0.0549	-0.0089	NM	5.81E+00	4.95E+00	120	6	6
7.03401	3.99	556.3	556.4	0.72	0.77	-0.0499	-0.0061	NM	5.86E+00	4.98E+00	120	6	6
7.10213	4.07	550.4	550.6	0.74	0.77	-0.0368	0.0013	NM	5.92E+00	5.01E+00	120	6	6
7.16944	4.08	541.6	541.8	0.75	0.82	-0.002	0.0145	NM	5.98E+00	5.03E+00	120	6	6
7.23755	3.76	537.2	537.4	0.7	0.82	0.0476	0.0296	NM	6.03E+00	5.06E+00	120	6	6
7.30446	3.83	525.5	525.6	0.73	0.77	0.0729	0.0374	NM	6.09E+00	5.09E+00	120	6	6
7.37218	3.82	516.7	516.8	0.74	0.77	0.0908	0.0421	NM	6.14E+00	5.12E+00	120	6	6
7.43909	3.7	524	524.2	0.71	0.82	0.114	0.0475	NM	6.20E+00	5.14E+00	120	6	6
7.5052	3.51	518.1	518.3	0.68	0.82	0.1352	0.0507	NM	6.25E+00	5.17E+00	120	6	6
7.53968	3.42	465.3	465.5	0.73	0.87	0.1474	0.0512	NM	6.28E+00	5.18E+00	120	6	6
7.60745	3.22	468.3	468.4	0.69	0.77	0.1446	0.0434	NM	6.34E+00	5.21E+00	120	6	6
7.67403	3.22	456.5	456.7	0.7	0.92	0.1071	0.0326	NM	6.40E+00	5.24E+00	120	6	6
7.74461	3.32	460.9	461.1	0.72	0.77	0.0818	0.0192	NM	6.45E+00	5.27E+00	120	6	6
7.81239	3.19	468.3	468.4	0.68	0.82	0.0537	0.0167	NM	6.51E+00	5.29E+00	120	6	6
7.88017	3.18	469.7	469.9	0.67	0.77	0.0826	0.0233	NM	6.57E+00	5.32E+00	120	6	6
7.94434	3.14	482.9	483.1	0.65	0.82	0.1384	0.0306	NM	6.62E+00	5.34E+00	120	6	6
8.01332	3.15	494.7	494.9	0.64	0.92	0.112	0.0279	NM	6.68E+00	5.37E+00	120	6	6
8.07949	3.25	494.7	494.8	0.66	0.82	0.0591	0.0122	NM	6.73E+00	5.40E+00	120	6	6
8.14847	3.19	484.4	484.6	0.66	0.87	0.0584	0.0074	NM	6.79E+00	5.43E+00	120	6	6
8.21866	3.08	468.3	468.4	0.66	0.87	0.0607	0.0126	NM	6.85E+00	5.45E+00	120	6	6
8.28643	3.07	455.1	455.3	0.68	0.92	0.1055	0.0217	NM	6.91E+00	5.48E+00	120	6	6
8.35341	3.97	434.5	434.7	0.91	0.87	0.1267	0.0198	NM	6.96E+00	5.51E+00	120	6	6
8.42038	4.1	409.6	409.8	1	0.82	0.2641	0.0374	NM	7.02E+00	5.54E+00	120	6	6
8.48776	4	394.9	395.1	1.01	0.92	0.3211	0.0439	NM	7.07E+00	5.56E+00	120	6	6
8.55433	3.82	383.2	383.4	1	0.82	0.2311	0.0321	NM	7.13E+00	5.59E+00	120	6	6
8.62572	3.66	386.1	386.3	0.95	0.87	0.3533	0.0421	NM	7.19E+00	5.62E+00	120	6	6
8.6935	3.69	346.5	346.7	1.07	0.92	0.5322	0.0702	NM	7.25E+00	5.64E+00	120	5	6
8.76007	3.57	350.9	351.1	1.02	0.77	0.6187	0.0821	NM	7.30E+00	5.67E+00	120	5	6
8.82945	3.34	345.1	345.2	0.97	0.87	0.5278	0.0652	NM	7.36E+00	5.70E+00	120	5	6
8.89523	2.89	342.1	342.3	0.85	0.82	0.5064	0.0653	NM	7.41E+00	5.73E+00	120	6	6
8.9622	2.88	337.7	337.9	0.85	0.92	0.5017	0.0597	NM	7.47E+00	5.75E+00	120	5	6
9.03078	2.77	348	348.2	0.79	0.82	0.5321	0.0806	NM	7.53E+00	5.78E+00	120	6	6
9.10097	2.72	365.6	365.8	0.74	0.87	0.6722	0.1004	NM	7.58E+00	5.81E+00	120	6	6
9.16754	2.75	393.5	393.7	0.7	0.92	0.6256	0.0948	NM	7.64E+00	5.83E+00	120	6	6

9.23652	2.78	422.8	423	0.66	1.02	0.7124	0.1148	NM	7.70E+00	5.86E+00	120	6	6
9.30309	2.86	452.1	452.3	0.63	0.97	0.79	0.1208	NM	7.75E+00	5.89E+00	120	6	6
9.37127	2.95	469.7	469.9	0.63	1.02	0.8162	0.125	NM	7.81E+00	5.92E+00	120	6	6
9.43785	2.96	480	480.2	0.62	0.87	0.8606	0.1365	NM	7.87E+00	5.94E+00	120	6	6
9.50843	3.13	485.9	486.1	0.64	0.92	0.8798	0.1542	NM	7.92E+00	5.97E+00	120	6	6
9.5734	3.26	488.8	489	0.67	0.92	0.7968	0.1329	NM	7.98E+00	6.00E+00	120	6	6
9.63757	3.48	493.2	493.4	0.71	0.97	0.5302	0.0845	NM	8.03E+00	6.02E+00	120	6	6
9.70575	3.57	508.3	509.5	0.7	0.97	0.491	0.0771	NM	8.09E+00	6.05E+00	120	6	6
9.77273	3.36	535.8	536	0.63	1.12	0.559	0.0868	NM	8.14E+00	6.08E+00	120	6	6
9.8389	3.07	582.7	582.9	0.53	1.12	0.5747	0.0956	NM	8.20E+00	6.10E+00	120	6	6
9.91229	3.65	657.5	657.7	0.55	1.12	0.5374	0.0854	NM	8.26E+00	6.13E+00	120	6	6
9.97887	3.7	730.8	731.1	0.51	1.12	0.3391	0.045	NM	8.32E+00	6.16E+00	120	6	6
10.04664	4.24	813	813.2	0.52	1.22	0.3589	0.0491	NM	8.37E+00	6.19E+00	120	6	6
10.11562	3.89	879	879.2	0.42	1.12	0.3464	0.0425	NM	8.43E+00	6.21E+00	120	6	6
10.1838	3.91	937.7	937.9	0.42	1.27	0.1998	0.027	NM	8.49E+00	6.24E+00	120	6	6
10.24957	7.4	952.3	952.6	0.78	1.22	0.0502	0.0069	NM	8.54E+00	6.27E+00	120	6	6
10.31896	14.39	986.1	986.3	1.46	1.27	0.0077	0	NM	8.60E+00	6.29E+00	120	6	6
10.38513	7.95	1009.5	1009.8	0.79	1.32	-0.0033	-0.0038	NM	8.65E+00	6.32E+00	120	6	6
10.45371	6.88	1116.6	1116.9	0.62	1.32	0.0069	-0.002	NM	8.71E+00	6.35E+00	120	6	7
10.52149	7.9	1225.1	1225.4	0.64	1.27	0.113	0.0164	NM	8.77E+00	6.38E+00	120	6	7
10.58886	12.81	1345.4	1345.7	0.95	1.27	0.0736	0.0105	NM	8.82E+00	6.40E+00	120	6	7
10.65544	12.65	1382.1	1382.4	0.91	1.42	-0.0024	-0.0017	NM	8.88E+00	6.43E+00	120	6	7
10.74453	11.92	1839.6	1840.2	0.65	2.68	-0.0086	-0.0029	NM	8.95E+00	6.46E+00	120	6	7
10.80795	10.72	2039.1	2039.6	0.53	2.53	0.0137	0.0041	NM	9.01E+00	6.49E+00	120	6	7
10.87539	10.86	1958.4	1958.9	0.55	2.48	0.0356	0.0118	NM	9.06E+00	6.52E+00	120	6	7
10.93882	10.69	2176.9	2177.4	0.49	2.48	0.0262	0.0048	NM	9.12E+00	6.54E+00	120	7	7
11.00666	10.83	2251.7	2252.2	0.48	2.53	0.0386	0.0039	NM	9.17E+00	6.57E+00	120	7	7
11.07571	12.57	2369	2369.4	0.53	2.13	0.0618	0.009	NM	9.23E+00	6.60E+00	120	7	7
11.14596	17.35	2524.5	2524.9	0.69	2.08	0.0353	0.0069	NM	9.29E+00	6.63E+00	120	6	7
11.21099	14.66	2584.6	2584.9	0.57	1.58	0.0371	0.0029	NM	9.34E+00	6.65E+00	120	7	7
11.27723	14.15	2767.9	2768	0.51	0.73	0.0752	0.01	NM	9.40E+00	6.68E+00	120	7	7
11.34226	13.83	3055.3	3055.4	0.45	0.33	0.0215	0.0056	NM	9.45E+00	6.70E+00	120	7	7
11.41091	15.91	3061.2	3061.3	0.52	0.58	-0.0295	-0.008	NM	9.51E+00	6.73E+00	120	7	7
11.47795	16.81	3325.1	3325.3	0.51	0.68	-0.0318	-0.0088	NM	9.57E+00	6.76E+00	120	7	7
11.55181	17.24	3656.5	3656.7	0.47	0.73	-0.0334	-0.0094	NM	9.63E+00	6.79E+00	120	7	7
11.61845	18.9	4004.1	4004.2	0.47	0.78	-0.0402	-0.0104	NM	9.68E+00	6.81E+00	120	7	7
11.68509	19.3	4379.5	4379.5	0.44	-0.12	-0.0416	-0.0105	NM	9.74E+00	6.84E+00	120	7	7
11.75132	18.74	4661	4661.1	0.4	0.18	-0.043	-0.0105	NM	9.79E+00	6.87E+00	120	7	7
11.81917	22.03	4834.1	4834.1	0.46	0.28	-0.0393	-0.0104	NM	9.85E+00	6.89E+00	120	7	7
11.8846	19.88	4993.9	4994	0.39	0.33	-0.0499	-0.0112	NM	9.90E+00	6.92E+00	120	7	7
11.95605	23.44	4998.3	4998.4	0.47	0.38	-0.0513	-0.0121	NM	9.96E+00	6.95E+00	120	7	7
12.0239	23.75	4976.3	4976.4	0.48	0.43	-0.0487	-0.0119	NM	1.00E+01	6.98E+00	120	7	7
12.08973	22.16	4951.4	4951.5	0.45	0.43	-0.045	-0.0123	NM	1.01E+01	7.00E+00	120	7	7
12.15717	22.28	4775.4	4775.2	0.47	-1.31	-0.0543	-0.0129	NM	1.01E+01	7.03E+00	120	7	7
12.22381	24.07	4791.5	4791.4	0.5	-0.88	-0.0564	-0.0127	NM	1.02E+01	7.06E+00	120	7	7
12.28965	21.92	4639	4638.9	0.47	-0.61	-0.0572	-0.013	NM	1.02E+01	7.08E+00	120	7	7
12.3595	22.12	4391.2	4391.1	0.5	-0.71	-0.0529	-0.0126	NM	1.03E+01	7.11E+00	120	7	7
12.42814	29.22	4356	4355.9	0.67	-0.56	-0.05	-0.0121	NM	1.04E+01	7.14E+00	120	7	7
12.49518	25.29	4312	4311.9	0.59	-0.48	-0.0425	-0.0106	NM	1.04E+01	7.17E+00	120	7	7
12.56302	24.01	3971.8	3971.7	0.6	-0.51	-0.0449	-0.011	NM	1.05E+01	7.19E+00	120	7	7
12.63127	23.09	3275.3	3275.1	0.71	-0.61	-0.054	-0.0121	NM	1.05E+01	7.22E+00	120	6	7
12.69791	26.96	3197.5	3197.4	0.84	-0.71	-0.0571	-0.0131	NM	1.06E+01	7.25E+00	120	6	7

12.76495	29.98	3050.9	3050.8	0.98	-0.36	-0.0575	-0.013	NM	1.06E+01	7.27E+00	120	6	7
12.83319	33.04	3272.3	3272.3	1.01	-0.31	-0.0571	-0.0126	NM	1.07E+01	7.30E+00	120	6	7
12.89983	35.86	3729.9	3729.8	0.96	-0.17	-0.0579	-0.0125	NM	1.08E+01	7.33E+00	120	6	7
12.96366	40.77	4285.6	4285.6	0.95	-0.12	-0.059	-0.0124	NM	1.08E+01	7.35E+00	120	6	7
13.02909	38.4	4524.7	4524.7	0.85	0.03	-0.0602	-0.0129	NM	1.09E+01	7.38E+00	120	6	7
13.09412	35.21	4908.9	4908.9	0.72	0.03	-0.0606	-0.0132	NM	1.09E+01	7.40E+00	120	7	7
13.16036	33.43	4741.7	4741.7	0.7	-0.07	-0.0598	-0.0133	NM	1.10E+01	7.43E+00	120	7	7
13.227	34.58	4873.7	4873.7	0.71	-0.07	-0.0599	-0.0131	NM	1.10E+01	7.46E+00	120	7	7
13.29564	41.72	4627.3	4627.3	0.9	0.13	-0.0595	-0.0124	NM	1.11E+01	7.49E+00	120	6	7
13.36108	39.86	4826.7	4826.7	0.83	-0.02	-0.0591	-0.0125	NM	1.11E+01	7.51E+00	120	7	7
13.42932	35.03	5020.3	5020.3	0.7	0.13	-0.0602	-0.0129	NM	1.12E+01	7.54E+00	120	7	7
13.49435	33.16	5140.6	5140.6	0.64	0.08	-0.0611	-0.0123	NM	1.13E+01	7.56E+00	120	7	7
13.56139	31.76	5386.9	5386.9	0.59	0.18	-0.0599	-0.0125	NM	1.13E+01	7.59E+00	120	7	7
13.62783	29.35	5510.1	5510.2	0.53	0.68	-0.0601	-0.0125	NM	1.14E+01	7.62E+00	120	7	7
13.69386	29.9	5694.9	5695	0.53	0.53	-0.0597	-0.0127	NM	1.14E+01	7.64E+00	120	7	7
13.7601	27.85	5807.8	5807.9	0.48	0.58	-0.0599	-0.0125	NM	1.15E+01	7.67E+00	120	7	7
13.82675	30.2	5419.2	5419.3	0.56	0.48	-0.0601	-0.0125	NM	1.15E+01	7.70E+00	120	7	7
13.89217	28.17	6086.4	6086.5	0.46	0.68	-0.0594	-0.0124	NM	1.16E+01	7.72E+00	120	7	7
13.95881	29.17	6304.9	6305	0.46	0.68	-0.059	-0.0122	NM	1.16E+01	7.75E+00	120	7	7
14.02304	30.74	6523.4	6523.5	0.47	0.73	-0.0594	-0.012	NM	1.17E+01	7.78E+00	120	7	7
14.11289	30.34	6450.3	6450.5	0.47	0.85	-0.0594	-0.0118	NM	1.18E+01	7.81E+00	120	7	7
14.17748	30.72	6667.3	6667.4	0.46	0.85	-0.0593	-0.0123	NM	1.18E+01	7.84E+00	120	7	7
14.24243	30.01	6896	6896.2	0.44	0.9	-0.0584	-0.0121	NM	1.19E+01	7.86E+00	120	7	7
14.3078	32.35	6605.7	6605.9	0.49	0.85	-0.0584	-0.0116	NM	1.19E+01	7.89E+00	120	7	7
14.37879	32.58	6510.4	6510.6	0.5	0.75	-0.0605	-0.0121	NM	1.20E+01	7.92E+00	120	7	7
14.44657	34.78	6407.8	6407.9	0.54	0.75	-0.0606	-0.0123	NM	1.20E+01	7.95E+00	120	7	7
14.51154	31.09	6324.2	6324.4	0.49	0.75	-0.0618	-0.0125	NM	1.21E+01	7.97E+00	120	7	7
14.5753	29.45	6300.8	6300.9	0.47	0.8	-0.0618	-0.0129	NM	1.22E+01	8.00E+00	120	7	7
14.64188	31.53	6186.4	6186.5	0.51	0.65	-0.0626	-0.0129	NM	1.22E+01	8.02E+00	120	7	7
14.70805	32.91	6255.3	6255.5	0.53	0.85	-0.0626	-0.0128	NM	1.23E+01	8.05E+00	120	7	7
14.77463	44.37	6228.9	6229.1	0.71	0.75	-0.0626	-0.0121	NM	1.23E+01	8.08E+00	120	7	7
14.84281	59.47	6344.7	6344.9	0.94	0.9	-0.0618	-0.0125	NM	1.24E+01	8.10E+00	120	6	7
14.91098	55.59	6441.5	6441.7	0.86	0.8	-0.061	-0.0119	NM	1.24E+01	8.13E+00	120	7	7
14.97395	51.78	6753.8	6753.9	0.77	0.8	-0.0615	-0.0122	NM	1.25E+01	8.16E+00	120	7	7
15.04614	53.91	7121.8	7121.9	0.75	0.75	-0.0601	-0.0119	NM	1.25E+01	8.19E+00	120	7	7
15.1075	56.59	6369.7	6369.8	0.89	0.9	-0.06	-0.012	NM	1.26E+01	8.21E+00	120	7	7
15.17287	56.67	6297.8	6298	0.9	0.95	-0.06	-0.0114	NM	1.26E+01	8.24E+00	120	7	7
15.24025	55.13	6582.3	6582.4	0.84	0.95	-0.0596	-0.0103	NM	1.27E+01	8.26E+00	120	7	7
15.30963	56.14	6525.1	6525.3	0.86	0.95	-0.0589	-0.0114	NM	1.28E+01	8.29E+00	120	7	7
15.37379	54.61	6951.7	6951.9	0.79	1.14	-0.0596	-0.0116	NM	1.28E+01	8.32E+00	120	7	7
15.43997	33.08	7047	7047.2	0.47	1.05	-0.0593	-0.0114	NM	1.29E+01	8.34E+00	120	7	7
15.50293	30.28	7156.9	7157.1	0.42	1	-0.0576	-0.0109	NM	1.29E+01	8.37E+00	120	7	7
15.56951	5.47	7180.4	7180.6	0.08	1.1	-0.0566	-0.0102	NM	1.30E+01	8.39E+00	120	-99	7
15.63608	7.59	7290.4	7290.6	0.1	1.19	-0.0571	-0.0108	NM	1.30E+01	8.42E+00	120	7	7
15.70547	12.21	7199.5	7199.7	0.17	1.14	-0.0581	-0.0104	NM	1.31E+01	8.45E+00	120	7	7
15.76161	13.69	6673.1	6673.4	0.21	1.19	-0.0558	-0.0102	NM	1.31E+01	8.47E+00	120	7	7
15.76241	13.7	6740.6	6740.8	0.2	1.19	-0.0558	-0.0102	NM	1.31E+01	8.47E+00	120	7	7
15.80573	14.13	6981	6981.2	0.2	1.14	-0.0562	-0.0102	NM	1.32E+01	8.49E+00	120	7	7
15.84062	15.36	6875.5	6875.7	0.22	1.14	-0.0567	-0.0105	NM	1.32E+01	8.50E+00	120	7	7
15.90439	18.68	6907.7	6907.9	0.27	1	-0.0556	-0.0099	NM	1.33E+01	8.53E+00	120	7	7
15.96855	21.61	6796.3	6796.5	0.32	0.95	-0.0544	-0.0096	NM	1.33E+01	8.55E+00	120	7	7
16.03352	23.27	6852.6	6852.8	0.35	1.05	-0.0547	-0.0098	NM	1.34E+01	8.58E+00	120	7	7

16.0997	13.03	6588.1	6588.3	0.2	1.05	-0.0536	-0.0096	NM	1.34E+01	8.61E+00	120	7	7
16.16707	10.5	6583.7	6583.9	0.16	1.1	-0.0547	-0.0097	NM	1.35E+01	8.63E+00	120	7	7
16.23124	14.88	6711.3	6711.5	0.22	1	-0.0557	-0.0105	NM	1.35E+01	8.66E+00	120	7	7
16.293	19.71	6837.3	6837.6	0.29	1.1	-0.0541	-0.0105	NM	1.36E+01	8.68E+00	120	7	7
16.35918	27.64	6973.7	6973.9	0.4	1.05	-0.0546	-0.0107	NM	1.36E+01	8.71E+00	120	7	7
16.41573	33.39	6815.3	6815.5	0.49	1.05	-0.0548	-0.0104	NM	1.37E+01	8.73E+00	120	7	7
16.45663	18.54	6875.5	6875.7	0.27	1	-0.0544	-0.0103	NM	1.37E+01	8.75E+00	120	7	7
16.5212	7.09	6778.7	6778.9	0.1	1	-0.0539	-0.0106	NM	1.38E+01	8.78E+00	120	7	7
16.58657	6.48	6677.5	6677.7	0.1	0.95	-0.0534	-0.0095	NM	1.38E+01	8.80E+00	120	-99	7
16.65435	6.12	6596.9	6597.1	0.09	0.9	-0.053	-0.0093	NM	1.39E+01	8.83E+00	120	-99	7
16.72092	0.67	6520.7	6520.8	0.01	0.9	-0.0533	-0.0097	NM	1.39E+01	8.86E+00	120	-99	7
16.82199	0.65	6574.9	6575.1	0.01	0.75	-0.0544	-0.0099	NM	1.40E+01	8.90E+00	120	-99	7
16.88616	0.69	6684.9	6685	0.01	0.75	-0.0532	-0.0101	NM	1.41E+01	8.92E+00	120	-99	7
16.92787	0.75	6423.9	6424.1	0.01	0.8	-0.0527	-0.0101	NM	1.41E+01	8.94E+00	120	-99	7
16.99203	9.58	6545.6	6545.7	0.15	0.7	-0.0525	-0.0096	NM	1.42E+01	8.96E+00	120	7	7
17.08468	13.26	6413.7	6413.8	0.21	0.75	-0.0525	-0.0099	NM	1.42E+01	9.00E+00	120	7	7
17.08548	13.31	6682.1	6682.2	0.23	0.7	-0.0525	-0.0099	NM	1.42E+01	9.00E+00	120	7	7
17.15085	19.08	6258.3	6258.4	0.3	0.7	-0.0513	-0.0096	NM	1.43E+01	9.03E+00	120	7	7
17.21622	23.45	6315.4	6315.5	0.37	0.6	-0.0508	-0.0099	NM	1.44E+01	9.05E+00	120	7	7
17.28119	26.1	6397.5	6397.6	0.41	0.55	-0.0507	-0.0103	NM	1.44E+01	9.08E+00	120	7	7
17.37297	16.27	6214.6	6214.8	0.26	0.44	-0.0513	-0.0102	NM	1.45E+01	9.12E+00	120	7	7
17.40623	16.54	6308.5	6308.6	0.26	0.39	-0.0515	-0.0101	NM	1.45E+01	9.13E+00	120	7	7
17.43988	11.72	6337.8	6337.9	0.18	0.29	-0.0516	-0.0101	NM	1.45E+01	9.14E+00	120	7	7
17.47313	11.62	6354	6354	0.18	0.39	-0.0512	-0.01	NM	1.46E+01	9.16E+00	120	7	7
17.50559	12.42	6392.1	6392.2	0.19	0.24	-0.0507	-0.01	NM	1.46E+01	9.17E+00	120	7	7
17.54165	13.34	6348.1	6348.2	0.21	0.39	-0.0508	-0.0098	NM	1.46E+01	9.18E+00	120	7	7
17.5733	13.52	6445	6445	0.21	0.19	-0.0511	-0.0097	NM	1.46E+01	9.20E+00	120	7	7
17.61016	12.26	6330.5	6330.5	0.19	0.24	-0.0516	-0.0097	NM	1.47E+01	9.21E+00	120	7	7
17.64742	12.24	6351	6351.1	0.19	0.14	-0.0523	-0.0101	NM	1.47E+01	9.23E+00	120	7	7
17.67507	12.73	6553.6	6553.6	0.19	0.24	-0.0524	-0.01	NM	1.47E+01	9.24E+00	120	7	7
17.70552	13.82	6437.6	6437.7	0.21	0.19	-0.0524	-0.0099	NM	1.48E+01	9.25E+00	120	7	7
17.74038	15.14	6555	6555.1	0.23	0.19	-0.0525	-0.01	NM	1.48E+01	9.26E+00	120	7	7
17.77283	15.25	6625.5	6625.5	0.23	0.09	-0.0527	-0.0101	NM	1.48E+01	9.28E+00	120	7	7
17.82412	16.74	6409.7	6409.7	0.26	-0.01	-0.0528	-0.01	NM	1.49E+01	9.30E+00	120	7	7
17.86101	18.25	6340.8	6340.7	0.29	-0.16	-0.0527	-0.0098	NM	1.49E+01	9.32E+00	120	7	7
17.91106	18.52	6330.5	6330.5	0.29	-0.06	-0.0526	-0.0097	NM	1.49E+01	9.33E+00	120	7	7
17.97036	19.3	6403.9	6403.8	0.3	-0.16	-0.0533	-0.0097	NM	1.50E+01	9.36E+00	120	7	7
18.02766	19.71	6443.5	6443.4	0.31	-0.21	-0.0541	-0.0099	NM	1.50E+01	9.38E+00	120	7	7
18.08335	20.42	6277.7	6277.6	0.33	-0.36	-0.0539	-0.0101	NM	1.51E+01	9.40E+00	120	7	7
18.14105	2.95	6157.3	6157.2	0.05	-0.41	-0.0526	-0.0096	NM	1.51E+01	9.42E+00	120	-99	7
18.19474	0.3	6314.3	6314.3	0	-0.31	-0.0544	-0.0101	NM	1.52E+01	9.45E+00	120	-99	7
18.24842	0.54	6383.3	6383.2	0.01	-0.41	-0.054	-0.0099	NM	1.52E+01	9.47E+00	120	-99	7
18.30292	2.64	6489	6488.9	0.04	-0.46	-0.054	-0.0095	NM	1.53E+01	9.49E+00	120	-99	7
18.3546	8.17	6631.3	6631.3	0.09	-0.41	-0.0551	-0.0099	NM	1.53E+01	9.51E+00	120	-99	7
18.4111	10.8	6668	6667.9	0.16	-0.51	-0.055	-0.0098	NM	1.53E+01	9.53E+00	120	7	7
18.46038	12.75	6185.2	6185.1	0.21	-0.66	-0.055	-0.0096	NM	1.54E+01	9.55E+00	120	7	7
18.49243	12.4	7275.6	7275.5	0.17	-0.56	-0.0547	-0.01	NM	1.54E+01	9.56E+00	120	7	7
18.54011	7.16	7100.9	7100.8	0.1	-0.66	-0.056	-0.0105	NM	1.55E+01	9.58E+00	120	7	7
18.59059	11.49	6965.9	6965.8	0.16	-0.71	-0.0557	-0.0109	NM	1.55E+01	9.60E+00	120	7	7
18.64068	14.58	6772.2	6772.1	0.22	-0.81	-0.0557	-0.011	NM	1.55E+01	9.62E+00	120	7	7
18.68996	15.8	6712	6711.9	0.28	-0.76	-0.0561	-0.0107	NM	1.56E+01	9.64E+00	120	7	7
18.74846	22.7	6265.9	6265.7	0.36	-0.91	-0.0551	-0.0103	NM	1.56E+01	9.67E+00	120	7	7

18.80335	9.93	6271.8	6271.8	0.16	-0.91	-0.0549	-0.0104	NM	1.57E+01	9.69E+00	120	7	7
18.84462	27.21	7190.5	7190.3	0.38	-0.66	-0.0556	-0.0108	NM	1.57E+01	9.71E+00	120	7	7
18.90471	24.74	6868.1	6868	0.36	-0.76	-0.0545	-0.0103	NM	1.58E+01	9.73E+00	120	7	7
18.93717	15.57	6638.7	6638.5	0.23	-0.86	-0.0546	-0.0104	NM	1.58E+01	9.74E+00	120	7	7
18.97083	20.28	6783.9	6783.8	0.3	-0.91	-0.0548	-0.0105	NM	1.58E+01	9.76E+00	120	7	7
19.00889	4.44	6475.8	6475.6	0.07	-0.91	-0.0564	-0.0103	NM	1.58E+01	9.77E+00	120	-99	7
19.05016	15.05	6381.9	6381.7	0.24	-0.66	-0.0559	-0.0103	NM	1.59E+01	9.79E+00	120	7	7
19.09063	28.61	6405.3	6405.2	0.42	-0.76	-0.0553	-0.0103	NM	1.59E+01	9.80E+00	120	7	7
19.13029	33.66	6750.2	6750	0.5	-1.01	-0.0554	-0.0104	NM	1.59E+01	9.82E+00	120	7	7
19.19199	31.58	6245.4	6245.2	0.51	-1.01	-0.0552	-0.0107	NM	1.60E+01	9.84E+00	120	7	7
19.20161	31.03	6108.9	6108.7	0.51	-0.86	-0.055	-0.0107	NM	1.60E+01	9.85E+00	120	7	7
19.24048	32.73	6666.5	6666.4	0.49	-0.95	-0.0553	-0.0101	NM	1.60E+01	9.86E+00	120	7	7
19.27894	34.67	6781	6780.8	0.51	-0.91	-0.0554	-0.0101	NM	1.61E+01	9.88E+00	120	7	7
19.32742	37.37	6886.7	6886.5	0.54	-0.86	-0.0561	-0.011	NM	1.61E+01	9.90E+00	120	7	7
19.42158	37.49	6537.4	6537.2	0.57	-1.01	-0.0562	-0.0108	NM	1.62E+01	9.94E+00	120	7	7
19.46368	40.66	6713.5	6713.3	0.61	-0.91	-0.0564	-0.0099	NM	1.62E+01	9.96E+00	120	7	7
19.55059	48.88	6901.3	6901.2	0.71	-0.95	-0.0553	-0.0109	NM	1.63E+01	9.99E+00	120	7	7
19.6155	55.33	7150.8	7150.7	0.77	-0.86	-0.0547	-0.0106	NM	1.64E+01	1.00E+01	120	7	7
19.68241	47.6	7256.5	7256.3	0.66	-0.91	-0.0551	-0.0101	NM	1.64E+01	1.00E+01	120	7	7
19.74852	45.5	7422.3	7422.1	0.61	-0.95	-0.0567	-0.0111	NM	1.65E+01	1.01E+01	120	7	7
19.81744	49.03	7867	7866.8	0.62	-0.91	-0.0566	-0.0111	NM	1.65E+01	1.01E+01	120	7	7
19.8579	51.88	7156.7	7156.5	0.72	-0.86	-0.0569	-0.0107	NM	1.66E+01	1.01E+01	120	7	7
19.89236	52.65	6431.8	6431.6	0.82	-0.76	-0.0566	-0.0108	NM	1.66E+01	1.01E+01	120	7	7
19.95246	52.57	5985.6	5985.4	0.88	-0.95	-0.054	-0.0098	NM	1.66E+01	1.02E+01	120	6	7
20.01256	52.32	6329	6328.8	0.83	-0.95	-0.0524	-0.0091	NM	1.67E+01	1.02E+01	120	6	7
20.08228	51.91	6625.5	6625.3	0.78	-1.01	-0.0565	-0.0098	NM	1.67E+01	1.02E+01	120	7	7
20.14718	38.59	6229.2	6229.1	0.62	-0.81	-0.0571	-0.0098	NM	1.68E+01	1.02E+01	120	7	7
20.2153	36.36	6239.5	6239.3	0.58	-0.95	-0.0567	-0.0102	NM	1.69E+01	1.03E+01	120	7	7
20.28181	14.01	6309.9	6309.8	0.22	-0.91	-0.0574	-0.0105	NM	1.69E+01	1.03E+01	120	7	7
20.34912	16.56	6467	6466.8	0.26	-0.91	-0.0578	-0.0106	NM	1.70E+01	1.03E+01	120	7	7
20.41323	18.25	6622.5	6622.4	0.28	-0.86	-0.0583	-0.0112	NM	1.70E+01	1.03E+01	120	7	7
20.46491	18.38	6434.7	6434.5	0.29	-0.76	-0.0591	-0.0109	NM	1.71E+01	1.04E+01	120	7	7
20.53102	5.34	6691.5	6691.4	0.09	-0.56	-0.0608	-0.0123	NM	1.71E+01	1.04E+01	120	-99	7
20.58151	11.91	5689.2	5689.1	0.21	-0.51	-0.0601	-0.0121	NM	1.72E+01	1.04E+01	120	7	7
20.59513	14.07	5941.6	5941.5	0.24	-0.61	-0.0598	-0.012	NM	1.72E+01	1.04E+01	120	7	7
20.60397	15.79	5634.4	5634.3	0.28	-0.87	-0.0597	-0.012	NM	1.72E+01	1.04E+01	120	7	7
20.64088	20.51	5884	5883.8	0.35	-0.97	-0.0601	-0.0117	NM	1.72E+01	1.04E+01	120	7	7
20.68982	23.68	5848.8	5848.6	0.4	-0.92	-0.0603	-0.0117	NM	1.72E+01	1.04E+01	120	7	7
20.73876	24.52	5797.4	5797.2	0.42	-1.02	-0.0599	-0.0112	NM	1.73E+01	1.05E+01	120	7	7
20.7873	25.37	5917.7	5917.5	0.43	-1.02	-0.0595	-0.0114	NM	1.73E+01	1.05E+01	120	7	7
20.84025	23.27	6138.5	6138.3	0.38	-1.07	-0.0595	-0.0112	NM	1.74E+01	1.05E+01	120	7	7
20.87314	18.27	6281.8	6281.6	0.29	-1.12	-0.06	-0.0121	NM	1.74E+01	1.05E+01	120	7	7
20.94374	28.5	5431.9	5431.6	0.52	-1.32	-0.0597	-0.0115	NM	1.75E+01	1.05E+01	120	7	7
20.96541	29.99	6228.9	6228.7	0.48	-1.17	-0.0597	-0.0115	NM	1.75E+01	1.06E+01	120	7	7
21.02357	29.31	6299.4	6299.2	0.47	-1.12	-0.0589	-0.011	NM	1.75E+01	1.06E+01	120	7	7
21.08054	40.8	6418.3	6418.1	0.64	-1.12	-0.0588	-0.0106	NM	1.76E+01	1.06E+01	120	7	7
21.14311	58.99	6751.5	6751.3	0.87	-1.17	-0.0582	-0.0098	NM	1.76E+01	1.06E+01	120	6	7
21.17962	61.8	6921.6	6921.5	0.89	-1.17	-0.0579	-0.0096	NM	1.77E+01	1.06E+01	120	6	7
21.20088	61.71	6546	6545.8	0.94	-1.07	-0.0575	-0.0094	NM	1.77E+01	1.07E+01	120	6	7
21.26887	56.58	6927.6	6927.4	0.82	-1.07	-0.0571	-0.009	NM	1.77E+01	1.07E+01	120	7	7
21.30879	50.39	7043.6	7043.4	0.72	-1.12	-0.0571	-0.0089	NM	1.78E+01	1.07E+01	120	7	7
21.35733	43.25	7409.1	7408.9	0.58	-1.12	-0.0569	-0.0086	NM	1.78E+01	1.07E+01	120	7	7

21.40667	42.71	7285.8	7285.6	0.59	-1.17	-0.056	-0.0081	NM	1.78E+01	1.07E+01	120	7	7
21.45842	47.93	6867.5	6867.2	0.7	-1.32	-0.0556	-0.0077	NM	1.79E+01	1.08E+01	120	7	7
21.50655	53.5	6568	6567.8	0.81	-1.22	-0.0544	-0.0081	NM	1.79E+01	1.08E+01	120	7	7
21.55469	51.15	6562.1	6561.9	0.78	-1.17	-0.0537	-0.0079	NM	1.80E+01	1.08E+01	120	7	7
21.60804	57.38	6270	6269.8	0.92	-1.17	-0.0533	-0.0081	NM	1.80E+01	1.08E+01	120	6	7
21.61887	56.44	6223.1	6222.9	0.91	-1.07	-0.0532	-0.0083	NM	1.80E+01	1.08E+01	120	6	7
21.6634	52.9	6682.5	6682.3	0.79	-1.12	-0.0532	-0.0082	NM	1.81E+01	1.08E+01	120	7	7
21.70271	49.96	6565.1	6564.8	0.76	-1.22	0	0	NM	1.81E+01	1.09E+01	120	7	7
21.74483	46.72	6459.4	6459.1	0.72	-1.27	0	0	NM	1.81E+01	1.09E+01	120	7	7
21.78936	40.12	6682.5	6682.3	0.6	-1.02	0	0	NM	1.82E+01	1.09E+01	120	7	7
21.79658	39.45	5914.8	5914.6	0.67	-1.02	0	0	NM	1.82E+01	1.09E+01	120	7	7
21.83469	37.13	6039.6	6039.4	0.61	-1.12	0	0	NM	1.82E+01	1.09E+01	120	7	7
21.87039	36.53	5869.3	5869.1	0.62	-1.22	0	0	NM	1.82E+01	1.09E+01	120	7	7
21.9085	27.42	6044	6043.8	0.45	-1.17	0	0	NM	1.83E+01	1.09E+01	120	7	7
21.95022	17.74	5965.3	5965	0.3	-1.12	0	0	NM	1.83E+01	1.10E+01	120	7	7
21.99194	19.96	6091	6090.7	0.33	-1.07	0	0	NM	1.83E+01	1.10E+01	120	7	7
22.03647	23.04	6162.9	6162.7	0.37	-1.07	0	0	NM	1.84E+01	1.10E+01	120	7	7
22.07859	26.5	6146.7	6146.5	0.43	-1.07	0	0	NM	1.84E+01	1.10E+01	120	7	7
22.12271	23.41	6209.9	6209.7	0.38	-1.02	0	0	NM	1.84E+01	1.10E+01	120	7	7
22.12392	23.31	6080.7	6080.5	0.38	-0.92	0	0	NM	1.84E+01	1.10E+01	120	7	7
22.16604	21.61	6201	6200.8	0.35	-1.02	0	0	NM	1.85E+01	1.10E+01	120	7	7
22.2218	22.93	6331.7	6331.5	0.38	-0.97	0	0	NM	1.85E+01	1.11E+01	120	7	7
22.2932	46.42	6735.4	6735.2	0.69	-1.02	0	0	NM	1.86E+01	1.11E+01	120	7	7
22.35939	41.08	6654.6	6654.4	0.62	-0.92	0	0	NM	1.86E+01	1.11E+01	120	7	7
22.42759	37.6	6481.4	6481.2	0.58	-1.02	0	0	NM	1.87E+01	1.11E+01	120	7	7
22.49498	28.25	6293.5	6293.3	0.45	-1.07	0	0	NM	1.88E+01	1.12E+01	120	7	7
22.56638	33.04	6598.8	6598.7	0.5	-0.92	0	0	NM	1.88E+01	1.12E+01	120	7	7
22.63297	33.19	6273	6272.8	0.53	-0.82	0	0	NM	1.89E+01	1.12E+01	120	7	7
22.70358	25.43	6478.5	6478.3	0.39	-0.87	0	0	NM	1.89E+01	1.13E+01	120	7	7
22.77137	28.71	6748.6	6748.4	0.43	-0.87	0	0	NM	1.90E+01	1.13E+01	120	7	7
22.80226	32.29	5983.8	5983.6	0.54	-1.02	0	0	NM	1.90E+01	1.13E+01	120	7	7
22.83958	43.33	6814.6	6814.4	0.64	-1.22	0	0	NM	1.90E+01	1.13E+01	120	7	7
22.87005	51.66	7037.7	7037.5	0.73	-1.17	0	0	NM	1.91E+01	1.13E+01	120	7	7
22.90936	47.2	7318.1	7317.9	0.64	-1.12	0	0	NM	1.91E+01	1.13E+01	120	7	7
22.94667	38.75	7633.7	7633.5	0.51	-0.97	0	0	NM	1.91E+01	1.14E+01	120	7	7
22.98799	46.55	7884.7	7884.5	0.59	-0.97	0	0	NM	1.92E+01	1.14E+01	120	7	7
23.01687	45.77	7108.2	7108	0.64	-1.07	0	0	NM	1.92E+01	1.14E+01	120	7	7
23.05779	19.45	7444.3	7444.1	0.26	-1.02	0	0	NM	1.92E+01	1.14E+01	120	7	7
23.09469	34.85	7937.5	7937.3	0.44	-1.07	0	0	NM	1.93E+01	1.14E+01	120	7	7
23.1336	43.57	7820.1	7819.9	0.56	-1.22	0	0	NM	1.93E+01	1.14E+01	120	7	7
23.17171	40.48	7227.1	7226.9	0.56	-0.97	0	0	NM	1.93E+01	1.14E+01	120	7	7
23.21062	40.63	6958.5	6958.3	0.58	-0.82	0	0	NM	1.93E+01	1.15E+01	120	7	7
23.26317	45.43	6753	6752.8	0.67	-0.82	0	0	NM	1.94E+01	1.15E+01	120	7	7
23.29448	52.6	6678.1	6677.9	0.79	-0.87	0	0	NM	1.94E+01	1.15E+01	120	7	7
23.34902	56.75	6358.1	6358	0.89	-0.67	0	0	NM	1.95E+01	1.15E+01	120	6	7
23.38894	51.3	6453.5	6453.3	0.79	-0.92	0	0	NM	1.95E+01	1.15E+01	120	6	7
23.40037	49.92	5928	5927.8	0.84	-0.97	0	0	NM	1.95E+01	1.15E+01	120	6	7
23.46655	46.75	5732.8	5732.6	0.82	-1.02	0	0	NM	1.96E+01	1.16E+01	120	6	7
23.53314	43.28	5900.1	5899.9	0.73	-1.02	0	0	NM	1.96E+01	1.16E+01	120	7	7
23.59893	26.24	5891.3	5891.1	0.45	-1.12	0	0	NM	1.97E+01	1.16E+01	120	7	7
23.6559	0	5387.3	5387.1	0	-1.17	0	0	NM	1.97E+01	1.16E+01	120	-99	7
23.67796	0	5383.4	5383.2	0	-1.02	0	0	NM	1.97E+01	1.16E+01	120	-99	7

23.74816	0	5257.2	5257	0	-0.97	0	0	NM	1.98E+01	1.17E+01	120	-99	7
23.81555	0	5298.3	5298.1	0	-0.97	0	0	NM	1.99E+01	1.17E+01	120	-99	7
23.88174	0	5136.8	5136.7	0	-0.82	0	0	NM	1.99E+01	1.17E+01	120	-99	7
23.92547	0	4714.1	4713.9	0	-0.92	0	0	NM	1.99E+01	1.17E+01	120	-99	7
23.92587	0	1285	1284.8	0	-1.05	0	0	NM	1.99E+01	1.17E+01	120	-99	6
23.95193	0	4765.6	4765.5	0	-0.7	0	0	NM	2.00E+01	1.18E+01	120	-99	7
23.99924	0	5021.1	5021	0	-0.75	0	0	NM	2.00E+01	1.18E+01	120	-99	7

Electric Cone Penetrometer Data

Cone_TAP v 2.90

Test Id: HD-03 Date: 4-Nov-03

Site: SUNNYSIDE Cone Id: 108.034XXX

Location: QUEENS NY

Project: RROUX Soil Density(pcf): 120

Client: ROUX

Depth (ft)	Sleeve Stress (psi)	Tip Stress UNC (psi)	Tip Stress COR (psi)	Ratio COR (%)	Pore Pressure (psi)	LFFD (V)	HFFD (V)	Excitation (Vdc)	Overburden (psi)	Eff. Overburden (psi)	Wet Density (pcf)	Class. FR (Rob. 1990)	Class. PP (Rob. 1990)
0	0	0	0	0	0	0	0	NM	0.00E+00	0.00E+00	120	-99	-99
0.14766	0	-1	-1	0	0.02	0.0137	0.0041	NM	1.23E-01	5.91E-02	120	-99	-99
0.17895	0	-1	-1	0	-0.03	0.0135	0.0043	NM	1.49E-01	7.16E-02	120	-99	-99
0.20945	0	-1	-1	0	0.02	0.0133	0.0045	NM	1.75E-01	8.38E-02	120	-99	-99
0.26843	0	0.4	0.4	0	0.02	0.0132	0.0038	NM	2.24E-01	1.07E-01	120	-99	-99
0.32822	-0.13	0.4	0.4	-29.86	0.02	0.0141	0.0044	NM	2.74E-01	1.31E-01	120	-99	-99
0.3888	-0.1	-1	-1	9.51	0.02	0.0132	0.0044	NM	3.24E-01	1.56E-01	120	-99	-99
0.4209	-0.17	-2.5	-2.5	6.94	-0.03	0.0136	0.0044	NM	3.51E-01	1.68E-01	120	-99	-99
0.47948	-0.15	16.6	16.6	-0.88	0.02	0.0241	0.0055	NM	4.00E-01	1.92E-01	120	-99	6
0.516	-0.14	21	21	-0.67	0.02	0.048	0.0077	NM	4.30E-01	2.06E-01	120	-99	6
0.55773	-0.14	28.3	28.3	-0.48	-0.03	0	0	NM	4.65E-01	2.23E-01	120	-99	6
0.60106	-0.13	38.6	38.6	-0.33	0.02	0	0	NM	5.01E-01	2.40E-01	120	-99	6
0.64319	-0.12	51.8	51.8	-0.24	0.02	0	0	NM	5.36E-01	2.57E-01	120	-99	7
0.68613	-0.12	73.8	73.8	-0.16	0.07	0	0	NM	5.72E-01	2.75E-01	120	-99	7
0.72504	-0.12	95.8	95.8	-0.13	0.07	0	0	NM	6.04E-01	2.90E-01	120	-99	7
0.75875	-0.12	114.8	114.9	-0.11	0.22	0	0	NM	6.32E-01	3.04E-01	120	-99	7
0.81412	-0.12	150	150.1	-0.08	0.32	0	0	NM	6.78E-01	3.26E-01	120	-99	7
1.02556	-0.13	155.9	156	-0.09	0.47	0	0	NM	8.55E-01	4.10E-01	120	-99	7
1.48889	-0.11	71.2	71.2	-0.15	-0.02	0	0	NM	1.24E+00	5.96E-01	120	-99	6
1.62323	-0.17	66.8	66.8	-0.25	-0.07	0	0	NM	1.35E+00	6.49E-01	120	-99	6
1.72187	-0.16	52.1	52.1	-0.3	-0.12	0	0	NM	1.44E+00	6.89E-01	120	-99	6
1.79245	-0.09	40.4	40.4	-0.22	-0.12	0	0	NM	1.49E+00	7.17E-01	120	-99	6
1.86303	-0.15	34.5	34.5	-0.43	-0.12	0	0	NM	1.55E+00	7.45E-01	120	-99	6
1.92679	-0.14	28.7	28.6	-0.5	-0.07	0	0	NM	1.61E+00	7.71E-01	120	-99	6
1.99456	-0.1	19.9	19.8	-0.5	-0.12	0	0	NM	1.66E+00	7.98E-01	120	-99	5
2.06073	-0.15	18.4	18.4	-0.81	-0.12	0	0	NM	1.72E+00	8.24E-01	120	-99	5
2.1273	-0.16	15.5	15.4	-1.03	-0.12	0	0	NM	1.77E+00	8.51E-01	120	-99	5
2.19106	-0.15	18.4	18.4	-0.81	-0.12	0	0	NM	1.83E+00	8.76E-01	120	-99	5
2.25602	-0.17	46.3	46.2	-0.37	-0.07	0	0	NM	1.88E+00	9.02E-01	120	-99	6
2.32059	-0.08	0.8	0.8	-9.58	-0.12	0	0	NM	1.93E+00	9.28E-01	120	-99	-99
2.38555	0.18	5.2	5.1	3.58	-0.32	0	0	NM	1.99E+00	9.54E-01	120	3	-99
2.45292	0.98	19.9	19.8	4.95	-0.22	0	0	NM	2.04E+00	9.81E-01	120	3	5
2.51828	4.6	97.6	97.6	4.71	-0.02	0	0	NM	2.10E+00	1.01E+00	120	9	6
2.58004	0	223.6	223.7	0	0.13	0	0	NM	2.15E+00	1.03E+00	120	-99	7
2.6442	0	380.5	380.6	0	0.18	0	0	NM	2.20E+00	1.06E+00	120	-99	7
2.70556	0	587.2	587.3	0	0.18	0	0	NM	2.26E+00	1.08E+00	120	-99	7
2.77253	0	858.5	858.6	0	0.68	0	0	NM	2.31E+00	1.11E+00	120	-99	7
2.83589	0	1128.2	1128.4	0	0.93	0	0	NM	2.36E+00	1.13E+00	120	-99	7
2.90446	0	918.6	918.8	0	1.38	0	0	NM	2.42E+00	1.16E+00	120	-99	7

Electric Cone Penetrometer Data

Cone_TAP v 2.90

Test Id: HD-03A Date: 04/Nov/2003

Site: SUNNYSIDE Cone Id: 108.034XXX

Location: QUEENS NY

Project: RROUX Soil Density(pcf): 120

Client: ROUX

Depth (ft)	Sleeve Stress (psi)	Tip Stress UNC (psi)	Tip Stress COR (psi)	Ratio COR (%)	Pore Pressure (psi)	LFFD (V)	HFFD (V)	Exitation (Vdc)	Overburden (psi)	Eff. Overburden (psi)	Wet Density (pcf)	Class. FR (Rob. 1990)	Class. PP (Rob. 1990)
0.00000	0.00	0.0	0.0	0.00	0.00	0.0000	0.0000	NM	0.0000E+00	0.0000E+00	120.00	-99.	-99.
0.17429	0.00	1762.9	1763.0	0.00	0.43	0.0235	0.0198	NM	0.1452E+00	0.6972E-01	120.00	-99.	-99.
0.25683	0.00	2070.7	2070.8	0.00	0.58	0.0231	0.0199	NM	0.2140E+00	0.1027E+00	120.00	-99.	-99.
0.32694	12.88	2277.4	2277.6	0.56	0.93	0.0237	0.0202	NM	0.2725E+00	0.1308E+00	120.00	-99.	-99.
0.40107	16.28	2470.9	2471.0	0.66	0.88	0.0201	0.0194	NM	0.3342E+00	0.1604E+00	120.00	-99.	-99.
0.47479	22.88	2784.5	2784.7	0.82	0.98	0.0149	0.0180	NM	0.3957E+00	0.1899E+00	120.00	-99.	-99.
0.54491	24.24	3070.3	3070.6	0.79	1.53	0.0142	0.0178	NM	0.4541E+00	0.2180E+00	120.00	-99.	-99.
0.61542	18.60	3338.6	3338.9	0.56	1.63	0.0154	0.0182	NM	0.5129E+00	0.2462E+00	120.00	-99.	-99.
0.68835	24.71	3322.4	3322.7	0.74	1.13	0.0150	0.0182	NM	0.5736E+00	0.2753E+00	120.00	-99.	-99.
0.75846	22.93	3291.7	3291.9	0.70	1.33	0.0143	0.0177	NM	0.6304E+00	0.3026E+00	120.00	-99.	-99.
0.83018	21.65	3350.3	3350.7	0.65	1.97	0.0145	0.0186	NM	0.6918E+00	0.3321E+00	120.00	-99.	-99.
0.89909	23.44	3189.1	3189.4	0.74	1.73	0.0141	0.0189	NM	0.7492E+00	0.3596E+00	120.00	-99.	-99.
0.97202	23.84	3445.6	3445.8	0.69	1.08	0.0156	0.0190	NM	0.8100E+00	0.3888E+00	120.00	-99.	-99.
1.05536	21.24	2756.7	2756.8	0.77	0.88	0.0157	0.0191	NM	0.8795E+00	0.4221E+00	120.00	-99.	-99.
1.13348	22.15	3058.6	3058.8	0.72	0.88	0.0154	0.0183	NM	0.9446E+00	0.4534E+00	120.00	-99.	-99.
1.21282	25.34	2805.0	2805.4	0.90	1.73	0.0145	0.0185	NM	0.1011E+01	0.4851E+00	120.00	-99.	-99.
1.29175	23.17	2728.8	2729.2	0.85	1.87	0.0146	0.0187	NM	0.1076E+01	0.5167E+00	120.00	-99.	-99.
1.36828	21.06	2800.6	2801.3	0.75	3.27	0.0147	0.0188	NM	0.1140E+01	0.5473E+00	120.00	-99.	-99.
1.45081	19.14	2243.7	2244.2	0.85	2.72	0.0145	0.0191	NM	0.1209E+01	0.5803E+00	120.00	-99.	-99.
1.52854	18.41	2056.1	2056.5	0.90	2.27	0.0156	0.0190	NM	0.1274E+01	0.6114E+00	120.00	-99.	-99.
1.78089	16.83	1437.6	1438.1	1.17	2.86	0.0013	0.0139	NM	0.1484E+01	0.7124E+00	120.00	-99.	-99.
1.86517	16.91	1245.7	1246.3	1.36	3.16	0.0002	0.0141	NM	0.1554E+01	0.7461E+00	120.00	-99.	-99.
1.94263	17.20	1061.2	1061.6	1.62	2.31	0.0009	0.0143	NM	0.1619E+01	0.7771E+00	120.00	-99.	-99.
2.02009	16.73	866.4	866.8	1.93	2.31	0.0008	0.0145	NM	0.1683E+01	0.8080E+00	120.00	-99.	-99.
2.09675	15.70	678.9	679.6	2.31	3.61	0.0036	0.0149	NM	0.1747E+01	0.8387E+00	120.00	8.	7.
2.17501	15.71	681.8	682.7	2.30	4.40	0.0036	0.0153	NM	0.1813E+01	0.8700E+00	120.00	8.	7.
2.25568	17.10	744.8	745.6	2.29	4.10	0.0037	0.0149	NM	0.1880E+01	0.9023E+00	120.00	8.	7.
2.33755	16.35	709.7	710.2	2.30	2.46	0.0015	0.0147	NM	0.1948E+01	0.9350E+00	120.00	8.	7.
2.41380	14.87	700.9	701.2	2.12	1.66	0.0029	0.0152	NM	0.2012E+01	0.9655E+00	120.00	8.	7.
2.49287	13.88	633.5	633.8	2.19	1.26	0.0041	0.0160	NM	0.2077E+01	0.9971E+00	120.00	8.	7.
2.57113	14.39	482.7	483.1	2.98	2.06	0.0050	0.0165	NM	0.2143E+01	0.1028E+01	120.00	8.	7.
2.64859	14.72	484.1	484.8	3.04	3.61	0.0127	0.0179	NM	0.2207E+01	0.1059E+01	120.00	8.	7.
2.73048	13.09	566.1	567.0	2.31	4.60	0.0104	0.0174	NM	0.2275E+01	0.1092E+01	120.00	8.	7.
2.81032	11.85	706.7	707.6	1.67	4.55	0.0157	0.0192	NM	0.2342E+01	0.1124E+01	120.00	8.	7.
2.88698	11.76	797.5	798.0	1.47	2.56	0.0161	0.0191	NM	0.2406E+01	0.1155E+01	120.00	6.	7.
2.96484	12.91	900.1	900.4	1.43	1.91	0.0104	0.0176	NM	0.2471E+01	0.1186E+01	120.00	6.	7.
3.04190	14.19	954.3	954.8	1.49	1.51	0.0150	0.0185	NM	0.2535E+01	0.1217E+01	120.00	6.	7.
3.12257	15.82	933.8	934.0	1.69	1.26	0.0072	0.0160	NM	0.2602E+01	0.1249E+01	120.00	6.	7.
3.20163	16.53	961.6	961.8	1.72	0.97	0.0071	0.0172	NM	0.2668E+01	0.1281E+01	120.00	6.	7.

3.27869	17.40	958.7	958.8	1.81	0.82	0.0064	0.0167	NM	0.2732E+01	0.1311E+01	120.00	8.	7.
3.35855	18.06	1245.7	1245.9	1.45	0.67	0.0062	0.0162	NM	0.2799E+01	0.1343E+01	120.00	8.	7.
3.43762	22.50	794.6	794.7	2.83	0.37	0.0049	0.0170	NM	0.2865E+01	0.1375E+01	120.00	8.	7.
3.51387	26.04	945.5	945.6	2.75	0.42	0.0050	0.0169	NM	0.2928E+01	0.1406E+01	120.00	8.	7.
3.59494	23.41	1569.4	1569.5	1.49	0.62	0.0059	0.0174	NM	0.2996E+01	0.1438E+01	120.00	-99.	-99.
3.67039	20.07	2311.9	2312.0	0.87	0.37	0.0056	0.0165	NM	0.3059E+01	0.1468E+01	120.00	-99.	-99.
3.74585	20.49	2732.3	2732.3	0.75	-0.03	0.0078	0.0174	NM	0.3122E+01	0.1498E+01	120.00	-99.	-99.
3.82330	24.34	2985.7	2985.6	0.82	-0.23	0.0088	0.0173	NM	0.3186E+01	0.1529E+01	120.00	-99.	-99.
3.90116	27.13	2905.1	2905.1	0.93	-0.03	0.0082	0.0175	NM	0.3251E+01	0.1560E+01	120.00	-99.	-99.
3.98063	26.48	3083.8	3083.8	0.86	0.02	0.0032	0.0167	NM	0.3317E+01	0.1592E+01	120.00	-99.	-99.
4.06009	24.17	3102.8	3102.8	0.78	0.02	0.0016	0.0162	NM	0.3383E+01	0.1624E+01	120.00	-99.	-99.
4.13755	20.91	3026.7	3026.7	0.69	0.17	0.0016	0.0161	NM	0.3448E+01	0.1655E+01	120.00	-99.	-99.
4.21902	19.90	2894.9	2895.0	0.69	0.52	0.0013	0.0169	NM	0.3516E+01	0.1688E+01	120.00	-99.	-99.
4.29688	23.03	2921.2	2921.3	0.79	0.27	0.0019	0.0169	NM	0.3581E+01	0.1719E+01	120.00	-99.	-99.
4.37595	33.40	2902.2	2902.2	1.15	0.12	0.0023	0.0164	NM	0.3647E+01	0.1750E+01	120.00	-99.	-99.
4.45541	46.34	2909.5	2909.5	1.59	0.07	0.0025	0.0166	NM	0.3713E+01	0.1782E+01	120.00	-99.	-99.
4.53528	51.07	2720.6	2720.6	1.88	0.07	0.0020	0.0175	NM	0.3779E+01	0.1814E+01	120.00	-99.	-99.
4.61354	48.00	2568.3	2568.3	1.87	0.22	0.0026	0.0175	NM	0.3845E+01	0.1845E+01	120.00	-99.	-99.
4.69019	40.97	2915.4	2915.4	1.41	0.32	0.0044	0.0192	NM	0.3908E+01	0.1876E+01	120.00	-99.	-99.
4.76605	36.72	3035.5	3035.5	1.21	0.42	0.0053	0.0190	NM	0.3972E+01	0.1906E+01	120.00	-99.	-99.
4.87268	28.42	1787.9	1787.5	1.59	-1.87	0.0058	0.0172	NM	0.4061E+01	0.1949E+01	120.00	8.	7.
4.94764	20.30	2183.6	2183.2	0.93	-1.91	0.0063	0.0172	NM	0.4123E+01	0.1979E+01	120.00	-99.	-99.
5.02380	18.22	2123.5	2123.2	0.86	-1.42	0.0035	0.0169	NM	0.4187E+01	0.2010E+01	120.00	-99.	-99.
5.10277	15.44	2035.6	2035.3	0.76	-1.57	0.0034	0.0169	NM	0.4252E+01	0.2041E+01	120.00	7.	7.
5.18535	11.44	1971.1	1970.8	0.58	-1.57	0.0042	0.0174	NM	0.4321E+01	0.2074E+01	120.00	7.	7.
5.26352	11.08	1877.3	1877.0	0.59	-1.42	0.0046	0.0174	NM	0.4386E+01	0.2105E+01	120.00	7.	7.
5.34048	14.58	1850.9	1850.6	0.79	-1.32	0.0048	0.0187	NM	0.4450E+01	0.2136E+01	120.00	7.	7.
5.41665	18.22	1887.5	1887.3	0.97	-1.32	0.0064	0.0193	NM	0.4514E+01	0.2167E+01	120.00	8.	7.
5.49521	18.24	1868.5	1868.2	0.87	-1.27	0.0135	0.0353	NM	0.4579E+01	0.2198E+01	120.00	7.	7.
5.57498	14.98	1913.9	1913.7	0.78	-0.97	0.0233	0.0581	NM	0.4646E+01	0.2230E+01	120.00	7.	7.
5.65756	13.82	1754.1	1754.1	0.79	-0.02	0.0294	0.0675	NM	0.4715E+01	0.2263E+01	120.00	7.	7.
5.73412	13.12	1660.3	1660.3	0.79	0.08	0.0416	0.0963	NM	0.4778E+01	0.2294E+01	120.00	7.	7.
5.81390	12.73	1664.7	1664.8	0.76	0.08	0.0299	0.0655	NM	0.4845E+01	0.2326E+01	120.00	7.	7.
5.89126	12.14	1663.3	1663.3	0.73	-0.07	0.0248	0.0546	NM	0.4909E+01	0.2357E+01	120.00	7.	7.
5.96983	12.30	1661.8	1661.8	0.74	-0.07	0.0230	0.0469	NM	0.4975E+01	0.2388E+01	120.00	7.	7.
6.05161	12.10	1654.5	1654.5	0.73	0.03	0.0218	0.0456	NM	0.5043E+01	0.2421E+01	120.00	7.	7.
6.13097	12.03	1653.0	1653.0	0.73	-0.07	0.0222	0.0464	NM	0.5109E+01	0.2452E+01	120.00	7.	7.
6.20874	11.96	1651.5	1651.5	0.72	-0.12	0.0182	0.0399	NM	0.5174E+01	0.2483E+01	120.00	7.	7.
6.28731	11.91	1647.1	1647.1	0.72	-0.12	0.0164	0.0364	NM	0.5239E+01	0.2515E+01	120.00	7.	7.
6.36387	12.05	1632.5	1632.5	0.74	-0.07	0.0149	0.0326	NM	0.5303E+01	0.2548E+01	120.00	7.	7.
6.44445	12.16	1622.2	1622.2	0.75	-0.12	0.0136	0.0306	NM	0.5370E+01	0.2578E+01	120.00	7.	7.
6.52382	12.23	1610.5	1610.5	0.76	-0.17	0.0128	0.0282	NM	0.5437E+01	0.2610E+01	120.00	7.	7.
6.60118	12.24	1600.2	1600.2	0.76	-0.22	0.0105	0.0255	NM	0.5501E+01	0.2640E+01	120.00	7.	7.
6.68175	12.26	1614.9	1614.9	0.76	-0.12	0.0096	0.0228	NM	0.5568E+01	0.2673E+01	120.00	7.	7.
6.76072	12.27	1639.8	1639.8	0.75	-0.02	0.0099	0.0212	NM	0.5634E+01	0.2704E+01	120.00	7.	7.
6.83729	12.32	1661.8	1661.8	0.74	-0.12	0.0084	0.0195	NM	0.5698E+01	0.2735E+01	120.00	7.	7.
6.91906	12.34	1702.8	1702.8	0.72	-0.12	0.0070	0.0188	NM	0.5766E+01	0.2768E+01	120.00	7.	7.
6.99563	12.45	1761.5	1761.5	0.71	-0.07	0.0072	0.0179	NM	0.5830E+01	0.2798E+01	120.00	7.	7.
7.07099	11.84	1821.6	1821.6	0.65	-0.07	0.0070	0.0181	NM	0.5892E+01	0.2828E+01	120.00	7.	7.
7.14916	10.75	1902.2	1902.2	0.57	-0.02	0.0066	0.0174	NM	0.5958E+01	0.2860E+01	120.00	7.	7.
7.22732	10.73	1976.9	1976.9	0.54	-0.12	0.0057	0.0176	NM	0.6023E+01	0.2891E+01	120.00	7.	7.
7.30629	10.73	2051.7	2051.7	0.52	0.03	0.0049	0.0171	NM	0.6088E+01	0.2923E+01	120.00	7.	7.

7.38606	10.20	2149.9	2149.9	0.47	-0.02	0.0045	0.0171	NM	0.6155E+01	0.2954E+01	120.00	7.	7.
7.46343	9.26	2259.8	2259.8	0.41	-0.12	0.0043	0.0163	NM	0.6220E+01	0.2985E+01	120.00	7.	7.
7.54400	8.91	2325.8	2325.8	0.36	0.03	0.0033	0.0156	NM	0.6287E+01	0.3018E+01	120.00	7.	7.
7.62257	9.53	2360.9	2360.9	0.40	-0.12	0.0033	0.0159	NM	0.6352E+01	0.3049E+01	120.00	7.	7.
7.70154	11.28	2348.3	2348.3	0.48	-0.12	0.0025	0.0156	NM	0.6418E+01	0.3081E+01	120.00	7.	7.
7.77971	12.02	2271.5	2271.5	0.53	-0.12	0.0025	0.0152	NM	0.6483E+01	0.3112E+01	120.00	7.	7.
7.85948	11.26	2293.5	2293.5	0.49	-0.12	0.0019	0.0157	NM	0.6550E+01	0.3144E+01	120.00	7.	7.
7.93724	12.18	2198.2	2198.2	0.55	-0.02	0.0025	0.0161	NM	0.6614E+01	0.3175E+01	120.00	7.	7.
8.02062	11.80	2080.0	2080.9	0.57	-0.42	0.0028	0.0161	NM	0.6684E+01	0.3208E+01	120.00	7.	7.
8.09719	10.84	2051.7	2051.6	0.53	-0.27	0.0031	0.0166	NM	0.6748E+01	0.3239E+01	120.00	7.	7.
8.19459	10.63	1956.4	1956.4	0.54	-0.07	0.0032	0.0168	NM	0.6829E+01	0.3278E+01	120.00	7.	7.
8.27036	10.11	2015.0	2015.0	0.50	-0.17	0.0034	0.0165	NM	0.6892E+01	0.3308E+01	120.00	7.	7.
8.34892	9.98	2051.7	2051.6	0.49	-0.17	0.0027	0.0165	NM	0.6957E+01	0.3340E+01	120.00	7.	7.
8.42990	9.58	2108.8	2108.8	0.45	-0.12	0.0028	0.0166	NM	0.7025E+01	0.3372E+01	120.00	7.	7.
8.51047	13.03	2148.4	2148.4	0.61	-0.07	0.0037	0.0169	NM	0.7092E+01	0.3404E+01	120.00	7.	7.
8.58623	16.88	2188.0	2188.0	0.77	-0.07	0.0037	0.0172	NM	0.7155E+01	0.3434E+01	120.00	7.	7.
8.66320	15.74	2229.0	2229.0	0.71	-0.12	0.0042	0.0171	NM	0.7219E+01	0.3465E+01	120.00	7.	7.
8.74056	14.69	2341.9	2341.9	0.63	-0.12	0.0037	0.0170	NM	0.7284E+01	0.3496E+01	120.00	7.	7.
8.82154	14.28	2325.8	2325.7	0.61	-0.12	0.0038	0.0167	NM	0.7351E+01	0.3529E+01	120.00	7.	7.
8.90331	14.19	2180.7	2180.8	0.65	0.58	0.0031	0.0167	NM	0.7419E+01	0.3561E+01	120.00	7.	7.
8.98228	13.81	2248.1	2248.1	0.61	0.13	0.0032	0.0167	NM	0.7485E+01	0.3593E+01	120.00	7.	7.
9.06125	12.94	2299.4	2299.4	0.56	0.13	0.0033	0.0166	NM	0.7551E+01	0.3624E+01	120.00	7.	7.
9.13982	12.24	2336.0	2336.0	0.52	0.08	0.0035	0.0165	NM	0.7617E+01	0.3656E+01	120.00	7.	7.
9.21558	11.70	2382.9	2382.9	0.49	0.08	0.0035	0.0163	NM	0.7680E+01	0.3686E+01	120.00	7.	7.
9.29695	11.39	2441.6	2441.6	0.47	0.03	0.0032	0.0164	NM	0.7747E+01	0.3719E+01	120.00	7.	7.
9.37712	10.89	2479.7	2479.7	0.44	0.08	0.0031	0.0170	NM	0.7814E+01	0.3751E+01	120.00	7.	7.
9.45409	10.64	2548.5	2548.6	0.42	0.13	0.0031	0.0169	NM	0.7878E+01	0.3782E+01	120.00	7.	7.
9.53226	10.74	2602.8	2602.8	0.41	0.08	0.0036	0.0167	NM	0.7944E+01	0.3813E+01	120.00	7.	7.
9.61042	10.34	2655.5	2655.5	0.39	-0.02	0.0039	0.0171	NM	0.8009E+01	0.3844E+01	120.00	7.	7.
9.68779	10.50	2736.2	2736.2	0.38	0.03	0.0039	0.0171	NM	0.8073E+01	0.3875E+01	120.00	7.	7.
9.76997	11.88	2802.1	2802.1	0.42	-0.12	0.0043	0.0168	NM	0.8142E+01	0.3908E+01	120.00	7.	7.
9.84774	12.86	2884.2	2884.2	0.45	-0.22	0.0046	0.0171	NM	0.8206E+01	0.3939E+01	120.00	7.	7.
9.92710	13.04	3000.0	2999.9	0.43	-0.17	0.0050	0.0170	NM	0.8273E+01	0.3971E+01	120.00	7.	7.
10.00447	12.77	3120.2	3120.1	0.41	-0.32	0.0054	0.0170	NM	0.8337E+01	0.4002E+01	120.00	7.	7.
10.08184	13.22	3054.2	3054.2	0.43	-0.12	0.0054	0.0170	NM	0.8402E+01	0.4033E+01	120.00	7.	7.
10.16080	13.82	3083.5	3083.5	0.45	-0.32	0.0052	0.0170	NM	0.8467E+01	0.4064E+01	120.00	7.	7.
10.24138	15.10	3183.2	3183.2	0.47	-0.07	0.0045	0.0166	NM	0.8534E+01	0.4097E+01	120.00	7.	7.
10.31674	15.37	3252.1	3252.0	0.47	-0.22	0.0045	0.0165	NM	0.8597E+01	0.4127E+01	120.00	7.	7.
10.39410	14.27	3337.1	3337.1	0.43	-0.17	0.0045	0.0170	NM	0.8662E+01	0.4158E+01	120.00	7.	7.
10.47107	13.97	3429.4	3429.4	0.41	-0.02	0.0040	0.0168	NM	0.8726E+01	0.4188E+01	120.00	7.	7.
10.55044	13.71	3502.7	3502.7	0.39	-0.02	0.0033	0.0167	NM	0.8792E+01	0.4220E+01	120.00	7.	7.
10.62821	13.95	3529.1	3529.1	0.40	-0.02	0.0030	0.0166	NM	0.8857E+01	0.4251E+01	120.00	7.	7.
10.70677	14.46	3539.4	3539.3	0.41	-0.17	0.0029	0.0163	NM	0.8922E+01	0.4283E+01	120.00	7.	7.
10.78614	15.19	3561.3	3561.3	0.43	-0.12	0.0039	0.0164	NM	0.8988E+01	0.4314E+01	120.00	7.	7.
10.86471	15.44	3595.1	3595.0	0.43	-0.17	0.0045	0.0170	NM	0.9054E+01	0.4346E+01	120.00	7.	7.
10.94128	15.04	3640.5	3640.4	0.41	-0.67	0.0041	0.0167	NM	0.9118E+01	0.4377E+01	120.00	7.	7.
11.02225	15.13	3659.5	3659.4	0.41	-0.57	0.0042	0.0163	NM	0.9185E+01	0.4409E+01	120.00	7.	7.
11.10002	15.47	3669.8	3669.7	0.42	-0.57	0.0045	0.0165	NM	0.9250E+01	0.4440E+01	120.00	7.	7.
11.17898	15.81	3595.1	3595.0	0.44	-0.27	0.0040	0.0169	NM	0.9316E+01	0.4472E+01	120.00	7.	7.
11.25875	15.82	3622.9	3622.9	0.44	-0.27	0.0031	0.0167	NM	0.9381E+01	0.4503E+01	120.00	7.	7.
11.33532	15.92	3653.7	3653.6	0.44	-0.32	0.0038	0.0165	NM	0.9448E+01	0.4534E+01	120.00	7.	7.
11.55771	17.70	3743.6	3743.6	0.47	-0.13	0.0030	0.0166	NM	0.9631E+01	0.4623E+01	120.00	7.	7.

11.63744	16.54	3752.5	3752.4	0.44	-0.28	0.0035	0.0166	NM	0.9898E+01	0.4655E+01	120.00	7.	7.
11.71957	16.10	3800.8	3800.8	0.42	-0.28	0.0042	0.0167	NM	0.9766E+01	0.4688E+01	120.00	7.	7.
11.79810	15.88	3834.5	3834.4	0.41	-0.56	0.0047	0.0168	NM	0.9630E+01	0.4716E+01	120.00	7.	7.
11.87143	17.94	3860.1	3860.0	0.49	-0.53	0.0039	0.0168	NM	0.9893E+01	0.4749E+01	120.00	7.	7.
11.94876	20.93	3623.4	3623.4	0.58	-0.33	0.0038	0.0170	NM	0.9957E+01	0.4780E+01	120.00	7.	7.
12.02889	20.56	3553.1	3553.0	0.58	-0.48	0.0042	0.0171	NM	0.1002E+02	0.4811E+01	120.00	7.	7.
12.10822	22.58	3605.8	3605.8	0.63	-0.48	0.0043	0.0167	NM	0.1009E+02	0.4843E+01	120.00	7.	7.
12.18675	23.94	3739.3	3739.1	0.64	-1.03	0.0050	0.0173	NM	0.1016E+02	0.4875E+01	120.00	7.	7.
12.26528	22.35	3709.9	3709.8	0.60	-0.58	0.0056	0.0181	NM	0.1022E+02	0.4906E+01	120.00	7.	7.
12.34261	20.55	3777.4	3777.2	0.54	-0.68	0.0046	0.0172	NM	0.1029E+02	0.4937E+01	120.00	7.	7.
12.42114	19.40	3759.8	3759.7	0.52	-0.58	0.0045	0.0176	NM	0.1035E+02	0.4968E+01	120.00	7.	7.
12.49887	19.20	3940.1	3940.0	0.49	-0.58	0.0041	0.0175	NM	0.1042E+02	0.5000E+01	120.00	7.	7.
12.58061	18.83	4055.9	4055.8	0.46	-0.63	0.0032	0.0173	NM	0.1048E+02	0.5032E+01	120.00	7.	7.
12.65794	18.19	4120.4	4120.2	0.44	-0.98	0.0053	0.0178	NM	0.1055E+02	0.5063E+01	120.00	7.	7.
12.73647	17.03	4253.8	4253.7	0.40	-0.93	0.0051	0.0173	NM	0.1061E+02	0.5095E+01	120.00	7.	7.
12.81139	16.63	4300.8	4300.6	0.39	-0.98	0.0039	0.0166	NM	0.1068E+02	0.5125E+01	120.00	7.	7.
12.88872	17.81	4296.4	4296.2	0.41	-0.98	0.0034	0.0178	NM	0.1074E+02	0.5155E+01	120.00	7.	7.
12.96805	18.48	4333.0	4332.8	0.43	-0.98	0.0035	0.0170	NM	0.1081E+02	0.5187E+01	120.00	7.	7.
13.04859	17.55	4327.1	4327.0	0.41	-0.93	0.0044	0.0171	NM	0.1087E+02	0.5219E+01	120.00	7.	7.
13.12511	17.92	4198.1	4197.9	0.43	-0.98	0.0051	0.0173	NM	0.1094E+02	0.5250E+01	120.00	7.	7.
13.20445	19.13	4138.0	4137.8	0.46	-0.98	0.0048	0.0173	NM	0.1100E+02	0.5282E+01	120.00	7.	7.
13.28338	19.18	3963.6	3963.3	0.48	-1.08	0.0034	0.0173	NM	0.1107E+02	0.5313E+01	120.00	7.	7.
13.36231	17.83	3962.1	3961.9	0.45	-1.03	0.0030	0.0173	NM	0.1114E+02	0.5345E+01	120.00	7.	7.
13.44044	18.11	4085.2	4085.0	0.44	-1.03	0.0032	0.0166	NM	0.1120E+02	0.5376E+01	120.00	7.	7.
13.51857	17.89	4230.4	4230.2	0.42	-1.03	0.0031	0.0173	NM	0.1127E+02	0.5407E+01	120.00	7.	7.
13.59189	20.16	4365.3	4365.1	0.48	-0.98	0.0036	0.0172	NM	0.1133E+02	0.5437E+01	120.00	7.	7.
13.66922	23.45	4508.9	4508.8	0.52	-0.88	0.0037	0.0169	NM	0.1139E+02	0.5468E+01	120.00	7.	7.
13.74615	21.97	4607.2	4607.0	0.48	-0.83	0.0036	0.0170	NM	0.1146E+02	0.5498E+01	120.00	7.	7.
13.82588	20.66	4657.0	4656.9	0.44	-0.73	0.0035	0.0175	NM	0.1152E+02	0.5530E+01	120.00	7.	7.
13.90401	19.74	4711.2	4711.1	0.42	-0.88	0.0032	0.0176	NM	0.1159E+02	0.5562E+01	120.00	7.	7.
13.98214	19.87	4533.9	4533.7	0.44	-0.88	0.0030	0.0172	NM	0.1165E+02	0.5593E+01	120.00	7.	7.
14.06027	20.38	4591.0	4590.9	0.44	-0.88	0.0030	0.0173	NM	0.1172E+02	0.5624E+01	120.00	7.	7.
14.13920	26.37	4614.5	4614.3	0.57	-0.93	0.0033	0.0173	NM	0.1178E+02	0.5656E+01	120.00	7.	7.
14.21653	28.46	4560.3	4560.1	0.62	-0.98	0.0034	0.0168	NM	0.1185E+02	0.5687E+01	120.00	7.	7.
14.29466	20.62	4485.5	4485.3	0.46	-1.03	0.0039	0.0170	NM	0.1191E+02	0.5718E+01	120.00	7.	7.
14.37199	20.52	4394.6	4394.4	0.47	-0.68	0.0038	0.0168	NM	0.1198E+02	0.5749E+01	120.00	7.	7.
14.45132	21.01	4346.2	4346.0	0.48	-0.98	0.0037	0.0169	NM	0.1204E+02	0.5781E+01	120.00	7.	7.
14.52905	21.30	3855.1	3854.9	0.55	-0.83	0.0038	0.0167	NM	0.1211E+02	0.5812E+01	120.00	7.	7.
14.84808	19.95	3728.4	3728.4	0.54	-0.42	0.0030	0.0174	NM	0.1221E+02	0.5859E+01	120.00	7.	7.
14.72225	19.05	3776.8	3776.7	0.50	-0.52	0.0031	0.0169	NM	0.1227E+02	0.5889E+01	120.00	7.	7.
14.79844	17.24	3734.3	3734.2	0.46	-0.57	0.0029	0.0171	NM	0.1233E+02	0.5919E+01	120.00	7.	7.
14.87341	15.47	3642.0	3641.9	0.42	-0.52	0.0031	0.0169	NM	0.1239E+02	0.5949E+01	120.00	7.	7.
14.95401	14.89	3630.2	3630.1	0.41	-0.67	0.0033	0.0168	NM	0.1246E+02	0.5982E+01	120.00	7.	7.
15.03861	15.10	3573.1	3572.9	0.42	-0.87	0.0037	0.0169	NM	0.1253E+02	0.6015E+01	120.00	7.	7.
15.11800	15.47	3451.4	3451.2	0.45	-0.97	0.0033	0.0166	NM	0.1260E+02	0.6047E+01	120.00	7.	7.
15.19057	15.57	3351.7	3351.6	0.46	-0.97	0.0039	0.0167	NM	0.1266E+02	0.6078E+01	120.00	7.	7.
15.26915	14.92	3206.6	3206.4	0.47	-1.02	0.0037	0.0170	NM	0.1272E+02	0.6108E+01	120.00	7.	7.
15.34654	14.15	3133.4	3133.2	0.45	-0.97	0.0035	0.0169	NM	0.1279E+02	0.6139E+01	120.00	7.	7.
15.42753	13.42	3086.5	3086.3	0.43	-1.02	0.0038	0.0169	NM	0.1286E+02	0.6171E+01	120.00	7.	7.
15.50772	9.05	3055.7	3055.5	0.30	-1.07	0.0043	0.0172	NM	0.1292E+02	0.6203E+01	120.00	7.	7.
15.58431	11.87	3052.8	3052.5	0.39	-1.17	0.0047	0.0175	NM	0.1299E+02	0.6234E+01	120.00	7.	7.
15.66249	17.13	3029.3	3029.1	0.57	-1.22	0.0052	0.0179	NM	0.1305E+02	0.6265E+01	120.00	7.	7.

15.74348	16.12	2958.9	2958.7	0.54	-1.27	0.0059	0.0182	NM	0.1312E+02	0.6297E+01	120.00	7.	7.
15.81927	30.09	2830.0	2829.7	1.06	-1.37	0.0061	0.0179	NM	0.1318E+02	0.6328E+01	120.00	6.	7.
15.92953	28.33	2957.5	2957.2	0.96	-1.27	0.0065	0.0180	NM	0.1327E+02	0.6372E+01	120.00	6.	7.
16.00451	26.65	3002.9	3002.7	0.89	-1.17	0.0066	0.0179	NM	0.1334E+02	0.6402E+01	120.00	6.	7.
16.08510	23.40	2646.8	2646.5	0.88	-1.27	0.0060	0.0177	NM	0.1340E+02	0.6434E+01	120.00	6.	7.
16.15887	22.01	2629.2	2628.9	0.84	-1.32	0.0061	0.0181	NM	0.1347E+02	0.6464E+01	120.00	6.	7.
16.23746	21.05	2497.2	2497.0	0.84	-1.37	0.0067	0.0176	NM	0.1353E+02	0.6495E+01	120.00	6.	7.
16.32206	18.72	2394.7	2394.4	0.78	-1.42	0.0068	0.0187	NM	0.1360E+02	0.6529E+01	120.00	6.	7.
16.40386	14.57	2270.1	2269.8	0.64	-1.57	0.0073	0.0186	NM	0.1367E+02	0.6562E+01	120.00	6.	7.
16.48124	13.17	2183.6	2183.3	0.60	-1.57	0.0078	0.0187	NM	0.1373E+02	0.6592E+01	120.00	6.	7.
16.55983	12.67	2104.4	2104.1	0.60	-1.67	0.0081	0.0185	NM	0.1380E+02	0.6624E+01	120.00	6.	7.
16.63641	12.59	1991.6	1991.3	0.63	-1.82	0.0080	0.0186	NM	0.1386E+02	0.6655E+01	120.00	6.	7.
16.72061	12.06	1856.7	1856.4	0.65	-1.72	0.0081	0.0186	NM	0.1393E+02	0.6688E+01	120.00	6.	7.
16.79920	11.55	1764.4	1764.1	0.65	-1.62	0.0078	0.0188	NM	0.1400E+02	0.6720E+01	120.00	6.	7.
16.87818	11.21	1575.3	1575.0	0.71	-1.77	0.0075	0.0185	NM	0.1406E+02	0.6750E+01	120.00	6.	7.
16.95276	10.89	1515.2	1514.9	0.72	-1.77	0.0083	0.0183	NM	0.1413E+02	0.6781E+01	120.00	6.	7.
17.03296	10.60	1402.4	1402.1	0.76	-1.67	0.0079	0.0180	NM	0.1419E+02	0.6813E+01	120.00	6.	7.
17.11074	10.36	1257.3	1256.9	0.82	-1.77	0.0082	0.0183	NM	0.1426E+02	0.6844E+01	120.00	6.	7.
17.19093	10.22	1112.2	1111.8	0.92	-1.82	0.0085	0.0183	NM	0.1433E+02	0.6876E+01	120.00	6.	6.
17.26952	10.22	1112.2	1111.8	0.92	-1.77	0.0084	0.0179	NM	0.1439E+02	0.6908E+01	120.00	6.	6.
17.35171	10.35	1047.7	1047.3	0.99	-1.87	0.0083	0.0180	NM	0.1446E+02	0.6941E+01	120.00	6.	6.
17.42789	10.05	1046.2	1045.9	0.96	-1.87	0.0086	0.0183	NM	0.1452E+02	0.6971E+01	120.00	6.	6.
17.50849	8.98	1021.3	1021.0	0.88	-1.77	0.0091	0.0182	NM	0.1459E+02	0.7003E+01	120.00	6.	6.
17.58787	7.92	1123.9	1123.6	0.70	-1.77	0.0088	0.0184	NM	0.1466E+02	0.7035E+01	120.00	6.	6.
17.66847	7.09	1144.4	1144.1	0.62	-1.82	0.0097	0.0186	NM	0.1472E+02	0.7067E+01	120.00	6.	6.
17.74345	7.36	1274.9	1274.5	0.58	-1.82	0.0100	0.0182	NM	0.1479E+02	0.7097E+01	120.00	6.	7.
18.00068	8.31	1795.3	1795.0	0.46	-1.18	0.0132	0.0188	NM	0.1500E+02	0.7200E+01	120.00	6.	7.
18.07587	9.25	2010.8	2010.6	0.46	-1.13	0.0126	0.0183	NM	0.1506E+02	0.7230E+01	120.00	6.	7.
18.15568	10.20	2243.9	2243.7	0.45	-1.13	0.0126	0.0181	NM	0.1513E+02	0.7262E+01	120.00	7.	7.
18.23108	10.28	2409.5	2409.3	0.43	-1.18	0.0128	0.0188	NM	0.1519E+02	0.7292E+01	120.00	7.	7.
18.31450	10.19	2564.9	2564.7	0.40	-1.18	0.0128	0.0188	NM	0.1526E+02	0.7326E+01	120.00	7.	7.
18.39511	10.30	2638.2	2638.0	0.39	-1.28	0.0126	0.0190	NM	0.1533E+02	0.7358E+01	120.00	7.	7.
18.47131	10.23	2702.8	2702.5	0.38	-1.43	0.0108	0.0196	NM	0.1539E+02	0.7389E+01	120.00	7.	7.
18.54791	9.88	2767.3	2766.9	0.36	-1.73	0.0104	0.0189	NM	0.1546E+02	0.7419E+01	120.00	7.	7.
18.62891	9.51	2746.7	2746.4	0.35	-1.93	0.0098	0.0188	NM	0.1552E+02	0.7451E+01	120.00	7.	7.
18.70592	9.36	2704.2	2703.8	0.35	-2.03	0.0102	0.0179	NM	0.1559E+02	0.7482E+01	120.00	7.	7.
18.78934	9.08	2674.9	2674.5	0.34	-2.08	0.0100	0.0188	NM	0.1566E+02	0.7516E+01	120.00	7.	7.
18.86794	8.72	2606.0	2605.6	0.33	-2.18	0.0092	0.0189	NM	0.1572E+02	0.7547E+01	120.00	7.	7.
18.94735	8.83	2463.8	2463.4	0.36	-2.13	0.0101	0.0192	NM	0.1579E+02	0.7579E+01	120.00	7.	7.
19.02476	9.15	2302.5	2302.1	0.40	-2.23	0.0096	0.0193	NM	0.1585E+02	0.7610E+01	120.00	7.	7.
19.10416	8.46	2169.1	2168.7	0.39	-2.23	0.0094	0.0188	NM	0.1592E+02	0.7642E+01	120.00	7.	7.
19.18598	9.35	2000.5	2000.1	0.47	-2.28	0.0081	0.0191	NM	0.1599E+02	0.7674E+01	120.00	6.	7.
19.26739	11.53	1925.7	1925.3	0.60	-2.28	0.0072	0.0187	NM	0.1606E+02	0.7707E+01	120.00	6.	7.
19.34479	9.96	1837.8	1837.3	0.54	-2.28	0.0072	0.0183	NM	0.1612E+02	0.7738E+01	120.00	6.	7.
19.42420	11.61	1906.7	1906.2	0.61	-2.23	0.0071	0.0178	NM	0.1619E+02	0.7770E+01	120.00	6.	7.
19.50281	15.02	1918.4	1918.0	0.78	-2.28	0.0087	0.0183	NM	0.1625E+02	0.7801E+01	120.00	6.	7.
19.58262	15.93	2044.5	2044.1	0.78	-2.18	0.0095	0.0182	NM	0.1632E+02	0.7833E+01	120.00	6.	7.
19.66403	18.73	2166.2	2165.8	0.86	-2.18	0.0094	0.0187	NM	0.1639E+02	0.7866E+01	120.00	6.	7.
19.74183	22.74	2214.6	2214.1	1.03	-2.13	0.0094	0.0192	NM	0.1645E+02	0.7897E+01	120.00	6.	7.
19.82164	22.48	2267.3	2266.9	0.99	-2.18	0.0093	0.0193	NM	0.1652E+02	0.7929E+01	120.00	6.	7.
19.89985	20.30	2386.1	2385.8	0.85	-2.28	0.0093	0.0190	NM	0.1658E+02	0.7960E+01	120.00	6.	7.
19.97725	19.23	2531.2	2530.8	0.76	-2.38	0.0094	0.0192	NM	0.1665E+02	0.7991E+01	120.00	6.	7.

20.05826	17.43	2584.0	2583.6	0.67	-2.28	0.0105	0.0246	NM	0.1672E+02	0.8023E+01	120.00	6.	7.
20.13607	15.07	2440.3	2439.9	0.62	-2.28	0.0125	0.0327	NM	0.1678E+02	0.8054E+01	120.00	6.	7.
20.21186	13.26	2541.5	2541.1	0.52	-1.98	0.0137	0.0331	NM	0.1684E+02	0.8085E+01	120.00	6.	7.
20.29007	11.83	2597.2	2596.8	0.46	-2.18	0.0140	0.0189	NM	0.1691E+02	0.8116E+01	120.00	7.	7.
20.36908	11.70	2677.8	2677.4	0.44	-2.18	0.0139	0.0192	NM	0.1697E+02	0.8148E+01	120.00	7.	7.
20.44728	16.07	2730.6	2730.2	0.59	-2.33	0.0147	0.0192	NM	0.1704E+02	0.8179E+01	120.00	6.	7.
20.52789	19.22	2776.1	2775.6	0.69	-2.38	0.0152	0.0192	NM	0.1711E+02	0.8211E+01	120.00	6.	7.
20.60529	18.88	2790.7	2790.2	0.68	-2.53	0.0156	0.0196	NM	0.1717E+02	0.8242E+01	120.00	6.	7.
20.68751	21.84	2811.2	2810.7	0.78	-2.78	0.0162	0.0197	NM	0.1724E+02	0.8275E+01	120.00	6.	7.
20.76491	26.25	2831.8	2831.3	0.93	-2.43	0.0169	0.0196	NM	0.1730E+02	0.8306E+01	120.00	6.	7.
20.84312	13.93	2930.0	2929.5	0.48	-2.68	0.0167	0.0198	NM	0.1737E+02	0.8337E+01	120.00	7.	7.
20.92293	14.01	3111.8	3111.2	0.45	-2.83	0.0165	0.0193	NM	0.1744E+02	0.8369E+01	120.00	7.	7.
21.00154	33.00	3268.7	3268.1	1.01	-2.93	0.0162	0.0189	NM	0.1750E+02	0.8401E+01	120.00	6.	7.
21.07974	34.58	3284.8	3284.2	1.05	-3.03	0.0169	0.0195	NM	0.1757E+02	0.8432E+01	120.00	6.	7.
21.15915	27.50	3447.5	3447.0	0.80	-2.88	0.0181	0.0193	NM	0.1763E+02	0.8464E+01	120.00	6.	7.
21.30912	21.66	3936.7	3936.3	0.55	-1.83	0.0177	0.0192	NM	0.1776E+02	0.8524E+01	120.00	7.	7.
21.38650	24.60	4114.2	4113.8	0.60	-1.98	0.0177	0.0190	NM	0.1782E+02	0.8555E+01	120.00	7.	7.
21.46228	30.70	4275.7	4275.3	0.72	-2.08	0.0178	0.0186	NM	0.1789E+02	0.8585E+01	120.00	7.	7.
21.54528	25.87	4335.8	4335.4	0.60	-2.13	0.0184	0.0189	NM	0.1795E+02	0.8618E+01	120.00	7.	7.
21.62507	25.00	4478.2	4477.7	0.56	-2.58	0.0190	0.0192	NM	0.1802E+02	0.8650E+01	120.00	7.	7.
21.70165	32.46	4688.0	4687.5	0.69	-2.68	0.0203	0.0195	NM	0.1808E+02	0.8681E+01	120.00	7.	7.
21.77743	31.73	4721.8	4721.3	0.67	-2.73	0.0224	0.0197	NM	0.1815E+02	0.8711E+01	120.00	7.	7.
21.85602	69.78	5527.5	5527.0	1.26	-2.48	0.0237	0.0200	NM	0.1821E+02	0.8742E+01	120.00	6.	7.
21.93420	81.93	6296.4	6296.0	1.30	-2.23	0.0244	0.0202	NM	0.1828E+02	0.8774E+01	120.00	6.	7.
22.01640	91.15	7135.8	7135.5	1.28	-1.53	0.0235	0.0199	NM	0.1835E+02	0.8807E+01	120.00	6.	7.
22.09419	90.08	7772.7	7772.5	1.16	-1.38	0.0239	0.0199	NM	0.1841E+02	0.8838E+01	120.00	6.	7.
22.12466	88.79	7357.4	7357.2	1.21	-1.09	0.0248	0.0201	NM	0.1844E+02	0.8850E+01	120.00	6.	7.
22.16516	87.09	7036.1	7035.7	1.24	-1.88	0.0255	0.0203	NM	0.1847E+02	0.8866E+01	120.00	6.	7.
22.20405	85.45	7272.3	7271.8	1.18	-2.43	0.0264	0.0204	NM	0.1850E+02	0.8882E+01	120.00	6.	7.
22.24414	82.20	7545.3	7544.7	1.09	-2.78	0.0273	0.0206	NM	0.1854E+02	0.8898E+01	120.00	6.	7.
22.28304	84.73	7259.1	7258.5	1.17	-3.18	0.0282	0.0208	NM	0.1857E+02	0.8913E+01	120.00	6.	7.
22.32473	97.55	7397.1	7396.6	1.32	-2.43	0.0281	0.0208	NM	0.1860E+02	0.8930E+01	120.00	6.	7.
22.37726	88.68	8060.4	8060.0	1.10	-2.08	0.0259	0.0192	NM	0.1865E+02	0.8951E+01	120.00	6.	7.
22.56771	72.62	6716.1	6715.9	1.08	-0.99	0.0152	0.0097	NM	0.1881E+02	0.9027E+01	120.00	6.	7.
22.61422	75.08	5901.7	5901.7	1.27	0.11	0.0185	0.0132	NM	0.1885E+02	0.9046E+01	120.00	6.	7.
22.67878	76.70	6102.7	6102.6	1.26	-0.59	0.0230	0.0160	NM	0.1890E+02	0.9072E+01	120.00	6.	7.
22.75698	78.11	6609.0	6608.9	1.15	-0.84	0.0255	0.0195	NM	0.1896E+02	0.9103E+01	120.00	6.	7.
22.83635	67.19	6826.2	6826.0	0.98	-0.79	0.0269	0.0193	NM	0.1903E+02	0.9135E+01	120.00	6.	7.
22.91895	52.80	7033.1	7033.0	0.75	-0.69	0.0252	0.0184	NM	0.1910E+02	0.9168E+01	120.00	7.	7.
22.99473	52.26	7174.0	7173.9	0.73	-0.29	0.0243	0.0195	NM	0.1916E+02	0.9198E+01	120.00	7.	7.
23.07372	52.80	7103.6	7103.5	0.74	-0.34	0.0235	0.0198	NM	0.1923E+02	0.9229E+01	120.00	7.	7.
23.15110	50.56	6711.7	6711.6	0.75	-0.84	0.0235	0.0197	NM	0.1929E+02	0.9260E+01	120.00	7.	7.
23.23249	47.60	6264.1	6264.0	0.78	-0.64	0.0244	0.0197	NM	0.1936E+02	0.9293E+01	120.00	7.	7.
23.31228	44.47	6118.9	6118.7	0.73	-0.79	0.0252	0.0197	NM	0.1943E+02	0.9325E+01	120.00	7.	7.
23.39087	41.22	5787.2	5787.1	0.71	-0.64	0.0254	0.0199	NM	0.1949E+02	0.9356E+01	120.00	7.	7.
23.46825	37.44	5697.7	5697.5	0.66	-0.69	0.0254	0.0201	NM	0.1956E+02	0.9387E+01	120.00	7.	7.
23.54604	33.11	5442.3	5442.3	0.61	-0.39	0.0000	0.0000	NM	0.1962E+02	0.9418E+01	120.00	7.	7.
23.62423	30.57	5283.8	5283.8	0.58	-0.34	0.0000	0.0000	NM	0.1969E+02	0.9450E+01	120.00	7.	7.
23.70482	28.85	5256.0	5255.9	0.55	-0.44	0.0000	0.0000	NM	0.1975E+02	0.9482E+01	120.00	7.	7.
23.78261	30.22	5160.6	5160.5	0.59	-0.44	0.0000	0.0000	NM	0.1982E+02	0.9513E+01	120.00	7.	7.
23.86279	30.25	5138.6	5138.5	0.59	-0.49	0.0000	0.0000	NM	0.1989E+02	0.9545E+01	120.00	7.	7.
23.94219	28.40	5104.8	5104.7	0.52	-0.44	0.0000	0.0000	NM	0.1995E+02	0.9577E+01	120.00	7.	7.

24.02157	24.14	5116.5	5116.5	0.47	-0.44	0.0000	0.0000	NM	0.2002E+02	0.9609E+01	120.00	7.	7.
24.10096	24.40	5038.8	5038.7	0.48	-0.39	0.0000	0.0000	NM	0.2008E+02	0.9640E+01	120.00	7.	7.
24.17955	24.36	4864.1	4864.1	0.50	-0.39	0.0000	0.0000	NM	0.2015E+02	0.9672E+01	120.00	7.	7.
24.26295	24.32	4764.3	4764.3	0.51	-0.49	0.0000	0.0000	NM	0.2022E+02	0.9705E+01	120.00	7.	7.
24.34434	26.50	4828.9	4828.8	0.55	-0.49	0.0000	0.0000	NM	0.2029E+02	0.9738E+01	120.00	7.	7.
24.41371	31.92	4902.3	4902.2	0.65	-0.39	0.0000	0.0000	NM	0.2034E+02	0.9765E+01	120.00	7.	7.
24.66631	35.53	5112.7	5112.6	0.70	-0.57	0.0000	0.0000	NM	0.2056E+02	0.9867E+01	120.00	7.	7.
24.74249	32.64	5827.7	5827.6	0.58	-0.67	0.0000	0.0000	NM	0.2062E+02	0.9897E+01	120.00	7.	7.
24.80825	28.97	5950.5	5950.4	0.49	-0.37	0.0000	0.0000	NM	0.2067E+02	0.9923E+01	120.00	7.	7.
25.06887	41.08	7297.3	7297.2	0.56	-0.47	0.0000	0.0000	NM	0.2089E+02	0.1003E+02	120.00	7.	7.
25.10535	41.65	7464.6	7464.4	0.56	-0.62	0.0000	0.0000	NM	0.2092E+02	0.1004E+02	120.00	7.	7.
25.14665	42.25	7645.0	7644.9	0.55	-0.72	0.0000	0.0000	NM	0.2096E+02	0.1006E+02	120.00	7.	7.
25.18033	42.64	7794.7	7794.5	0.55	-0.67	0.0000	0.0000	NM	0.2098E+02	0.1007E+02	120.00	7.	7.
25.21963	43.10	7944.3	7944.2	0.54	-0.72	0.0000	0.0000	NM	0.2102E+02	0.1009E+02	120.00	7.	7.
25.25692	43.53	8165.8	8165.7	0.53	-0.72	0.0000	0.0000	NM	0.2105E+02	0.1010E+02	120.00	7.	7.
25.29581	43.99	8443.1	8443.0	0.52	-0.87	0.0000	0.0000	NM	0.2108E+02	0.1012E+02	120.00	7.	7.
25.48225	74.37	8074.9	8074.8	0.92	-0.67	0.0000	0.0000	NM	0.2124E+02	0.1019E+02	120.00	7.	7.
25.69556	0.00	8250.9	8250.8	0.00	-0.87	0.0000	0.0000	NM	0.2141E+02	0.1028E+02	120.00	-99.	7.
25.91248	0.00	10645.3	10645.2	0.00	-0.82	0.0000	0.0000	NM	0.2159E+02	0.1036E+02	120.00	-99.	-99.

2.75405	7.86	388.8	388.8	2.02	0.02	0.0257	0.0384	NM	2.30E+00	1.10E+00	120	6	7
2.82499	8.23	306.7	306.7	2.03	0.07	0.0272	0.038	NM	2.35E+00	1.13E+00	120	6	7
2.90073	4.87	275.9	275.9	1.77	0.12	0.0273	0.038	NM	2.42E+00	1.16E+00	120	6	7
2.96966	4.08	199.7	199.8	2.04	0.47	0.0262	0.0378	NM	2.48E+00	1.19E+00	120	6	6
3.0426	3.54	308.2	308.3	1.15	0.72	0.0286	0.038	NM	2.54E+00	1.22E+00	120	6	7
3.11073	3.2	513.4	513.5	0.62	0.92	0.0275	0.0383	NM	2.59E+00	1.24E+00	120	7	7
3.18046	3.23	856.3	856.5	0.38	1.02	0.0305	0.0379	NM	2.65E+00	1.27E+00	120	7	7
3.2518	5.12	1145.1	1145.2	0.45	0.82	0.0325	0.0381	NM	2.71E+00	1.30E+00	120	7	7
3.32193	8.85	1287.2	1287.4	0.67	0.72	0.0325	0.0387	NM	2.77E+00	1.33E+00	120	7	7
3.39046	12.15	1378.1	1378.3	0.88	0.87	0.0324	0.0386	NM	2.83E+00	1.36E+00	120	-99	-99
3.4622	15.64	1485.1	1485.3	1.05	0.77	0.0323	0.038	NM	2.89E+00	1.39E+00	120	-99	-99
3.53113	15.6	1592.1	1592.3	0.98	0.87	0.0318	0.0377	NM	2.94E+00	1.41E+00	120	-99	-99
3.60126	15.55	1612.6	1612.7	0.96	0.62	0.0313	0.038	NM	3.00E+00	1.44E+00	120	-99	-99
3.80599	18.49	1554	1554.3	1.19	1.19	0.0267	0.038	NM	3.17E+00	1.52E+00	120	-99	-99
3.87425	17.49	1548.2	1548.3	1.13	0.74	0.0293	0.038	NM	3.23E+00	1.55E+00	120	6	7
3.94613	16.26	1533.5	1533.6	1.06	0.6	0.0284	0.0387	NM	3.29E+00	1.58E+00	120	6	7
4.02001	14.42	1499.8	1499.9	0.96	0.84	0.028	0.0388	NM	3.35E+00	1.61E+00	120	7	7
4.09188	12.03	1530.6	1530.7	0.79	0.74	0.0235	0.0375	NM	3.41E+00	1.64E+00	120	7	7
4.15894	11.84	1527.7	1527.8	0.76	0.84	0.022	0.0371	NM	3.47E+00	1.66E+00	120	7	7
4.2288	11.88	1515.9	1516.1	0.78	0.84	0.0229	0.0373	NM	3.52E+00	1.69E+00	120	7	7
4.29787	12.76	1480.7	1481	0.86	1.39	0.0233	0.0371	NM	3.58E+00	1.72E+00	120	7	7
4.36854	18.12	1583.4	1583.5	1.14	0.89	0.0239	0.0373	NM	3.64E+00	1.75E+00	120	6	7
4.44282	21.38	1710.9	1711.1	1.25	0.89	0.0248	0.0374	NM	3.70E+00	1.78E+00	120	6	7
4.51429	20.12	1760.8	1761	1.14	1.09	0.025	0.0375	NM	3.76E+00	1.81E+00	120	6	7
4.58335	18.81	1687.5	1687.6	1.1	0.64	0.0239	0.0375	NM	3.82E+00	1.83E+00	120	6	7
4.65443	16.99	1656.7	1657	1.03	1.39	0.0225	0.0373	NM	3.88E+00	1.86E+00	120	6	7
4.7251	15.52	1429.4	1430	1.08	3.39	0.0211	0.0371	NM	3.94E+00	1.89E+00	120	6	7
4.79536	15.68	1306.2	1306.4	1.2	1.04	0.0223	0.0369	NM	4.00E+00	1.92E+00	120	6	7
4.86844	12.95	1139	1139.2	1.14	0.74	0.0225	0.0367	NM	4.06E+00	1.95E+00	120	6	7
4.94072	10.28	1146.4	1146.5	0.9	0.69	0.0209	0.0363	NM	4.12E+00	1.98E+00	120	6	7
5.00938	10.29	1155.2	1155.3	0.89	0.64	0.0194	0.0359	NM	4.17E+00	2.00E+00	120	6	7
5.08125	8.01	1136.1	1136.2	0.71	0.6	0.0177	0.036	NM	4.23E+00	2.03E+00	120	7	7
5.15072	6.55	1137.6	1137.7	0.58	0.64	0.0183	0.0361	NM	4.29E+00	2.06E+00	120	7	7
5.22098	7.17	1194.8	1194.9	0.6	0.64	0.0183	0.0359	NM	4.35E+00	2.09E+00	120	7	7
5.29246	14.35	1228.5	1228.7	1.17	0.89	0.0177	0.0363	NM	4.41E+00	2.12E+00	120	6	7
5.36473	14.14	1278.4	1278.5	1.11	0.99	0.0177	0.0362	NM	4.47E+00	2.15E+00	120	6	7
5.43299	12.88	1271	1271.1	1.01	0.64	0.0186	0.0361	NM	4.53E+00	2.17E+00	120	6	7
5.50567	11.57	1259.3	1259.4	0.92	0.64	0.0227	0.0369	NM	4.59E+00	2.20E+00	120	6	7
5.57433	10.62	1319.4	1319.5	0.8	0.6	0.0252	0.0371	NM	4.65E+00	2.23E+00	120	6	7
5.645	9.93	1194.8	1194.7	0.83	-0.4	0.0243	0.0368	NM	4.70E+00	2.26E+00	120	6	7
5.71647	18.43	1048.1	1048.2	1.57	0.3	0.023	0.0369	NM	4.76E+00	2.29E+00	120	6	7
5.78835	6.89	1078.9	1079.1	0.64	0.99	0.0221	0.0365	NM	4.82E+00	2.32E+00	120	7	7
5.85581	10.85	1155.2	1155.5	0.94	1.54	0.0214	0.0361	NM	4.88E+00	2.34E+00	120	6	7
5.92487	22.61	1265.2	1265.4	1.79	0.99	0.0202	0.0358	NM	4.94E+00	2.37E+00	120	8	7
5.99393	15.98	1400.1	1400.1	1.14	0.4	0.0198	0.0355	NM	5.00E+00	2.40E+00	120	6	7
6.0634	8.75	2090.8	2090.4	0.42	-1.85	0.0198	0.0358	NM	5.05E+00	2.43E+00	120	7	7
6.1437	5.84	1749.1	1749	0.33	-0.5	0.0218	0.0368	NM	5.12E+00	2.46E+00	120	7	7
6.20714	8.15	1776.9	1776.8	0.46	-1.65	0.0233	0.0372	NM	5.17E+00	2.48E+00	120	7	7
6.2746	30.04	2645.1	2644.7	1.14	-2.1	0.0232	0.0372	NM	5.23E+00	2.51E+00	120	-99	-99
6.34688	33.32	2942.7	2942.5	1.13	-1.35	0.024	0.0378	NM	5.29E+00	2.54E+00	120	-99	-99
6.41473	30.08	3046.9	3046.5	0.99	-1.6	0.0276	0.0385	NM	5.35E+00	2.57E+00	120	-99	-99
6.48741	29.59	2216.9	2216.6	1.33	-1.25	0.0341	0.0384	NM	5.41E+00	2.60E+00	120	6	7

6.5629	28.85	1285.7	1285.5	2.24	-1.2	0.0433	0.0406	NM	5.47E+00	2.63E+00	120	8	7
6.63237	24.29	741.6	741.8	3.27	0.79	0.0447	0.0412	NM	5.53E+00	2.65E+00	120	8	7
6.70103	19.6	904.4	904.5	2.17	0.6	0.0383	0.0391	NM	5.58E+00	2.68E+00	120	8	7
6.7725	14.72	1054	1054.1	1.4	0.4	0.034	0.0381	NM	5.64E+00	2.71E+00	120	6	7
6.84357	11.62	1076	1076.1	1.08	0.45	0.0335	0.0382	NM	5.70E+00	2.74E+00	120	6	7
6.91344	11	1052.5	1052.6	1.04	0.45	0.0357	0.0385	NM	5.76E+00	2.77E+00	120	6	7
7.12881	11.04	1054	1054.1	1.05	0.79	0.0421	0.0388	NM	5.94E+00	2.85E+00	120	6	7
7.19726	11.17	1059.9	1060	1.05	0.74	0.0406	0.0387	NM	6.00E+00	2.88E+00	120	6	7
7.27032	11.38	1065.7	1065.9	1.07	0.79	0.0422	0.0387	NM	6.06E+00	2.91E+00	120	6	7
7.34338	11.22	1062.8	1062.9	1.06	0.74	0.045	0.0388	NM	6.12E+00	2.94E+00	120	6	7
7.41484	11.21	1062.8	1062.9	1.06	0.79	0.0467	0.0391	NM	6.18E+00	2.97E+00	120	6	7
7.48348	11.19	1056.9	1057.1	1.06	0.84	0.0453	0.0389	NM	6.24E+00	2.99E+00	120	6	7
7.55253	11.13	1055.5	1055.6	1.05	0.74	0.0442	0.038	NM	6.29E+00	3.02E+00	120	6	7
7.62238	11.02	1067.2	1067.3	1.03	0.69	0.0428	0.0379	NM	6.35E+00	3.05E+00	120	6	7
7.69464	11.03	1068.7	1068.8	1.03	0.69	0.0407	0.038	NM	6.41E+00	3.08E+00	120	6	7
7.7677	10.95	1073.1	1073.2	1.02	0.84	0.0304	0.0265	NM	6.47E+00	3.11E+00	120	6	7
7.83955	11.13	1077.5	1077.6	1.03	0.79	0.0156	0.0097	NM	6.53E+00	3.14E+00	120	6	7
7.9094	11.05	1074.5	1074.7	1.03	0.84	0.0182	0.0035	NM	6.59E+00	3.16E+00	120	6	7
7.98006	10.57	1061.3	1061.5	1	0.79	0.0315	0.0058	NM	6.65E+00	3.19E+00	120	6	7
8.05031	9.98	1054	1054.1	0.95	0.79	0.0321	0.0075	NM	6.71E+00	3.22E+00	120	6	7
8.12096	9.53	1068.7	1068.8	0.89	0.84	0.023	0.0059	NM	6.77E+00	3.25E+00	120	6	7
8.19522	8.8	1087.7	1087.9	0.81	0.89	0.0176	0.0032	NM	6.83E+00	3.28E+00	120	6	7
8.26588	8.59	1125.8	1126	0.78	0.89	0.0183	0.0013	NM	6.89E+00	3.31E+00	120	6	7
8.33493	8.63	1115.6	1115.8	0.77	0.89	0.0166	0.0008	NM	6.95E+00	3.33E+00	120	6	7
8.40558	8.45	1136.1	1136.3	0.74	0.99	0.006	0.0003	NM	7.01E+00	3.36E+00	120	6	7
8.47583	8.03	1146.4	1146.6	0.7	0.94	0.0047	0.0005	NM	7.06E+00	3.39E+00	120	6	7
8.54648	7.44	1147.8	1148	0.65	0.84	0.0047	0.0014	NM	7.12E+00	3.42E+00	120	6	7
8.61914	6.51	1108.3	1108.4	0.59	0.89	0	0	NM	7.18E+00	3.45E+00	120	6	7
8.691	6.04	1125.8	1126	0.54	0.84	0	0	NM	7.24E+00	3.48E+00	120	6	7
8.75964	5.82	1139	1139.2	0.51	0.99	0	0	NM	7.30E+00	3.50E+00	120	6	7
8.8323	6.08	1168.4	1168.6	0.52	0.99	0	0	NM	7.36E+00	3.53E+00	120	6	7
8.90255	6.24	1187.4	1187.6	0.53	1.04	0	0	NM	7.42E+00	3.56E+00	120	6	7
8.9724	5.59	1218.2	1218.4	0.46	0.99	0	0	NM	7.48E+00	3.59E+00	120	7	7
9.04426	5.17	1175.7	1175.9	0.44	1.09	0	0	NM	7.54E+00	3.62E+00	120	7	7
9.11732	6.17	1171.3	1171.5	0.53	0.99	0	0	NM	7.60E+00	3.65E+00	120	6	7
9.18396	7.2	1187.4	1187.6	0.61	0.99	0	0	NM	7.65E+00	3.67E+00	120	6	7
9.25341	11.9	1174.2	1174.4	1.01	0.99	0	0	NM	7.71E+00	3.70E+00	120	6	7
9.32328	10.84	1175.7	1175.9	0.92	0.94	0	0	NM	7.77E+00	3.73E+00	120	6	7
9.39311	7.17	1249	1249.2	0.57	1.04	0	0	NM	7.83E+00	3.76E+00	120	6	7
9.46617	4.73	938.1	938.3	0.5	0.79	0	0	NM	7.89E+00	3.79E+00	120	6	7
9.53802	7.11	1033.5	1033.6	0.69	0.84	0	0	NM	7.95E+00	3.82E+00	120	6	7
9.60747	8.81	876.8	876.6	1.01	0.2	0	0	NM	8.01E+00	3.84E+00	120	6	7
9.68013	11.42	1222.6	1222.8	0.93	0.69	0	0	NM	8.07E+00	3.87E+00	120	6	7
9.74918	10.73	1445.5	1445.7	0.74	0.69	0	0	NM	8.12E+00	3.90E+00	120	6	7
9.81943	10.05	1623	1623.2	0.82	1.24	0	0	NM	8.18E+00	3.93E+00	120	7	7
9.89209	9.75	1370.7	1370.9	0.71	0.99	0	0	NM	8.24E+00	3.96E+00	120	6	7
9.96314	8.03	1228.5	1228.6	0.65	0.74	0	0	NM	8.30E+00	3.99E+00	120	6	7
10.03259	7.36	1284.2	1284.4	0.57	0.79	0	0	NM	8.36E+00	4.01E+00	120	6	7
10.10525	9.71	1278.4	1278.6	0.76	1.39	0	0	NM	8.42E+00	4.04E+00	120	6	7
10.1755	6.07	1290.1	1290.4	0.47	1.54	0	0	NM	8.48E+00	4.07E+00	120	7	7
10.24575	5.79	1285.2	1285.5	0.46	1.69	0	0	NM	8.54E+00	4.10E+00	120	7	7
10.31192	5.89	1253.5	1254	0.47	2.27	0	0	NM	8.59E+00	4.13E+00	120	6	7

10.37888	4.72	1284.3	1284.8	0.37	2.67	0	0	NM	8.65E+00	4.15E+00	120	7	7
10.45025	4.05	1359.1	1359.5	0.3	2.32	0	0	NM	8.71E+00	4.18E+00	120	7	7
10.51881	5.76	1426.5	1427	0.4	2.47	0	0	NM	8.77E+00	4.21E+00	120	7	7
10.5954	0	1508.6	1509	0	2.47	0	0	NM	8.83E+00	4.24E+00	120	-99	7
10.66757	0	1603.8	1604.4	0	2.77	0	0	NM	8.89E+00	4.27E+00	120	-99	7
10.73693	0	1813.4	1814	0	2.82	0	0	NM	8.95E+00	4.30E+00	120	-99	7
10.80509	0	2111	2111.5	0	2.87	0	0	NM	9.00E+00	4.32E+00	120	-99	7
10.87526	0	2635.7	2636.3	0	3.41	0	0	NM	9.06E+00	4.35E+00	120	-99	7
10.94262	0	4350.5	4351.8	0	8.26	0	0	NM	9.12E+00	4.38E+00	120	-99	7

Electric Cone Penetrometer Data

Cone_TAP v 2.90

Test Id: HD-05 Date: 5-Nov-03

Site: SUNNYSIDE Cone Id: 108.034XXX

Location: QUEENS NY

Project: RROUX Soil Density(pcf): 120

Client: ROUX

Depth (ft)	Sleeve Stress (psi)	Tip Stress UNC (psi)	Tip Stress COR (psi)	Ratio COR (%)	Pore Pressure (psi)	LFFD (V)	HFFD (V)	Excitation (Vdc)	Overburden (psi)	Eff. Overburden (psi)	Wet Density (pcf)	Class. FR (Rob. 1990)	Class. PP (Rob. 1990)
0	0	0	0	0	0	0	0	NM	0.00E+00	0.00E+00	120	-99	-99
0.15685	0	619	619.2	0	0.95	0.1218	0.0618	NM	1.31E-01	6.27E-02	120	-99	-99
0.20218	0	717.3	717.4	0	0.85	0.1205	0.0619	NM	1.69E-01	8.09E-02	120	-99	-99
0.24911	0	755.4	755.6	0	0.95	0.1213	0.0619	NM	2.08E-01	9.96E-02	120	-99	-99
0.29244	2.7	780.3	780.5	0.35	1.1	0.1222	0.0637	NM	2.44E-01	1.17E-01	120	-99	-99
0.33817	2.76	773	773.2	0.36	1	0.1198	0.0626	NM	2.82E-01	1.35E-01	120	-99	-99
0.3827	3.09	721.7	721.8	0.43	0.9	0.1156	0.0597	NM	3.19E-01	1.53E-01	120	-99	-99
0.42802	3.24	657.1	657.3	0.49	1.05	0.103	0.0534	NM	3.57E-01	1.71E-01	120	-99	-99
0.47255	3.38	643.9	644.1	0.52	1.05	0.0786	0.0389	NM	3.94E-01	1.89E-01	120	-99	-99
0.51708	3.42	711.4	711.6	0.48	1.05	0.0636	0.0318	NM	4.31E-01	2.07E-01	120	-99	-99
0.5596	3.91	743.7	743.9	0.53	1.2	0.062	0.0309	NM	4.66E-01	2.24E-01	120	-99	-99
0.60573	4.38	789.1	789.4	0.56	1.25	0.0609	0.0296	NM	5.05E-01	2.42E-01	120	-99	-99
0.65186	4.52	831.7	831.9	0.54	1.25	0.0558	0.0274	NM	5.43E-01	2.61E-01	120	-99	-99
0.698	5.03	859.5	859.8	0.58	1.2	0.0565	0.0272	NM	5.82E-01	2.79E-01	120	-99	-99
0.74292	5.3	861	861.3	0.61	1.35	0.0622	0.0294	NM	6.19E-01	2.97E-01	120	-99	-99
0.78906	5.42	875.7	875.9	0.62	1.35	0.0571	0.0271	NM	6.58E-01	3.16E-01	120	-99	-99
0.83439	5.46	885.9	886.2	0.62	1.35	0.0492	0.0236	NM	6.95E-01	3.34E-01	120	-99	-99
0.88292	5.2	912.3	912.6	0.57	1.35	0.0434	0.0207	NM	7.36E-01	3.53E-01	120	-99	-99
0.93186	4.99	887.4	887.7	0.56	1.3	0.0414	0.019	NM	7.77E-01	3.73E-01	120	-99	-99
0.98241	5.18	884.5	884.7	0.59	1.35	0.0383	0.0172	NM	8.19E-01	3.93E-01	120	-99	-99
1.02694	5.31	888.9	889.1	0.6	1.45	0.0354	0.0158	NM	8.56E-01	4.11E-01	120	-99	-99
1.07307	5.41	893.3	893.5	0.61	1.35	0.0351	0.0153	NM	8.94E-01	4.29E-01	120	-99	-99
1.11719	5.72	883	883.3	0.65	1.45	0.0328	0.0141	NM	9.31E-01	4.47E-01	120	-99	-99
1.16092	5.92	887.4	887.7	0.67	1.55	0.0278	0.0124	NM	9.67E-01	4.64E-01	120	-99	-99
1.20866	5.99	906.5	906.8	0.66	1.5	0.0206	0.0091	NM	1.01E+00	4.84E-01	120	-99	-99
1.25479	5.17	931.4	931.7	0.56	1.4	0.0147	0.0063	NM	1.05E+00	5.02E-01	120	-99	-99
1.30052	4.43	960.7	961	0.46	1.4	0.0126	0.0052	NM	1.08E+00	5.20E-01	120	-99	-99
1.34585	4.89	937.3	937.6	0.52	1.45	0.0133	0.005	NM	1.12E+00	5.38E-01	120	-99	-99
1.39158	5.34	953.4	953.7	0.56	1.3	0.0122	0.0052	NM	1.16E+00	5.57E-01	120	-99	-99
1.43771	5.61	973.9	974.2	0.58	1.4	0.0106	0.005	NM	1.20E+00	5.75E-01	120	-99	-99
1.48264	5.72	993	993.3	0.58	1.35	0.0094	0.0041	NM	1.24E+00	5.93E-01	120	-99	-99
1.52877	6.06	1013.6	1013.8	0.6	1.3	0.0097	0.0028	NM	1.27E+00	6.12E-01	120	-99	-99
1.5733	5.95	1025.3	1025.6	0.58	1.4	0.0113	0.0073	NM	1.31E+00	6.29E-01	120	-99	-99
1.63269	6.75	1067.8	1068.1	0.63	1.6	0.0121	0.0076	NM	1.36E+00	6.53E-01	120	-99	-99
1.67523	8.13	1111.8	1112.1	0.73	1.55	0.0123	0.0051	NM	1.40E+00	6.70E-01	120	-99	-99
1.72219	10.09	1119.2	1119.5	0.9	1.6	0.0138	0.0046	NM	1.44E+00	6.89E-01	120	-99	-99
1.77196	10.9	1133.8	1134.1	0.96	1.6	0.0129	0.0049	NM	1.48E+00	7.09E-01	120	-99	-99
1.81811	11.39	1186.1	1186.4	0.98	1.55	0.013	0.0051	NM	1.52E+00	7.27E-01	120	-99	-99
1.86627	15.91	1186.6	1187	1.34	1.9	0.0141	0.006	NM	1.56E+00	7.47E-01	120	-99	-99

1.90921	18.05	1214.5	1214.8	1.49	1.5	0.0156	0.0078	NM	1.59E+00	7.64E-01	120	-99	-99
1.95657	15.59	1282	1282.3	1.22	1.65	0.0159	0.0069	NM	1.63E+00	7.83E-01	120	-99	-99
2.00072	13.87	1370	1370.3	1.01	1.7	0.0162	0.0068	NM	1.67E+00	8.00E-01	120	-99	-99
2.04768	12.87	1485.9	1486.2	0.87	1.9	0.0163	0.0071	NM	1.71E+00	8.19E-01	120	-99	-99
2.09303	12.36	1494.7	1495	0.83	1.85	0.0158	0.0078	NM	1.74E+00	8.37E-01	120	-99	-99
2.13918	12.32	1462.4	1462.7	0.84	1.8	0.0204	0.0099	NM	1.78E+00	8.56E-01	120	-99	-99
2.18694	13.09	1372.9	1373.3	0.95	1.8	0.0249	0.0124	NM	1.82E+00	8.75E-01	120	-99	-99
2.2355	13.34	1194	1194.3	1.12	1.55	0.0273	0.0136	NM	1.86E+00	8.94E-01	120	-99	-99
2.28166	13.36	1268.8	1269.1	1.05	1.8	0.0266	0.0125	NM	1.90E+00	9.13E-01	120	-99	-99
2.32861	15.49	1383.2	1383.6	1.12	2.1	0.0256	0.0123	NM	1.94E+00	9.31E-01	120	-99	-99
2.37316	16.39	1538.7	1539.1	1.06	2.1	0.0247	0.0122	NM	1.98E+00	9.49E-01	120	-99	-99
2.42012	15.43	1748.4	1748.8	0.88	2.2	0.0238	0.012	NM	2.02E+00	9.68E-01	120	-99	-99
2.46587	15.34	1940.8	1941	0.79	2.45	0.0228	0.0118	NM	2.06E+00	9.86E-01	120	-99	-99
2.51243	15.05	2062.3	2062.9	0.73	2.89	0.0219	0.0117	NM	2.09E+00	1.01E+00	120	-99	-99
2.55737	15.65	2150.3	2150.9	0.73	3.29	0.0214	0.0113	NM	2.13E+00	1.02E+00	120	-99	-99
2.60473	16.31	2295.5	2296.1	0.71	3.19	0.0206	0.0114	NM	2.17E+00	1.04E+00	120	-99	-99
2.65209	16.91	2616.7	2617.3	0.65	2.94	0.0202	0.0116	NM	2.21E+00	1.06E+00	120	-99	-99
2.70025	17.65	2747.3	2747.9	0.64	3.39	0.021	0.0111	NM	2.25E+00	1.08E+00	120	-99	-99
2.7448	18.03	2904.2	2905	0.62	3.79	0.0199	0.011	NM	2.29E+00	1.10E+00	120	-99	-99
2.79015	18.05	3039.2	3039.9	0.59	3.94	0.02	0.0107	NM	2.33E+00	1.12E+00	120	-99	-99
2.83751	18.1	3030.4	3031.1	0.6	3.99	0.0208	0.0106	NM	2.37E+00	1.14E+00	120	-99	-99
2.88326	18.21	2984.9	2985.7	0.61	3.89	0.0207	0.0107	NM	2.40E+00	1.15E+00	120	-99	-99
2.92861	18.02	2908.6	2909.4	0.62	3.79	0.0203	0.0108	NM	2.44E+00	1.17E+00	120	-99	-99
2.97557	18.89	2804.5	2805.2	0.67	3.84	0.0207	0.0108	NM	2.48E+00	1.19E+00	120	-99	-99
3.02052	17.43	2653.4	2654.1	0.66	3.59	0.021	0.0105	NM	2.52E+00	1.21E+00	120	-99	-99
3.06948	16.62	2522.9	2523.5	0.66	3.44	0.0196	0.01	NM	2.56E+00	1.23E+00	120	-99	-99
3.11845	16.18	2404.1	2404.7	0.67	3.09	0.0201	0.0104	NM	2.60E+00	1.25E+00	120	-99	-99
3.16701	15.81	2385	2385.6	0.68	3.04	0.0202	0.0101	NM	2.64E+00	1.27E+00	120	-99	-99
3.21597	15.45	2387.9	2388.5	0.65	2.84	0.0202	0.0095	NM	2.68E+00	1.29E+00	120	-99	-99
3.27218	15.68	2209	2209.5	0.71	2.94	0.0207	0.0093	NM	2.73E+00	1.31E+00	120	-99	-99
3.32433	18.26	2038.8	2039.4	0.9	2.69	0.0215	0.01	NM	2.77E+00	1.33E+00	120	-99	-99
3.37932	22.66	1920	1920.5	1.18	2.54	0.0235	0.0101	NM	2.82E+00	1.35E+00	120	-99	-99
3.4335	33.89	1834.9	1835.4	1.85	2.49	0.023	0.0095	NM	2.86E+00	1.37E+00	120	-99	-99
3.49189	38.59	1757.2	1757.7	2.2	2.45	0.0245	0.01	NM	2.91E+00	1.40E+00	120	-99	-99
3.54908	50.22	1710.3	1710.8	2.94	2.84	0.0284	0.0117	NM	2.96E+00	1.42E+00	120	-99	-99
3.60788	37.93	1717.6	1718.2	2.21	2.84	0.0352	0.0203	NM	3.01E+00	1.44E+00	120	-99	-99
3.66708	43.16	1821.8	1822.3	2.37	3.04	0.0255	0.0135	NM	3.06E+00	1.47E+00	120	-99	-99
3.72688	51.48	2157.6	2158.2	2.39	2.99	0.0119	0.0057	NM	3.11E+00	1.49E+00	120	-99	-99
3.78386	52.53	3221.1	3221.6	1.63	2.84	0.0052	0.0036	NM	3.15E+00	1.51E+00	120	-99	-99
3.84086	47.56	4988.5	4989.5	0.95	4.74	0.0021	0.0023	NM	3.20E+00	1.54E+00	120	-99	-99
3.90226	42.67	4346.1	4346.7	0.98	3.14	0.0012	0.0015	NM	3.25E+00	1.56E+00	120	-99	-99
3.96968	43.11	2913	2913.4	1.48	1.7	0.0006	0.0004	NM	3.31E+00	1.59E+00	120	-99	-99
4.03149	44.49	1940.6	1944.4	2.29	20.06	0.0001	0.0002	NM	3.36E+00	1.61E+00	120	-99	-99
4.0941	36.33	1541.6	1544.5	2.35	14.92	0.0018	0.0039	NM	3.41E+00	1.64E+00	120	8	7
4.15671	36.06	1487.3	1489.1	2.42	9.03	0.0055	0.0061	NM	3.46E+00	1.66E+00	120	8	7
4.21771	32.71	1458	1459.1	2.24	5.94	0.0079	0.0059	NM	3.52E+00	1.69E+00	120	8	7
4.27711	21.64	1411	1412.1	1.53	5.24	0.0202	0.0119	NM	3.56E+00	1.71E+00	120	8	7
4.34092	14.86	1315.7	1316.6	1.13	4.79	0.0488	0.0229	NM	3.62E+00	1.74E+00	120	6	7
4.39992	12.42	1284.9	1285.8	0.97	4.44	0.0796	0.0335	NM	3.67E+00	1.76E+00	120	6	7
4.46293	9.82	1402.2	1403.1	0.7	4.59	0.0944	0.041	NM	3.72E+00	1.79E+00	120	7	7
4.52434	7.28	1502	1502.9	0.48	4.64	0.101	0.0439	NM	3.77E+00	1.81E+00	120	7	7
4.58694	6.67	1487.3	1488.2	0.45	4.54	0.1102	0.0477	NM	3.82E+00	1.84E+00	120	7	7

4.64795	8.98	1528.4	1529.3	0.46	4.59	0.1039	0.0468	NM	3.87E+00	1.86E+00	120	7	7
4.88706	10.55	1629.6	1630.5	0.65	4.74	0.0916	0.0428	NM	4.07E+00	1.96E+00	120	7	7
4.94723	11.25	1694.1	1695.1	0.66	4.74	0.1033	0.0468	NM	4.12E+00	1.98E+00	120	7	7
5.0058	11.64	1758.7	1759.6	0.68	4.79	0.1043	0.0455	NM	4.17E+00	2.00E+00	120	7	7
5.06998	12.03	1834.9	1835.9	0.66	4.84	0.0982	0.0432	NM	4.23E+00	2.03E+00	120	7	7
5.13537	12.53	1921.5	1922.4	0.65	4.89	0.0937	0.0404	NM	4.28E+00	2.05E+00	120	7	7
5.19514	12.31	2022.7	2023.7	0.61	5.04	0.0909	0.0361	NM	4.33E+00	2.08E+00	120	7	7
5.25571	12.1	2195.8	2196.8	0.55	5.14	0.0777	0.0289	NM	4.38E+00	2.10E+00	120	-99	-99
5.31669	12.06	2475.9	2477	0.49	5.29	0.0752	0.0269	NM	4.43E+00	2.13E+00	120	-99	-99
5.37726	12.89	2792.8	2793.8	0.46	5.59	0.069	0.0272	NM	4.48E+00	2.15E+00	120	-99	-99
5.43824	13.25	3055.3	3056.4	0.43	5.74	0.0709	0.0299	NM	4.53E+00	2.18E+00	120	-99	-99
5.50081	13.45	3218.1	3219.3	0.42	5.89	0.076	0.0334	NM	4.58E+00	2.20E+00	120	-99	-99
5.5658	13.83	3364.8	3365.9	0.41	5.84	0.0688	0.0309	NM	4.64E+00	2.23E+00	120	-99	-99
5.62637	14.08	3370.7	3371.8	0.42	5.79	0.0657	0.0299	NM	4.69E+00	2.25E+00	120	-99	-99
5.68775	13.82	3492.4	3493.5	0.39	5.49	0.0783	0.0313	NM	4.74E+00	2.28E+00	120	-99	-99
5.74832	14.68	3546.7	3547.8	0.41	5.49	0.0978	0.0428	NM	4.79E+00	2.30E+00	120	-99	-99
5.8109	16.1	3599.5	3600.6	0.45	5.79	0.0949	0.0438	NM	4.84E+00	2.32E+00	120	-99	-99
5.87067	15.48	3615.6	3616.7	0.43	5.74	0.0687	0.0348	NM	4.89E+00	2.35E+00	120	-99	-99
5.93365	15.41	3624.4	3625.5	0.43	5.59	0.0646	0.0334	NM	4.95E+00	2.37E+00	120	-99	-99
5.99904	14.34	3624.4	3625.6	0.4	5.99	0.0693	0.0337	NM	5.00E+00	2.40E+00	120	-99	-99
6.06041	13.44	3543.8	3544.8	0.38	5.49	0.06	0.0317	NM	5.05E+00	2.42E+00	120	-99	-99
6.12099	13.4	3495.4	3496.7	0.38	6.74	0.0528	0.0287	NM	5.10E+00	2.45E+00	120	-99	-99
6.18357	14.78	3389.7	3390.6	0.44	4.44	0.0435	0.0259	NM	5.15E+00	2.47E+00	120	-99	-99
6.24334	18.41	3304.7	3305.5	0.56	4.44	0.0453	0.0235	NM	5.20E+00	2.50E+00	120	-99	-99
6.30511	18.18	3319.3	3320.5	0.55	5.69	0.0439	0.0219	NM	5.25E+00	2.52E+00	120	-99	-99
6.36729	16.07	3290	3291	0.49	5.24	0.0643	0.0317	NM	5.31E+00	2.55E+00	120	-99	-99
6.43228	15.57	3037.7	3038.7	0.51	5.14	0.0924	0.0432	NM	5.36E+00	2.57E+00	120	-99	-99
6.49245	14.39	2986.4	2987.7	0.48	6.59	0.1208	0.0535	NM	5.41E+00	2.60E+00	120	-99	-99
6.55463	12.92	2751.7	2752.8	0.47	5.69	0.0919	0.0447	NM	5.46E+00	2.62E+00	120	-99	-99
6.61801	15.51	2600.6	2601.5	0.6	4.84	0.0918	0.0441	NM	5.52E+00	2.65E+00	120	7	7
6.67898	17.19	2537.5	2538.5	0.68	5.14	0.0954	0.0468	NM	5.57E+00	2.67E+00	120	7	7
6.74036	19.87	2534.6	2535.6	0.78	5.04	0.093	0.0427	NM	5.62E+00	2.70E+00	120	7	7
6.80334	19.49	2528.7	2529.7	0.77	5.19	0.0979	0.0421	NM	5.67E+00	2.72E+00	120	7	7
6.86431	16.64	2656.4	2657.3	0.63	4.94	0.0784	0.0415	NM	5.72E+00	2.75E+00	120	7	7
6.92809	16.38	2684.2	2685.2	0.61	4.89	0.0914	0.0536	NM	5.77E+00	2.77E+00	120	7	7
6.98827	19.77	2499.4	2500.5	0.79	5.79	0.0592	0.0345	NM	5.82E+00	2.80E+00	120	7	7
7.04683	26.23	2653.4	2654.5	0.99	5.44	0.0542	0.0274	NM	5.87E+00	2.82E+00	120	6	7
7.10781	34.52	2688.6	2689.7	1.28	5.59	0.0786	0.035	NM	5.92E+00	2.84E+00	120	6	7
7.16918	32.92	2892.5	2893.6	1.14	5.94	0.0729	0.0348	NM	5.97E+00	2.87E+00	120	-99	-99
7.23056	28.92	3247.5	3248.7	0.89	6.44	0.0762	0.0374	NM	6.03E+00	2.89E+00	120	-99	-99
7.29314	23.53	3435.2	3436.5	0.68	6.79	0.0729	0.0358	NM	6.08E+00	2.92E+00	120	-99	-99
7.35371	27.28	3540.8	3542.1	0.77	6.54	0.0698	0.0337	NM	6.13E+00	2.94E+00	120	-99	-99
7.41508	36.54	3738.8	3740.3	0.98	7.34	0.0666	0.0319	NM	6.18E+00	2.97E+00	120	-99	-99
7.47847	42.52	3628.8	3629.9	1.17	5.39	0.0612	0.029	NM	6.23E+00	2.99E+00	120	-99	-99
7.53703	39.69	4156.9	4158.6	0.95	8.68	0.0602	0.029	NM	6.28E+00	3.02E+00	120	-99	-99
7.5968	34.64	4510.4	4512.1	0.77	8.73	0.0664	0.034	NM	6.33E+00	3.04E+00	120	-99	-99
7.66701	30.88	4175.9	4177.1	0.74	5.94	0.0675	0.0344	NM	6.39E+00	3.07E+00	120	-99	-99
7.72357	27.34	3674.3	3675.1	0.74	4.09	0.0706	0.0342	NM	6.44E+00	3.09E+00	120	-99	-99
7.78574	22.7	3407.3	3408.2	0.67	4.54	0.0785	0.0385	NM	6.49E+00	3.11E+00	120	-99	-99
7.84672	22.96	3532	3533.6	0.65	8.43	0.0819	0.0401	NM	6.54E+00	3.14E+00	120	-99	-99
7.9085	20.61	3865.5	3866.8	0.56	6.54	0.0843	0.042	NM	6.59E+00	3.16E+00	120	-99	-99
7.96867	18.96	3763.8	3765.2	0.5	7.29	0.0785	0.0402	NM	6.64E+00	3.19E+00	120	-99	-99

8.03044	17.52	3882.6	3884	0.45	7.29	0.0724	0.0384	NM	6.69E+00	3.21E+00	120	-99	-99
8.06334	17.31	3511.5	3512.8	0.49	6.74	0.0692	0.0374	NM	6.72E+00	3.23E+00	120	-99	-99
8.10944	18.12	3709.1	3710.7	0.49	8.11	0.0684	0.0366	NM	6.76E+00	3.24E+00	120	-99	-99
8.16877	20.74	3819.2	3820.8	0.54	8.16	0.0782	0.0391	NM	6.81E+00	3.27E+00	120	-99	-99
8.2289	22.51	3867.6	3869.2	0.58	8.06	0.0907	0.0475	NM	6.86E+00	3.29E+00	120	-99	-99
8.29063	25.5	3836.8	3838.4	0.66	8.31	0.0745	0.0515	NM	6.91E+00	3.32E+00	120	-99	-99
8.35597	23.52	3917.5	3919	0.8	7.96	0.0708	0.0488	NM	6.96E+00	3.34E+00	120	-99	-99
8.4173	24.26	3993.8	3995.3	0.61	7.76	0.0709	0.0503	NM	7.01E+00	3.37E+00	120	-99	-99
8.47903	23.74	4106.8	4108.3	0.58	7.81	0.082	0.0574	NM	7.07E+00	3.39E+00	120	-99	-99
8.53956	21.27	4105.3	4106.8	0.52	7.56	0.075	0.0526	NM	7.12E+00	3.42E+00	120	-99	-99
8.60009	24.62	4373.9	4375.3	0.56	7.41	0.0704	0.0489	NM	7.17E+00	3.44E+00	120	-99	-99
8.65982	41.88	4595.5	4596.9	0.91	7.06	0.0753	0.0506	NM	7.22E+00	3.46E+00	120	-99	-99
8.72235	51.68	5371.8	5373.4	0.96	8.21	0.0693	0.0389	NM	7.27E+00	3.49E+00	120	-99	-99
8.78609	49.78	5747.5	5751.1	0.87	18.74	0.054	0.0335	NM	7.32E+00	3.51E+00	120	-99	-99
8.85343	48.43	4811.2	4813.1	1.01	9.91	0.0471	0.0348	NM	7.38E+00	3.54E+00	120	-99	-99
8.90955	50.34	5115	5116.7	0.98	8.71	0.049	0.0367	NM	7.43E+00	3.56E+00	120	-99	-99
8.97289	51.52	4815.6	4817.6	1.07	10.51	0.0568	0.0395	NM	7.48E+00	3.59E+00	120	-99	-99
9.03582	45.9	4337.2	4339.3	1.06	10.76	0.0653	0.0448	NM	7.53E+00	3.61E+00	120	-99	-99
9.09515	34.18	4629.2	4631.3	0.74	10.68	0.0733	0.0498	NM	7.58E+00	3.64E+00	120	-99	-99
9.15608	45.66	4698.2	4700.1	0.97	9.75	0.0884	0.0534	NM	7.63E+00	3.66E+00	120	-99	-99
9.22102	48.88	4635.1	4637	1.05	9.56	0.0905	0.0506	NM	7.68E+00	3.69E+00	120	-99	-99
9.28075	50.74	5088.6	5090.6	1	10.41	0.0988	0.0525	NM	7.73E+00	3.71E+00	120	-99	-99
9.34168	58.55	5449.6	5452	1.07	12.75	0.0832	0.0465	NM	7.79E+00	3.74E+00	120	-99	-99
9.40461	66.61	5423.2	5425.4	1.23	11.7	0.067	0.0403	NM	7.84E+00	3.76E+00	120	-99	-99
9.46434	74.26	5741.6	5743.5	1.29	9.61	0.0516	0.0344	NM	7.89E+00	3.79E+00	120	-99	-99
9.52607	58.33	4639.5	4640.8	1.26	6.86	0.057	0.0556	NM	7.94E+00	3.81E+00	120	-99	-99
9.58901	50.77	5451.1	5451.8	0.93	3.97	0.05	0.0309	NM	7.99E+00	3.84E+00	120	-99	-99
9.62111	54.87	5668.2	5670.5	0.97	11.61	0.0641	0.0364	NM	8.18E+00	3.93E+00	120	-99	-99
9.68043	78.39	6576.6	6578.7	1.19	10.56	0.0703	0.0392	NM	8.23E+00	3.95E+00	120	-99	-99
9.94738	92.73	4850.8	4852.4	1.91	8.16	0.0994	0.0529	NM	8.29E+00	3.98E+00	120	-99	-99
10.0059	98.78	4572	4573.8	2.16	9.51	0.0884	0.0592	NM	8.34E+00	4.00E+00	120	-99	-99
10.06824	105.33	4234.5	4237.2	2.49	14.2	0.1518	0.0902	NM	8.39E+00	4.03E+00	120	-99	-99
10.13338	110.09	3908.7	3910.9	2.81	11.36	0.1586	0.0829	NM	8.44E+00	4.05E+00	120	8	7
10.1915	105.29	4211	4212.5	2.5	7.71	0.1087	0.059	NM	8.49E+00	4.08E+00	120	-99	-99
10.25002	84.24	4274.1	4275.8	1.97	8.51	0	0	NM	8.54E+00	4.10E+00	120	-99	-99
10.45807	68.47	4118.6	4119.8	1.68	5.46	0	0	NM	8.72E+00	4.18E+00	120	8	7
10.52301	64.79	3236.6	3237.8	2	6.11	0	0	NM	8.77E+00	4.21E+00	120	8	7
10.58234	55.48	3694.4	3696.1	1.5	8.46	0	0	NM	8.82E+00	4.23E+00	120	8	7
10.64527	46.15	4081.9	4083.2	1.13	7.06	0	0	NM	8.87E+00	4.26E+00	120	6	7
10.707	36.27	4494.2	4495.7	0.81	7.51	0	0	NM	8.92E+00	4.28E+00	120	-99	-99
10.76834	37.12	4484	4485.3	0.83	8.91	0	0	NM	8.97E+00	4.31E+00	120	-99	-99
10.82987	49.77	3629.9	3631.1	1.37	6.16	0	0	NM	9.03E+00	4.33E+00	120	6	7
10.893	56.37	3854.4	3855.6	1.46	6.26	0	0	NM	9.08E+00	4.36E+00	120	8	7
10.95273	55.49	4055.5	4056.7	1.37	6.31	0	0	NM	9.13E+00	4.38E+00	120	6	7
11.01647	52.63	4249.2	4250.6	1.24	7.61	0	0	NM	9.18E+00	4.41E+00	120	6	7
11.0808	49.64	4456.1	4457.4	1.11	8.96	0	0	NM	9.23E+00	4.43E+00	120	-99	-99
11.14234	46.77	4299.1	4300.5	1.09	7.51	0	0	NM	9.29E+00	4.46E+00	120	6	7
11.20206	45.99	4460.5	4462.6	1.03	10.96	0	0	NM	9.34E+00	4.48E+00	120	6	7
11.26179	58.99	4871.4	4874	1.21	13.5	0	0	NM	9.39E+00	4.51E+00	120	-99	-99
11.30629	65.17	3874.9	3876.7	1.68	9.31	0	0	NM	9.42E+00	4.52E+00	120	8	7
11.50235	75.22	4874.1	4875.1	1.54	5.19	0	0	NM	9.59E+00	4.60E+00	120	-99	-99
11.54445	76.48	5110.3	5111.3	1.5	5.09	0	0	NM	9.62E+00	4.62E+00	120	-99	-99

11.58696	87.46	5025.2	5028.1	1.74	4.64	0	0	NM	9.66E+00	4.64E+00	120	-99	-99
11.61783	82.39	4775.9	4776.7	1.72	4.29	0	0	NM	9.68E+00	4.65E+00	120	-99	-99
11.83996	78.19	5183.6	5184.3	1.51	3.34	0	0	NM	9.87E+00	4.74E+00	120	-99	-99
11.89729	73.92	6072.5	6073.2	1.22	3.84	0	0	NM	9.91E+00	4.76E+00	120	-99	-99
11.9406	65.07	6489.1	6489.8	1	3.84	0	0	NM	9.95E+00	4.78E+00	120	-99	-99
12.00114	66.65	6767.7	6768.5	0.99	4.14	0	0	NM	1.00E+01	4.80E+00	120	-99	-99
12.20122	62.05	7058.2	7060.7	0.88	12.87	0	0	NM	1.02E+01	4.88E+00	120	-99	-99
12.28218	0	6310.1	6312	0	9.53	0	0	NM	1.02E+01	4.91E+00	120	-99	-99
12.32672	0	6612.3	6613.9	0	8.53	0	0	NM	1.03E+01	4.93E+00	120	-99	-99
12.40129	0	6098.9	6100.6	0	8.63	0	0	NM	1.03E+01	4.96E+00	120	-99	-99
12.45021	0	7448.3	7450.1	0	8.88	0	0	NM	1.04E+01	4.98E+00	120	-99	-99
12.51476	0	7820.9	7822.7	0	9.33	0	0	NM	1.04E+01	5.01E+00	120	-99	-99
12.57811	0	7916.2	7918.1	0	9.73	0	0	NM	1.05E+01	5.03E+00	120	-99	-99

Electric Cone Penetrometer Data

Cone_TAP v 2.90

Test Id: FFD-05A Date: 5-Nov-03

Site: SUNNYSIDE Cone Id: 108.034XXX

Location: QUEENS NY

Project: ROUX Soil Density(pcf): 120

Client: ROUX

Depth (ft)	Sleeve Stress (psi)	Tip Stress UNC (psi)	Tip Stress COR (psi)	Ratio COR (%)	Pore Pressure (psi)	LFFD (V)	HFFD (V)	Excitation (Vdc)	Overburden (psi)	Eff. Overburden (psi)	Wet Density (pcf)	Class. FR (Rob. 1990)	Class. PP (Rob. 1990)
0	0	0	0	0	0	0	0	NM	0.00E+00	0.00E+00	120	-99	-99
0.17213	0	323.2	323.4	0	1.03	0.0361	0.0157	NM	1.43E-01	6.88E-02	120	-99	-99
0.2255	0	407	407.2	0	1.08	0.0368	0.016	NM	1.88E-01	9.02E-02	120	-99	-99
0.27565	3.57	480.4	480.8	0.74	1.38	0.0395	0.0189	NM	2.30E-01	1.10E-01	120	-99	-99
0.32541	3.58	609.6	609.9	0.59	1.33	0.038	0.0195	NM	2.71E-01	1.30E-01	120	-99	-99
0.37717	3.58	724.2	724.4	0.49	1.43	0.0309	0.0162	NM	3.14E-01	1.51E-01	120	-99	-99
0.42732	3.95	818.2	818.4	0.48	1.43	0.0319	0.0155	NM	3.56E-01	1.71E-01	120	-99	-99
0.47748	4.24	931.2	931.5	0.45	1.48	0.0319	0.0155	NM	3.98E-01	1.91E-01	120	-99	-99
0.52844	5.68	1022.3	1022.6	0.56	1.48	0.0307	0.0163	NM	4.40E-01	2.11E-01	120	-99	-99
0.5818	6.31	1104.5	1104.8	0.57	1.48	0.0303	0.0149	NM	4.85E-01	2.33E-01	120	-99	-99
0.63156	7.39	1178	1178.3	0.63	1.48	0.0311	0.0139	NM	5.26E-01	2.53E-01	120	-99	-99
0.68412	7.98	1267.6	1267.9	0.63	1.58	0.0284	0.0131	NM	5.70E-01	2.74E-01	120	-99	-99
0.73668	8.04	1361.5	1361.8	0.59	1.58	0.0272	0.0132	NM	6.14E-01	2.95E-01	120	-99	-99
0.78764	8.19	1506.9	1507.3	0.54	1.73	0.0253	0.0122	NM	6.56E-01	3.15E-01	120	-99	-99
0.83699	8.01	1605.3	1605.7	0.5	1.68	0.0235	0.0111	NM	6.98E-01	3.35E-01	120	-99	-99
0.88955	8.62	1674.4	1674.7	0.51	1.68	0.022	0.0099	NM	7.41E-01	3.56E-01	120	-99	-99
0.93971	9.05	1740.4	1740.8	0.52	1.68	0.021	0.01	NM	7.83E-01	3.76E-01	120	-99	-99
0.99348	9.59	1857.9	1858.3	0.52	1.73	0.0207	0.0097	NM	8.28E-01	3.97E-01	120	-99	-99
1.04443	8.97	1880	1880.3	0.48	1.83	0.0213	0.0098	NM	8.70E-01	4.18E-01	120	-99	-99
1.09579	9.66	1830	1830.4	0.53	1.83	0.0198	0.0092	NM	9.13E-01	4.38E-01	120	-99	-99
1.14715	10.43	1768.3	1768.7	0.59	1.88	0.02	0.0096	NM	9.56E-01	4.59E-01	120	-99	-99
1.19891	10.19	1705.2	1705.5	0.6	1.78	0.0191	0.0093	NM	9.99E-01	4.80E-01	120	-99	-99
1.24907	10.22	1634.7	1635.1	0.63	1.88	0.0193	0.0092	NM	1.04E+00	5.00E-01	120	-99	-99
1.30324	10.4	1584.8	1585.2	0.66	1.98	0.0198	0.0094	NM	1.09E+00	5.21E-01	120	-99	-99
1.35379	10.94	1530.4	1530.8	0.71	1.83	0.0191	0.0095	NM	1.13E+00	5.42E-01	120	-99	-99
1.40075	11.29	1476.1	1476.5	0.76	1.76	0.0189	0.0093	NM	1.17E+00	5.60E-01	120	-99	-99
1.45252	11.51	1483.5	1483.8	0.78	1.81	0.0184	0.0086	NM	1.21E+00	5.81E-01	120	-99	-99
1.50068	11.98	1520.2	1520.5	0.79	1.81	0.0147	0.0066	NM	1.25E+00	6.00E-01	120	-99	-99
1.55486	12.15	1571.5	1571.9	0.77	1.76	0.0141	0.0058	NM	1.30E+00	6.22E-01	120	-99	-99
1.60784	14.32	1602.4	1602.7	0.89	1.71	0.0139	0.0056	NM	1.34E+00	6.43E-01	120	-99	-99
1.65881	13.65	1602.4	1602.7	0.85	1.76	0.0083	0.0032	NM	1.38E+00	6.64E-01	120	-99	-99
1.70937	12.84	1618.5	1618.8	0.79	1.76	0.0051	0.0015	NM	1.42E+00	6.84E-01	120	-99	-99
1.75994	12.34	1639.1	1639.4	0.75	1.91	0.0039	0.0012	NM	1.47E+00	7.04E-01	120	-99	-99
1.81051	11.84	1624.4	1624.7	0.73	1.86	0.0045	0.0025	NM	1.51E+00	7.24E-01	120	-99	-99
1.86148	11.22	1637.6	1638	0.68	1.96	0.0089	0.0052	NM	1.55E+00	7.45E-01	120	-99	-99
1.91165	10.37	1633.2	1633.6	0.63	1.96	0.0102	0.0055	NM	1.59E+00	7.65E-01	120	-99	-99
1.96302	9.93	1499.6	1500	0.66	1.96	0.0149	0.0069	NM	1.64E+00	7.85E-01	120	-99	-99
2.0164	10.56	1509.9	1510.3	0.7	2.01	0.0102	0.0047	NM	1.68E+00	8.07E-01	120	-99	-99
2.06857	10.42	1537.8	1538.1	0.68	1.91	0.008	0.0057	NM	1.72E+00	8.27E-01	120	-99	-99

2.12155	10.03	1564.2	1564.6	0.64	1.86	0.0148	0.0069	NM	1.77E+00	8.49E-01	120	-99	-99
2.17091	9.24	1812.6	1813	0.57	1.81	0.0122	0.0057	NM	1.81E+00	8.68E-01	120	-99	-99
2.22309	8.69	1875.8	1876.1	0.52	1.81	0.0094	0.0045	NM	1.85E+00	8.89E-01	120	-99	-99
2.27366	8.86	1738.9	1739.2	0.51	1.86	0.0067	0.0034	NM	1.90E+00	9.10E-01	120	-99	-99
2.32784	9.7	1758	1758.3	0.55	1.91	0.0038	0.0021	NM	1.94E+00	9.31E-01	120	-99	-99
2.37881	10.41	1749.1	1749.5	0.59	1.96	0.0046	0.0029	NM	1.98E+00	9.52E-01	120	-99	-99
2.43058	10.56	1760.9	1761.3	0.6	1.96	0.0035	0.0026	NM	2.03E+00	9.72E-01	120	-99	-99
2.48478	9.9	1758	1758.4	0.56	2.11	0.0005	0.0009	NM	2.07E+00	9.94E-01	120	-99	-99
2.53653	10.16	1803.5	1803.9	0.56	2.06	0.0007	0.0007	NM	2.11E+00	1.02E+00	120	-99	-99
2.5875	10.32	1873.9	1874.3	0.55	2.06	0.0009	0.0004	NM	2.16E+00	1.04E+00	120	-99	-99
2.63727	10.88	1941.4	1941.8	0.56	2.06	0.0019	0.0009	NM	2.20E+00	1.06E+00	120	-99	-99
2.68965	11.36	1998.7	1999.1	0.57	2.16	0.0023	0.0015	NM	2.24E+00	1.08E+00	120	-99	-99
2.74061	12.46	2073.5	2074	0.6	2.16	0.0028	0.0016	NM	2.28E+00	1.10E+00	120	-99	-99
2.79098	14.04	2220.3	2220.7	0.63	2.11	0.0032	0.0018	NM	2.33E+00	1.12E+00	120	-99	-99
2.84075	14.63	2301.1	2301.5	0.64	2.16	0.0022	0.0015	NM	2.37E+00	1.14E+00	120	-99	-99
2.89332	14.63	2296.7	2297.1	0.64	2.21	0.0026	0.0009	NM	2.41E+00	1.16E+00	120	-99	-99
2.9467	14.33	2305.5	2305.9	0.62	2.31	0.0024	0.0011	NM	2.46E+00	1.18E+00	120	-99	-99
2.99727	14.79	2254.1	2254.5	0.66	2.31	0.0022	0.0017	NM	2.50E+00	1.20E+00	120	-99	-99
3.04744	15.53	2218.9	2219.3	0.7	2.26	0.0027	0.0016	NM	2.54E+00	1.22E+00	120	-99	-99
3.10122	16.32	2129.3	2129.8	0.77	2.36	0.0035	0.0024	NM	2.58E+00	1.24E+00	120	-99	-99
3.15098	16.66	2048.6	2049.1	0.81	2.41	0.0042	0.0046	NM	2.63E+00	1.26E+00	120	-99	-99
3.20316	17.83	1981.1	1981.5	0.9	2.41	0.0041	0.0052	NM	2.67E+00	1.28E+00	120	-99	-99
3.25212	18.67	1937	1937.5	0.96	2.31	0.0041	0.0029	NM	2.71E+00	1.30E+00	120	-99	-99
3.3059	19.74	1893	1893.5	1.04	2.36	0.0048	0.0032	NM	2.76E+00	1.32E+00	120	-99	-99
3.35807	20.26	1846	1846.5	1.1	2.31	0.0044	0.0033	NM	2.80E+00	1.34E+00	120	-99	-99
3.40864	20.49	1809.3	1809.8	1.13	2.36	0.0047	0.004	NM	2.84E+00	1.36E+00	120	-99	-99
3.45801	20.62	1785.8	1786.3	1.15	2.41	0.0055	0.0047	NM	2.88E+00	1.38E+00	120	-99	-99
3.50818	20.91	1743.3	1743.7	1.19	2.36	0.006	0.0053	NM	2.92E+00	1.40E+00	120	-99	-99
3.55834	20.88	1700.7	1701.2	1.23	2.46	0.0069	0.006	NM	2.97E+00	1.42E+00	120	-99	-99
3.61011	20.89	1662.5	1663	1.26	2.46	0.0069	0.0059	NM	3.01E+00	1.44E+00	120	-99	-99
3.66028	20.61	1637.6	1638	1.28	2.36	0.0081	0.0062	NM	3.05E+00	1.46E+00	120	-99	-99
3.71165	20.23	1812.6	1813.1	1.25	2.46	0.0083	0.0062	NM	3.09E+00	1.49E+00	120	-99	-99
3.76383	19.88	1587.7	1588.1	1.25	2.36	0.0081	0.0106	NM	3.14E+00	1.51E+00	120	-99	-99
3.8156	19.59	1565.7	1566.1	1.25	2.36	0.0094	0.0074	NM	3.18E+00	1.53E+00	120	-99	-99
3.86697	19.39	1543.6	1544.1	1.26	2.36	0.0096	0.0068	NM	3.22E+00	1.55E+00	120	6	7
3.91794	19.1	1536.3	1536.7	1.24	2.31	0.0101	0.007	NM	3.27E+00	1.57E+00	120	6	7
3.97132	18.51	1536.3	1536.8	1.2	2.36	0.0106	0.0072	NM	3.31E+00	1.59E+00	120	6	7
4.02229	17.95	1549.5	1550	1.16	2.36	0.0107	0.0076	NM	3.35E+00	1.61E+00	120	6	7
4.07366	17.18	1577.4	1577.9	1.09	2.41	0.01	0.0074	NM	3.40E+00	1.63E+00	120	6	7
4.12343	16.67	1620	1620.4	1.03	2.41	0.0081	0.0066	NM	3.44E+00	1.65E+00	120	6	7
4.1756	15.92	1669.9	1670.3	0.95	2.36	0.0073	0.0058	NM	3.48E+00	1.67E+00	120	7	7
4.22777	15.06	1712.5	1712.9	0.88	2.46	0.0077	0.0058	NM	3.52E+00	1.69E+00	120	-99	-99
4.27915	14.21	1721.3	1721.7	0.83	2.41	0.0087	0.0065	NM	3.57E+00	1.71E+00	120	-99	-99
4.32971	13.38	1713.9	1714.4	0.78	2.41	0.0093	0.0072	NM	3.61E+00	1.73E+00	120	7	7
4.38189	12.56	1686	1686.5	0.74	2.46	0.01	0.0079	NM	3.65E+00	1.75E+00	120	7	7
4.43366	12.06	1642	1642.4	0.73	2.31	0.0123	0.0089	NM	3.70E+00	1.77E+00	120	7	7
4.48463	11.52	1570.1	1570.5	0.73	2.21	0.0181	0.0115	NM	3.74E+00	1.79E+00	120	7	7
4.72333	9.17	1176.8	1177.1	0.78	1.92	0.0378	0.0225	NM	3.94E+00	1.89E+00	120	7	7
4.77227	8.65	1138.6	1139	0.76	1.87	0.0425	0.0236	NM	3.98E+00	1.91E+00	120	7	7
4.82322	8.08	1107.8	1108.2	0.73	1.87	0.0503	0.0281	NM	4.02E+00	1.93E+00	120	7	7
4.87697	7.43	1084.3	1084.7	0.68	1.97	0.0568	0.034	NM	4.06E+00	1.95E+00	120	7	7
4.93233	6.8	1069.6	1070	0.64	1.87	0.0613	0.0355	NM	4.11E+00	1.97E+00	120	7	7

4.98408	6.38	1069.6	1070	0.6	1.82	0.0708	0.04	NM	4.15E+00	1.99E+00	120	7	7
5.03422	6.09	1072.6	1072.9	0.57	1.82	0.0702	0.0409	NM	4.20E+00	2.01E+00	120	7	7
5.08396	5.95	1085.8	1086.1	0.55	1.82	0.0708	0.0409	NM	4.24E+00	2.03E+00	120	7	7
5.13531	5.94	1106.3	1106.7	0.54	1.82	0.0747	0.0418	NM	4.28E+00	2.05E+00	120	7	7
5.18666	5.93	1128.3	1128.7	0.53	1.87	0.0691	0.0404	NM	4.32E+00	2.08E+00	120	7	7
5.2384	5.98	1156.2	1158.6	0.52	1.87	0.064	0.0337	NM	4.37E+00	2.10E+00	120	7	7
5.29055	6.14	1181.2	1181.5	0.52	1.87	0.0663	0.0383	NM	4.41E+00	2.12E+00	120	7	7
5.34511	6.33	1204.6	1205	0.53	1.87	0.0688	0.0363	NM	4.45E+00	2.14E+00	120	7	7
5.39726	6.48	1226.7	1227	0.53	1.87	0.0612	0.0329	NM	4.50E+00	2.16E+00	120	7	7
5.44861	6.71	1242.8	1243.2	0.54	1.87	0.0612	0.0311	NM	4.54E+00	2.18E+00	120	7	7
5.49955	6.94	1260.4	1260.8	0.55	1.82	0.0682	0.0308	NM	4.58E+00	2.20E+00	120	7	7
5.5513	7.2	1275.1	1275.4	0.58	1.87	0.0719	0.0317	NM	4.63E+00	2.22E+00	120	7	7
5.60265	7.48	1283.9	1284.2	0.58	1.82	0.072	0.0332	NM	4.67E+00	2.24E+00	120	7	7
5.65359	7.8	1295.6	1296	0.6	1.82	0.0669	0.033	NM	4.71E+00	2.26E+00	120	7	7
5.70534	8.24	1304.4	1304.8	0.63	1.82	0.0574	0.0294	NM	4.75E+00	2.28E+00	120	7	7
5.75849	8.91	1322	1322.4	0.67	1.87	0.0627	0.0276	NM	4.80E+00	2.30E+00	120	7	7
5.81325	9.86	1342.6	1342.9	0.72	1.82	0.0642	0.0251	NM	4.84E+00	2.33E+00	120	7	7
5.8654	10.04	1396.9	1397.2	0.72	1.87	0.0656	0.0253	NM	4.89E+00	2.35E+00	120	7	7
5.91755	10.59	1487.9	1488.2	0.71	1.87	0.0681	0.0249	NM	4.93E+00	2.37E+00	120	7	7
5.97531	17.65	1655.2	1655.5	1.07	1.92	0.0769	0.0288	NM	4.98E+00	2.39E+00	120	6	7
6.03067	32.92	1870.9	1871.3	1.76	1.97	0.0842	0.0306	NM	5.03E+00	2.41E+00	120	8	7
6.08522	24.36	2135	2135.4	1.14	2.07	0.0817	0.0298	NM	5.07E+00	2.43E+00	120	6	7
6.13938	20.37	2405.1	2405.5	0.85	2.12	0.0768	0.0299	NM	5.12E+00	2.46E+00	120	7	7
6.19835	17.74	2710.3	2710.7	0.65	2.07	0.0727	0.0288	NM	5.17E+00	2.48E+00	120	-99	-99
6.25491	23.26	3083.1	3083.5	0.75	2.27	0.0851	0.0368	NM	5.21E+00	2.50E+00	120	-99	-99
6.31267	28.33	3699.4	3700	0.77	3.02	0.0937	0.0443	NM	5.26E+00	2.53E+00	120	-99	-99
6.36964	38.4	3923.9	3924.7	0.98	4.02	0.0959	0.046	NM	5.31E+00	2.55E+00	120	-99	-99
6.427	43.86	4803	4804	0.91	5.06	0.0902	0.0429	NM	5.36E+00	2.57E+00	120	-99	-99
6.48477	46.43	4965.9	4966.7	0.93	4.47	0.0804	0.0354	NM	5.40E+00	2.59E+00	120	-99	-99
6.54293	43.75	4577	4577.7	0.96	3.87	0.0843	0.0388	NM	5.45E+00	2.62E+00	120	-99	-99
6.60471	46.11	4038.4	4039	1.14	3.17	0.0887	0.0433	NM	5.50E+00	2.64E+00	120	-99	-99
6.66368	43.51	3612.8	3613.4	1.2	2.82	0.0644	0.034	NM	5.55E+00	2.67E+00	120	-99	-99
6.72184	35.8	3601.1	3601.7	0.99	2.92	0.0534	0.0272	NM	5.60E+00	2.69E+00	120	-99	-99
6.78001	33.89	3513	3513.6	0.96	3.07	0.0502	0.0232	NM	5.65E+00	2.71E+00	120	-99	-99
6.83617	27.41	3444.1	3444.6	0.8	3.02	0.0486	0.0234	NM	5.70E+00	2.73E+00	120	-99	-99
6.89554	25	3364.8	3365.4	0.74	2.87	0.0515	0.0251	NM	5.75E+00	2.76E+00	120	-99	-99
6.95331	23.8	3121.2	3121.8	0.76	3.07	0.0621	0.0317	NM	5.79E+00	2.78E+00	120	-99	-99
7.01308	24.16	3064	3064.6	0.79	2.97	0.0686	0.0346	NM	5.84E+00	2.81E+00	120	-99	-99
7.07164	20.65	3012.6	3013.2	0.69	3.02	0.0532	0.0272	NM	5.89E+00	2.83E+00	120	-99	-99
7.13262	18.23	2804.2	2805	0.65	3.77	0.06	0.0297	NM	5.94E+00	2.85E+00	120	7	7
7.18918	17.22	2783.7	2784.3	0.62	3.27	0.0593	0.03	NM	5.99E+00	2.88E+00	120	7	7
7.25096	17.69	2698.6	2699.2	0.66	3.12	0.0547	0.0313	NM	6.04E+00	2.90E+00	120	7	7
7.31153	16	2816.4	2617	0.61	3.02	0.0511	0.0293	NM	6.09E+00	2.93E+00	120	7	7
7.3717	14.72	2437.4	2437.9	0.6	3.02	0.0624	0.0347	NM	6.14E+00	2.95E+00	120	7	7
7.42987	14.62	2380.1	2380.7	0.61	3.12	0.06	0.034	NM	6.19E+00	2.97E+00	120	7	7
7.48964	14.12	2369.8	2370.5	0.6	3.17	0.0428	0.0266	NM	6.24E+00	3.00E+00	120	7	7
7.54861	18.25	2368.4	2369	0.77	3.22	0.0395	0.0238	NM	6.29E+00	3.02E+00	120	7	7
7.60677	28.6	2388.9	2389.6	1.2	3.32	0.0505	0.0281	NM	6.34E+00	3.04E+00	120	6	7
7.66654	31.78	2375.7	2376.4	1.34	3.27	0.0606	0.0349	NM	6.39E+00	3.07E+00	120	6	7
7.72591	30.75	2331.7	2332.3	1.32	3.27	0.0569	0.0301	NM	6.44E+00	3.09E+00	120	6	7
7.78408	23.01	2299.4	2300.1	1	3.37	0.0654	0.0339	NM	6.49E+00	3.11E+00	120	6	7
7.84225	30.6	2330.2	2330.9	1.31	3.52	0.0692	0.035	NM	6.54E+00	3.14E+00	120	6	7

7.88397	57.58	2475.3	2476	2.33	3.93	0.0622	0.0325	NM	6.57E+00	3.15E+00	120	8	7
7.94133	71.13	3029.9	3030.7	2.35	4.23	0.0567	0.0307	NM	6.62E+00	3.18E+00	120	8	7
8.00551	64.24	3461.2	3461.9	1.86	3.43	0.0593	0.0289	NM	6.67E+00	3.20E+00	120	-99	-99
8.06568	58.23	2900.7	2901.3	1.94	3.03	0.0498	0.026	NM	6.72E+00	3.23E+00	120	8	7
8.12626	50.41	2909.6	2910.3	1.73	3.88	0.0487	0.0249	NM	6.77E+00	3.25E+00	120	8	7
8.17319	49.75	2754	2754.7	1.81	3.63	0.0568	0.028	NM	6.81E+00	3.27E+00	120	8	7
8.23178	46.98	1901.6	1902.3	2.47	3.68	0.0639	0.0329	NM	6.86E+00	3.29E+00	120	8	7
8.29313	35.01	1725.6	1726.3	2.03	3.98	0.0571	0.0291	NM	6.91E+00	3.32E+00	120	8	7
8.3521	38.56	1749	1749.8	2.2	3.93	0.0683	0.0354	NM	6.96E+00	3.34E+00	120	8	7
8.40827	30.55	1916.3	1917	1.59	3.73	0.0852	0.0433	NM	7.01E+00	3.36E+00	120	8	7
8.46683	10.43	1851.7	1852.5	0.56	3.73	0.0704	0.0348	NM	7.06E+00	3.39E+00	120	7	7
8.525	7.83	1834.1	1834.8	0.43	3.68	0.0803	0.0368	NM	7.10E+00	3.41E+00	120	7	7
8.58316	8.14	1778.4	1779.1	0.46	3.78	0.0581	0.0283	NM	7.15E+00	3.43E+00	120	7	7
8.64253	10.67	1769.6	1770.2	0.6	3.23	0.0675	0.0373	NM	7.20E+00	3.46E+00	120	7	7
8.70511	10.58	1822.4	1823	0.58	3.23	0.0604	0.033	NM	7.25E+00	3.48E+00	120	7	7
8.76448	10.22	1897.2	1897.9	0.54	3.28	0.0517	0.0236	NM	7.30E+00	3.51E+00	120	7	7
8.82225	9.74	1951.5	1952.2	0.5	3.78	0.0375	0.0162	NM	7.35E+00	3.53E+00	120	7	7
8.88402	9.6	1935.4	1936.1	0.5	3.68	0.0422	0.0229	NM	7.40E+00	3.55E+00	120	7	7
8.94299	9.67	1772.5	1773.2	0.55	3.68	0.0294	0.0144	NM	7.45E+00	3.58E+00	120	7	7
8.99996	9.89	1705	1705.7	0.58	3.53	0.0307	0.0125	NM	7.50E+00	3.60E+00	120	7	7
9.05932	9.75	1694.8	1695.4	0.57	3.53	0.0275	0.0113	NM	7.55E+00	3.62E+00	120	7	7
9.1207	9.86	1730	1730.6	0.57	3.53	0.0288	0.0141	NM	7.60E+00	3.65E+00	120	7	7
9.18208	9.78	1781.3	1782	0.55	3.58	0.0324	0.0159	NM	7.65E+00	3.67E+00	120	7	7
9.23904	12.8	1862	1862.7	0.69	3.63	0.0306	0.0156	NM	7.70E+00	3.70E+00	120	7	7
9.29681	15.51	1985.3	1986	0.78	3.78	0.0457	0.02	NM	7.75E+00	3.72E+00	120	6	7
9.35657	25.76	2117.3	2118	1.22	3.88	0.0336	0.0133	NM	7.80E+00	3.74E+00	120	6	7
9.41514	35.74	2309.5	2310.2	1.55	3.93	0.0505	0.0217	NM	7.85E+00	3.77E+00	120	6	7
9.47211	66.47	2570.6	2571.4	2.58	4.08	0.0842	0.041	NM	7.89E+00	3.79E+00	120	8	7
9.53228	65.37	2897.8	2898.7	2.26	4.38	0.0251	0.0079	NM	7.94E+00	3.81E+00	120	8	7
9.59245	49.25	3092.9	3093.8	1.59	4.58	0.0455	0.0151	NM	7.99E+00	3.84E+00	120	8	7
9.65021	55.92	3569.8	3570.7	1.57	4.88	0.036	0.0128	NM	8.04E+00	3.86E+00	120	8	7
9.70677	50.99	4059.8	4061	1.26	6.37	0.0399	0.0148	NM	8.09E+00	3.88E+00	120	-99	-99
9.77417	59.1	4031.9	4033	1.47	5.83	0.0535	0.0373	NM	8.15E+00	3.91E+00	120	-99	-99
9.83193	43.92	3355.6	3356.5	1.31	4.83	0.0656	0.0574	NM	8.19E+00	3.93E+00	120	8	7
9.88809	30.45	3643.1	3644	0.84	4.48	0.0774	0.0769	NM	8.24E+00	3.96E+00	120	7	7
9.94345	30.42	3408.4	3409.3	0.89	4.73	0.089	0.0962	NM	8.29E+00	3.98E+00	120	7	7
10.00403	37.09	3232.3	3233.3	1.15	5.28	0.057	0.0788	NM	8.34E+00	4.00E+00	120	6	7
10.05938	31.91	3810.4	3811.5	0.84	5.63	0.0623	0.082	NM	8.38E+00	4.02E+00	120	7	7
10.11795	43.3	3685.7	3686.7	1.17	5.58	0.057	0.0824	NM	8.43E+00	4.05E+00	120	6	7
10.17331	53.67	4118.5	4119.6	1.3	5.58	0.0572	0.0821	NM	8.48E+00	4.07E+00	120	-99	-99
10.23228	68.49	4793.4	4794.5	1.43	5.73	0.0528	0.0752	NM	8.53E+00	4.09E+00	120	-99	-99
10.28804	85.16	5409.6	5410.8	1.57	6.23	0.0514	0.0753	NM	8.57E+00	4.12E+00	120	-99	-99
10.3458	94.19	5494.7	5495.9	1.71	6.28	0.053	0.0764	NM	8.62E+00	4.14E+00	120	-99	-99
10.40357	85.44	6107.9	6109.2	1.4	6.33	0.0553	0.0784	NM	8.67E+00	4.16E+00	120	-99	-99
10.46494	77.95	5042.8	5044	1.55	6.18	0.0546	0.0671	NM	8.72E+00	4.19E+00	120	-99	-99
10.52271	63.87	4887.3	4888.4	1.31	6.03	0.0528	0.0513	NM	8.77E+00	4.21E+00	120	-99	-99
10.58208	60.24	4689.2	4690.3	1.28	5.63	0.0509	0.0349	NM	8.82E+00	4.23E+00	120	-99	-99
10.64104	55.64	4730.3	4731.4	1.18	5.53	0.0491	0.0187	NM	8.87E+00	4.26E+00	120	-99	-99
10.69881	54.76	5038.4	5039.4	1.09	5.43	0.0368	0.0065	NM	8.92E+00	4.28E+00	120	-99	-99
10.75738	53.85	4580.6	4581.7	1.17	5.38	0.0239	0.0013	NM	8.96E+00	4.30E+00	120	-99	-99
10.81996	42.69	4121.4	4122.4	1.04	5.18	0	0	NM	9.02E+00	4.33E+00	120	6	7
10.87571	35.26	4473.5	4474.6	0.79	5.73	0	0	NM	9.06E+00	4.35E+00	120	-99	-99

10.93669	37.23	4451.5	4452.6	0.84	5.73	0	0	NM	9.11E+00	4.38E+00	120	-99	-99
10.99405	41.42	4593.8	4594.9	0.9	5.58	0	0	NM	9.16E+00	4.40E+00	120	-99	-99
11.05262	51.83	4957.7	4958.8	1.05	5.78	0	0	NM	9.21E+00	4.42E+00	120	-99	-99
11.11039	64.5	5060.4	5061.5	1.27	5.88	0	0	NM	9.26E+00	4.44E+00	120	-99	-99
11.16815	69.88	5098.5	5099.8	1.37	6.33	0	0	NM	9.31E+00	4.47E+00	120	-99	-99
11.20586	77.89	4847.7	4848.8	1.61	6.03	0	0	NM	9.34E+00	4.48E+00	120	-99	-99
11.25322	78.95	5195.7	5197.1	1.52	7.05	0	0	NM	9.38E+00	4.50E+00	120	-99	-99
11.3078	97.56	5292.6	5294.1	1.84	7.75	0	0	NM	9.42E+00	4.52E+00	120	-99	-99
11.3692	109.78	5044.5	5046.4	2.18	9.8	0	0	NM	9.47E+00	4.55E+00	120	-99	-99
11.43382	109.86	4887.5	4889.3	2.25	9.65	0	0	NM	9.53E+00	4.57E+00	120	-99	-99
11.4888	65.11	5371.9	5373.7	1.21	9.65	0	0	NM	9.57E+00	4.60E+00	120	-99	-99
11.549	46.41	5110.6	5112.3	0.91	9	0	0	NM	9.62E+00	4.62E+00	120	-99	-99
11.6084	57.8	5013.7	5015.4	1.15	8.8	0	0	NM	9.67E+00	4.64E+00	120	-99	-99
11.6674	82.18	5631.7	5633.5	1.46	9.6	0	0	NM	9.72E+00	4.67E+00	120	-99	-99
11.72399	114.08	6211.5	6213.5	1.84	10.39	0	0	NM	9.77E+00	4.69E+00	120	-99	-99
11.79422	87.1	6827.8	6829.2	0.97	7.15	0	0	NM	9.83E+00	4.72E+00	120	-99	-99
11.85884	12.54	4231.3	4232.8	0.3	7.85	0	0	NM	9.88E+00	4.74E+00	120	7	7
11.90298	-24.74	4796.5	4798.1	-0.52	8.25	0	0	NM	9.92E+00	4.76E+00	120	-99	-99
11.96118	-73.88	4977	4979	-1.48	10.15	0	0	NM	9.97E+00	4.78E+00	120	-99	-99
12.02218	-84.89	5593.5	5595.7	-1.52	11.44	0	0	NM	1.00E+01	4.81E+00	120	-99	-99
12.07997	-84.89	6424.3	6426.6	-1.32	11.94	0	0	NM	1.01E+01	4.83E+00	120	-99	-99
12.32158	-84.89	-4389.5	-4456.4	1.9	-346.35	0	0	NM	1.03E+01	4.93E+00	120	-99	-99
12.38258	-84.89	-4389.5	-4456.4	1.9	-346.35	0	0	NM	1.03E+01	4.95E+00	120	-99	-99
12.44118	-84.89	-4389.5	-4456.4	1.9	-346.35	0	0	NM	1.04E+01	4.98E+00	120	-99	-99
12.50138	-84.89	-4389.5	-4456.4	1.9	-346.35	0	0	NM	1.04E+01	5.00E+00	120	-99	-99
12.55797	-84.89	-4389.5	-4456.4	1.9	-346.35	0	0	NM	1.05E+01	5.02E+00	120	-99	-99
12.61817	-84.89	-4389.5	-4456.4	1.9	-346.35	0	0	NM	1.05E+01	5.05E+00	120	-99	-99
12.67476	-84.89	-4389.5	-4456.4	1.9	-346.35	0	0	NM	1.06E+01	5.07E+00	120	-99	-99
12.73255	-84.89	-4389.5	-4456.4	1.9	-346.35	0	0	NM	1.06E+01	5.09E+00	120	-99	-99
12.79074	-84.89	-4389.5	-4456.4	1.9	-346.35	0	0	NM	1.07E+01	5.12E+00	120	-99	-99
13.03717	0	-4389.5	-4456.4	0	-346.35	0	0	NM	1.09E+01	5.22E+00	120	-99	-99
13.09415	0	-4389.5	-4456.4	0	-346.35	0	0	NM	1.09E+01	5.24E+00	120	-99	-99
13.15436	0	-4389.5	-4456.4	0	-346.35	0	0	NM	1.10E+01	5.26E+00	120	-99	-99

Electric Cone Penetrometer Data

Cone_TAP v 2.90

Test Id: HD-05B Date: 5-Nov-03

Site: SUNNYSIDE Cone Id: 108.021XXX

Location: QUEENS NY

Project: ROUX Soil Density(pcf): 120

Client: ROUX

Depth (ft)	Sleeve Stress (psi)	Tip Stress UNC (psi)	Tip Stress COR (psi)	Ratio COR (%)	Pore Pressure (psi)	LFFD (V)	HFFD (V)	Excitation (Vdc)	Overburden (psi)	Eff. Overburden (psi)	Wet Density (pcf)	Class. FR (Rob. 1990)	Class. PP (Rob. 1990)
0	0	0	0	0	0	0	0	0.997	0.00E+00	0.00E+00	120	-99	-99
0.17695	0	37.2	37.2	0	-0.05	0.0436	0.0023	0.997	1.48E-01	7.08E-02	120	-99	7
0.26201	0	84.2	84.2	0	-0.05	0.037	0.0021	0.997	2.18E-01	1.05E-01	120	-99	7
0.34346	0.13	98.7	98.7	0.13	-0.07	0.0355	0.0018	0.997	2.86E-01	1.37E-01	120	7	7
0.42812	0.23	136	136	0.17	0.02	0.0355	0.0021	0.997	3.57E-01	1.71E-01	120	7	7
0.5164	0.37	139.4	139.4	0.27	0.04	0.0321	0.0023	0.997	4.30E-01	2.07E-01	120	7	7
0.59865	0.51	170.4	170.4	0.3	0.01	0.027	0.0013	0.998	4.99E-01	2.40E-01	120	7	7
0.68332	0.69	216.1	216	0.32	-0.07	0.0197	0.0007	0.997	5.69E-01	2.73E-01	120	7	7
0.76158	0.88	250.6	250.6	0.35	0.24	0.0164	0.0006	0.997	6.35E-01	3.05E-01	120	7	7
1.03878	1.99	254.8	254.8	0.78	0.06	0.014	0.002	0.997	8.66E-01	4.16E-01	120	7	7
1.12944	1.97	262.4	262.4	0.75	0	0.0173	0.0024	0.997	9.41E-01	4.52E-01	120	7	7
1.20806	1.94	286.6	286.7	0.68	0.42	0.0199	0.0027	0.996	1.01E+00	4.83E-01	120	7	7
1.29311	1.88	314.3	314.3	0.6	0.02	0.0216	0.0023	0.996	1.08E+00	5.17E-01	120	7	7
1.37534	1.68	304.5	304.7	0.55	1.08	0.0209	0.002	0.997	1.15E+00	5.50E-01	120	7	7
1.45797	1.75	301.6	301.5	0.58	-0.12	0.0195	0.0017	0.997	1.22E+00	5.83E-01	120	7	7
1.53861	1.73	291.4	291.4	0.59	0.09	0.022	0.0018	0.997	1.28E+00	6.15E-01	120	7	7
1.62244	1.39	259.7	259.8	0.53	0.09	0.0202	0.0027	0.996	1.35E+00	6.49E-01	120	7	7
1.70267	1.36	236.1	236.1	0.58	-0.09	0.0195	0.0019	0.997	1.42E+00	6.81E-01	120	6	7
1.78371	1.77	207	207.1	0.85	0.17	0.0197	0.0034	0.997	1.49E+00	7.14E-01	120	6	7
1.86073	1.81	214	214	0.85	-0.05	0.0225	0.0029	0.997	1.55E+00	7.44E-01	120	6	7
1.94096	1.86	212.6	212.7	0.87	0.66	0.0198	0.0028	0.997	1.62E+00	7.76E-01	120	6	7
2.02159	1.62	245.2	245.3	0.66	0.47	0.0163	0.0027	0.996	1.69E+00	8.09E-01	120	6	7
2.10302	1.51	294.2	294.3	0.51	0.66	0.013	0.0019	0.997	1.75E+00	8.41E-01	120	7	7
2.18084	1.6	319.7	319.7	0.5	0.19	0.0131	0.0017	0.997	1.82E+00	8.72E-01	120	7	7
2.26629	2.18	456.6	456.6	0.48	0.33	0.0125	0.0014	0.996	1.89E+00	9.07E-01	120	7	7
2.34772	2.36	519.9	520	0.45	0.51	0.0126	0.0017	0.997	1.96E+00	9.39E-01	120	7	7
2.43757	2.7	521.3	521.4	0.52	0.42	0.0062	0	0.997	2.03E+00	9.75E-01	120	7	7
2.52422	3.08	513.8	513.8	0.6	0	0.0048	0.0006	0.997	2.10E+00	1.01E+00	120	7	7
2.61007	3.16	514.4	514.6	0.61	1.04	0.0071	0.001	0.997	2.18E+00	1.04E+00	120	7	7
2.68749	2.85	540.8	541	0.53	0.64	0.0063	0.0011	0.996	2.24E+00	1.08E+00	120	7	7
2.77333	2.57	552.3	552.6	0.47	1.59	0.0073	0.0007	0.997	2.31E+00	1.11E+00	120	7	7
2.85397	2.38	540	540.4	0.44	1.73	0.0093	0.0003	0.997	2.38E+00	1.14E+00	120	7	7
2.94061	2.79	506.9	507.2	0.55	1.38	0.0059	0.0003	0.997	2.45E+00	1.18E+00	120	7	7
3.02084	3.48	504.7	504.7	0.69	-0.07	0.0015	0.0006	0.997	2.52E+00	1.21E+00	120	6	7
3.10508	3.6	548.3	548.5	0.66	0.62	0.0008	0.0004	0.997	2.59E+00	1.24E+00	120	7	7
3.18852	1.66	370.1	370.1	0.45	-0.31	0.0007	0.0003	0.997	2.66E+00	1.28E+00	120	6	7
3.27196	3.41	582.9	582.9	0.59	0.09	0.0025	0.0005	0.997	2.73E+00	1.31E+00	120	7	7
3.35058	3.61	590.4	590.8	0.61	2.24	0.0036	0.0007	0.997	2.79E+00	1.34E+00	120	7	7
3.43362	3.62	669.1	669.1	0.54	0.24	0.005	0.0008	0.997	2.86E+00	1.37E+00	120	7	7

3.51465	3.81	317	317.2	1.2	0.73	0.0074	0.0014	0.996	2.93E+00	1.41E+00	120	6	7
3.59528	3.95	324.4	324.5	1.22	0.48	0.0101	0.0017	0.997	3.00E+00	1.44E+00	120	6	7
3.67351	4.21	401.7	401.9	1.05	1.06	0.0109	0.0019	0.997	3.06E+00	1.47E+00	120	6	7
3.75253	4.25	444.7	444.8	0.96	0.26	0.0099	0.0016	0.997	3.13E+00	1.50E+00	120	6	7
3.83116	3.27	433.7	433.5	0.76	-0.89	0.0096	0.0011	0.997	3.19E+00	1.53E+00	120	6	7
3.91259	3.04	416.9	416.8	0.73	-0.59	0.0102	0.0007	0.997	3.26E+00	1.57E+00	120	6	7
3.99001	3.29	396.2	396.2	0.83	-0.05	0.0104	0.0012	0.997	3.33E+00	1.60E+00	120	6	7
4.07104	3.34	379.6	379.8	0.88	0.57	0.0107	0.0017	0.997	3.39E+00	1.63E+00	120	6	7
4.17336	3.38	378.3	378.3	0.89	0.39	0.0117	0.0021	0.997	3.48E+00	1.67E+00	120	6	7
4.25039	3.62	389.5	389.6	0.93	0.49	0.0136	0.0024	0.997	3.54E+00	1.70E+00	120	6	7
4.32944	3.83	446.7	446.8	0.86	0.51	0.0147	0.0027	0.997	3.61E+00	1.73E+00	120	6	7
4.40688	3.87	493.9	494	0.78	0.51	0.0131	0.0022	0.996	3.67E+00	1.76E+00	120	6	7
4.49194	3.72	555.2	555.2	0.67	-0.27	0.0095	0.001	0.997	3.74E+00	1.80E+00	120	6	7
4.57059	3.6	590.4	590.3	0.61	-0.38	0.0075	0.001	0.997	3.81E+00	1.83E+00	120	6	7
4.64763	3.54	621	620.9	0.57	-0.47	0.0071	0.0009	0.996	3.87E+00	1.86E+00	120	6	7
4.72627	3.63	635.9	635.8	0.57	-0.52	0.0075	0.0002	0.997	3.94E+00	1.89E+00	120	6	7
4.80772	3.76	641.2	641.1	0.59	-0.48	0.0086	0.0003	0.997	4.01E+00	1.92E+00	120	6	7
4.88917	4.07	663.8	663.8	0.61	-0.11	0.0099	0.0007	0.996	4.07E+00	1.96E+00	120	6	7
4.97303	4.25	673	672.9	0.63	-0.26	0.0107	0.0005	0.997	4.14E+00	1.99E+00	120	6	7
5.04967	4.41	684.3	684.2	0.64	-0.21	0.0122	0.0008	0.997	4.21E+00	2.02E+00	120	6	7
5.13032	4.66	686.5	686.4	0.68	-0.36	0.0139	0.0005	0.997	4.28E+00	2.05E+00	120	6	7
5.20816	4.97	687.9	687.8	0.72	-0.54	0.015	0.0006	0.997	4.34E+00	2.08E+00	120	6	7
5.28841	5.22	692	691.9	0.75	-0.62	0.0157	0.0005	0.997	4.41E+00	2.12E+00	120	6	7
5.36946	5.33	689.8	689.7	0.77	-0.65	0.0171	0.0014	0.997	4.48E+00	2.15E+00	120	6	7
5.45091	5.24	690.6	690.5	0.76	-0.54	0.0183	0.0019	0.997	4.54E+00	2.18E+00	120	6	7
5.52875	4.94	688.2	688	0.72	-0.57	0.0202	0.0025	0.997	4.61E+00	2.21E+00	120	6	7
5.61422	4.75	691.4	691.3	0.69	-0.87	0.0857	0.0172	0.996	4.68E+00	2.25E+00	120	6	7
5.69246	4.48	692.6	692.4	0.65	-0.78	0.1494	0.0354	0.997	4.74E+00	2.28E+00	120	6	7
5.77832	4.25	700	699.9	0.61	-0.76	0.1661	0.0394	0.997	4.81E+00	2.31E+00	120	6	7
5.85456	4.07	697.3	697.1	0.58	-0.72	0.1494	0.0337	0.997	4.88E+00	2.34E+00	120	6	7
5.93481	4.02	698.1	698	0.58	-0.65	0.1264	0.0275	0.997	4.95E+00	2.37E+00	120	6	7
6.01385	4.18	699.7	699.6	0.6	-0.6	0.1056	0.0212	0.996	5.01E+00	2.41E+00	120	6	7
6.09772	4.22	715.5	715.4	0.59	-0.45	0.0875	0.015	0.997	5.08E+00	2.44E+00	120	6	7
6.17676	4.06	719.9	719.9	0.56	-0.12	0.0792	0.0121	0.997	5.15E+00	2.47E+00	120	6	7
6.25701	4.03	727.4	727.3	0.55	-0.24	0.0722	0.0105	0.996	5.21E+00	2.50E+00	120	6	7
6.33365	4	719.6	719.6	0.56	-0.09	0.0615	0.0087	0.997	5.28E+00	2.53E+00	120	6	7
6.41269	4.04	716.9	716.8	0.56	-0.31	0.0579	0.0078	0.997	5.34E+00	2.57E+00	120	6	7
6.48973	4.04	719.1	718.9	0.56	-0.6	0.0887	0.0136	0.996	5.41E+00	2.60E+00	120	6	7
6.56998	3.78	727.4	727.2	0.52	-0.64	0.1903	0.0275	0.996	5.48E+00	2.63E+00	120	6	7
6.64982	3.53	749.7	749.6	0.47	-0.76	0.3468	0.0498	0.997	5.54E+00	2.66E+00	120	6	7
6.72967	3.46	807.2	807.1	0.43	-0.38	0.4609	0.0795	0.997	5.61E+00	2.69E+00	120	7	7
6.81273	3.61	864.1	864	0.42	-0.47	0.4429	0.0912	0.996	5.68E+00	2.73E+00	120	7	7
6.89258	3.63	887.6	887.6	0.41	-0.24	0.4223	0.0948	0.996	5.74E+00	2.76E+00	120	7	7
6.96962	3.71	888.2	888	0.42	-0.71	0.4113	0.1129	0.997	5.81E+00	2.79E+00	120	7	7
7.05187	4.18	872.4	872.3	0.48	-0.6	0.4775	0.1358	0.996	5.88E+00	2.82E+00	120	6	7
7.13011	3.88	887.3	887.4	0.44	0.37	0.5141	0.1488	0.997	5.94E+00	2.85E+00	120	7	7
7.21237	3.44	926.8	926.9	0.37	0.49	0.5542	0.1623	0.997	6.01E+00	2.89E+00	120	7	7
7.29181	3.5	948.1	948.2	0.37	0.68	0.5514	0.16	0.997	6.08E+00	2.92E+00	120	7	7
7.37287	3.76	950.8	951	0.4	0.99	0.5015	0.1464	0.997	6.14E+00	2.95E+00	120	7	7
7.43185	4.06	849.8	849.9	0.48	0.49	0.5432	0.1633	0.996	6.19E+00	2.97E+00	120	6	7
7.51785	4.36	938.4	938.3	0.46	-0.61	0.5533	0.1731	0.996	6.27E+00	3.01E+00	120	7	7
7.59504	4.26	984	983.9	0.43	-0.21	0.5811	0.1889	0.996	6.33E+00	3.04E+00	120	7	7

7.68084	4.88	1021.1	1021.3	0.48	0.71	0.7	0.2361	0.996	6.40E+00	3.07E+00	120	7	7
7.76304	6.5	1047	1047.1	0.62	0.58	0.9073	0.318	0.996	6.47E+00	3.11E+00	120	6	7
7.84283	6.99	1090.8	1090.9	0.64	0.21	1.1845	0.4281	0.996	6.54E+00	3.14E+00	120	6	7
7.91781	7.54	1143.7	1143.8	0.66	0.62	1.1488	0.4237	0.996	6.60E+00	3.17E+00	120	6	7
7.9984	8.1	1225.2	1225.4	0.66	0.75	0.4194	0.1584	0.996	6.67E+00	3.20E+00	120	6	7
8.0846	8.55	1153.9	1154.1	0.74	1.44	0.5138	0.1758	0.996	6.74E+00	3.23E+00	120	6	7
8.17682	9.52	1240	1240.1	0.77	0.66	0.7018	0.2055	0.996	6.81E+00	3.27E+00	120	6	7
8.25902	10.39	1151.5	1151.9	0.9	2.29	0.6196	0.1622	0.996	6.88E+00	3.30E+00	120	6	7
8.34402	8.7	1160.8	1161.1	0.75	1.57	0.6959	0.1821	0.996	6.95E+00	3.34E+00	120	6	7
8.421	7.37	1225.7	1225.9	0.6	0.99	0.7129	0.1675	0.996	7.02E+00	3.37E+00	120	6	7
8.50601	6.4	1306.7	1306.9	0.49	1.08	0.768	0.2065	0.997	7.09E+00	3.40E+00	120	7	7
8.59221	9.26	1449.9	1450.5	0.64	2.69	0.7527	0.1805	0.996	7.16E+00	3.44E+00	120	7	7
8.67962	7.66	1676.5	1677	0.46	2.38	0.7834	0.1501	0.996	7.23E+00	3.47E+00	120	7	7
8.75821	7.77	1841.7	1842	0.42	1.53	0.7292	0.7327	0.996	7.30E+00	3.50E+00	120	7	7
8.84201	14.03	1994.3	1994.7	0.7	2.29	0.8244	0.2036	0.996	7.37E+00	3.54E+00	120	7	7
8.923	11.11	1905.5	1906.8	0.58	6.39	0.5143	0.0947	0.996	7.44E+00	3.57E+00	120	7	7
9.01081	12.18	2026.1	2028.8	0.6	3.62	0.5678	0.1077	0.996	7.51E+00	3.60E+00	120	7	7
9.10022	12.94	2090.3	2090.5	0.62	1.39	0.4725	0.0965	0.996	7.58E+00	3.64E+00	120	7	7
9.19043	12.45	1940.4	1940.9	0.64	2.41	0.5002	0.1029	0.997	7.66E+00	3.68E+00	120	7	7
9.26882	12.24	1966.3	1967.2	0.62	4.83	0.5105	0.096	0.996	7.73E+00	3.71E+00	120	7	7
9.35282	13.22	2029.5	2029.5	0.65	0.24	0.5651	0.1021	0.996	7.79E+00	3.74E+00	120	7	7
9.43021	14.25	2060.9	2061.4	0.69	2.18	0.5514	0.0872	0.996	7.86E+00	3.77E+00	120	7	7
9.52122	13.15	1989.8	1991.3	0.66	7.78	0.5368	0.089	0.996	7.93E+00	3.81E+00	120	7	7
9.597	14.31	1888.3	1889	0.76	4.04	0.5813	0.0946	0.996	8.00E+00	3.84E+00	120	6	7
9.6788	17.31	1909	1909.3	0.91	1.82	0.6412	0.1158	0.996	8.07E+00	3.87E+00	120	6	7
9.7622	17.54	1719.3	1719.5	1.02	1	0.7495	0.1672	0.996	8.14E+00	3.91E+00	120	6	7
9.84118	19.63	1784.4	1784.4	1.1	0.1	0.7664	0.1905	0.997	8.20E+00	3.94E+00	120	6	7
9.92338	27.82	1875.8	1876.2	1.48	1.82	0.5443	0.1263	0.996	8.27E+00	3.97E+00	120	6	7
10.00598	22.4	2186.2	2186.4	1.02	1.34	0.276	0.0614	0.997	8.34E+00	4.00E+00	120	6	7
10.09058	19.35	2015.7	2015.7	0.96	-0.07	0.2831	0.0631	0.998	8.41E+00	4.04E+00	120	6	7
10.182	15.97	1776.1	1776.7	0.9	3.17	0.4875	0.1457	0.997	8.49E+00	4.07E+00	120	6	7
10.269	10.5	1763.7	1763.9	0.6	1.08	0.4482	0.1325	0.997	8.56E+00	4.11E+00	120	7	7
10.352	11.76	2029.2	2030.2	0.58	5.2	0.4235	0.1149	0.996	8.63E+00	4.14E+00	120	7	7
10.42898	18.21	2395	2395.6	0.68	3.13	0.4817	0.6097	0.996	8.69E+00	4.17E+00	120	7	7
10.51038	12.37	2165.9	2166.3	0.57	2.22	0	0	0.996	8.76E+00	4.20E+00	120	7	7
10.58856	14.5	2098.9	2098.9	0.69	0.17	0	0	0.996	8.82E+00	4.24E+00	120	7	7
10.66635	17.25	2247.1	2247.5	0.77	2.38	0	0	0.996	8.89E+00	4.27E+00	120	6	7
10.72651	17.35	2087.2	2087.2	0.83	0.13	0	0	0.997	8.94E+00	4.29E+00	120	6	7
10.80271	22.28	1873.8	1873.8	1.19	-0.05	0	0	0.997	9.00E+00	4.32E+00	120	6	7
10.88131	36.85	1554	1554.2	2.37	1.38	0	0	0.997	9.07E+00	4.35E+00	120	8	7
10.96032	38.9	1762.9	1762.9	2.21	-0.12	0	0	0.997	9.13E+00	4.38E+00	120	8	7
11.04735	34.49	2156.6	2156.6	1.6	0.24	0	0	0.997	9.21E+00	4.42E+00	120	6	7
11.12756	35.82	1814	1814.2	1.97	0.91	0	0	0.997	9.27E+00	4.45E+00	120	8	7
11.20376	38.62	1629.8	1629.9	2.37	0.83	0	0	0.997	9.34E+00	4.48E+00	120	8	7
11.28437	48.94	1928.3	1928.3	2.54	0	0	0	0.997	9.40E+00	4.51E+00	120	8	7
11.37179	77.1	1555.4	1555.8	4.96	2.04	0	0	0.997	9.48E+00	4.55E+00	120	9	7
11.45762	67.8	1650.3	1650.8	4.11	2.91	0	0	0.996	9.55E+00	4.58E+00	120	8	7
11.53783	63.26	1833.7	1833.7	3.45	-0.14	0	0	0.997	9.62E+00	4.62E+00	120	8	7
11.61483	44.58	2122.5	2123.7	2.1	6.27	0	0	0.996	9.68E+00	4.65E+00	120	8	7
11.70547	47.96	2459	2459.2	1.95	1.04	0	0	0.997	9.76E+00	4.68E+00	120	9	7
11.78207	40.65	2322	2322.1	1.75	0.22	0	0	0.997	9.82E+00	4.71E+00	120	8	7
11.85987	34.83	3164.8	3164.9	1.1	0.68	0	0	0.997	9.88E+00	4.74E+00	120	6	7

11.95974	26.1	3739.3	3739.5	0.7	1.31	0	0	0.996	9.97E+00	4.78E+00	120	7	7
12.03313	25.46	3055.4	3056.5	0.83	5.93	0	0	0.996	1.00E+01	4.81E+00	120	6	7
12.10933	25.98	3424.5	3428.9	0.76	22.65	0	0	0.997	1.01E+01	4.84E+00	120	7	7
12.18874	31.75	3508.7	3510.2	0.9	7.53	0	0	0.997	1.02E+01	4.88E+00	120	6	7
12.26814	41.15	2892.3	2894.8	1.42	12.74	0	0	0.996	1.02E+01	4.91E+00	120	6	7
12.35078	39.77	2880.1	2880.3	1.38	0.89	0	0	0.997	1.03E+01	4.94E+00	120	6	7
12.42736	40.7	3037.7	3038.4	1.34	3.57	0	0	0.997	1.04E+01	4.97E+00	120	6	7
12.50998	0	3563.9	3564.5	0	3.06	0	0	0.997	1.04E+01	5.00E+00	120	-99	7
12.58497	0	3692.2	3693	0	3.69	0	0	0.996	1.05E+01	5.03E+00	120	-99	7
12.66238	0	4283.5	4285.2	0	8.68	0	0	0.997	1.06E+01	5.07E+00	120	-99	7
12.7486	0	4700.7	4702.9	0	11.15	0	0	0.997	1.06E+01	5.10E+00	120	-99	7
12.83723	0	4761.6	4764.1	0	12.47	0	0	0.996	1.07E+01	5.14E+00	120	-99	7

Electric Cone Penetrometer Data

Cone_TAP v 2.90

Test Id: HD-06 Date: 4-Nov-03

Site: SUNNYSIDE Cone Id: 108.034XXX

Location: QUEENS NY

Project: ROUX Soil Density(pcf): 120

Client: ROUX

Depth (ft)	Sleeve Stress (psi)	Tip Stress UNC (psi)	Tip Stress COR (psi)	Ratio COR (%)	Pore Pressure (psi)	LFFD (V)	HFFD (V)	Excitation (Vdc)	Overburden (psi)	Eff. Overburden (psi)	Wet Density (pcf)	Class. FR (Rob. 1990)	Class. PP (Rob. 1990)
0	0	0	0	0	0	0	0	NM	0.00E+00	0.00E+00	120	-99	-99
0.17393	0	496	496.1	0	0.22	0.0445	0.0147	NM	1.45E-01	6.96E-02	120	-99	-99
0.21962	0	612	612	0	0.27	0.0445	0.0115	NM	1.83E-01	8.79E-02	120	-99	-99
0.27011	0	531.2	531.3	0	0.27	0.0473	0.0095	NM	2.25E-01	1.08E-01	120	-99	-99
0.31901	0.36	468.1	468.2	0.08	0.22	0.0326	0.0011	NM	2.66E-01	1.28E-01	120	-99	-99
0.3687	2.27	519.5	519.5	0.44	0.27	0.0228	0.0019	NM	3.07E-01	1.48E-01	120	-99	-99
0.4184	0.22	553.3	553.3	0.04	0.22	0.0242	0.003	NM	3.49E-01	1.67E-01	120	-99	-99
0.46889	2.64	638.4	638.4	0.41	0.37	0.0179	0.0023	NM	3.91E-01	1.88E-01	120	-99	-99
0.51859	9.26	777.8	778	1.19	1.02	0.0151	0.0027	NM	4.32E-01	2.07E-01	120	-99	-99
0.56908	15.45	708.8	708.9	2.18	0.67	0.0159	0.0024	NM	4.74E-01	2.28E-01	120	-99	-99
0.61757	14.73	821.8	821.9	1.79	0.47	0.0136	0.0023	NM	5.15E-01	2.47E-01	120	-99	-99
0.66967	14.36	1025.8	1025.9	1.4	0.62	0.0148	0.0028	NM	5.58E-01	2.68E-01	120	-99	-99
0.71736	11.62	1329.6	1329.7	0.87	0.52	0.0123	0.0023	NM	5.98E-01	2.87E-01	120	-99	-99
0.76826	10.25	962.7	962.8	1.06	0.52	0.0126	0.0021	NM	6.40E-01	3.07E-01	120	-99	-99
0.81715	8.31	986.2	986.3	0.84	0.52	0.0113	0.002	NM	6.81E-01	3.27E-01	120	-99	-99
0.87005	6.65	854.1	854.2	0.78	0.52	0.0126	0.0023	NM	7.25E-01	3.48E-01	120	-99	-99
0.91895	6.13	791	791.3	0.78	1.67	0.0117	0.0019	NM	7.66E-01	3.68E-01	120	-99	-99
0.96944	5.81	660.4	660.4	0.85	0.37	0.0124	0.0022	NM	8.08E-01	3.88E-01	120	-99	-99
1.01754	5.12	711.7	711.8	0.72	0.42	0.0101	0.0016	NM	8.48E-01	4.07E-01	120	-99	-99
1.06984	4.58	789.5	789.6	0.58	0.37	0.0113	0.0023	NM	8.91E-01	4.28E-01	120	-99	-99
1.11853	8.69	917.2	917.3	0.95	0.52	0.0102	0.0022	NM	9.32E-01	4.47E-01	120	-99	-99
1.16782	9.86	975.9	976	1.01	0.32	0.0072	0.0011	NM	9.73E-01	4.67E-01	120	-99	-99
1.21792	7.88	956.8	957	0.82	0.77	0.0077	0.0015	NM	1.02E+00	4.87E-01	120	-99	-99
1.42769	10.63	1326.6	1326.8	0.8	0.86	0.0006	0.0005	NM	1.19E+00	5.71E-01	120	-99	-99
1.47823	12.72	1485.1	1485.3	0.86	0.71	0.0017	0.0007	NM	1.23E+00	5.91E-01	120	-99	-99
1.52757	16.33	1580	1580.1	1.05	0.78	0.0041	0.0012	NM	1.27E+00	6.11E-01	120	-99	-99
1.58093	13.38	1673	1673.2	0.8	0.76	0.0069	0.0018	NM	1.32E+00	6.32E-01	120	-99	-99
1.63227	17.47	1994.5	1994.6	0.88	0.86	0.0083	0.0021	NM	1.36E+00	6.53E-01	120	-99	-99
1.68161	25.01	2154.5	2154.6	1.16	0.66	0.01	0.0022	NM	1.40E+00	6.73E-01	120	-99	-99
1.72975	24.42	1934.3	1934.4	1.26	0.66	0.0108	0.0024	NM	1.44E+00	6.92E-01	120	-99	-99
1.77869	23.5	1787.5	1787.7	1.31	0.96	0.0095	0.0027	NM	1.48E+00	7.12E-01	120	-99	-99
1.82803	17.03	1819.8	1820	0.94	0.91	0.0084	0.0021	NM	1.52E+00	7.31E-01	120	-99	-99
1.87777	14.01	2032.6	2032.8	0.69	1.11	0.0082	0.0017	NM	1.57E+00	7.51E-01	120	-99	-99
1.92832	16.28	1806.6	1806.8	0.9	1.11	0.0092	0.0016	NM	1.61E+00	7.71E-01	120	-99	-99
1.98007	14.46	1809.5	1809.7	0.8	1.11	0.0085	0.0014	NM	1.65E+00	7.92E-01	120	-99	-99
2.03221	14.91	1864.2	1864.4	0.9	0.86	0.0084	0.0014	NM	1.69E+00	8.13E-01	120	-99	-99
2.08356	13.83	1709.7	1709.8	0.81	0.41	0	0	NM	1.74E+00	8.33E-01	120	-99	-99
2.1337	13.58	1700.9	1701	0.8	0.66	0	0	NM	1.78E+00	8.54E-01	120	-99	-99
2.18706	21.68	1499.8	1500	1.45	0.81	0	0	NM	1.82E+00	8.75E-01	120	-99	-99

2.236	25.9	1853.8	1853.7	1.4	0.81	0	0	NM	1.86E+00	8.94E-01	120	-99	-99
2.28775	23.64	1355.9	1356	1.74	0.41	0	0	NM	1.91E+00	9.15E-01	120	-99	-99
2.33629	21	1168.1	1168.2	1.8	0.51	0	0	NM	1.95E+00	9.35E-01	120	-99	-99
2.38683	18.48	1565.8	1566	1.18	0.66	0	0	NM	1.99E+00	9.55E-01	120	-99	-99
2.43818	16.91	1856.9	1857	1.02	0.76	0	0	NM	2.03E+00	9.75E-01	120	-99	-99
2.49113	16.35	1291.4	1291.5	1.27	0.81	0	0	NM	2.08E+00	9.97E-01	120	-99	-99
2.54047	16.24	1100.5	1100.7	1.48	1.06	0	0	NM	2.12E+00	1.02E+00	120	-99	-99
2.58981	15.5	1150.4	1150.6	1.35	0.86	0	0	NM	2.16E+00	1.04E+00	120	-99	-99
2.64076	12.76	1159.2	1159.4	1.1	0.96	0	0	NM	2.20E+00	1.06E+00	120	-99	-99
2.6905	10.94	1090.3	1090.5	1	1.21	0	0	NM	2.24E+00	1.08E+00	120	-99	-99
2.73984	5.17	1069.7	1069.9	0.48	1.21	0	0	NM	2.28E+00	1.10E+00	120	7	7
2.78998	2.94	990.4	990.6	0.3	1.01	0	0	NM	2.33E+00	1.12E+00	120	7	7
2.84093	2.47	903.8	904	0.27	1.06	0	0	NM	2.37E+00	1.14E+00	120	7	7
2.89308	2.36	811.4	811.6	0.29	1.11	0	0	NM	2.41E+00	1.16E+00	120	7	7
2.94402	2.19	718.9	719.1	0.3	0.91	0	0	NM	2.45E+00	1.18E+00	120	7	7
2.99497	1.48	676.3	676.5	0.22	1.11	0	0	NM	2.50E+00	1.20E+00	120	7	7
3.04471	2.31	664.8	664.7	0.35	0.86	0	0	NM	2.54E+00	1.22E+00	120	7	7
3.09646	1.67	595.6	595.8	0.28	1.06	0	0	NM	2.58E+00	1.24E+00	120	7	7
3.1454	1.17	567.7	567.9	0.21	1.06	0	0	NM	2.62E+00	1.26E+00	120	7	7
3.19755	0.96	560.4	560.5	0.17	1.01	0	0	NM	2.67E+00	1.28E+00	120	7	7
3.24568	1.05	557.4	557.6	0.19	0.91	0	0	NM	2.71E+00	1.30E+00	120	7	7
3.29864	0.75	538.3	538.5	0.14	0.86	0	0	NM	2.75E+00	1.32E+00	120	7	7
3.34878	0.79	510.4	510.6	0.15	0.86	0	0	NM	2.79E+00	1.34E+00	120	7	7
3.39932	1.24	487	487.1	0.25	0.81	0	0	NM	2.83E+00	1.36E+00	120	7	7
3.44826	2.02	475.2	475.4	0.42	0.81	0	0	NM	2.87E+00	1.38E+00	120	7	7
3.4964	2.5	440	440.2	0.57	0.86	0	0	NM	2.91E+00	1.40E+00	120	6	7
3.54695	3.43	456.1	456.3	0.75	0.91	0	0	NM	2.96E+00	1.42E+00	120	6	7
3.60391	4.55	442.9	443.1	1.03	1.01	0	0	NM	3.00E+00	1.44E+00	120	6	7
3.66328	4.73	479.6	479.8	0.99	0.96	0	0	NM	3.05E+00	1.47E+00	120	8	7
3.72866	4	531	531.2	0.75	0.96	0	0	NM	3.11E+00	1.49E+00	120	6	7
3.79525	5.18	589.7	590	0.88	1.41	0	0	NM	3.16E+00	1.52E+00	120	6	7
3.86545	6.03	852.8	853.1	0.92	1.26	0	0	NM	3.22E+00	1.55E+00	120	6	7
3.93726	4.59	809.9	810.2	0.57	1.46	0	0	NM	3.28E+00	1.58E+00	120	7	7
4.00947	3.14	950.8	951.1	0.33	1.46	0	0	NM	3.34E+00	1.60E+00	120	7	7
4.07967	10.17	833.4	833.6	1.22	1.26	0	0	NM	3.40E+00	1.63E+00	120	6	7
4.15468	0	861.3	861.5	0	1.31	0	0	NM	3.46E+00	1.66E+00	120	-99	7
4.22609	0	886.2	886.5	0	1.26	0	0	NM	3.52E+00	1.69E+00	120	-99	7
4.29789	0	1075.6	1075.8	0	1.41	0	0	NM	3.58E+00	1.72E+00	120	-99	7
4.36849	0	1523.3	1523.6	0	1.56	0	0	NM	3.64E+00	1.75E+00	120	-99	7
4.44712	0	5354.4	5355.5	0	5.6	0	0	NM	3.71E+00	1.78E+00	120	-99	-99

Electric Cone Penetrometer Data

Cone_TAP v 2.90

Test Id: HD-06A Date: 4-Nov-03

Site: SUNNYSIDE Cone Id: 108.034XXX

Location: QUEENS NY

Project: ROUX Soil Density(pcf): 120

Client: ROUX

Depth (ft)	Sleeve Stress (psi)	Tip Stress UNC (psi)	Tip Stress COR (psi)	Ratio COR (%)	Pore Pressure (psi)	LFFD (V)	HFFD (V)	Excitation (Vdc)	Overburden (psi)	Eff. Overburden (psi)	Wet Density (pcf)	Class. FR (Rob. 1990)	Class. PP (Rob. 1990)
0	0	0	0	0	0	0	0	NM	0.00E+00	0.00E+00	120	-99	-99
0.16343	0	216.2	216.2	0	-0.19	0.069	0.0432	NM	1.36E-01	6.54E-02	120	-99	-99
0.21911	0	354	353.9	0	-0.09	0.0737	0.0441	NM	1.83E-01	8.76E-02	120	-99	-99
0.2776	0.12	462.4	462.4	0.03	0.01	0.0691	0.0428	NM	2.31E-01	1.11E-01	120	-99	-99
0.33488	3.18	566.5	566.5	0.56	-0.04	0.0662	0.0414	NM	2.79E-01	1.34E-01	120	-99	-99
0.39416	3.49	565	565	0.62	0.01	0.0612	0.0414	NM	3.29E-01	1.58E-01	120	-99	-99
0.45264	3.4	767.3	767.3	0.44	0.11	0.0642	0.0415	NM	3.77E-01	1.81E-01	120	-99	-99
0.51393	6.84	902.1	902.2	0.76	0.11	0.0618	0.0409	NM	4.28E-01	2.06E-01	120	-99	-99
0.57322	8.12	921.2	921.2	0.88	0.21	0.0616	0.0402	NM	4.78E-01	2.29E-01	120	-99	-99
0.6337	7.07	1102.9	1103	0.64	0.11	0.0612	0.0402	NM	5.28E-01	2.54E-01	120	-99	-99
0.69259	5.87	884.6	884.6	0.66	0.01	0.0636	0.0404	NM	5.77E-01	2.77E-01	120	-99	-99
0.75688	5.51	956.4	956.4	0.58	0.11	0.0685	0.0421	NM	6.31E-01	3.03E-01	120	-99	-99
0.81676	3.88	938.8	938.8	0.41	0.26	0.0708	0.0425	NM	6.81E-01	3.27E-01	120	-99	-99
0.87685	2.55	483	483	0.53	0.31	0.0719	0.0434	NM	7.31E-01	3.51E-01	120	-99	-99
0.94094	2.91	540.1	540.2	0.54	0.41	0.0722	0.0434	NM	7.84E-01	3.76E-01	120	-99	-99
1.00102	3.17	586.5	586.6	0.56	0.55	0.0726	0.043	NM	8.34E-01	4.00E-01	120	-99	-99
1.06031	3.46	589.9	590	0.59	0.51	0.0704	0.0434	NM	8.84E-01	4.24E-01	120	-99	-99
1.122	3.72	604.8	604.8	0.62	0.85	0.0689	0.042	NM	9.35E-01	4.49E-01	120	-99	-99
1.18855	3.77	657.2	657.2	0.57	0.29	0.0657	0.0418	NM	9.91E-01	4.75E-01	120	-99	-99
1.24509	4.33	591.2	591.2	0.73	0.19	0.0602	0.0398	NM	1.04E+00	4.98E-01	120	-99	-99
1.30403	3.65	575.1	575.1	0.64	0.24	0.0608	0.0404	NM	1.09E+00	5.22E-01	120	-99	-99
1.36457	3.75	547.2	547.2	0.69	0.14	0.0615	0.0404	NM	1.14E+00	5.46E-01	120	-99	-99
1.42752	4.27	550.1	550.2	0.78	0.29	0.0619	0.0405	NM	1.19E+00	5.71E-01	120	7	7
1.49007	5.07	510.6	510.6	0.99	0.39	0.0621	0.0411	NM	1.24E+00	5.96E-01	120	6	7
1.54981	5.47	506.2	506.2	1.08	0.09	0.0645	0.0412	NM	1.29E+00	6.20E-01	120	6	7
1.60915	4.57	534	534.1	0.85	0.39	0.0634	0.0406	NM	1.34E+00	6.44E-01	120	7	7
1.66609	3.49	598.5	598.6	0.58	0.39	0.0611	0.0414	NM	1.39E+00	6.66E-01	120	7	7
1.72703	5.23	683.6	683.6	0.76	0.39	0.06	0.0402	NM	1.44E+00	6.91E-01	120	7	7
1.78758	7.09	884.4	884.4	0.8	0.19	0.0592	0.0399	NM	1.49E+00	7.15E-01	120	-99	-99
1.84972	8.02	863.9	864	0.93	0.59	0.0594	0.0393	NM	1.54E+00	7.40E-01	120	-99	-99
1.91308	7.62	902	902.1	0.84	0.29	0.0523	0.0389	NM	1.59E+00	7.65E-01	120	-99	-99
1.97322	7.3	1029.5	1029.6	0.71	0.39	0.0512	0.0378	NM	1.64E+00	7.89E-01	120	-99	-99
2.03256	7.12	909.3	909.4	0.78	0.14	0.0511	0.0383	NM	1.69E+00	8.13E-01	120	-99	-99
2.09311	7.17	720.2	720.3	1	0.44	0.0509	0.0386	NM	1.74E+00	8.37E-01	120	6	7
2.15405	6.69	736.3	736.4	0.94	0.59	0.0516	0.0386	NM	1.80E+00	8.62E-01	120	7	7
2.21339	6.23	824.3	824.4	0.78	0.59	0.0537	0.0386	NM	1.84E+00	8.85E-01	120	7	7
2.27514	5.09	830.2	830.2	0.61	0.44	0.0537	0.0386	NM	1.90E+00	9.10E-01	120	7	7
2.33809	3.79	841.9	841.9	0.45	0.24	0.0542	0.0383	NM	1.95E+00	9.35E-01	120	7	7
2.39863	3.42	808.2	808.2	0.42	0.29	0.0545	0.0387	NM	2.00E+00	9.60E-01	120	7	7

2.45757	3.4	771.5	771.6	0.44	0.59	0.0553	0.0393	NM	2.05E+00	9.83E-01	120	7	7
2.51932	3.42	755.4	755.5	0.45	0.64	0.0555	0.0394	NM	2.10E+00	1.01E+00	120	7	7
2.57826	3.45	740.7	740.8	0.47	0.54	0.0556	0.0394	NM	2.15E+00	1.03E+00	120	7	7
2.638	3.42	718.7	718.9	0.48	0.59	0.055	0.0389	NM	2.20E+00	1.06E+00	120	7	7
2.69975	3.36	711.4	711.5	0.47	0.54	0.0523	0.0388	NM	2.25E+00	1.08E+00	120	7	7
2.76149	3.36	709.9	710.1	0.47	0.59	0.0523	0.039	NM	2.30E+00	1.11E+00	120	7	7
2.82204	3.33	709.9	710.1	0.47	0.59	0.0526	0.039	NM	2.35E+00	1.13E+00	120	7	7
2.88098	3.35	717.3	717.4	0.47	0.54	0.053	0.0388	NM	2.40E+00	1.15E+00	120	7	7
2.94393	3.37	731.9	732.1	0.46	0.64	0.0521	0.0383	NM	2.45E+00	1.18E+00	120	7	7
3.00407	3.3	755.4	755.5	0.44	0.54	0.0527	0.039	NM	2.50E+00	1.20E+00	120	7	7
3.06462	3.18	783.2	783.4	0.41	0.59	0.0528	0.039	NM	2.55E+00	1.23E+00	120	7	7
3.12318	3.13	808.2	808.3	0.39	0.59	0.0523	0.0381	NM	2.60E+00	1.25E+00	120	7	7
3.1857	3.13	836	836.1	0.37	0.64	0.0519	0.0393	NM	2.66E+00	1.27E+00	120	7	7
3.24665	3.23	869.7	869.9	0.37	0.59	0.0521	0.0389	NM	2.71E+00	1.30E+00	120	7	7
3.30519	3.13	915.2	915.3	0.34	0.64	0.0516	0.0392	NM	2.75E+00	1.32E+00	120	7	7
3.36213	3.01	963.6	963.7	0.31	0.59	0.0523	0.0392	NM	2.80E+00	1.35E+00	120	7	7
3.42307	3.24	1017.8	1017.9	0.32	0.69	0.0526	0.039	NM	2.85E+00	1.37E+00	120	7	7
3.48402	3.83	1080.9	1081	0.35	0.69	0.0528	0.0392	NM	2.90E+00	1.39E+00	120	7	7
3.54336	3.83	1135.1	1135.2	0.34	0.64	0.0542	0.0395	NM	2.95E+00	1.42E+00	120	7	7
3.6039	3.79	1193.7	1193.9	0.32	0.74	0.0574	0.0402	NM	3.00E+00	1.44E+00	120	7	7
3.66565	3.68	1271.4	1271.6	0.29	0.74	0.0574	0.0407	NM	3.06E+00	1.47E+00	120	7	7
3.72539	3.88	1324.2	1324.4	0.29	0.69	0.0593	0.0409	NM	3.10E+00	1.49E+00	120	7	7
3.78794	3.66	1284.6	1284.8	0.28	0.74	0.0603	0.0414	NM	3.16E+00	1.52E+00	120	7	7
3.84888	3.42	1314	1314.1	0.26	0.79	0.061	0.0418	NM	3.21E+00	1.54E+00	120	7	7
3.90863	3.17	1344.7	1344.9	0.24	0.74	0.063	0.042	NM	3.26E+00	1.56E+00	120	7	7
3.96797	3.12	1372.6	1372.8	0.23	0.79	0.0697	0.0438	NM	3.31E+00	1.59E+00	120	7	7
4.03012	3.19	1418	1418.2	0.22	0.89	0.1017	0.0543	NM	3.36E+00	1.61E+00	120	7	7
4.08946	1.95	1460.6	1460.7	0.13	0.89	0.1572	0.0735	NM	3.41E+00	1.64E+00	120	7	7
4.15	2.8	1529.5	1529.6	0.18	0.89	0.201	0.0862	NM	3.46E+00	1.66E+00	120	7	7
4.21135	3.17	1580.8	1581	0.2	0.89	0.2074	0.0918	NM	3.51E+00	1.69E+00	120	7	7
4.27149	3.79	1681.9	1682.1	0.23	0.99	0.2493	0.1038	NM	3.56E+00	1.71E+00	120	7	7
4.33083	4.41	1794.8	1795	0.25	1.04	0.3096	0.1231	NM	3.61E+00	1.73E+00	120	-99	-99
4.37774	5.08	1734.7	1734.9	0.29	1.04	0.3817	0.1451	NM	3.65E+00	1.75E+00	120	7	7
4.42022	5.59	2029.5	2029.9	0.28	1.88	0.3992	0.149	NM	3.68E+00	1.77E+00	120	-99	-99
4.47553	6.14	2155.6	2156	0.28	1.88	0.4152	0.1497	NM	3.73E+00	1.79E+00	120	-99	-99
4.53484	6.8	2243.6	2244	0.3	1.88	0.5388	0.1814	NM	3.78E+00	1.81E+00	120	-99	-99
4.59175	7.37	2352.1	2352.5	0.31	2.03	0.6304	0.209	NM	3.83E+00	1.84E+00	120	-99	-99
4.65387	7.59	2444.5	2444.9	0.31	2.13	0.4983	0.1699	NM	3.88E+00	1.86E+00	120	-99	-99
4.7208	8.26	2516.4	2516.8	0.33	2.22	0.5425	0.1714	NM	3.93E+00	1.89E+00	120	-99	-99
4.78171	8.52	2564.8	2565.2	0.33	2.27	0.5948	0.1741	NM	3.99E+00	1.91E+00	120	-99	-99
4.83982	8.82	2601.4	2601.9	0.34	2.27	0.6153	0.1806	NM	4.03E+00	1.94E+00	120	-99	-99
4.89673	9.05	2622	2622.4	0.34	2.32	0.6308	0.1819	NM	4.08E+00	1.96E+00	120	-99	-99
4.95644	9.03	2644	2644.4	0.34	2.42	0.6514	0.1861	NM	4.13E+00	1.98E+00	120	-99	-99
5.01415	9.41	2654.2	2654.7	0.35	2.47	0.7163	0.2007	NM	4.18E+00	2.01E+00	120	-99	-99
5.07347	9.78	2644	2644.4	0.37	2.47	0.6907	0.1899	NM	4.23E+00	2.03E+00	120	-99	-99
5.13478	9.76	2636.6	2637.1	0.37	2.52	0.5993	0.1696	NM	4.28E+00	2.05E+00	120	-99	-99
5.1973	9.7	2671.8	2672.3	0.36	2.52	0.6728	0.1919	NM	4.33E+00	2.08E+00	120	-99	-99
5.25501	9.85	2711.4	2711.9	0.36	2.72	0.7164	0.2016	NM	4.38E+00	2.10E+00	120	-99	-99
5.31272	9.63	2762.7	2763.3	0.35	2.72	0.6794	0.1906	NM	4.43E+00	2.13E+00	120	-99	-99
5.37364	9.69	2844.9	2845.4	0.34	2.77	0.6403	0.1789	NM	4.48E+00	2.15E+00	120	-99	-99
5.43656	10.04	2971	2971.5	0.34	2.87	0.5999	0.1669	NM	4.53E+00	2.18E+00	120	-99	-99
5.49667	10.41	3083.9	3084.5	0.34	2.92	0.592	0.1662	NM	4.58E+00	2.20E+00	120	-99	-99

5.55919	12.3	3196.8	3197.4	0.38	3.12	0.5337	0.1522	NM	4.63E+00	2.22E+00	120	-99	-99
5.62211	12.07	3299.5	3300.1	0.37	3.12	0.4853	0.1432	NM	4.69E+00	2.25E+00	120	-99	-99
5.68223	13.94	3381.6	3382.2	0.41	3.52	0.4456	0.1223	NM	4.74E+00	2.27E+00	120	-99	-99
5.74114	20.75	3450.5	3451.2	0.6	3.47	0.4558	0.1221	NM	4.78E+00	2.30E+00	120	-99	-99
5.80165	22.13	3542.9	3543.5	0.62	3.47	0.4352	0.1152	NM	4.84E+00	2.32E+00	120	-99	-99
5.86096	21.35	3670.5	3671.2	0.58	3.77	0.4133	0.1079	NM	4.88E+00	2.34E+00	120	-99	-99
5.92028	19.35	3752.6	3753.3	0.52	3.92	0.3915	0.1007	NM	4.93E+00	2.37E+00	120	-99	-99
5.9824	18.81	3908	3908.8	0.48	4.07	0.3816	0.0973	NM	4.99E+00	2.39E+00	120	-99	-99
6.04451	19.65	4176.4	4177.2	0.47	4.52	0.4849	0.1118	NM	5.04E+00	2.42E+00	120	-99	-99
6.10383	22.68	4224.8	4226	0.54	6.61	0.5624	0.1244	NM	5.09E+00	2.44E+00	120	-99	-99
6.16434	26.09	4647.1	4648.4	0.56	6.52	0.3315	0.0896	NM	5.14E+00	2.47E+00	120	-99	-99
6.22325	30.29	4779.1	4780.3	0.63	6.61	0.4224	0.1079	NM	5.19E+00	2.49E+00	120	-99	-99
6.28377	32.94	4947.7	4949	0.67	6.76	0.5071	0.1265	NM	5.24E+00	2.51E+00	120	-99	-99
6.34268	31.14	4868.5	4869.8	0.64	6.37	0.4889	0.1152	NM	5.29E+00	2.54E+00	120	-99	-99
6.4052	33.33	4852.4	4853.6	0.69	6.27	0.4844	0.1092	NM	5.34E+00	2.56E+00	120	-99	-99
6.46572	32.01	4824.5	4825.9	0.66	7.31	0.4329	0.1081	NM	5.39E+00	2.59E+00	120	-99	-99
6.52623	30.46	4962.4	4963.8	0.61	7.36	0.4912	0.1167	NM	5.44E+00	2.61E+00	120	-99	-99
6.58635	28.86	5101.7	5103.2	0.57	7.66	0.551	0.1338	NM	5.49E+00	2.64E+00	120	-99	-99
6.64566	27.74	5289.4	5291.2	0.52	9.61	0.8266	0.1821	NM	5.54E+00	2.66E+00	120	-99	-99
6.70257	28.39	5553.3	5555.3	0.51	10.01	0.6687	0.1506	NM	5.59E+00	2.68E+00	120	-99	-99
6.76508	29.25	5221.9	5224.3	0.56	12.45	0.6899	0.1453	NM	5.64E+00	2.71E+00	120	-99	-99
6.82961	28.82	5054.8	5056.9	0.57	11.01	0.6359	0.1398	NM	5.69E+00	2.73E+00	120	-99	-99
6.89173	27.61	4881.7	4883.7	0.57	10.16	0.7028	0.1453	NM	5.74E+00	2.76E+00	120	-99	-99
6.95104	25.5	4776.1	4778.2	0.53	10.76	0.6969	0.1423	NM	5.79E+00	2.78E+00	120	-99	-99
7.01196	21.66	4645.6	4647.8	0.47	11.35	0.6854	0.1439	NM	5.84E+00	2.81E+00	120	-99	-99
7.07327	21.29	4565	4567	0.47	10.71	0.6621	0.1455	NM	5.89E+00	2.83E+00	120	-99	-99
7.13339	20.39	4522.4	4524.2	0.45	9.21	0.7196	0.1527	NM	5.94E+00	2.85E+00	120	-99	-99
7.1919	20.49	4535.6	4537.7	0.45	10.66	0.6847	0.1529	NM	5.99E+00	2.88E+00	120	-99	-99
7.25442	20.83	4551.8	4553.9	0.46	10.76	0.7036	0.164	NM	6.05E+00	2.90E+00	120	-99	-99
7.29569	20.57	4325.9	4326.8	0.48	4.32	0.7128	0.1638	NM	6.08E+00	2.92E+00	120	-99	-99
7.35381	20.2	4422.7	4423.5	0.46	4.27	0.7257	0.1634	NM	6.13E+00	2.94E+00	120	-99	-99
7.41352	19.82	4394.9	4395.8	0.45	4.62	0.739	0.1631	NM	6.18E+00	2.97E+00	120	-99	-99
7.47243	19.58	4346.5	4347.4	0.45	4.62	0.7521	0.1627	NM	6.23E+00	2.99E+00	120	-99	-99
7.53335	20.1	4276.1	4277	0.47	4.57	0.7701	0.1705	NM	6.28E+00	3.01E+00	120	-99	-99
7.59146	20.65	4226.2	4227.1	0.49	4.37	0.7556	0.1684	NM	6.33E+00	3.04E+00	120	-99	-99
7.81052	21.68	4331	4332	0.5	5.16	0.7861	0.1767	NM	6.51E+00	3.12E+00	120	-99	-99
7.86992	21.92	4422	4423.1	0.5	5.56	0.9217	0.197	NM	6.56E+00	3.15E+00	120	-99	-99
7.93293	22.18	4527.6	4528.7	0.49	5.66	1.0018	0.2091	NM	6.61E+00	3.17E+00	120	-99	-99
7.99715	22.54	4699.2	4700.4	0.48	6.35	0.8952	0.1917	NM	6.66E+00	3.20E+00	120	-99	-99
8.05654	23.17	4826.8	4828	0.48	6.3	1.0421	0.2141	NM	6.71E+00	3.22E+00	120	-99	-99
8.11394	22.63	5085	5086.3	0.44	6.7	1.0263	0.2211	NM	6.76E+00	3.25E+00	120	-99	-99
8.33467	23.76	5616	5617.5	0.42	8.25	1.0122	0.2189	NM	6.95E+00	3.33E+00	120	-99	-99
8.39768	24.14	5551.4	5553.1	0.43	8.65	1.0357	0.2206	NM	7.00E+00	3.36E+00	120	-99	-99
8.45909	27.99	5759.7	5761.5	0.49	9.15	1.0479	0.2187	NM	7.05E+00	3.38E+00	120	-99	-99
8.52049	30.42	5849.2	5851	0.52	9.3	1.1246	0.2511	NM	7.10E+00	3.41E+00	120	-99	-99
8.57828	32	5897.6	5899.3	0.54	8.7	1.1154	0.2459	NM	7.15E+00	3.43E+00	120	-99	-99
8.63889	30.74	5865.3	5867	0.52	8.7	1.1058	0.2406	NM	7.20E+00	3.46E+00	120	-99	-99
8.69869	29.79	5944.5	5946.2	0.5	8.85	1.0963	0.2352	NM	7.25E+00	3.48E+00	120	-99	-99
8.75889	30.23	6048.7	6050.4	0.5	8.9	1.1003	0.239	NM	7.30E+00	3.50E+00	120	-99	-99
8.8223	31.56	6051.6	6053.4	0.52	9.65	1.1188	0.2639	NM	7.35E+00	3.53E+00	120	-99	-99
8.88531	34.29	6066.3	6068.1	0.57	9.55	1.0265	0.2325	NM	7.40E+00	3.55E+00	120	-99	-99
8.9443	36.75	6080.9	6082.8	0.6	9.5	1.0839	0.2448	NM	7.45E+00	3.58E+00	120	-99	-99

9.0041	35.26	6073.6	6075.5	0.58	10.1	1.266	0.3033	NM	7.50E+00	3.60E+00	120	-99	-99
9.0639	34.72	6110.3	6112	0.57	9.25	1.0851	0.2837	NM	7.55E+00	3.63E+00	120	-99	-99
9.1233	35.25	5997.3	5998.7	0.59	6.95	1.2188	0.327	NM	7.60E+00	3.65E+00	120	-99	-99
9.1831	35.4	5774.4	5776.2	0.61	9.45	1.3113	0.3641	NM	7.65E+00	3.67E+00	120	-99	-99
9.24571	35.42	5639.4	5640.9	0.63	7.8	1.5006	0.4139	NM	7.71E+00	3.70E+00	120	-99	-99
9.30672	32.51	5459	5461.1	0.6	10.65	1.4107	0.4026	NM	7.76E+00	3.72E+00	120	-99	-99
9.36732	28.57	5346.1	5347.9	0.53	9.65	1.3827	0.4056	NM	7.81E+00	3.75E+00	120	-99	-99
9.42752	24.67	5269.6	5271.4	0.47	8.2	1.3548	0.4085	NM	7.86E+00	3.77E+00	120	-99	-99
9.49093	20.56	5197.9	5199.8	0.4	9.6	1.3254	0.4116	NM	7.91E+00	3.80E+00	120	-99	-99
9.54832	18.92	5087.9	5089.8	0.37	9.55	1.1617	0.3733	NM	7.96E+00	3.82E+00	120	-99	-99
9.60892	18.95	5043.9	5045.7	0.38	9.45	1.2999	0.4031	NM	8.01E+00	3.84E+00	120	-99	-99
9.86578	23.78	5162.7	5163.9	0.46	6.35	1.3068	0.4105	NM	8.22E+00	3.95E+00	120	-99	-99
9.92718	25.53	5174.5	5175.7	0.49	6.4	1.2737	0.4015	NM	8.27E+00	3.97E+00	120	-99	-99
9.98538	26.03	5146.6	5147.8	0.51	6.35	1.2295	0.3861	NM	8.32E+00	3.99E+00	120	-99	-99
10.04638	26.55	5092.3	5093.4	0.52	5.8	1.1831	0.37	NM	8.37E+00	4.02E+00	120	-99	-99
10.10658	28.88	5085	5086.3	0.57	6.85	1.1374	0.3541	NM	8.42E+00	4.04E+00	120	-99	-99
10.16759	29.69	5131.9	5133.2	0.58	6.65	1.0488	0.3102	NM	8.47E+00	4.07E+00	120	-99	-99
10.22779	26.56	5189.1	5190.4	0.51	6.65	1.2885	0.3824	NM	8.52E+00	4.09E+00	120	-99	-99
10.28839	22.4	5259.5	5260.9	0.43	6.95	0.5627	0.1797	NM	8.57E+00	4.12E+00	120	-99	-99
10.34899	18.25	5357.8	5359.2	0.34	7.25	0.6379	0.1788	NM	8.62E+00	4.14E+00	120	-99	-99
10.40919	14.12	5473.7	5475.1	0.26	7.55	0.7407	0.2042	NM	8.67E+00	4.16E+00	120	-99	-99
10.46658	15.31	5539.7	5541.1	0.28	7.55	0.7313	0.2053	NM	8.72E+00	4.19E+00	120	-99	-99
10.52879	17.39	5658.5	5660	0.31	7.9	0.7144	0.2049	NM	8.77E+00	4.21E+00	120	-99	-99
10.7704	23.34	6672	6673.8	0.35	9.05	0.4487	0.137	NM	8.98E+00	4.31E+00	120	-99	-99
10.82899	25.97	6658.8	6660.5	0.39	8.6	0.6431	0.186	NM	9.02E+00	4.33E+00	120	-99	-99
10.88959	27.6	6603.1	6604.7	0.42	8.4	0.5999	0.1734	NM	9.08E+00	4.36E+00	120	-99	-99
11.11806	28.98	6032.5	6033.9	0.48	7.4	0.5026	0.1379	NM	9.27E+00	4.45E+00	120	-99	-99
11.17587	28.68	6113.2	6114.6	0.47	7.1	0.4749	0.1323	NM	9.31E+00	4.47E+00	120	-99	-99
11.23972	29.07	5476.6	5477.8	0.53	6	0.4365	0.1234	NM	9.37E+00	4.50E+00	120	-99	-99
11.30276	30.06	6168.9	6170.5	0.49	7.95	0.4008	0.1151	NM	9.42E+00	4.52E+00	120	-99	-99
11.36379	29.02	6173.3	6174.8	0.47	7.55	0.3662	0.107	NM	9.47E+00	4.55E+00	120	-99	-99
11.42201	27.36	6039.9	6042.1	0.45	11.49	0.3894	0.1125	NM	9.52E+00	4.57E+00	120	-99	-99
11.48425	25.6	5922.5	5924.4	0.43	9.55	0.2931	0.0892	NM	9.57E+00	4.59E+00	120	-99	-99
11.54328	24.92	5871.2	5872.9	0.42	9.15	0.2248	0.0739	NM	9.62E+00	4.62E+00	120	-99	-99
11.60391	26.12	5853.6	5855.2	0.45	8.45	0.2117	0.0691	NM	9.67E+00	4.64E+00	120	-99	-99
11.66534	26.9	5913.7	5915.3	0.45	8.1	0.2099	0.0666	NM	9.72E+00	4.67E+00	120	-99	-99
11.87253	28.1	6268.7	6269.8	0.45	6.05	0.1819	0.061	NM	9.89E+00	4.75E+00	120	-99	-99
11.93236	28.75	6402.1	6403.4	0.45	6.5	0.1738	0.0594	NM	9.94E+00	4.77E+00	120	-99	-99
11.99299	28.82	6559.1	6560.4	0.44	6.75	0.1656	0.0577	NM	9.99E+00	4.80E+00	120	-99	-99
12.05362	28.89	6650	6651.5	0.43	7.45	0.1551	0.056	NM	1.00E+01	4.82E+00	120	-99	-99
12.11666	28.97	6711.6	6713	0.43	6.85	0.1425	0.0544	NM	1.01E+01	4.85E+00	120	-99	-99
12.18211	27.21	6741	6742.3	0.4	6.8	0.1377	0.0529	NM	1.02E+01	4.87E+00	120	-99	-99
12.24314	26.13	6724.8	6726.1	0.39	6.7	0.1323	0.0512	NM	1.02E+01	4.90E+00	120	-99	-99
12.47683	23.18	6999.1	7001.1	0.33	10.35	0.1074	0.0483	NM	1.04E+01	4.99E+00	120	-99	-99
12.54068	24.83	7327.7	7329.6	0.34	10.05	0.1038	0.0471	NM	1.05E+01	5.02E+00	120	-99	-99
12.60131	26.39	7386.4	7388.3	0.36	9.9	0.1003	0.046	NM	1.05E+01	5.04E+00	120	-99	-99
12.86154	26.22	7499.3	7501.1	0.35	9.55	0.0968	0.0448	NM	1.06E+01	5.07E+00	120	-99	-99
12.72097	23.44	7785.3	7787.2	0.3	9.5	0.0949	0.0441	NM	1.06E+01	5.09E+00	120	-99	-99
12.7824	25.91	8003.9	8005.6	0.32	8.9	0.0905	0.0436	NM	1.07E+01	5.11E+00	120	-99	-99
12.97754	25.28	7310.1	7310.5	0.35	1.96	0.0863	0.0434	NM	1.08E+01	5.19E+00	120	-99	-99
13.02974	24.97	7173.7	7174.4	0.35	3.96	0.085	0.0434	NM	1.09E+01	5.21E+00	120	-99	-99
13.06789	27.92	7122.3	7123.1	0.39	3.96	0.084	0.0434	NM	1.09E+01	5.23E+00	120	-99	-99

13.0988	28.76	6814.3	6815	0.42	3.81	0.0832	0.0434	NM	1.09E+01	5.24E+00	120	-99	-99
13.13936	26.54	6877.4	6878.9	0.39	7.8	0.0821	0.0434	NM	1.10E+01	5.26E+00	120	-99	-99
13.17188	24.54	6971.3	6972.4	0.35	6.05	0.0812	0.0434	NM	1.10E+01	5.27E+00	120	-99	-99
13.20601	25.17	6958.1	6959.4	0.36	7.05	0.0803	0.0434	NM	1.10E+01	5.28E+00	120	-99	-99
13.3855	25.22	7204.5	7205.3	0.35	4.31	0.0803	0.0434	NM	1.12E+01	5.35E+00	120	-99	-99
13.42726	24.42	6981.5	6982.3	0.35	4.16	0.0803	0.0434	NM	1.12E+01	5.37E+00	120	-99	-99
13.46861	23.65	7194.2	7194.9	0.33	3.41	0.0803	0.0434	NM	1.12E+01	5.39E+00	120	-99	-99
13.50917	24.21	7518.4	7519	0.32	3.36	0.0798	0.0433	NM	1.13E+01	5.40E+00	120	-99	-99
13.55133	26.62	7522.8	7523.4	0.35	3.31	0.0791	0.0431	NM	1.13E+01	5.42E+00	120	-99	-99
13.73724	34.96	6639.8	6640.1	0.53	1.96	0.0756	0.0415	NM	1.15E+01	5.50E+00	120	-99	-99
13.78341	34.52	6366.9	6367.3	0.54	1.81	0.0725	0.0407	NM	1.15E+01	5.51E+00	120	-99	-99
13.8328	34.04	6463.8	6464.2	0.53	2.46	0.0719	0.0398	NM	1.15E+01	5.53E+00	120	-99	-99
13.87938	33.6	6369.9	6370.2	0.53	1.71	0.0715	0.0395	NM	1.16E+01	5.55E+00	120	-99	-99
13.92877	33.13	6151.3	6151.6	0.54	1.26	0.0718	0.0397	NM	1.16E+01	5.57E+00	120	-99	-99
13.97414	32.69	6248.1	6248.4	0.52	1.11	0.0759	0.0401	NM	1.17E+01	5.59E+00	120	-99	-99
14.02192	32.24	6256.9	6257.1	0.52	1.06	0.0787	0.0404	NM	1.17E+01	5.61E+00	120	-99	-99
14.40626	24.21	6663.9	6664.5	0.36	3.01	0.0777	0.0416	NM	1.20E+01	5.76E+00	120	-99	-99
14.46438	23.51	6746.2	6746.8	0.35	3.36	0.0785	0.0417	NM	1.21E+01	5.79E+00	120	-99	-99
14.52732	21.21	6668.4	6669	0.32	3.51	0.0799	0.0418	NM	1.21E+01	5.81E+00	120	-99	-99
14.59386	18.03	6612.6	6613.2	0.27	3.11	0.0814	0.0421	NM	1.22E+01	5.84E+00	120	-99	-99
14.83157	17.68	6609.6	6610.6	0.27	5.01	0.0733	0.0357	NM	1.24E+01	5.93E+00	120	-99	-99
15.03761	21.61	6480.4	6480.8	0.33	2.11	0.0583	0.0222	NM	1.25E+01	6.02E+00	120	-99	-99
15.10094	20.34	6119.2	6119.5	0.33	1.41	0.0555	0.019	NM	1.26E+01	6.04E+00	120	-99	-99
15.16227	19.11	6001.8	6002	0.32	1.06	0.0541	0.0171	NM	1.26E+01	6.07E+00	120	7	7
15.22681	17.81	5652.3	5652.6	0.32	1.26	0.0524	0.0153	NM	1.27E+01	6.09E+00	120	7	7
15.28935	14.99	5602.4	5602.8	0.27	1.86	0.0508	0.0137	NM	1.27E+01	6.12E+00	120	7	7
15.35068	12.02	5633.2	5633.7	0.21	2.16	0.0519	0.0154	NM	1.28E+01	6.14E+00	120	7	7
15.58157	5.32	5355.7	5356.5	0.1	3.66	0.0693	0.0377	NM	1.30E+01	6.23E+00	120	-99	7
15.84894	10.54	5486.4	5487.1	0.19	3.41	0.0707	0.0379	NM	1.32E+01	6.34E+00	120	7	7
15.91268	11.09	5454.1	5454.7	0.2	3.26	0.0724	0.039	NM	1.33E+01	6.37E+00	120	7	7
15.97281	13.47	5358.7	5359.3	0.25	3.21	0.0731	0.0408	NM	1.33E+01	6.39E+00	120	7	7
16.03494	14.86	5360.1	5360.7	0.28	2.81	0.0732	0.0408	NM	1.34E+01	6.41E+00	120	7	7
16.09828	15.93	5392.5	5393.1	0.3	3.16	0.0725	0.0402	NM	1.34E+01	6.44E+00	120	7	7
16.16001	20.98	5367.5	5368.1	0.39	2.91	0.0717	0.0392	NM	1.35E+01	6.46E+00	120	7	7
16.22064	20.68	5324.9	5325.5	0.39	2.91	0.0704	0.039	NM	1.35E+01	6.49E+00	120	7	7
16.28669	15.38	5144.3	5145.1	0.3	4.11	0.0701	0.0399	NM	1.36E+01	6.52E+00	120	7	7
16.35122	10.49	5016.6	5017.2	0.21	3.21	0.0699	0.0394	NM	1.36E+01	6.54E+00	120	7	7
16.41375	8.72	5053.3	5053.9	0.13	3.21	0.0692	0.0398	NM	1.37E+01	6.57E+00	120	7	7
16.47068	6.64	4924.1	4924.6	0.13	2.76	0.0678	0.0382	NM	1.37E+01	6.59E+00	120	7	7
16.53161	7.28	4696.5	4696.9	0.15	2.21	0.0704	0.0398	NM	1.38E+01	6.61E+00	120	7	7
16.74607	9.97	4461.6	4461.8	0.22	1.06	0.0709	0.041	NM	1.40E+01	6.70E+00	120	7	7
16.8086	10.27	4502.7	4502.9	0.23	1.26	0.0713	0.0412	NM	1.40E+01	6.72E+00	120	7	7
16.87274	10.52	4471.9	4472.1	0.24	1.26	0.0715	0.0402	NM	1.41E+01	6.75E+00	120	7	7
16.93808	10.41	4424.9	4425	0.24	0.71	0.0713	0.0405	NM	1.41E+01	6.78E+00	120	7	7
16.99861	10.32	4543.8	4543.9	0.23	0.56	0.0698	0.0404	NM	1.42E+01	6.80E+00	120	7	7
17.06194	10.22	4535	4535.2	0.23	1.26	0.0692	0.0407	NM	1.42E+01	6.83E+00	120	7	7
17.12528	10.47	4662.7	4662.9	0.22	0.61	0.0687	0.0401	NM	1.43E+01	6.85E+00	120	7	7
17.18821	10.07	4711.2	4711.6	0.21	2.21	0.0678	0.0401	NM	1.43E+01	6.88E+00	120	7	7
17.43755	8.59	4946.1	4946.6	0.17	2.81	0.0669	0.04	NM	1.45E+01	6.98E+00	120	7	7
17.49727	9.34	5032.7	5033.3	0.19	2.91	0.0674	0.0398	NM	1.46E+01	7.00E+00	120	7	7
17.69658	12.76	5530.9	5531.6	0.23	3.42	0.068	0.04	NM	1.48E+01	7.08E+00	120	7	7
17.91817	22.27	5629.3	5629.5	0.4	1.37	0.0696	0.0397	NM	1.49E+01	7.17E+00	120	7	7

17.95063	20.84	5645.4	5645.7	0.37	1.17	0.0698	0.0394	NM	1.50E+01	7.18E+00	120	7	7
17.98549	19.89	5648.4	5648.8	0.35	1.12	0.0702	0.0397	NM	1.50E+01	7.19E+00	120	7	7
18.01914	20.96	5680.7	5680.8	0.37	0.97	0.0704	0.0399	NM	1.50E+01	7.21E+00	120	7	7
18.0544	20.71	5676.3	5676.4	0.36	0.78	0.0703	0.0401	NM	1.51E+01	7.22E+00	120	7	7
18.08966	20.36	5714.4	5714.6	0.36	0.73	0.0706	0.04	NM	1.51E+01	7.24E+00	120	7	7
18.12532	19.99	5710	5710.2	0.35	0.78	0.0711	0.0398	NM	1.51E+01	7.25E+00	120	7	7
18.15858	19.59	5762.9	5763	0.34	0.92	0.0712	0.0397	NM	1.51E+01	7.26E+00	120	7	7
18.19303	19.28	5780.5	5780.7	0.33	1.02	0.0712	0.0397	NM	1.52E+01	7.28E+00	120	7	7
18.22789	19.06	5638.1	5638.3	0.34	0.92	0.0708	0.0398	NM	1.52E+01	7.29E+00	120	7	7
18.26275	19.26	5626.4	5626.5	0.34	0.88	0.0703	0.0397	NM	1.52E+01	7.31E+00	120	7	7
18.2964	19.77	5633.7	5633.8	0.35	0.68	0.0691	0.0383	NM	1.53E+01	7.32E+00	120	7	7
18.33327	19.65	5685.1	5685.2	0.35	0.58	0.0592	0.0323	NM	1.53E+01	7.33E+00	120	7	7
18.36692	19.28	5718.8	5719	0.34	0.68	0.0356	0.0194	NM	1.53E+01	7.35E+00	120	7	7
18.40258	19.12	5771.7	5771.8	0.33	0.68	0.0199	0.0104	NM	1.53E+01	7.36E+00	120	7	7
18.46469	18.2	5871.5	5871.7	0.31	0.92	0.0204	0.0043	NM	1.54E+01	7.39E+00	120	7	7
18.52679	17.59	5931.7	5931.8	0.3	0.83	0.0338	0.0033	NM	1.54E+01	7.41E+00	120	7	7
18.59089	20.55	6016.8	6017	0.34	0.78	0.0115	0.0018	NM	1.55E+01	7.44E+00	120	7	7
18.655	26.16	6115.2	6115.4	0.43	1.07	0.0006	0.0009	NM	1.56E+01	7.46E+00	120	7	7
18.71831	31.22	6231.1	6231.3	0.5	1.07	0.0021	0.0007	NM	1.56E+01	7.49E+00	120	7	7
18.78081	36.21	6399.9	6400.1	0.57	1.02	0	0	NM	1.57E+01	7.51E+00	120	7	7
18.84572	41.4	6442.5	6442.8	0.64	1.52	0	0	NM	1.57E+01	7.54E+00	120	7	7
18.91103	37.13	6551.1	6551.3	0.57	0.78	0	0	NM	1.58E+01	7.56E+00	120	7	7
18.97193	35.22	6699.4	6699.5	0.53	0.48	0	0	NM	1.58E+01	7.59E+00	120	7	7
19.1947	33	6096.1	6096	0.54	-0.42	0	0	NM	1.60E+01	7.68E+00	120	7	7
19.2564	32.49	6294.2	6294.3	0.52	0.13	0	0	NM	1.61E+01	7.70E+00	120	7	7
19.32211	30.7	6514.4	6514.5	0.47	0.28	0	0	NM	1.61E+01	7.73E+00	120	7	7
19.38341	26.71	6530.6	6530.5	0.41	-0.07	0	0	NM	1.62E+01	7.75E+00	120	7	7
19.44551	24.91	6532	6532	0.38	-0.22	0	0	NM	1.62E+01	7.78E+00	120	7	7
19.50962	24.65	6483.8	6483.6	0.38	0.08	0	0	NM	1.63E+01	7.80E+00	120	7	7
19.57253	24.84	6492.4	6492.5	0.38	0.38	0	0	NM	1.63E+01	7.83E+00	120	7	7
19.63423	23.34	6492.4	6492.5	0.36	0.38	0	0	NM	1.64E+01	7.85E+00	120	7	7
19.69674	20.55	6511.5	6511.6	0.32	0.43	0	0	NM	1.64E+01	7.88E+00	120	7	7
19.75964	17.75	6579	6579.2	0.27	0.88	0	0	NM	1.65E+01	7.90E+00	120	7	7
19.82214	14.96	6670	6670.2	0.22	1.22	0	0	NM	1.65E+01	7.93E+00	120	7	7
19.88224	17.1	6741.9	6742.2	0.25	1.47	0	0	NM	1.66E+01	7.95E+00	120	7	7
19.94354	24.54	6730.2	6730.5	0.36	1.52	0	0	NM	1.66E+01	7.98E+00	120	7	7
20.19036	37.1	7183.8	7184.1	0.52	1.87	0	0	NM	1.68E+01	8.08E+00	120	7	7
20.25126	36.9	7249.8	7250.2	0.51	2.07	0	0	NM	1.69E+01	8.10E+00	120	7	7
20.31296	35.31	7217.5	7217.9	0.49	2.02	0	0	NM	1.69E+01	8.13E+00	120	7	7
20.37827	32.75	7235.1	7235.5	0.45	2.07	0	0	NM	1.70E+01	8.15E+00	120	7	7
20.43997	30.75	7320.3	7320.6	0.42	1.92	0	0	NM	1.70E+01	8.18E+00	120	7	7
20.50167	31.67	7462.7	7462.9	0.42	1.12	0	0	NM	1.71E+01	8.20E+00	120	7	7
20.56498	31.36	7675.5	7675.5	0.41	0.03	0	0	NM	1.71E+01	8.23E+00	120	7	7
20.62828	24.28	7895.7	7895.8	0.31	-0.17	0	0	NM	1.72E+01	8.25E+00	120	7	7
20.69039	19.78	8014.6	8014.6	0.25	-0.07	0	0	NM	1.72E+01	8.28E+00	120	7	7
20.75329	24.41	7933.8	7934	0.31	0.92	0	0	NM	1.73E+01	8.30E+00	120	7	7
20.81379	0	8107.1	8107.2	0	0.78	0	0	NM	1.73E+01	8.33E+00	120	-99	7
20.8783	0	8013.1	8013.3	0	0.78	0	0	NM	1.74E+01	8.35E+00	120	-99	7
20.95122	0	7773.8	7774	0	0.68	0	0	NM	1.75E+01	8.38E+00	120	-99	7
20.98931	0	7590.5	7591.2	0	3.47	0	0	NM	1.75E+01	8.40E+00	120	-99	7
21.03301	0	8198.8	8199.5	0	3.37	0	0	NM	1.75E+01	8.41E+00	120	-99	7
21.07431	0	8473.6	8474.3	0	3.62	0	0	NM	1.76E+01	8.43E+00	120	-99	-99

21.12402	0	8058.6	8060.1	0	7.47	0	0	NM	1.76E+01	8.45E+00	120	-99	7

Electric Cone Penetrometer Data

Cone_TAP v 2.90

Test Id: HD-07 Date: 4-Nov-03

Site: SUNNYSIDE Cone Id: 108.034XXX

Location: QUEENS NY GWT (ft): 5

Project: ROUX Soil Density(pcf): 120

Client: ROUX

Depth (ft)	Sleeve Stress (psi)	Tip Stress UNC (psi)	Tip Stress COR (psi)	Ratio COR (%)	Pore Pressure (psi)	LFFD (V)	HFFD (V)	Excitation (Vdc)	Overburden (psi)	Eff. Overburden (psi)	Wet Density (pcf)	Class. FR (Rob. 1990)	Class. PP (Rob. 1990)
0	0	0	0	0	0	0	0	NM	0.00E+00	0.00E+00	120	-99	-99
0.00782	0	14.8	14.7	0	-0.43	0.0092	-0.0032	NM	6.35E-03	6.35E-03	120	-99	-99
0.04253	0	32.4	32.3	0	-0.43	0.009	-0.0035	NM	3.54E-02	3.54E-02	120	-99	7
0.08907	0	57.4	57.3	0	-0.38	0.0161	-0.0009	NM	7.42E-02	7.42E-02	120	-99	7
0.12237	0	85.2	85.1	0	-0.43	0.031	0.0038	NM	1.02E-01	1.02E-01	120	-99	7
0.17091	0	110.2	110.1	0	-0.38	0.0878	0.0181	NM	1.42E-01	1.42E-01	120	-99	7
0.21625	0	164.4	164.4	0	-0.33	0.1575	0.0408	NM	1.80E-01	1.80E-01	120	-99	7
0.26279	0	211.4	211.3	0	-0.33	0.5019	0.1374	NM	2.19E-01	2.19E-01	120	-99	7
0.31174	110.61	325.8	325.7	33.96	-0.33	0.5324	0.1555	NM	2.60E-01	2.60E-01	120	-99	-99
0.35426	129.91	1606.3	1606.2	8.09	-0.33	0.5382	0.1744	NM	2.95E-01	2.95E-01	120	-99	-99
0.4004	108.82	3783	3782.9	2.88	-0.23	0.5312	0.1991	NM	3.34E-01	3.34E-01	120	-99	-99
0.44454	160.48	6289.7	6289.7	2.55	-0.08	0.4189	0.2435	NM	3.70E-01	3.70E-01	120	-99	-99
0.48626	168.36	7954.5	7955.3	2.12	4.06	0.3286	0.2964	NM	4.05E-01	4.05E-01	120	-99	-99
0.52839	188.05	8592.6	8595.6	2.19	15.79	0.4733	0.3434	NM	4.40E-01	4.40E-01	120	-99	-99
0.56811	210.36	8764.2	8774.7	2.4	54.41	0.4527	0.2744	NM	4.73E-01	4.73E-01	120	-99	-99
0.60742	228.9	8715.8	8753.3	2.61	194.08	0.3554	0.2169	NM	5.06E-01	5.06E-01	120	-99	-99
0.64875	239.06	9409.6	9436.9	2.53	141.43	0.3102	0.209	NM	5.41E-01	5.41E-01	120	-99	-99
0.68766	244.07	10084.3	10102.4	2.42	93.88	0.2662	0.206	NM	5.73E-01	5.73E-01	120	-99	-99
0.72779	247.21	10603.5	10635.5	2.32	165.53	0.1977	0.1684	NM	6.07E-01	6.07E-01	120	-99	-99
0.7671	234.47	11099.3	11150.1	2.1	263.19	0.1367	0.1411	NM	6.39E-01	6.39E-01	120	-99	-99
0.77473	230.73	10822.1	10880.1	2.12	300.31	0.1221	0.1455	NM	6.46E-01	6.46E-01	120	-99	-99
0.81645	261.14	10675.4	10727.6	2.43	270.22	0.0899	0.1278	NM	6.80E-01	6.80E-01	120	-99	-99
0.85778	221.35	10876.4	10931.1	2.02	263.35	0.0661	0.1033	NM	7.15E-01	7.15E-01	120	-99	-99
0.90111	212.19	9930.3	9972.6	2.13	219.28	0.0412	0.0776	NM	7.51E-01	7.51E-01	120	-99	-99
0.94524	173.38	8949	8981.7	1.93	169.18	0.0358	0.0631	NM	7.88E-01	7.88E-01	120	-99	-99
0.98977	146.01	7781.4	7805.3	1.87	123.62	0.0341	0.0506	NM	8.25E-01	8.25E-01	120	-99	-99
1.03712	130.99	6427.6	6440.2	2.03	85.39	0.0323	0.0374	NM	8.64E-01	8.64E-01	120	-99	-99
1.08767	112.13	4620.5	4621.4	2.43	4.56	0.0301	0.0267	NM	9.06E-01	9.06E-01	120	-99	-99
1.10572	100.5	2496.6	2501.1	4.02	23.37	0.0291	0.0255	NM	9.21E-01	9.21E-01	120	-99	-99
1.15788	73.51	2194.5	2198.3	3.34	19.73	0.0262	0.022	NM	9.65E-01	9.65E-01	120	-99	-99
1.21565	46.08	2722.5	2730.1	1.69	39.24	0.023	0.0182	NM	1.01E+00	1.01E+00	120	-99	-99
1.25015	34.72	2895.6	2908	1.19	54.18	0.0211	0.0159	NM	1.04E+00	1.04E+00	120	-99	-99
1.26179	30.21	1280.7	1281.7	2.36	5.61	0.0204	0.0151	NM	1.05E+00	1.05E+00	120	-99	-99
1.30953	12.41	2687.3	2695.3	0.46	41.43	0.0172	0.0106	NM	1.09E+00	1.09E+00	120	-99	-99
1.36129	6.97	2407.1	2412.1	0.29	25.47	0.0176	0.0128	NM	1.13E+00	1.13E+00	120	-99	-99
1.41224	3.87	1738.3	1740.7	0.22	12.29	0.0288	0.018	NM	1.18E+00	1.18E+00	120	-99	-99
1.4656	1.73	1978.8	1983.7	0.09	25.27	0.0406	0.0235	NM	1.22E+00	1.22E+00	120	-99	-99
1.4965	0.94	1376	1378.2	0.07	11.64	0.0474	0.0267	NM	1.25E+00	1.25E+00	120	-99	-99
1.55307	1.75	1527.1	1528.3	0.11	6.55	0.0599	0.0325	NM	1.29E+00	1.29E+00	120	-99	-99

1.57152	1.65	1186.8	1188.1	0.14	8.85	0.064	0.0344	NM	1.31E+00	1.31E+00	120	7	7
1.60181	1.5	1217.6	1218.4	0.12	4.31	0.0596	0.0291	NM	1.34E+00	1.34E+00	120	7	7
1.64658	1.66	896.2	896.4	0.19	0.75	0.0528	0.0235	NM	1.37E+00	1.37E+00	120	7	7
1.69678	2.24	883	883.2	0.25	1.25	0.0459	0.0227	NM	1.41E+00	1.41E+00	120	7	7
1.75261	2.92	966.6	966.8	0.3	0.95	0.0469	0.0243	NM	1.46E+00	1.46E+00	120	7	7
1.76666	2.83	793.5	793.5	0.36	-0.05	0.0483	0.0246	NM	1.47E+00	1.47E+00	120	7	7
1.81727	2.5	965.2	965.3	0.26	0.8	0.0572	0.0289	NM	1.51E+00	1.51E+00	120	7	7
1.85101	3.22	765.8	765.5	0.42	-0.65	0.0611	0.0307	NM	1.54E+00	1.54E+00	120	7	7
1.85864	3.39	855.1	855.3	0.4	0.65	0.0616	0.0308	NM	1.55E+00	1.55E+00	120	7	7
1.88996	3.19	824.3	824.2	0.39	-0.55	0.061	0.0307	NM	1.58E+00	1.58E+00	120	7	7
1.9474	3.19	875.7	875.6	0.36	-0.5	0.0566	0.0284	NM	1.62E+00	1.62E+00	120	7	7
1.9988	3.63	805.2	805.1	0.45	-0.99	0.0579	0.0271	NM	1.67E+00	1.67E+00	120	7	7
2.05061	3.43	919.7	919.6	0.37	-0.8	0.0553	0.0257	NM	1.71E+00	1.71E+00	120	7	7
2.10242	3.81	965.2	965.1	0.39	-0.5	0.0564	0.025	NM	1.75E+00	1.75E+00	120	7	7
2.15865	3.7	1009.2	1009.1	0.37	-0.7	0.0607	0.0238	NM	1.80E+00	1.80E+00	120	7	7
2.21127	3.61	893.3	893.2	0.4	-0.45	0.0581	0.0201	NM	1.84E+00	1.84E+00	120	7	7
2.26508	3.65	884.5	884.3	0.41	-0.89	0.0438	0.015	NM	1.89E+00	1.89E+00	120	7	7
2.32252	3.94	915.3	915.1	0.43	-1.14	0.0348	0.0093	NM	1.94E+00	1.94E+00	120	7	7
2.35946	3.67	962.2	962.1	0.38	-0.79	0.0318	0.0081	NM	1.97E+00	1.97E+00	120	7	7
2.41449	3.23	915.3	915	0.35	-1.49	0.0265	0.0067	NM	2.01E+00	2.01E+00	120	7	7
2.46871	1.17	852.2	851.9	0.14	-1.34	-0.0077	-0.0133	NM	2.06E+00	2.06E+00	120	7	7
2.51771	2.44	859.5	859.3	0.28	-1.34	-0.0206	-0.0286	NM	2.10E+00	2.10E+00	120	7	7
2.56952	2.1	908	907.7	0.23	-1.44	-0.0228	-0.0409	NM	2.14E+00	2.14E+00	120	7	7
2.6137	2.43	869.8	869.5	0.28	-1.54	-0.0166	-0.0332	NM	2.18E+00	2.18E+00	120	7	7
2.65346	2.78	915.3	915.1	0.3	-1.14	-0.0184	-0.0311	NM	2.21E+00	2.21E+00	120	7	7
2.69884	2.97	941.7	941.4	0.32	-1.59	-0.022	-0.0412	NM	2.25E+00	2.25E+00	120	7	7
2.74101	-0.05	941.7	941.4	-0.01	-1.74	-0.0219	-0.045	NM	2.28E+00	2.28E+00	120	-99	7
2.78117	-0.06	1012.1	1011.9	-0.01	-1.19	-0.0214	-0.0474	NM	2.32E+00	2.32E+00	120	-99	7
2.78639	-0.06	803.8	804.3	-0.01	2.55	-0.0213	-0.0476	NM	2.32E+00	2.32E+00	120	-99	7
2.84021	-0.07	947.6	947.7	-0.01	0.5	-0.0209	-0.0492	NM	2.37E+00	2.37E+00	120	-99	7
2.87033	0.06	1117.8	1117.9	0	0.6	-0.0223	-0.0491	NM	2.39E+00	2.39E+00	120	-99	7
2.92134	0.76	1136.8	1136.9	0.07	0.55	-0.0238	-0.0493	NM	2.43E+00	2.43E+00	120	-99	7
2.97114	1.46	1179.4	1179.5	0.12	0.5	-0.0241	-0.0498	NM	2.48E+00	2.48E+00	120	7	7
3.00287	1.9	1186.7	1186.8	0.16	0.4	-0.0244	-0.0498	NM	2.50E+00	2.50E+00	120	7	7
3.05829	2.85	1185.2	1185.3	0.24	0.35	-0.0248	-0.0499	NM	2.55E+00	2.55E+00	120	7	7
3.2081	5.7	1131	1130.8	0.5	-0.65	-0.0237	-0.0499	NM	2.67E+00	2.67E+00	120	7	7
3.37156	0.26	1260.1	1260.7	0.02	3.55	-0.0179	-0.0507	NM	2.81E+00	2.81E+00	120	-99	7
3.578	1.41	1113.3	1113.7	0.13	1.9	0.0377	-0.0417	NM	2.98E+00	2.98E+00	120	7	7
3.64708	1.59	971	971.4	0.16	1.9	0.1217	-0.0107	NM	3.04E+00	3.04E+00	120	7	7
3.88404	3.53	1233.7	1234.1	0.29	2.25	0.269	0.0522	NM	3.24E+00	3.24E+00	120	7	7
3.92541	3.51	1031.2	1031.4	0.34	0.95	0.2639	0.0434	NM	3.27E+00	3.27E+00	120	7	7
3.92581	3.51	981.3	981.4	0.36	0.75	0.2642	0.0435	NM	3.27E+00	3.27E+00	120	7	7
3.97119	3.41	1157.4	1157.6	0.29	1.15	0.3053	0.0527	NM	3.31E+00	3.31E+00	120	7	7
4.03103	3.33	1179.4	1179.6	0.28	1	0.4022	0.0969	NM	3.36E+00	3.36E+00	120	7	7
4.03144	3.33	975.4	975.4	0.34	0	0.4028	0.0972	NM	3.36E+00	3.36E+00	120	7	7
4.03184	3.33	946.1	946	0.35	-0.4	0.4035	0.0975	NM	3.36E+00	3.36E+00	120	7	7
4.05835	3.27	1164.7	1164.7	0.28	-0.15	0.4384	0.1113	NM	3.38E+00	3.38E+00	120	7	7
4.09248	3.18	1186.7	1186.7	0.27	-0.3	0.4686	0.1169	NM	3.41E+00	3.41E+00	120	7	7
4.12823	3.07	1195.5	1195.5	0.26	-0.3	0.5041	0.1274	NM	3.44E+00	3.44E+00	120	7	7
4.16518	3.04	1210.2	1210.1	0.25	-0.3	0.561	0.149	NM	3.47E+00	3.47E+00	120	7	7
4.21177	3.27	1207.2	1207.2	0.27	-0.4	0.6274	0.1677	NM	3.51E+00	3.51E+00	120	7	7
4.26317	3.65	1201.4	1201.3	0.3	-0.45	0.6931	0.1795	NM	3.55E+00	3.55E+00	120	7	7

4.31739	4.08	1202.8	1202.8	0.34	-0.45	0.7114	0.2011	NM	3.60E+00	3.60E+00	120	7	7
4.37362	4.57	1202.8	1202.7	0.38	-0.5	0.7991	0.2327	NM	3.65E+00	3.65E+00	120	7	7
4.43467	5.21	1199.9	1199.8	0.43	-0.5	0.8435	0.2455	NM	3.70E+00	3.70E+00	120	7	7
4.50214	5.7	1202.8	1202.7	0.47	-0.5	0.7978	0.231	NM	3.75E+00	3.75E+00	120	7	7
4.56801	5.97	1195.5	1195.4	0.5	-0.5	0.952	0.2861	NM	3.81E+00	3.81E+00	120	6	7
4.63749	9.47	1183.8	1183.7	0.8	-0.5	1.2958	0.4029	NM	3.87E+00	3.87E+00	120	6	7
4.70858	8.39	1172	1171.9	0.72	-0.65	0.8219	0.2285	NM	3.92E+00	3.92E+00	120	6	7
4.78047	7	1161.8	1161.7	0.6	-0.2	0.6057	0.1362	NM	3.98E+00	3.98E+00	120	6	7
4.85035	8.24	1204.3	1204.4	0.52	0.3	0.7911	0.1892	NM	4.04E+00	4.04E+00	120	6	7
4.90256	5.78	1095.7	1095.7	0.53	-0.15	0.8579	0.2332	NM	4.09E+00	4.09E+00	120	6	7
4.92301	5.61	1097.1	1097.2	0.51	0.54	0.8699	0.2349	NM	4.10E+00	4.10E+00	120	6	7
4.98798	5.11	1035.5	1035.7	0.49	1.14	0.9064	0.2453	NM	4.16E+00	4.16E+00	120	6	7
5.05856	4.59	1056	1056.3	0.43	1.19	0.9842	0.2881	NM	4.22E+00	4.19E+00	120	6	7
5.12873	5.52	1061.9	1062.1	0.52	1.04	1.1353	0.3366	NM	4.27E+00	4.22E+00	120	6	7
5.19891	3.35	1072.2	1072.3	0.31	0.94	0.9295	0.2628	NM	4.33E+00	4.25E+00	120	7	7
5.2731	3.14	1067.8	1068	0.29	0.99	0.9593	0.27	NM	4.39E+00	4.28E+00	120	7	7
5.34809	3.36	1064.8	1065	0.32	0.79	0.9574	0.2797	NM	4.46E+00	4.31E+00	120	7	7
5.41505	4.07	1073.8	1073.8	0.38	0.89	1.0321	0.3103	NM	4.51E+00	4.33E+00	120	6	7
5.48563	3.69	1082.4	1082.6	0.34	0.89	1.1179	0.3556	NM	4.57E+00	4.36E+00	120	7	7
5.55581	3.93	1070.7	1070.9	0.37	0.79	1.102	0.33	NM	4.63E+00	4.39E+00	120	6	7
5.62719	4.48	1085.4	1085.5	0.41	0.89	0.9596	0.2784	NM	4.69E+00	4.42E+00	120	6	7
5.70098	4.04	1107.4	1107.6	0.36	0.94	0.9243	0.2643	NM	4.75E+00	4.45E+00	120	6	7
5.77557	4.11	1073.6	1073.8	0.38	0.89	0.9304	0.2663	NM	4.81E+00	4.48E+00	120	6	7
5.84414	3.57	1070.7	1070.9	0.33	0.84	0.9315	0.2848	NM	4.87E+00	4.50E+00	120	7	7
5.91672	3.72	1056	1056.2	0.35	0.74	0.9546	0.2779	NM	4.93E+00	4.53E+00	120	6	7
5.9877	2.99	1017.9	1018	0.29	0.64	1.1031	0.3176	NM	4.99E+00	4.56E+00	120	7	7
6.05868	2.88	987	987.2	0.29	0.64	0.9474	0.3052	NM	5.05E+00	4.59E+00	120	6	7
6.13168	2.52	956.2	956.4	0.26	1.14	0.9288	0.2892	NM	5.11E+00	4.62E+00	120	6	7
6.20585	2.22	913.7	913.9	0.24	1.14	0.9852	0.3377	NM	5.17E+00	4.65E+00	120	6	7
6.27442	2.14	881.4	881.6	0.24	0.94	0.9156	0.297	NM	5.23E+00	4.68E+00	120	6	7
6.34741	1.9	860.8	861	0.22	0.94	0.9451	0.3031	NM	5.29E+00	4.71E+00	120	6	7
6.41718	1.71	808	808.3	0.21	1.54	1.0277	0.3419	NM	5.35E+00	4.73E+00	120	6	7
6.48818	1.6	791.9	792.1	0.2	1.44	1.1011	0.3551	NM	5.41E+00	4.76E+00	120	6	6
6.56115	1.77	769.9	770.2	0.23	1.59	1.059	0.3485	NM	5.47E+00	4.79E+00	120	6	6
6.63453	1.82	756.7	756.9	0.24	1.49	0.8858	0.2896	NM	5.53E+00	4.82E+00	120	6	6
6.70431	2.2	739	739.3	0.3	1.44	0.7814	0.2309	NM	5.59E+00	4.85E+00	120	6	6
6.77809	2.28	740.5	740.8	0.31	1.49	1.0275	0.3288	NM	5.65E+00	4.88E+00	120	6	6
6.84787	2.44	742	742.4	0.33	2.04	1.1378	0.3702	NM	5.71E+00	4.91E+00	120	6	6
6.91925	2.33	727.3	727.7	0.32	1.94	1.1395	0.356	NM	5.77E+00	4.93E+00	120	6	6
6.99183	2.43	733.2	733.5	0.33	1.94	0.9995	0.3282	NM	5.83E+00	4.96E+00	120	6	6
7.06402	2.66	737.6	737.9	0.36	1.84	1.0919	0.3384	NM	5.89E+00	4.99E+00	120	6	6
7.13219	2.65	743.4	743.9	0.36	2.29	0.9147	0.2992	NM	5.94E+00	5.02E+00	120	6	6
7.20317	2.75	753.7	754.1	0.36	2.19	0.897	0.2839	NM	6.00E+00	5.05E+00	120	6	6
7.27294	3.33	761.1	761.5	0.44	2.19	0.8507	0.2601	NM	6.06E+00	5.08E+00	120	6	6
7.34432	3.01	780.1	780.6	0.39	2.34	0.8645	0.3089	NM	6.12E+00	5.10E+00	120	6	6
7.4165	2.92	799.2	799.7	0.36	2.39	1.0672	0.3752	NM	6.18E+00	5.13E+00	120	6	6
7.48989	2.94	821.2	821.7	0.36	2.44	0.9919	0.3531	NM	6.24E+00	5.16E+00	120	6	6
7.55967	3.3	838.8	839.3	0.39	2.49	1.1081	0.3901	NM	6.30E+00	5.19E+00	120	6	6
7.63485	3.32	850.6	851	0.39	2.44	0.949	0.3316	NM	6.36E+00	5.22E+00	120	6	6
7.70323	3.54	878.5	878.9	0.4	2.54	0.9157	0.3009	NM	6.42E+00	5.25E+00	120	6	6
7.77461	3.72	900.5	901	0.41	2.59	0.847	0.2877	NM	6.48E+00	5.28E+00	120	6	7
7.84799	3.9	928.3	928.9	0.42	2.69	0.7872	0.2799	NM	6.54E+00	5.31E+00	120	6	7

7.91977	3.73	959.2	959.7	0.39	2.79	1.0212	0.3582	NM	6.60E+00	5.34E+00	120	6	7
7.98795	3.8	1000.3	1000.8	0.38	2.89	0.9694	0.339	NM	6.66E+00	5.36E+00	120	6	7
8.06253	4.04	1041.3	1041.9	0.39	3.09	0.7035	0.2917	NM	6.72E+00	5.39E+00	120	6	7
8.13191	3.95	1095.8	1096.3	0.36	3.24	0.7379	0.2244	NM	6.78E+00	5.42E+00	120	6	7
8.20289	3.83	1158.7	1159.4	0.33	3.43	0.7751	0.2224	NM	6.84E+00	5.45E+00	120	6	7
8.29313	3.63	1248.4	1249.7	0.29	6.65	0.6421	0.2365	NM	6.91E+00	5.48E+00	120	7	7
8.36333	3.49	1339.3	1340.6	0.26	6.6	0.7306	0.2578	NM	6.97E+00	5.51E+00	120	7	7
8.43312	3.65	1406.6	1408.1	0.26	6.6	0.5321	0.185	NM	7.03E+00	5.54E+00	120	7	7
8.50452	3.84	1447.9	1449.1	0.26	6.4	0.1783	0.0581	NM	7.09E+00	5.57E+00	120	7	7
8.58033	7.65	1443.5	1444.6	0.53	6.05	0.1924	0.0604	NM	7.15E+00	5.60E+00	120	6	7
8.65293	7.8	1421.5	1422.5	0.55	5.61	0.2427	0.0881	NM	7.21E+00	5.63E+00	120	6	7
8.72152	9.11	1371.6	1372.6	0.66	5.16	0.437	0.1473	NM	7.27E+00	5.66E+00	120	6	7
8.79211	11.9	1381.9	1382.8	0.86	5.06	0.7947	0.2579	NM	7.33E+00	5.68E+00	120	6	7
8.86191	10.1	1459.6	1460.6	0.69	5.36	0.7908	0.2564	NM	7.39E+00	5.71E+00	120	6	7
8.93611	9.99	1458.1	1459.2	0.68	5.36	0.6099	0.1936	NM	7.45E+00	5.74E+00	120	6	7
9.01112	20.1	1638.6	1639.7	1.23	5.96	0.8599	0.2929	NM	7.51E+00	5.77E+00	120	8	7
9.08252	21.65	2125.5	2127.1	1.02	8.4	0.6618	0.2527	NM	7.57E+00	5.80E+00	120	6	7
9.15191	28.8	2505.4	2507.4	1.15	10	0.6183	0.2032	NM	7.63E+00	5.83E+00	120	8	7
9.2233	45.67	3008.5	3010.9	1.52	12.39	0.8821	0.2995	NM	7.69E+00	5.86E+00	120	6	7
9.2939	36.9	2930.8	2932.7	1.26	9.9	1.1882	0.3785	NM	7.75E+00	5.88E+00	120	6	7
9.3653	28.28	3607	3610.1	0.78	16.08	1.5855	0.5234	NM	7.80E+00	5.91E+00	120	7	7
9.44111	26.8	4749.6	4752.7	0.56	16.03	1.6596	0.548	NM	7.87E+00	5.94E+00	120	7	7
9.5097	74.96	5276.2	5281.6	1.42	28.16	1.87	0.5292	NM	7.93E+00	5.97E+00	120	6	7
9.5819	96.12	4708.5	4712.5	2.04	20.48	0.8864	0.2719	NM	7.99E+00	6.00E+00	120	8	7
9.64647	70.37	2907.3	2909.7	2.42	12.29	0.2784	0.0794	NM	8.04E+00	6.03E+00	120	8	7
9.72148	62.29	3312.2	3314.4	1.88	11.39	0.2299	0.0556	NM	8.10E+00	6.06E+00	120	8	7
9.78967	69.13	4063.1	4066	1.7	14.84	0.1096	0.0335	NM	8.16E+00	6.08E+00	120	8	7
9.86147	109.59	5191.1	5193.2	2.11	11.09	0.0873	0.0285	NM	8.22E+00	6.11E+00	120	8	7
9.92845	99.68	7095	7095.6	1.4	3.31	0.1068	0.0357	NM	8.27E+00	6.14E+00	120	-99	-99
9.99704	91.4	8553	8560.9	1.07	41.18	0.097	0.0302	NM	8.33E+00	6.17E+00	120	-99	-99
10.07767	-86.78	5513.8	5513.9	-1.57	0.62	0.0819	0.0289	NM	8.40E+00	6.20E+00	120	-99	7
10.14465	40.79	4240.6	4240.5	0.96	-0.53	0.1106	0.0423	NM	8.45E+00	6.23E+00	120	6	7
10.21204	61.35	3458.8	3459.8	1.77	5.06	0.1223	0.0349	NM	8.51E+00	6.25E+00	120	8	7
10.28504	71.12	5072.3	5072.7	1.4	2.06	0.1076	0.0223	NM	8.57E+00	6.28E+00	120	6	7
10.35603	82.14	5543.1	5543	1.48	-0.78	0.3207	0.1505	NM	8.63E+00	6.31E+00	120	8	7
10.42422	19.72	5770.5	5773.2	0.34	14.04	0.1992	0.0968	NM	8.69E+00	6.34E+00	120	7	7
10.49201	15.69	5368.6	5369.3	0.29	3.51	0.122	0.0453	NM	8.74E+00	6.36E+00	120	7	7
10.5622	13.69	5044.4	5045.2	0.27	4.16	0.0627	0.0208	NM	8.80E+00	6.39E+00	120	7	7
10.63119	11.65	4352.1	4352.2	0.27	0.47	0.0626	0.0252	NM	8.86E+00	6.42E+00	120	7	7
10.70379	9.08	4488.5	4490	0.2	7.8	0.1513	0.0553	NM	8.92E+00	6.45E+00	120	7	7
10.78041	11.69	4025	4025	0.29	0.17	0.3246	0.121	NM	8.98E+00	6.48E+00	120	7	7
10.84699	-1.06	3580.6	3581.5	-0.03	4.76	0.4675	0.1836	NM	9.04E+00	6.51E+00	120	-99	7
10.91959	-4.38	3479.4	3479.9	-0.13	2.51	0.6275	0.2552	NM	9.10E+00	6.54E+00	120	-99	7
10.99059	-2.96	3347.4	3348	-0.09	3.56	0.7879	0.3115	NM	9.16E+00	6.56E+00	120	-99	7
11.05958	-6.78	3225.6	3226.6	-0.21	4.86	0.812	0.3086	NM	9.22E+00	6.59E+00	120	-99	7
11.13378	-9.12	3162.5	3163.8	-0.29	5.45	0.8795	0.3277	NM	9.28E+00	6.62E+00	120	-99	7
11.20358	-11.55	3048.1	3049.3	-0.38	5.15	0.9456	0.34	NM	9.34E+00	6.65E+00	120	-99	7
11.27417	-10.87	2996.8	2997.5	-0.36	3.81	1.0844	0.3734	NM	9.40E+00	6.68E+00	120	-99	7
11.34557	-10.1	2957.2	2958.4	-0.34	6.3	1.1633	0.3884	NM	9.46E+00	6.71E+00	120	-99	7
11.41696	-10.05	2927.9	2929.1	-0.34	6.35	1.1837	0.3865	NM	9.51E+00	6.73E+00	120	-99	7
11.48034	-9.49	2810.5	2811.1	-0.34	2.81	1.0477	0.3489	NM	9.57E+00	6.76E+00	120	-99	7
11.49922	-8.58	2463.1	2464.4	-0.35	6.89	0.9748	0.3298	NM	9.58E+00	6.77E+00	120	-99	7

11.53617	-6.8	2821.1	2823.7	-0.24	13.13	0.8779	0.3033	NM	9.61E+00	6.78E+00	120	-99	7
11.58034	-4.56	2592.2	2593	-0.18	3.95	1.0094	0.33	NM	9.65E+00	6.80E+00	120	-99	7
11.64782	-5.36	2976.6	2978.8	-0.18	10.98	1.3162	0.4323	NM	9.71E+00	6.83E+00	120	-99	7
11.72051	-7.03	3085.2	3087.4	-0.23	11.38	1.3953	0.5066	NM	9.77E+00	6.86E+00	120	-99	7
11.80807	-8.67	2746.3	2746.3	-0.32	0.15	1.0379	0.3853	NM	9.84E+00	6.89E+00	120	-99	7
11.88156	-9.99	2714	2714.8	-0.37	4	0.8891	0.3186	NM	9.90E+00	6.92E+00	120	-99	7
11.95105	-9.66	2648	2648.6	-0.36	3.15	0.8316	0.2957	NM	9.96E+00	6.95E+00	120	-99	7
11.99643	-7.36	2598.1	2599.7	-0.28	8.04	0.8611	0.302	NM	1.00E+01	6.97E+00	120	-99	7
12.04703	0.7	2347.2	2347.5	0.03	1.6	0.9284	0.3266	NM	1.00E+01	6.99E+00	120	-99	7
12.10969	15.08	2628.9	2630.1	0.57	5.89	1.0316	0.3864	NM	1.01E+01	7.01E+00	120	7	7
12.14744	24.52	2301.7	2302	1.07	1.55	1.0342	0.3874	NM	1.01E+01	7.03E+00	120	6	7
12.21692	20.62	2775.6	2777.6	0.74	10.24	1.059	0.4048	NM	1.02E+01	7.05E+00	120	6	7
12.28841	-4.61	2951.7	2953.6	-0.16	9.89	1.1201	0.4333	NM	1.02E+01	7.08E+00	120	-99	7
12.3607	0.74	3324.3	3326.4	0.02	10.78	1.056	0.4154	NM	1.03E+01	7.11E+00	120	-99	7
12.42978	13.46	3851	3855	0.35	20.32	0.9181	0.3475	NM	1.04E+01	7.14E+00	120	7	7
12.49846	7.27	4586.1	4590.6	0.16	23.21	0.9991	0.3502	NM	1.04E+01	7.17E+00	120	7	7
12.56714	4.58	5130.4	5134	0.09	18.42	0.9942	0.3646	NM	1.05E+01	7.19E+00	120	-99	7
12.61333	4.74	4464.3	4465	0.11	3.8	1.1079	0.3741	NM	1.05E+01	7.21E+00	120	7	7
12.61855	4.76	3729.3	3730.7	0.13	7.44	1.1265	0.3754	NM	1.05E+01	7.21E+00	120	7	7
12.69526	3.3	2774.2	2774.2	0.12	0.2	1.1118	0.3612	NM	1.06E+01	7.25E+00	120	7	7
12.76675	0.67	2819.6	2820.1	0.02	2.6	0.9966	0.3417	NM	1.06E+01	7.27E+00	120	-99	7
12.83703	13.71	3130.7	3132	0.44	6.89	0.9946	0.3384	NM	1.07E+01	7.30E+00	120	7	7
12.90812	13.78	3267.1	3268.5	0.42	7.29	0.868	0.2991	NM	1.08E+01	7.33E+00	120	7	7
12.978	11.91	3409.4	3411.2	0.35	9.29	0.7997	0.3049	NM	1.08E+01	7.36E+00	120	7	7
13.04829	9.96	3465.2	3466.3	0.29	5.59	0.8798	0.3452	NM	1.09E+01	7.39E+00	120	7	7
13.12259	7.23	3402.1	3402.9	0.21	4.35	0.8687	0.3691	NM	1.09E+01	7.42E+00	120	7	7
13.19488	1.48	3028	3028.6	0.05	3.1	0.5084	0.2186	NM	1.10E+01	7.45E+00	120	-99	7
13.26396	-1.31	3104.3	3105.7	-0.04	7.64	0.8588	0.3029	NM	1.11E+01	7.47E+00	120	-99	7
13.33706	-3.74	3177.8	3179.3	-0.12	8.59	0.8227	0.2882	NM	1.11E+01	7.50E+00	120	-99	7
13.40774	3.29	3384.5	3386.4	0.1	9.64	0.2752	0.093	NM	1.12E+01	7.53E+00	120	-99	7
13.47642	0.05	3406.5	3407.5	0	4.94	0.0986	0.0289	NM	1.12E+01	7.56E+00	120	-99	7
13.55032	2.62	3570.8	3571.9	0.07	5.39	0.0724	0.0213	NM	1.13E+01	7.59E+00	120	-99	7
13.62221	9.83	3691.1	3693.4	0.27	11.78	0.0738	0.0218	NM	1.14E+01	7.62E+00	120	7	7
13.68928	15.73	3971.4	3975.2	0.4	19.87	0.0772	0.0225	NM	1.14E+01	7.64E+00	120	7	7
13.75836	12.81	4144.5	4148.2	0.3	19.12	0.0707	0.0186	NM	1.15E+01	7.67E+00	120	7	7
13.82945	18.78	4379.2	4381.2	0.43	10.34	0.0381	0.0051	NM	1.15E+01	7.70E+00	120	7	7
13.90335	22.19	3795.3	3795.8	0.58	1.7	0.0064	-0.0148	NM	1.16E+01	7.73E+00	120	7	7
13.97564	21.73	2994.2	2995.2	0.73	4.85	-0.0246	-0.0373	NM	1.17E+01	7.76E+00	120	6	7
14.04834	20.21	2716.9	2717.8	0.74	3.55	-0.019	-0.0448	NM	1.17E+01	7.79E+00	120	6	7
14.11943	11.01	3017.7	3018.5	0.36	4.4	0.0077	-0.0358	NM	1.18E+01	7.81E+00	120	7	7
14.19252	7.29	2716.9	2717.5	0.27	2.9	0.0537	-0.0119	NM	1.18E+01	7.84E+00	120	7	7
14.26401	-0.47	2587.8	2588.5	-0.02	3.55	0.0687	0.0139	NM	1.19E+01	7.87E+00	120	-99	7
14.33349	-2.41	2599.8	2600.4	-0.09	4.25	0.0614	0.0257	NM	1.19E+01	7.90E+00	120	-99	7
14.40739	-18.13	2561.4	2562.3	-0.71	4.7	0.0529	0.0156	NM	1.20E+01	7.93E+00	120	-99	7
14.47808	-13.1	2620.1	2621.1	-0.5	5.14	0.0243	0.0039	NM	1.21E+01	7.96E+00	120	-99	7
14.54756	-13.82	2589.3	2590.2	-0.53	4.75	0.029	0.0053	NM	1.21E+01	7.99E+00	120	-99	7
14.61985	-13.86	2504.2	2504.9	-0.55	3.8	0.0735	0.0171	NM	1.22E+01	8.02E+00	120	-99	7
14.69255	-13.53	2378	2378.6	-0.57	2.85	0.1137	0.0274	NM	1.22E+01	8.04E+00	120	-99	7
14.81061	-14.09	2126	2126.6	-0.66	2.92	0.1056	0.0236	NM	1.23E+01	8.09E+00	120	-99	7
14.87887	-15.98	2148	2148.4	-0.74	2.07	0.0882	0.0194	NM	1.24E+01	8.12E+00	120	-99	7
14.94914	-16.29	2221.4	2221.8	-0.73	2.07	0.0729	0.0195	NM	1.25E+01	8.15E+00	120	-99	7
15.01981	-16.25	2249.3	2249.7	-0.72	2.27	0.0792	0.0244	NM	1.25E+01	8.18E+00	120	-99	7

15.09048	-17.55	2288.9	2289.4	-0.77	2.17	0.0529	0.0119	NM	1.26E+01	8.20E+00	120	-99	7
15.16637	-16.03	2388.7	2389.2	-0.67	2.57	0.0415	0.0065	NM	1.26E+01	8.23E+00	120	-99	7
15.23985	-16.89	2454.8	2455.3	-0.69	2.67	0.0219	0.0009	NM	1.27E+01	8.26E+00	120	-99	7
15.30771	-17.97	2456.3	2456.7	-0.73	2.12	0.0208	-0.0002	NM	1.28E+01	8.29E+00	120	-99	7
15.37918	-18.56	2462.1	2462.4	-0.67	1.37	0.0103	-0.0029	NM	1.28E+01	8.32E+00	120	-99	7
15.44985	-14.86	2600.1	2600.6	-0.57	2.37	0.005	-0.0039	NM	1.29E+01	8.35E+00	120	-99	7
15.52132	-1.49	2660.3	2660.7	-0.06	2.27	0.0023	-0.006	NM	1.29E+01	8.38E+00	120	-99	7
15.59761	0.53	2730.8	2731.2	0.02	2.22	-0.0006	-0.0084	NM	1.30E+01	8.41E+00	120	-99	7
15.67029	0.49	2854.1	2854.4	0.02	1.52	-0.0022	-0.0088	NM	1.31E+01	8.44E+00	120	-99	7
15.74056	12.83	3031.7	3032.1	0.42	2.17	-0.0036	-0.0092	NM	1.31E+01	8.46E+00	120	7	7
15.81083	19.89	3185.8	3186.3	0.62	2.32	-0.0029	-0.0098	NM	1.32E+01	8.49E+00	120	6	7
15.8835	25.49	3326.7	3326.8	0.77	0.53	-0.0051	-0.0103	NM	1.32E+01	8.52E+00	120	6	7
15.95377	20.09	3348.7	3348.8	0.6	0.43	-0.006	-0.0116	NM	1.33E+01	8.55E+00	120	7	7
16.03046	16.22	3450	3450.1	0.47	0.28	-0.0058	-0.0101	NM	1.34E+01	8.58E+00	120	7	7
16.09953	15.01	3792	3791.7	0.4	-1.52	-0.0049	-0.0097	NM	1.34E+01	8.61E+00	120	7	7
16.171	8.88	3127.1	3126.8	0.28	-1.32	-0.0042	-0.0098	NM	1.35E+01	8.64E+00	120	7	7
16.24207	-1.89	3463.2	3463.1	-0.05	-0.92	-0.0097	-0.0168	NM	1.35E+01	8.66E+00	120	-99	7
16.31354	-2.61	3582.1	3582	-0.07	-0.87	-0.0229	-0.0321	NM	1.36E+01	8.69E+00	120	-99	7
16.38381	-5.93	3748	3747.9	-0.16	-0.67	-0.012	-0.0199	NM	1.37E+01	8.72E+00	120	-99	7
16.45689	-4.56	4048.9	4048.8	-0.11	-0.52	-0.0124	-0.0203	NM	1.37E+01	8.75E+00	120	-99	7
16.52916	-4.76	4241.2	4241.2	-0.11	-0.17	-0.0187	-0.0306	NM	1.38E+01	8.78E+00	120	-99	7
16.60023	-4	3458.8	3458.6	-0.12	-1.32	-0.0332	-0.0397	NM	1.38E+01	8.81E+00	120	-99	7
16.67251	3.67	3724.5	3724.2	0.1	-1.37	-0.0485	-0.046	NM	1.39E+01	8.84E+00	120	-99	7
16.74398	5.08	3642.3	3642.1	0.14	-1.12	-0.0488	-0.0485	NM	1.40E+01	8.86E+00	120	7	7
16.81345	-0.36	3398.6	3398.4	-0.01	-1.27	-0.0475	-0.0497	NM	1.40E+01	8.89E+00	120	-99	7
16.88693	-5.82	3504.3	3504.1	-0.17	-1.32	-0.0504	-0.0496	NM	1.41E+01	8.92E+00	120	-99	7
16.9588	-6.76	3586.5	3586.3	-0.19	-1.22	-0.0531	-0.0495	NM	1.41E+01	8.95E+00	120	-99	7
17.03027	-10.18	3206.4	3206.1	-0.32	-1.32	-0.0563	-0.0495	NM	1.42E+01	8.98E+00	120	-99	7
17.09974	-11.87	3191.7	3191.4	-0.37	-1.47	-0.0587	-0.0495	NM	1.43E+01	9.01E+00	120	-99	7
17.17201	-7.12	3096.3	3096	-0.23	-1.17	-0.0607	-0.0499	NM	1.43E+01	9.04E+00	120	-99	7
17.24228	-10.26	3212.2	3212.1	-0.32	-0.72	-0.0632	-0.0498	NM	1.44E+01	9.06E+00	120	-99	7
17.31536	-11.3	3461.8	3461.8	-0.33	0.08	-0.066	-0.0496	NM	1.44E+01	9.09E+00	120	-99	7
17.38723	-5.65	3554.2	3554.3	-0.16	0.33	-0.0674	-0.0499	NM	1.45E+01	9.12E+00	120	-99	7
17.45831	-4.35	3746.5	3746.8	-0.12	1.22	-0.0711	-0.05	NM	1.46E+01	9.15E+00	120	-99	7
17.53098	-1.08	3701	3700.9	-0.03	-0.67	-0.0712	-0.0498	NM	1.46E+01	9.18E+00	120	-99	7
17.60165	14.17	3839	3839.3	0.37	1.37	-0.0715	-0.0497	NM	1.47E+01	9.21E+00	120	7	7
17.67112	4.25	4272	4273	0.1	5.12	-0.075	-0.0497	NM	1.47E+01	9.24E+00	120	-99	7
17.74219	6.65	5333.3	5336	0.12	14.06	-0.073	-0.0498	NM	1.48E+01	9.26E+00	120	7	7
17.81085	5.22	6441.6	6446.3	0.08	24.4	-0.0725	-0.0492	NM	1.48E+01	9.29E+00	120	-99	7
17.88071	4.96	6014.4	6015.5	0.08	5.87	-0.0737	-0.0498	NM	1.49E+01	9.32E+00	120	-99	7
17.95379	4.85	5142.5	5142.5	0.09	-0.17	-0.072	-0.0497	NM	1.50E+01	9.35E+00	120	-99	7
18.02527	6.69	4621.4	4621.2	0.14	-0.82	-0.0702	-0.0497	NM	1.50E+01	9.38E+00	120	7	7
18.08991	10.69	4371.8	4371.6	0.24	-1.32	-0.0711	-0.05	NM	1.51E+01	9.40E+00	120	7	7
18.09914	11.28	4100.9	4105.2	0.27	22.09	-0.0711	-0.0501	NM	1.51E+01	9.41E+00	120	7	7
18.1718	9.68	4305	4308.2	0.22	16.55	-0.0721	-0.0493	NM	1.51E+01	9.44E+00	120	7	7
18.23883	5.87	4274.2	4275.2	0.14	5.11	-0.0733	-0.0493	NM	1.52E+01	9.46E+00	120	7	7
18.30827	1.72	4360.8	4361.6	0.04	4.01	-0.0717	-0.0499	NM	1.53E+01	9.49E+00	120	-99	7
18.37611	-0.81	4435.7	4436.4	-0.02	3.81	-0.0702	-0.0495	NM	1.53E+01	9.52E+00	120	-99	7
18.45077	-4.12	4225.7	4226.2	-0.1	2.56	-0.069	-0.0499	NM	1.54E+01	9.55E+00	120	-99	7
18.52503	-5.28	4048.1	4048.2	-0.13	0.66	-0.0676	-0.0497	NM	1.54E+01	9.58E+00	120	-99	7
18.59608	-5.39	3945.3	3945.6	-0.14	1.61	-0.066	-0.0495	NM	1.55E+01	9.61E+00	120	-99	7
18.66512	-3.83	4004	4004.7	-0.1	3.46	-0.0653	-0.0498	NM	1.56E+01	9.63E+00	120	-99	7

18.73737	-4.12	3976.1	3977	-0.1	4.31	-0.0659	-0.0499	NM	1.58E+01	9.86E+00	120	-99	7
18.8052	-6.08	3915.9	3916.7	-0.16	4.06	-0.0654	-0.05	NM	1.57E+01	9.69E+00	120	-99	7
18.87946	-5.99	3877.8	3878.3	-0.15	2.56	-0.0621	-0.0499	NM	1.57E+01	9.72E+00	120	-99	7
18.95613	-4.2	3876.3	3876.5	-0.11	1.16	-0.059	-0.0496	NM	1.58E+01	9.75E+00	120	-99	7
19.02718	0.02	3814.6	3815.1	0	2.31	-0.0519	-0.0495	NM	1.58E+01	9.78E+00	120	-99	7
19.09782	1.28	4001.1	4001.8	0.03	3.81	-0.0295	-0.0496	NM	1.59E+01	9.81E+00	120	-99	7
19.17048	1.79	4161.1	4161.8	0.04	3.41	0.0387	0.0058	NM	1.60E+01	9.84E+00	120	-99	7
19.23871	4.51	4246.3	4246.8	0.11	2.46	0.0575	0.0119	NM	1.60E+01	9.86E+00	120	7	7
19.31257	6.35	4313.8	4314.3	0.15	2.56	0.0672	0.0129	NM	1.61E+01	9.89E+00	120	7	7
19.38562	7.7	4399	4399.8	0.18	4.36	0.0992	0.0191	NM	1.62E+01	9.92E+00	120	7	7
19.45748	7.94	4465.1	4465.7	0.18	3.21	0.0903	0.0151	NM	1.62E+01	9.95E+00	120	7	7
19.52772	7.97	4644.2	4644.8	0.17	3.41	0.0939	0.0149	NM	1.63E+01	9.98E+00	120	7	7
19.59837	15.1	4838	4838.7	0.31	3.86	0.078	0.011	NM	1.63E+01	1.00E+01	120	7	7
19.66821	15.79	5062.6	5063.5	0.31	4.56	0.0809	0.0122	NM	1.64E+01	1.00E+01	120	7	7
19.73966	17.17	5357.7	5359.1	0.32	6.81	0.0621	0.006	NM	1.65E+01	1.01E+01	120	7	7
19.81111	40.45	5884.8	5886.9	0.69	10.8	0.054	0.0027	NM	1.65E+01	1.01E+01	120	7	7
19.88215	33.22	6595.5	6597.9	0.5	12.5	0.0413	0.0009	NM	1.66E+01	1.01E+01	120	7	7
19.93634	32.08	6583.7	6585.8	0.49	0.41	0.0362	-0.0015	NM	1.66E+01	1.01E+01	120	7	7
19.97046	35.18	6516.2	6517.4	0.54	6.46	0.038	-0.0023	NM	1.66E+01	1.02E+01	120	7	7
20.00498	29.02	7055	7057.3	0.41	11.9	0.0364	-0.0028	NM	1.67E+01	1.02E+01	120	7	7
20.0395	27.12	7849.4	7852	0.35	13.7	0.0216	-0.0139	NM	1.67E+01	1.02E+01	120	7	7
20.08165	29.33	7354.6	7354.6	0.4	0.36	0.0028	-0.0269	NM	1.67E+01	1.02E+01	120	7	7
20.12741	31.23	6347.3	6347.3	0.49	-0.19	0.0114	-0.0122	NM	1.68E+01	1.02E+01	120	7	7
20.17477	27.51	6451.6	6451.8	0.43	1.01	0.0113	-0.0083	NM	1.68E+01	1.02E+01	120	7	7
20.22174	25.81	6642.5	6642.8	0.39	1.61	0.0086	-0.0087	NM	1.69E+01	1.03E+01	120	7	7
20.2695	25.24	6341.5	6343.4	0.4	10	0.008	-0.0087	NM	1.69E+01	1.03E+01	120	7	7
20.31526	26.41	6193.2	6193.5	0.43	1.61	0.0062	-0.0089	NM	1.69E+01	1.03E+01	120	7	7
20.36183	17.42	5908.3	5908.4	0.29	0.16	0.0042	-0.0091	NM	1.70E+01	1.03E+01	120	7	7
20.40598	17.13	5896.6	5896.9	0.29	1.61	0.0037	-0.0095	NM	1.70E+01	1.03E+01	120	7	7
20.45254	19.64	5927.4	5927.9	0.33	2.61	0.0031	-0.0099	NM	1.70E+01	1.04E+01	120	7	7
20.49669	18.34	5986.2	5986.9	0.31	3.81	0.0021	-0.0099	NM	1.71E+01	1.04E+01	120	7	7
20.54045	6.07	5986.2	5986.7	0.1	2.96	0.0017	-0.0095	NM	1.71E+01	1.04E+01	120	7	7
20.5846	3.14	6000.9	6001.6	0.05	4.16	0.0009	-0.01	NM	1.72E+01	1.04E+01	120	-99	7
20.62915	0.44	6064	6064.9	0.01	4.86	0	-0.0099	NM	1.72E+01	1.04E+01	120	-99	7
20.67291	0.15	6096.3	6097.2	0	4.76	0	-0.0096	NM	1.72E+01	1.04E+01	120	-99	7
20.71505	1.31	6125.6	6126.5	0.02	4.31	0.0009	-0.0097	NM	1.73E+01	1.05E+01	120	-99	7
20.7564	-14.84	6196.1	6198.4	-0.24	12.1	0.0001	-0.0096	NM	1.73E+01	1.05E+01	120	-99	7
20.79855	-9.85	6316.5	6318	-0.16	7.5	-0.0009	-0.0095	NM	1.73E+01	1.05E+01	120	-99	7
20.84069	-6.71	6481	6482.3	-0.1	6.96	0.0017	-0.0093	NM	1.74E+01	1.05E+01	120	-99	7
20.88123	-4.11	6604.3	6605.7	-0.06	7.11	0.0011	-0.0094	NM	1.74E+01	1.05E+01	120	-99	7
20.92097	-2.19	6830.4	6831.9	-0.03	7.7	0.001	-0.0096	NM	1.74E+01	1.05E+01	120	-99	7
20.96151	-0.56	6978.7	6980	-0.01	7.01	0.0012	-0.0098	NM	1.75E+01	1.06E+01	120	-99	7
21.00165	0.63	7062.4	7063.8	0.01	7.36	0.0011	-0.0096	NM	1.75E+01	1.06E+01	120	-99	7
21.0438	0.71	7187.2	7188.5	0.01	6.91	0.0009	-0.0093	NM	1.75E+01	1.06E+01	120	-99	7
21.08273	4.07	7270.9	7272.1	0.06	6.41	0.0013	-0.0094	NM	1.76E+01	1.06E+01	120	-99	7
21.08514	4.7	8322.4	8323.5	0.07	5.71	0.0013	-0.0094	NM	1.76E+01	1.06E+01	120	-99	7
21.15178	19.31	7256.2	7257.5	0.27	8.56	0.0014	-0.0095	NM	1.76E+01	1.06E+01	120	7	7
21.22202	30.18	7447.1	7449.1	0.41	10.75	0.0012	-0.0094	NM	1.77E+01	1.07E+01	120	7	7
21.29186	18.55	7756.9	7758.3	0.24	7.5	0.0014	-0.0092	NM	1.77E+01	1.07E+01	120	7	7
21.36171	12.08	8195.9	8197.5	0.15	8.3	-0.0288	-0.0358	NM	1.78E+01	1.07E+01	120	7	7
21.41629	12.43	7568.9	7571.6	0.16	13.65	-0.0442	-0.0491	NM	1.79E+01	1.07E+01	120	7	7
21.46404	12.8	7589.5	7591.3	0.17	9.6	-0.0496	-0.0495	NM	1.79E+01	1.08E+01	120	7	7

21.5146	16.9	7244.4	7244.8	0.23	2.01	-0.0598	-0.0498	NM	1.79E+01	1.08E+01	120	7	7
21.56597	28.01	6353.2	6353	0.44	-0.94	-0.0515	-0.0492	NM	1.80E+01	1.08E+01	120	7	7
21.61733	29.91	6163.8	6163.6	0.49	-0.99	-0.0112	-0.0143	NM	1.80E+01	1.08E+01	120	7	7
21.67151	25.65	6213.7	6213.5	0.41	-0.99	-0.0052	-0.0089	NM	1.81E+01	1.08E+01	120	7	7
21.72489	22.61	6203.5	6203.5	0.36	0.06	-0.007	-0.0092	NM	1.81E+01	1.09E+01	120	7	7
21.78187	17.62	5928.9	5929	0.3	0.36	-0.0056	-0.0095	NM	1.82E+01	1.09E+01	120	7	7
21.83645	16.7	5533.9	5533.7	0.3	-1.09	-0.0063	-0.0091	NM	1.82E+01	1.09E+01	120	7	7
21.88661	15.02	4924.6	4924.4	0.31	-1.19	-0.005	-0.0091	NM	1.82E+01	1.09E+01	120	7	7
21.93597	11.77	5015.7	5015.4	0.23	-1.34	-0.0043	-0.0089	NM	1.83E+01	1.09E+01	120	7	7
21.98774	3.28	5033.3	5033.1	0.07	-1.04	-0.005	-0.0087	NM	1.83E+01	1.10E+01	120	-99	7
22.0375	-14.21	4970.1	4970	-0.29	-0.79	-0.006	-0.0084	NM	1.84E+01	1.10E+01	120	-99	7
22.08927	-16.79	4958.4	4958.3	-0.34	-0.19	-0.0053	-0.0083	NM	1.84E+01	1.10E+01	120	-99	7
22.13943	-16.39	5005.4	5005.2	-0.33	-0.64	-0.0047	-0.0086	NM	1.85E+01	1.10E+01	120	-99	7
22.1904	-15.22	4996.6	4996.4	-0.3	-0.79	-0.0037	-0.0086	NM	1.85E+01	1.10E+01	120	-99	7
22.23815	-13.79	5011.2	5011.3	-0.28	0.26	-0.0026	-0.0084	NM	1.85E+01	1.11E+01	120	-99	7
22.28069	-13.16	5014.2	5014.4	-0.26	1.31	-0.0017	-0.0085	NM	1.86E+01	1.11E+01	120	-99	7
22.32162	-12.67	5014.2	5014.1	-0.25	-0.29	-0.0012	-0.0087	NM	1.86E+01	1.11E+01	120	-99	7
22.36817	-12.35	5381.2	5381.4	-0.23	0.66	-0.0009	-0.0087	NM	1.86E+01	1.11E+01	120	-99	7
22.44041	-10.94	5247.6	5247.5	-0.21	-0.74	0.0015	-0.0075	NM	1.87E+01	1.11E+01	120	-99	7
22.50903	-7.91	5186	5185.8	-0.15	-0.84	0.0013	-0.0079	NM	1.88E+01	1.12E+01	120	-99	7
22.58287	-0.49	5158.1	5157.9	-0.01	-0.69	0.0028	-0.0077	NM	1.88E+01	1.12E+01	120	-99	7
22.6551	-4.43	5158.1	5157.9	-0.09	-0.89	0.0031	-0.0074	NM	1.89E+01	1.12E+01	120	-99	7
22.72613	-6.23	5124.3	5124.1	-0.12	-1.04	0.0044	-0.0068	NM	1.89E+01	1.13E+01	120	-99	7
22.77429	-6.57	5072.9	5072.6	-0.13	-1.54	0.0041	-0.0073	NM	1.90E+01	1.13E+01	120	-99	7
22.80559	-20.18	5090.5	5090.3	-0.4	-1.19	0.004	-0.0074	NM	1.90E+01	1.13E+01	120	-99	7
22.83649	-20.07	5141.9	5141.7	-0.39	-1.19	0.0042	-0.0071	NM	1.90E+01	1.13E+01	120	-99	7
22.86779	-19.93	5087.6	5087.3	-0.39	-1.29	0.0017	-0.0071	NM	1.91E+01	1.13E+01	120	-99	7
22.8999	-19.74	4986.3	4986	-0.4	-1.64	0.0009	-0.0074	NM	1.91E+01	1.13E+01	120	-99	7
22.93401	-19.43	4776.3	4776	-0.41	-1.79	-0.0001	-0.0067	NM	1.91E+01	1.13E+01	120	-99	7
22.9641	-18.8	4808.6	4808.3	-0.39	-1.79	-0.0013	-0.0074	NM	1.91E+01	1.14E+01	120	-99	7
22.99821	-18.07	4877.6	4877.6	-0.37	-0.29	-0.0019	-0.0074	NM	1.92E+01	1.14E+01	120	-99	7
23.03152	-17.09	4989.2	4988.9	-0.34	-1.84	-0.0021	-0.0073	NM	1.92E+01	1.14E+01	120	-99	7
23.06724	-16.08	4907	4907	-0.33	0.21	-0.0016	-0.0075	NM	1.92E+01	1.14E+01	120	-99	7
23.12302	-15.51	5163.9	5163.6	-0.3	-1.54	-0.001	-0.0071	NM	1.93E+01	1.14E+01	120	-99	7
23.13305	-15.41	5602.9	5603.4	-0.27	2.46	-0.001	-0.0071	NM	1.93E+01	1.14E+01	120	-99	7
23.20127	-14.61	5673.4	5673.7	-0.28	1.56	-0.0003	-0.0069	NM	1.93E+01	1.15E+01	120	-99	7
23.27351	-12.57	5760	5760.5	-0.22	2.26	0.0032	-0.0066	NM	1.94E+01	1.15E+01	120	-99	7
23.34253	-10.04	5952.4	5952.9	-0.17	2.56	0.0034	-0.0067	NM	1.95E+01	1.15E+01	120	-99	7
23.41236	-3.65	6231.3	6232.1	-0.06	3.66	0.004	-0.0063	NM	1.95E+01	1.15E+01	120	-99	7
23.48379	-0.47	6467.7	6468.4	-0.01	3.81	0.0035	-0.0072	NM	1.96E+01	1.16E+01	120	-99	7
23.55602	3.81	6620.4	6621	0.06	2.81	0.0044	-0.0066	NM	1.96E+01	1.16E+01	120	-99	7
23.62344	12.31	6855.4	6856.2	0.18	4.26	0.0072	-0.0068	NM	1.97E+01	1.16E+01	120	7	7
23.68083	10.57	8057.8	8058	0.13	0.81	0.0128	-0.0061	NM	1.97E+01	1.16E+01	120	7	7
23.71695	9	7817.1	7817.1	0.12	0.11	0.0109	-0.0063	NM	1.98E+01	1.17E+01	120	7	7
23.75025	7.86	7737.8	7737.8	0.1	-0.84	0.0124	-0.0062	NM	1.98E+01	1.17E+01	120	7	7
23.78678	13.18	7554.2	7554	0.17	-1.24	0.0135	-0.0065	NM	1.98E+01	1.17E+01	120	7	7
23.82851	11.71	7488.2	7488	0.16	-1.04	0.0128	-0.0058	NM	1.99E+01	1.17E+01	120	7	7
23.87345	11.84	7652.6	7652.5	0.15	-0.84	0.0161	-0.0047	NM	1.99E+01	1.17E+01	120	7	7
23.92362	8.56	7812.6	7812.4	0.11	-1.24	0.0183	-0.006	NM	1.99E+01	1.17E+01	120	7	7
23.97378	7.59	7847.9	7847.8	0.1	-0.59	0.021	-0.0061	NM	2.00E+01	1.18E+01	120	-99	7
24.00488	6.84	7554.2	7553.8	0.09	-2.14	0.0211	-0.0062	NM	2.00E+01	1.18E+01	120	-99	7
24.03999	7.44	7718.7	7718.3	0.1	-1.84	0.0069	-0.0064	NM	2.00E+01	1.18E+01	120	-99	7

24.103	7.94	7919.8	7921.5	0.1	8.55	0.0062	-0.0065	NM	2.01E+01	1.18E+01	120	7	7
24.13711	9.13	8006.5	8006.1	0.11	-1.74	0.0073	-0.0061	NM	2.01E+01	1.18E+01	120	7	7
24.17001	9.95	8057.8	8058.4	0.12	3.06	0.0088	-0.006	NM	2.01E+01	1.18E+01	120	7	7
24.20573	10.86	8043.2	8043	0.14	-0.59	0.0091	-0.0059	NM	2.02E+01	1.19E+01	120	7	7
24.23944	11.25	8159.2	8159.2	0.14	0.26	0.0092	-0.0059	NM	2.02E+01	1.19E+01	120	7	7
24.24708	11.34	7218	7217.7	0.16	-1.54	0.0092	-0.0058	NM	2.02E+01	1.19E+01	120	7	7
24.28278	11.6	7403	7403.1	0.16	0.71	0.0075	-0.0055	NM	2.02E+01	1.19E+01	120	7	7
24.31368	11.61	7444.1	7444	0.16	-0.89	0.0099	-0.0051	NM	2.03E+01	1.19E+01	120	7	7
24.34378	11.61	7499.9	7499.5	0.15	-2.09	0.0126	-0.0048	NM	2.03E+01	1.19E+01	120	7	7
24.38832	12.24	7632.1	7631.8	0.16	-1.44	0.0165	-0.0035	NM	2.03E+01	1.19E+01	120	7	7
24.42043	14.38	7680.5	7680.2	0.19	-1.69	0.0195	-0.0027	NM	2.04E+01	1.19E+01	120	7	7
24.46457	16.63	7570.4	7571.8	0.22	7.06	0.029	0.0003	NM	2.04E+01	1.20E+01	120	7	7
24.50911	17.03	7683.4	7683.3	0.22	-0.84	0.0309	0.0007	NM	2.04E+01	1.20E+01	120	7	7
24.55286	18.45	7680.5	7680.3	0.24	-0.84	0.031	-0.0006	NM	2.05E+01	1.20E+01	120	7	7
24.597	18.6	7822.9	7823	0.24	0.46	0.0237	-0.0014	NM	2.05E+01	1.20E+01	120	7	7
24.64194	19.51	7853.8	7853.7	0.25	-0.34	0.0214	-0.0009	NM	2.05E+01	1.20E+01	120	7	7
24.68529	21.48	7893.4	7893.3	0.27	-0.29	0.0192	0	NM	2.06E+01	1.20E+01	120	7	7
24.74466	21.63	7541.1	7541.8	0.29	3.72	0.0164	-0.0016	NM	2.06E+01	1.21E+01	120	7	7
24.79079	12.6	7636.6	7637.2	0.16	3.12	0.014	-0.002	NM	2.07E+01	1.21E+01	120	7	7
24.83212	20.97	7524.9	7525.1	0.28	1.02	0.0111	-0.0037	NM	2.07E+01	1.21E+01	120	7	7
24.87224	20.25	7604.3	7604.5	0.27	0.87	0.0119	-0.0052	NM	2.07E+01	1.21E+01	120	7	7
24.91116	17.4	7764.4	7765	0.22	2.77	-0.0485	-0.0436	NM	2.08E+01	1.21E+01	120	7	7
24.96492	11.77	7707.1	7707	0.15	-0.83	-0.0592	-0.0499	NM	2.08E+01	1.22E+01	120	7	7
25.01988	3.14	7961.3	7961.6	0.04	1.17	-0.0573	-0.0495	NM	2.09E+01	1.22E+01	120	-99	7
25.06241	3.93	7998.1	7998.1	0.05	0.02	-0.0543	-0.0499	NM	2.09E+01	1.22E+01	120	-99	7
25.09611	6.58	8034.8	8034.8	0.08	0.07	-0.0577	-0.0499	NM	2.09E+01	1.22E+01	120	-99	7
25.10454	7.28	7711.5	7711.6	0.09	0.07	-0.0583	-0.0498	NM	2.09E+01	1.22E+01	120	-99	7
25.13784	10.24	8084.8	8084.9	0.13	0.77	-0.0606	-0.0496	NM	2.10E+01	1.22E+01	120	7	7
25.17154	15.87	8028.9	8029.2	0.2	1.32	-0.0626	-0.0499	NM	2.10E+01	1.22E+01	120	7	7
25.20363	11.87	8124.4	8124.4	0.15	-0.13	-0.0632	-0.0499	NM	2.10E+01	1.23E+01	120	7	7
25.23653	-17.28	8328.7	8328.8	-0.21	0.47	-0.0234	-0.0236	NM	2.10E+01	1.23E+01	120	-99	7
25.26702	-16.63	8103.9	8104.1	-0.21	1.52	0.001	-0.0072	NM	2.11E+01	1.23E+01	120	-99	7
25.31236	-14.81	7666	7665.5	-0.19	-2.43	-0.0128	-0.0195	NM	2.11E+01	1.23E+01	120	-99	7
25.34446	-12.07	7056.2	7055.8	-0.17	-2.18	-0.0152	-0.0207	NM	2.11E+01	1.23E+01	120	-99	7
25.37816	-8.13	6968.1	6967.7	-0.12	-2.08	-0.0152	-0.019	NM	2.12E+01	1.23E+01	120	-99	7
25.41427	-1.96	7159.1	7158.7	-0.03	-2.08	-0.015	-0.0183	NM	2.12E+01	1.23E+01	120	-99	7
25.44917	1.96	7323.6	7323.1	0.03	-2.68	-0.0137	-0.0186	NM	2.12E+01	1.24E+01	120	-99	7
25.48247	-2.38	7505.8	7505.4	-0.03	-2.38	-0.0076	-0.0098	NM	2.12E+01	1.24E+01	120	-99	7
25.51778	-0.79	7699.8	7699.4	-0.01	-2.18	-0.0098	-0.0093	NM	2.13E+01	1.24E+01	120	-99	7
25.55108	0.62	7829.1	7828.7	0.01	-2.08	-0.0085	-0.0096	NM	2.13E+01	1.24E+01	120	-99	7
25.59962	1.58	7498.5	7498.2	0.02	-1.53	-0.0077	-0.0096	NM	2.13E+01	1.24E+01	120	-99	7
25.63734	-2.67	7572	7571.7	-0.04	-1.43	-0.0075	-0.0096	NM	2.14E+01	1.24E+01	120	-99	7
25.67706	1.22	7685.1	7684.8	0.02	-1.33	-0.0075	-0.0096	NM	2.14E+01	1.24E+01	120	-99	7
25.71437	3.57	7893.7	7893.6	0.05	-0.83	-0.0077	-0.0096	NM	2.14E+01	1.25E+01	120	-99	7
25.75569	14.08	7849.7	7849.5	0.18	-0.83	-0.0065	-0.0099	NM	2.15E+01	1.25E+01	120	7	7
25.78899	49.78	7592.5	7592.3	0.66	-1.43	-0.0068	-0.0097	NM	2.15E+01	1.25E+01	120	7	7
25.83674	-6.74	7069.4	7069.6	-0.1	0.77	-0.007	-0.01	NM	2.15E+01	1.25E+01	120	-99	7
25.86923	0.7	7176.7	7177	0.01	1.37	-0.0066	-0.0107	NM	2.16E+01	1.25E+01	120	-99	7
25.90293	3.49	7308.9	7308.9	0.05	-0.03	-0.0081	-0.0137	NM	2.16E+01	1.25E+01	120	-99	7
25.93423	9.85	7450	7450.1	0.13	0.37	-0.008	-0.0164	NM	2.16E+01	1.25E+01	120	7	7
25.96673	18.41	7708.6	7708.8	0.24	0.22	-0.0092	-0.0205	NM	2.16E+01	1.26E+01	120	7	7
25.97676	21.33	7182.6	7182.4	0.3	-0.88	-0.01	-0.0221	NM	2.17E+01	1.26E+01	120	7	7

26.00685	-1.14	7620.4	7620.3	-0.01	-0.58	-0.0632	-0.0384	NM	2.17E+01	1.26E+01	120	-99	7
26.03814	-1.85	7821.7	7822	-0.02	1.22	-0.0719	-0.0441	NM	2.17E+01	1.26E+01	120	-99	7
26.07906	2.95	7943.7	7944	0.04	1.72	-0.0711	-0.0497	NM	2.17E+01	1.26E+01	120	-99	7
26.11838	2.96	8286.1	8286.6	0.04	3.07	-0.0712	-0.0492	NM	2.18E+01	1.26E+01	120	-99	7
26.11878	3.02	7279.6	7279.5	0.04	-0.38	-0.0712	-0.0492	NM	2.18E+01	1.26E+01	120	-99	7
26.14165	4.69	7057.7	7057.5	0.07	-1.23	-0.0704	-0.0491	NM	2.18E+01	1.26E+01	120	-99	7
26.18498	5.38	7482.3	7484.3	0.07	10.22	-0.069	-0.0496	NM	2.18E+01	1.26E+01	120	-99	7
26.21507	4.64	8259.6	8261.1	0.06	7.62	-0.0701	-0.0471	NM	2.19E+01	1.27E+01	120	-99	7
26.24877	-10.49	8446.2	8446	-0.12	-1.28	-0.0698	-0.0488	NM	2.19E+01	1.27E+01	120	-99	7
26.25078	-10.46	7783.5	7784.4	-0.13	4.67	-0.0698	-0.0489	NM	2.19E+01	1.27E+01	120	-99	7
26.25479	-10.41	7385.3	7386.6	-0.14	6.37	-0.0697	-0.049	NM	2.19E+01	1.27E+01	120	-99	7
26.29973	-12.35	8147.9	8148.8	-0.15	3.47	-0.0688	-0.0495	NM	2.19E+01	1.27E+01	120	-99	7
26.33543	-11.46	8443.3	8444.7	-0.14	7.57	-0.0681	-0.0494	NM	2.20E+01	1.27E+01	120	-99	7
26.34988	-9.72	7629.3	7630.7	-0.13	7.52	-0.0679	-0.0492	NM	2.20E+01	1.27E+01	120	-99	7
26.38599	-14.4	7980.4	7982.4	-0.18	10.27	-0.0673	-0.0489	NM	2.20E+01	1.27E+01	120	-99	7
26.41688	-10.09	8294.9	8298	-0.12	16.37	-0.0657	-0.0491	NM	2.20E+01	1.27E+01	120	-99	7
26.43092	-8	8043.6	8045.4	-0.1	9.12	-0.065	-0.0492	NM	2.20E+01	1.27E+01	120	-99	7
26.47585	-5.35	8230.2	8232.1	-0.06	9.67	-0.0659	-0.0493	NM	2.21E+01	1.28E+01	120	-99	7
26.52801	13.28	8197.9	8198.9	0.16	5.32	-0.0667	-0.0498	NM	2.21E+01	1.28E+01	120	7	7
26.56773	25.24	7934.9	7935.1	0.32	0.97	-0.0667	-0.0496	NM	2.21E+01	1.28E+01	120	7	7
26.57294	25.43	7567.6	7569.3	0.34	9.27	-0.0667	-0.0496	NM	2.21E+01	1.28E+01	120	7	7
26.61026	23.99	8127.4	8128.8	0.3	7.42	0.0006	-0.0061	NM	2.22E+01	1.28E+01	120	7	7
26.64436	21.36	8428.6	8430.8	0.25	11.57	0.0012	-0.0061	NM	2.22E+01	1.28E+01	120	7	7
26.67686	18.92	7868.8	7870.9	0.24	11.22	0.0013	-0.0062	NM	2.22E+01	1.28E+01	120	7	7
26.71176	16.84	7138.5	7138.4	0.24	-0.58	0.0009	-0.0066	NM	2.23E+01	1.29E+01	120	7	7
26.723	18.35	6928.9	6930	0.24	15.77	0.0007	-0.0066	NM	2.23E+01	1.29E+01	120	7	7
26.7567	14.22	7070.9	7072.4	0.2	7.82	0.0004	-0.0066	NM	2.23E+01	1.29E+01	120	7	7
26.79201	10.83	7070.9	7072.7	0.15	9.17	0.002	-0.006	NM	2.23E+01	1.29E+01	120	7	7
26.82771	9.52	7120.9	7121.6	0.13	3.77	0.0013	-0.0062	NM	2.24E+01	1.29E+01	120	7	7
26.86221	10.03	6683	6683.3	0.15	1.67	0.0015	-0.0063	NM	2.24E+01	1.29E+01	120	7	7
26.89912	7.58	6374.5	6374	0.12	-2.18	0.0026	-0.0061	NM	2.24E+01	1.29E+01	120	7	7
26.93363	6.43	6308.3	6308	0.1	-1.53	0.0024	-0.0058	NM	2.24E+01	1.29E+01	120	7	7
26.96934	8.2	6231.9	6232.7	0.1	3.82	0.0034	-0.0056	NM	2.25E+01	1.30E+01	120	-99	7
27.01066	3.73	6278.9	6278.9	0.06	0.02	0.0031	-0.0057	NM	2.25E+01	1.30E+01	120	-99	7
27.04196	1.46	6308.3	6308.9	0.02	2.97	0.0018	-0.0059	NM	2.25E+01	1.30E+01	120	-99	7
27.08251	-1.83	6280.4	6281.1	-0.03	3.47	0.0016	-0.0064	NM	2.26E+01	1.30E+01	120	-99	7
27.13704	-2.5	6298	6299.8	-0.04	8.92	0.0007	-0.0067	NM	2.26E+01	1.30E+01	120	-99	7
27.17596	-3.15	6215.8	6216.2	-0.05	2.42	0.0019	-0.0069	NM	2.27E+01	1.30E+01	120	-99	7
27.20966	-2.85	6023.3	6024.8	-0.05	7.67	0.0013	-0.0066	NM	2.27E+01	1.31E+01	120	-99	7
27.23975	-4.5	5829.3	5830.5	-0.08	6.12	0.0013	-0.0068	NM	2.27E+01	1.31E+01	120	-99	7
27.24296	-5.55	5454.7	5456.6	-0.1	9.97	0.0014	-0.0068	NM	2.27E+01	1.31E+01	120	-99	7
27.28107	-5.82	5451.7	5455.1	-0.1	17.72	0.001	-0.0067	NM	2.27E+01	1.31E+01	120	-99	7
27.31959	-5.44	5366.5	5367.7	-0.1	6.12	0.001	-0.0066	NM	2.28E+01	1.31E+01	120	-99	7
27.3561	-5.44	5326.8	5328.3	-0.1	7.57	0.0012	-0.0067	NM	2.28E+01	1.31E+01	120	-99	7
27.39782	-4.71	5250.4	5252.5	-0.09	10.72	0.0016	-0.0067	NM	2.28E+01	1.31E+01	120	-99	7
27.43554	-4.54	5160.8	5162.2	-0.09	7.42	0.0014	-0.0069	NM	2.29E+01	1.31E+01	120	-99	7
27.47485	-5.02	5124.1	5126	-0.1	10.07	0.0011	-0.007	NM	2.29E+01	1.32E+01	120	-99	7
27.51337	-5.21	5077	5078.5	-0.1	7.37	0.0007	-0.0066	NM	2.29E+01	1.32E+01	120	-99	7
27.55108	-5.63	5052.1	5053.8	-0.11	9.12	0.0008	-0.0065	NM	2.30E+01	1.32E+01	120	-99	7
27.58117	-6.03	5074.1	5076.2	-0.12	10.87	0.0013	-0.0066	NM	2.30E+01	1.32E+01	120	-99	7
27.5912	-6.15	4520.2	4522	-0.14	9.82	0.0016	-0.0067	NM	2.30E+01	1.32E+01	120	-99	7
27.63253	-6.87	4765.5	4767.1	-0.14	8.37	0.0009	-0.0067	NM	2.30E+01	1.32E+01	120	-99	7

27.67305	-7.72	4800.8	4802.4	-0.16	8.47	0.0009	-0.0067	NM	2.31E+01	1.32E+01	120	-99	7
27.70314	-8.23	4762.6	4764.1	-0.17	7.62	0.0005	-0.0067	NM	2.31E+01	1.33E+01	120	-99	7
27.74406	-8.64	4749.4	4751.5	-0.18	11.12	0.001	-0.0064	NM	2.31E+01	1.33E+01	120	-99	7
27.78499	-8.88	4720	4722.3	-0.19	11.97	0.0011	-0.0068	NM	2.32E+01	1.33E+01	120	-99	7
27.81508	-9	4686.2	4687.9	-0.19	8.72	0.0009	-0.0067	NM	2.32E+01	1.33E+01	120	-99	7
27.87205	-8.97	4753.8	4755.9	-0.19	11.17	0.0005	-0.0067	NM	2.32E+01	1.33E+01	120	-99	7
27.91738	-9.43	4745	4747	-0.2	10.32	0.0012	-0.0061	NM	2.33E+01	1.33E+01	120	-99	7
27.95991	-9.93	4743.5	4746	-0.21	12.82	0.0007	-0.0065	NM	2.33E+01	1.34E+01	120	-99	7
28.00648	-9.99	4551.8	4553.9	-0.22	11.52	0.0012	-0.0065	NM	2.33E+01	1.34E+01	120	-99	7
28.06311	-9.6	4644.1	4646	-0.21	9.68	0.0016	-0.0063	NM	2.34E+01	1.34E+01	120	-99	7
28.11531	-9.53	4695.5	4697.1	-0.2	8.33	0.0024	-0.006	NM	2.34E+01	1.34E+01	120	-99	7
28.17555	-12.23	4818.7	4820.9	-0.25	11.37	0.0028	-0.0061	NM	2.35E+01	1.34E+01	120	-99	7
28.2137	-12.01	4898	4900.2	-0.25	11.57	0.0032	-0.0061	NM	2.35E+01	1.35E+01	120	-99	7
28.24784	-11.66	4924.4	4926.8	-0.24	12.27	0.0035	-0.006	NM	2.35E+01	1.35E+01	120	-99	7
28.27956	-11.28	4942	4944	-0.23	10.27	0.004	-0.006	NM	2.36E+01	1.35E+01	120	-99	7
28.31048	-10.46	4933.2	4935.8	-0.21	13.27	0.0038	-0.0061	NM	2.36E+01	1.35E+01	120	-99	7
28.36751	-9.54	4903.8	4905.3	-0.19	7.48	0.0038	-0.0062	NM	2.36E+01	1.35E+01	120	-99	7
28.37354	-9.47	4468	4470.4	-0.21	12.87	0.0039	-0.0063	NM	2.36E+01	1.35E+01	120	-99	7
28.41209	-9.53	4782	4783.8	-0.2	9.78	0.0043	-0.0063	NM	2.37E+01	1.35E+01	120	-99	7
28.45265	-9.13	4783.5	4785.5	-0.19	10.22	0.0048	-0.0061	NM	2.37E+01	1.36E+01	120	-99	7
28.49281	-8.73	4811.4	4812.8	-0.18	7.48	0.0048	-0.0058	NM	2.37E+01	1.36E+01	120	-99	7
28.49843	-8.75	4503.2	4507	-0.19	19.58	0.0048	-0.0058	NM	2.38E+01	1.36E+01	120	-99	7
28.53136	-9.26	4785	4788	-0.19	15.42	0.0055	-0.0055	NM	2.38E+01	1.36E+01	120	-99	7
28.56228	-10.39	4834.9	4837.5	-0.21	13.67	0.0058	-0.0055	NM	2.38E+01	1.36E+01	120	-99	7
28.62292	-10.34	4920	4922.4	-0.21	12.77	0.0055	-0.0059	NM	2.39E+01	1.36E+01	120	-99	7
28.67915	-9.42	5037.4	5039.9	-0.19	13.07	0.007	-0.0058	NM	2.39E+01	1.36E+01	120	-99	7
28.73818	-7.05	5137.2	5139.9	-0.14	13.97	0.0053	-0.0056	NM	2.40E+01	1.37E+01	120	-99	7
28.7683	-8.25	5179.7	5182.2	-0.16	12.62	0.0053	-0.0057	NM	2.40E+01	1.37E+01	120	-99	7
28.82773	-7.09	5292.7	5295.4	-0.13	13.97	-0.0048	-0.0172	NM	2.40E+01	1.37E+01	120	-99	7
28.87552	-4.91	5065.3	5065.8	-0.1	2.94	-0.0156	-0.0269	NM	2.41E+01	1.37E+01	120	-99	7
28.88717	-4.22	5232.6	5234.3	-0.08	9.13	-0.0128	-0.0252	NM	2.41E+01	1.37E+01	120	-99	7
28.92813	0.14	5276.6	5278.7	0	10.97	-0.0539	-0.0497	NM	2.41E+01	1.37E+01	120	-99	7
28.96568	5.47	5297.1	5299.3	0.1	11.42	-0.0514	-0.0498	NM	2.41E+01	1.38E+01	120	7	7
29.00383	-5.89	5301.5	5304.7	-0.11	16.27	-0.0497	-0.0493	NM	2.42E+01	1.38E+01	120	-99	7
29.03938	-6.73	5417.5	5419.7	-0.12	11.52	-0.0386	-0.0472	NM	2.42E+01	1.38E+01	120	-99	7
29.07833	-9.51	5487.9	5490	-0.17	10.97	-0.043	-0.0488	NM	2.42E+01	1.38E+01	120	-99	7
29.1213	-8.27	5352.9	5354.6	-0.15	8.98	-0.0436	-0.0494	NM	2.43E+01	1.38E+01	120	-99	7
29.15945	0.69	5496.7	5499	0.01	11.77	-0.0446	-0.0495	NM	2.43E+01	1.38E+01	120	-99	7
29.1968	-12.49	5647.9	5650.7	-0.22	14.87	-0.0458	-0.0494	NM	2.43E+01	1.39E+01	120	-99	7
29.23776	-10.24	5802	5804.9	-0.18	15.27	-0.0442	-0.0496	NM	2.44E+01	1.39E+01	120	-99	7
29.27792	-7.87	6019.2	6022.6	-0.13	17.88	-0.0342	-0.0477	NM	2.44E+01	1.39E+01	120	-99	7
29.31768	-6.8	6099.9	6103.1	-0.11	16.96	-0.0299	-0.0429	NM	2.44E+01	1.39E+01	120	-99	7
29.35101	-4.67	6854.2	6858.2	-0.07	21.11	-0.0279	-0.0375	NM	2.45E+01	1.39E+01	120	-99	7
29.40482	2.53	7005.3	7005.7	0.04	2.14	-0.0271	-0.0316	NM	2.45E+01	1.39E+01	120	-99	7
29.42731	0.31	6569.5	6571.7	0	11.67	-0.0357	-0.0379	NM	2.45E+01	1.39E+01	120	-99	7
29.47229	-1.26	6747	6747.6	-0.02	2.79	-0.0424	-0.0433	NM	2.46E+01	1.40E+01	120	-99	7
29.52168	0.72	6538.6	6539.6	0.01	4.73	-0.0392	-0.0395	NM	2.46E+01	1.40E+01	120	-99	7
29.59076	2.16	6390.4	6393.5	0.03	16.12	-0.0089	-0.0083	NM	2.47E+01	1.40E+01	120	-99	7
29.6273	3.18	6565.1	6565.5	0.05	2.09	-0.0077	-0.0079	NM	2.47E+01	1.40E+01	120	-99	7
29.66144	6.85	6675.1	6676.7	0.1	8.28	-0.0068	-0.0075	NM	2.47E+01	1.40E+01	120	7	7
29.7012	10.21	6788.1	6790.3	0.15	11.22	-0.007	-0.0074	NM	2.48E+01	1.41E+01	120	7	7
29.73533	10.41	6814.5	6817.2	0.15	14.02	-0.0071	-0.0073	NM	2.48E+01	1.41E+01	120	7	7

29.78513	13.09	6456.5	6458.1	0.2	6.53	-0.005	-0.007	NM	2.48E+01	1.41E+01	120	7	7
29.82167	14.12	6528.4	6529.6	0.22	6.48	-0.0038	-0.0069	NM	2.49E+01	1.41E+01	120	7	7
29.86304	14.86	6488.8	6490	0.23	6.33	-0.0038	-0.0068	NM	2.49E+01	1.41E+01	120	7	7
29.90038	12.58	6383.1	6383.5	0.2	2.29	-0.0034	-0.0067	NM	2.49E+01	1.41E+01	120	7	7
29.93894	10.96	6387.5	6388.3	0.17	4.23	-0.0017	-0.0065	NM	2.50E+01	1.41E+01	120	7	7
29.97187	10.91	6177.6	6181.1	0.18	18.06	-0.0007	-0.0064	NM	2.50E+01	1.42E+01	120	7	7
30.00359	12.86	6003	6004.7	0.21	8.88	-0.001	-0.0065	NM	2.50E+01	1.42E+01	120	7	7
30.03813	14.02	5724.2	5724.8	0.24	3.24	-0.0002	-0.0069	NM	2.50E+01	1.42E+01	120	7	7
30.07086	13.99	5555.4	5557.6	0.25	11.07	0.0004	-0.0071	NM	2.51E+01	1.42E+01	120	7	7
30.10078	14.44	5338.2	5338.2	0.27	-0.11	0.0002	-0.0071	NM	2.51E+01	1.42E+01	120	7	7
30.1309	15.75	5091.7	5091.7	0.31	-0.06	0.0001	-0.0071	NM	2.51E+01	1.42E+01	120	7	7
30.17065	15.21	5166.5	5172.3	0.29	29.89	-0.0003	-0.0073	NM	2.51E+01	1.42E+01	120	7	7
30.20118	14.48	4826.1	4829.4	0.3	17.51	-0.0003	-0.0073	NM	2.52E+01	1.43E+01	120	7	7
30.23491	11.16	5192.9	5193	0.21	0.34	0	-0.0069	NM	2.52E+01	1.43E+01	120	7	7
30.27025	10.39	5137.2	5138	0.2	4.03	-0.0007	-0.007	NM	2.52E+01	1.43E+01	120	7	7
30.31121	11.67	5151.9	5152.5	0.23	3.43	-0.0009	-0.0071	NM	2.53E+01	1.43E+01	120	7	7
30.35137	8.88	5090.2	5091.7	0.17	7.48	-0.0004	-0.0071	NM	2.53E+01	1.43E+01	120	7	7
30.39675	1.39	4944.9	4945.4	0.03	2.49	0.0001	-0.0069	NM	2.53E+01	1.43E+01	120	-99	7
30.4349	1.18	5125.4	5126.5	0.02	5.63	0	-0.0069	NM	2.54E+01	1.43E+01	120	-99	7
30.47064	1.61	4702.8	4704.4	0.03	8.43	-0.0003	-0.0071	NM	2.54E+01	1.44E+01	120	-99	7
30.50839	1.94	4569.2	4571	0.04	8.93	-0.0011	-0.0073	NM	2.54E+01	1.44E+01	120	-99	7
30.55016	2.73	4537	4538.1	0.06	5.98	-0.0018	-0.0074	NM	2.55E+01	1.44E+01	120	-99	7
30.58309	2.85	4497.3	4498.9	0.06	8.13	-0.0018	-0.0073	NM	2.55E+01	1.44E+01	120	-99	7
30.62184	2.11	4347.7	4351.1	0.05	17.81	-0.0014	-0.0073	NM	2.55E+01	1.44E+01	120	-99	7
30.65698	2.2	4321.2	4322.9	0.05	8.48	-0.0012	-0.0075	NM	2.56E+01	1.44E+01	120	-99	7
30.69393	2.45	4228.8	4229.7	0.06	4.63	-0.0011	-0.0075	NM	2.56E+01	1.44E+01	120	-99	7
30.70879	2.52	4293.4	4296.6	0.06	16.86	-0.001	-0.0075	NM	2.56E+01	1.45E+01	120	-99	7
30.75457	3.24	4627.9	4631.6	0.07	19.11	-0.001	-0.0075	NM	2.56E+01	1.45E+01	120	-99	7
30.80155	2.97	4360.9	4361.2	0.07	1.79	-0.0004	-0.0075	NM	2.57E+01	1.45E+01	120	-99	7
30.85015	2.23	4645.6	4648.1	0.05	13.12	0	-0.0075	NM	2.57E+01	1.45E+01	120	-99	7
30.89673	-6.08	4495.9	4496.4	-0.14	2.89	0.0007	-0.0074	NM	2.58E+01	1.45E+01	120	-99	7
30.94412	-7.06	4465.1	4472	-0.16	35.79	0.0001	-0.0074	NM	2.58E+01	1.45E+01	120	-99	7
30.97665	-7.25	4682.2	4683.9	-0.15	8.73	-0.0001	-0.0079	NM	2.58E+01	1.46E+01	120	-99	7
31.02042	-6.9	4572.2	4573.1	-0.15	4.63	-0.0003	-0.0079	NM	2.59E+01	1.46E+01	120	-99	7
31.06299	-6.35	4632.3	4633.8	-0.14	7.38	-0.0012	-0.008	NM	2.59E+01	1.46E+01	120	-99	7
31.10114	-5.87	4512	4513	-0.13	5.13	-0.0518	-0.0357	NM	2.59E+01	1.46E+01	120	-99	7
31.13648	-5.47	4682.2	4683.7	-0.12	7.33	-0.0514	-0.0438	NM	2.60E+01	1.46E+01	120	-99	7
31.17343	-4.95	4625	4625.9	-0.11	4.83	-0.0505	-0.0471	NM	2.60E+01	1.46E+01	120	-99	7
31.20756	-4.77	4682.2	4684.3	-0.1	10.47	-0.0512	-0.0488	NM	2.60E+01	1.47E+01	120	-99	7
31.2429	-4.94	4958.1	4961.9	-0.1	19.51	-0.0504	-0.049	NM	2.60E+01	1.47E+01	120	-99	7
31.29872	-5.48	5087.3	5091.1	-0.11	19.81	-0.0503	-0.0494	NM	2.61E+01	1.47E+01	120	-99	7
31.33844	-4.88	4887.7	4891.1	-0.1	17.86	-0.0498	-0.0495	NM	2.61E+01	1.47E+01	120	-99	7
31.38698	-8.21	4969.9	4972.7	-0.17	14.62	-0.0449	-0.0494	NM	2.62E+01	1.47E+01	120	-99	7
31.43712	-10.08	5055	5057.3	-0.2	11.72	-0.0228	-0.0375	NM	2.62E+01	1.47E+01	120	-99	7
31.48887	-11.22	5104.9	5107.3	-0.22	12.22	-0.0322	-0.0406	NM	2.62E+01	1.48E+01	120	-99	7
31.53821	-11.78	5144.5	5146.9	-0.23	12.47	-0.0131	-0.0218	NM	2.63E+01	1.48E+01	120	-99	7
31.58916	-11.04	5187.1	5189.2	-0.21	10.77	-0.0144	-0.0234	NM	2.63E+01	1.48E+01	120	-99	7
31.64452	-9.93	5226.7	5229.1	-0.19	12.62	-0.0036	-0.0121	NM	2.64E+01	1.48E+01	120	-99	7
31.69426	-9.13	5285.4	5287.8	-0.17	12.52	-0.0028	-0.0112	NM	2.64E+01	1.48E+01	120	-99	7
31.73678	-16.02	5593.6	5597.5	-0.29	20.16	-0.0028	-0.0118	NM	2.65E+01	1.49E+01	120	-99	7
31.80819	-20.67	5612.6	5615.9	-0.37	16.76	-0.0027	-0.012	NM	2.65E+01	1.49E+01	120	-99	7
31.88601	-20.58	5600.9	5603.2	-0.37	11.67	-0.002	-0.0104	NM	2.66E+01	1.49E+01	120	-99	7

31.95661	-18.03	5593.8	5596.3	-0.32	14.07	0.0024	-0.0053	NM	2.66E+01	1.50E+01	120	-99	7
32.03965	-22.62	5416	5417.2	-0.42	5.98	0.0034	-0.0048	NM	2.67E+01	1.50E+01	120	-99	7
32.11226	-22.1	5715.4	5716.8	-0.39	7.43	0.0041	-0.005	NM	2.68E+01	1.50E+01	120	-99	7
32.19128	-22.55	5855.2	5856.7	-0.4	7.58	0.0044	-0.0047	NM	2.68E+01	1.50E+01	120	-99	7
32.26389	-20.06	5643.5	5644.7	-0.36	6.48	0.0044	-0.0046	NM	2.69E+01	1.51E+01	120	-99	7
32.36739	-16.38	5835.7	5837.7	-0.28	10.37	0	0	NM	2.70E+01	1.51E+01	120	-99	7
32.4436	-18.32	5772.6	5774.7	-0.32	10.57	0	0	NM	2.70E+01	1.51E+01	120	-99	7
32.48291	-18.84	5680.2	5683.2	-0.33	15.57	0	0	NM	2.71E+01	1.52E+01	120	-99	7
32.53888	-18.46	5672.8	5674.1	-0.33	6.73	0	0	NM	2.71E+01	1.52E+01	120	-99	7
32.59122	-17.5	5646.4	5649.8	-0.31	17.41	0	0	NM	2.72E+01	1.52E+01	120	-99	7
32.65019	-16.19	5631.7	5632.7	-0.29	5.28	0	0	NM	2.72E+01	1.52E+01	120	-99	7
32.70395	-15.04	5614.1	5615.4	-0.27	6.83	0	0	NM	2.73E+01	1.53E+01	120	-99	7
32.76412	-13.35	5556.9	5557.8	-0.24	4.73	0	0	NM	2.73E+01	1.53E+01	120	-99	7
32.7942	-12.36	5558.3	5560.5	-0.22	11.22	0	0	NM	2.73E+01	1.53E+01	120	-99	7
32.82549	-11.28	5460	5462	-0.21	10.42	0	0	NM	2.74E+01	1.53E+01	120	-99	7
32.8632	-9.8	5476.2	5478.1	-0.18	9.78	0	0	NM	2.74E+01	1.53E+01	120	-99	7
32.8981	-8.51	5474.7	5476.1	-0.18	7.43	0	0	NM	2.74E+01	1.53E+01	120	-99	7
32.93701	-7.13	5441	5441.9	-0.13	4.88	0	0	NM	2.75E+01	1.53E+01	120	-99	7
32.97191	-5.82	5443.9	5445.1	-0.11	6.38	0	0	NM	2.75E+01	1.54E+01	120	-99	7
33.01082	-4.7	5439.5	5440.4	-0.09	4.78	0	0	NM	2.75E+01	1.54E+01	120	-99	7
33.04612	-11.98	5430.7	5431.9	-0.22	6.53	0	0	NM	2.75E+01	1.54E+01	120	-99	7
33.08423	-11.58	5398.4	5399.8	-0.21	7.53	0	0	NM	2.76E+01	1.54E+01	120	-99	7
33.11793	-10.95	5401.3	5402.8	-0.2	7.78	0	0	NM	2.76E+01	1.54E+01	120	-99	7
33.15764	-10.29	5376.4	5377.4	-0.19	5.03	0	0	NM	2.76E+01	1.54E+01	120	-99	7
33.19374	-10.12	5310.3	5311.8	-0.19	7.73	0	0	NM	2.77E+01	1.54E+01	120	-99	7
33.23025	-9.75	5288.3	5290.3	-0.18	10.32	0	0	NM	2.77E+01	1.55E+01	120	-99	7
33.26595	-9.37	5269.3	5271.5	-0.18	11.52	0	0	NM	2.77E+01	1.55E+01	120	-99	7
33.30366	-8.94	5259	5261.9	-0.17	15.27	0	0	NM	2.78E+01	1.55E+01	120	-99	7
33.33816	-8.63	5242.8	5245	-0.16	11.42	0	0	NM	2.78E+01	1.55E+01	120	-99	7
33.37827	-7.87	5232.6	5234.2	-0.15	8.63	0	0	NM	2.78E+01	1.55E+01	120	-99	7
33.42721	-7.27	5077	5078.2	-0.14	8.33	0	0	NM	2.79E+01	1.55E+01	120	-99	7
33.46773	-7.28	5106.4	5108.2	-0.14	9.73	0	0	NM	2.79E+01	1.56E+01	120	-99	7
33.50343	-6.86	5119.6	5121.7	-0.13	11.17	0	0	NM	2.79E+01	1.56E+01	120	-99	7
33.54314	-6.12	5135.7	5137.6	-0.12	9.68	0	0	NM	2.80E+01	1.56E+01	120	-99	7
33.57804	-5.37	5159.2	5161.7	-0.1	13.22	0	0	NM	2.80E+01	1.56E+01	120	-99	7
33.61976	-4.29	5194.4	5197	-0.08	13.57	0	0	NM	2.80E+01	1.56E+01	120	-99	7
33.65747	-3.26	5256	5258.8	-0.06	14.32	0	0	NM	2.81E+01	1.56E+01	120	-99	7
33.69999	-2.52	5330.9	5333.5	-0.05	13.72	0	0	NM	2.81E+01	1.57E+01	120	-99	7
33.7389	-2.04	5442.4	5445.2	-0.04	14.37	0	0	NM	2.81E+01	1.57E+01	120	-99	7
33.78303	-1.39	5556.9	5559.8	-0.02	14.87	0	0	NM	2.82E+01	1.57E+01	120	-99	7
33.82355	-1.11	5627.3	5629.5	-0.02	11.12	0	0	NM	2.82E+01	1.57E+01	120	-99	7
33.86727	-3.54	5752.1	5754.8	-0.06	14.32	0	0	NM	2.82E+01	1.57E+01	120	-99	7
33.90859	-8.54	5846	5849.3	-0.15	17.21	0	0	NM	2.83E+01	1.57E+01	120	-99	7
33.95151	-7.87	5991.3	5994.3	-0.13	15.77	0	0	NM	2.83E+01	1.58E+01	120	-99	7
33.99243	-6.94	6023.6	6026.1	-0.12	13.07	0	0	NM	2.83E+01	1.58E+01	120	-99	7
34.03696	-5.14	6107.2	6109.8	-0.08	13.62	0	0	NM	2.84E+01	1.58E+01	120	-99	7
34.07687	-3.51	6136.6	6140.1	-0.06	18.11	0	0	NM	2.84E+01	1.58E+01	120	-99	7
34.1204	-2.1	6185	6187.6	-0.03	13.57	0	0	NM	2.84E+01	1.58E+01	120	-99	7
34.16091	-0.08	6237.8	6240.3	0	12.72	0	0	NM	2.85E+01	1.58E+01	120	-99	7
34.20343	2.5	6320	6322.1	0.04	10.82	0	0	NM	2.85E+01	1.59E+01	120	-99	7
34.23633	31.14	6258.4	6261.3	0.5	15.27	0	0	NM	2.85E+01	1.59E+01	120	7	7
34.27042	0	6375.8	6378.5	0	14.27	0	0	NM	2.86E+01	1.59E+01	120	-99	7

34.30252	0	6478.5	6481.4	0	14.97	0	0	NM	2.86E+01	1.59E+01	120	-99	7
34.34022	0	6547.5	6549.9	0	12.42	0	0	NM	2.86E+01	1.59E+01	120	-99	7
34.37231	0	6810.6	6813.7	0	16.22	0	0	NM	2.86E+01	1.59E+01	120	-99	7
34.40681	0	6686.9	6690.2	0	17.46	0	0	NM	2.87E+01	1.59E+01	120	-99	7
34.43971	0	6830.7	6833.7	0	15.62	0	0	NM	2.87E+01	1.59E+01	120	-99	7
34.47541	0	7064	7067.5	0	18.06	0	0	NM	2.87E+01	1.60E+01	120	-99	7
34.5083	0	7410.4	7414	0	19.06	0	0	NM	2.88E+01	1.60E+01	120	-99	7
34.5436	0	8000.3	8004.7	0	22.71	0	0	NM	2.88E+01	1.60E+01	120	-99	7
34.58332	0	8892.5	8896.7	0	21.36	0	0	NM	2.88E+01	1.60E+01	120	-99	7
34.58335	0	9556.8	9560.4	0	18.77	0	0	NM	2.88E+01	1.60E+01	120	-99	7
34.59018	0	9916.2	9918.7	0	12.58	0	0	NM	2.88E+01	1.60E+01	120	-99	7
34.59821	0	10401.9	10404.6	0	14.28	0	0	NM	2.88E+01	1.60E+01	120	-99	7
34.59981	0	9972	9974.4	0	12.38	0	0	NM	2.88E+01	1.60E+01	120	-99	7
34.60222	0	10063	10066.4	0	17.77	0	0	NM	2.88E+01	1.60E+01	120	-99	7

Electric Cone Penetrometer Data

Cone_TAP v 2.90

Test Id:	HD-08	Date:	3-Nov-03
Site:	SUNNYSIDE	Cone Id:	108.034XXX
Location:	QUEENS NY	GWT (ft):	5
Project:	ROUX	Soil Density(pcf):	120
Client:	ROUX		

Depth (ft)	Sleeve Stress (psi)	Tip Stress UNC (psi)	Tip Stress COR (psi)	Ratio COR (%)	Pore Pressure (psi)	LFFD (V)	HFFD (V)	Excitation (Vdc)	Overburden (psi)	Eff. Overburden (psi)	Wet Density (pcf)	Class. FR (Rob. 1990)	Class. PP (Rob. 1990)
0	0	0	0	0	0	0	0	NM	0.00E+00	0.00E+00	120	-99	-99
0.0008	0	143.3	143.3	0	0.06	0.0008	0.0006	NM	6.69E-04	6.69E-04	120	-99	-99
0.06093	0	428.3	428.3	0	0.06	0.0002	0.0011	NM	5.08E-02	5.08E-02	120	-99	-99
0.12186	0	565	565	0	0.06	-0.0003	0.0006	NM	1.02E-01	1.02E-01	120	-99	-99
0.17037	0	710.4	710.4	0	0.06	0.0001	0.0009	NM	1.42E-01	1.42E-01	120	-99	-99
0.22488	0	1151.2	1151.2	0	0.06	0.0004	0.0009	NM	1.87E-01	1.87E-01	120	-99	-99
0.27379	6.31	1173.3	1173.3	0.54	0.01	0.0006	0.0008	NM	2.28E-01	2.28E-01	120	-99	-99
0.3263	5.62	1039.6	1039.6	0.54	0.01	0.0009	0.0006	NM	2.72E-01	2.72E-01	120	-99	-99
0.374	3.92	1333.4	1333.4	0.29	0.01	0.0011	0.0009	NM	3.12E-01	3.12E-01	120	-99	-99
0.4209	3.72	1014.6	1014.6	0.37	0.01	0.0008	0.0007	NM	3.51E-01	3.51E-01	120	-99	-99
0.46901	12.02	1553.8	1553.8	0.77	0.01	0	0	NM	3.91E-01	3.91E-01	120	-99	-99
0.51751	4.62	2060.7	2060.7	0.22	0.01	-0.0011	-0.0002	NM	4.31E-01	4.31E-01	120	-99	-99
0.57002	3.89	1142.4	1142.4	0.34	0.06	-0.0014	-0.0003	NM	4.75E-01	4.75E-01	120	-99	-99
0.61973	7.23	1165.9	1165.9	0.62	0.01	-0.004	-0.0032	NM	5.16E-01	5.16E-01	120	-99	-99
0.66863	4.43	1628.7	1628.8	0.27	0.06	-0.0119	-0.012	NM	5.57E-01	5.57E-01	120	-99	-99
0.71954	5.3	1730.1	1730.1	0.31	0.06	-0.0057	-0.0118	NM	6.00E-01	6.00E-01	120	-99	-99
0.77005	6.23	1771.3	1771.3	0.35	0.06	-0.0001	-0.0109	NM	6.42E-01	6.42E-01	120	-99	-99
0.82016	6.24	1284.9	1284.9	0.49	0.01	0.0028	-0.0108	NM	6.84E-01	6.84E-01	120	-99	-99
0.87187	8.15	1154.2	1154.2	0.71	0.01	0.0015	-0.011	NM	7.27E-01	7.27E-01	120	-99	-99
0.92278	9.47	1005.8	1005.8	0.94	0.01	0.0007	-0.0111	NM	7.69E-01	7.69E-01	120	-99	-99
0.97088	9.27	989.6	989.6	0.94	0.01	0.0002	-0.0112	NM	8.09E-01	8.09E-01	120	-99	-99
1.01979	11.31	999.9	999.9	1.13	0.06	0.0001	-0.0112	NM	8.50E-01	8.50E-01	120	-99	-99
1.07029	11.03	910.2	910.2	1.21	0.01	-0.0005	-0.0108	NM	8.92E-01	8.92E-01	120	-99	-99
1.1208	11.03	980.8	980.8	1.12	0.01	-0.0002	-0.0101	NM	9.34E-01	9.34E-01	120	-99	-99
1.17051	8.87	960.2	960.2	0.92	0.01	0.0012	-0.0091	NM	9.75E-01	9.75E-01	120	7	7
1.22062	7.49	948.5	948.5	0.79	0.01	0.0007	-0.0095	NM	1.02E+00	1.02E+00	120	7	7
1.26752	7.71	980.8	980.8	0.79	0.01	0.0061	-0.0083	NM	1.06E+00	1.06E+00	120	7	7
1.31963	8.54	888.2	888.2	0.96	0.01	0.0143	-0.0068	NM	1.10E+00	1.10E+00	120	6	7
1.36973	7.65	850	850	0.9	-0.05	0.002	-0.0146	NM	1.14E+00	1.14E+00	120	6	7
1.42225	8.72	917.6	917.6	0.95	0.01	0.0059	-0.0163	NM	1.19E+00	1.19E+00	120	6	7
1.47075	9.42	929.4	929.4	1.01	0.01	0.0107	-0.0159	NM	1.23E+00	1.23E+00	120	6	7
1.54288	9.62	805.9	805.9	1.19	0.06	0.0129	-0.0144	NM	1.29E+00	1.29E+00	120	6	7
1.59617	9.18	778	778	1.18	0.06	0.0138	-0.0148	NM	1.33E+00	1.33E+00	120	6	7
1.65587	7.55	645.8	645.8	1.17	0.1	0.0059	-0.0204	NM	1.38E+00	1.38E+00	120	6	7
1.71597	5.66	595.8	595.8	0.95	0.1	0.0029	-0.036	NM	1.43E+00	1.43E+00	120	6	7
1.77887	4.01	513.5	513.6	0.78	0.16	0.035	-0.0445	NM	1.48E+00	1.48E+00	120	6	7
1.84378	3.28	421	421	0.78	0.1	0.0862	-0.0472	NM	1.54E+00	1.54E+00	120	6	7
1.90508	3.82	347.5	347.5	1.1	0.1	0.1195	-0.0487	NM	1.59E+00	1.59E+00	120	6	7
1.96518	4.15	425.4	425.4	0.97	0.1	0.1539	-0.0501	NM	1.64E+00	1.64E+00	120	6	7

2.02649	3.78	529.7	529.7	0.71	0.1	0.2287	-0.0503	NM	1.69E+00	1.69E+00	120	6	7
2.08979	4.27	607.6	607.6	0.7	0.1	0.2321	-0.0508	NM	1.74E+00	1.74E+00	120	6	7
2.15269	4.44	728.1	728.1	0.61	0.2	0.2311	-0.0513	NM	1.79E+00	1.79E+00	120	7	7
2.22001	5.42	863.2	863.3	0.63	0.1	0.1907	-0.0517	NM	1.85E+00	1.85E+00	120	7	7
2.28772	6.82	775.1	775.1	0.88	0.01	0.1546	-0.0516	NM	1.91E+00	1.91E+00	120	6	7
2.35303	7.67	894.1	894.1	0.86	-0.05	0.1313	-0.0517	NM	1.96E+00	1.96E+00	120	6	7
2.41874	8.12	938.2	938.2	0.87	-0.05	0.2541	-0.0518	NM	2.02E+00	2.02E+00	120	6	7
2.48765	8.52	982.3	982.2	0.87	-0.05	0.3633	-0.0448	NM	2.07E+00	2.07E+00	120	6	7
2.55216	7.74	1002.8	1002.8	0.77	0.08	0.3943	-0.0449	NM	2.13E+00	2.13E+00	120	6	7
2.62268	8.89	1042.5	1042.5	0.83	0.01	0.4544	-0.0385	NM	2.19E+00	2.19E+00	120	6	7
2.6952	11.77	1019	1019	1.16	-0.09	0.549	-0.0187	NM	2.25E+00	2.25E+00	120	6	7
2.76531	11.91	880.9	880.9	1.35	0.01	0.3533	-0.0256	NM	2.30E+00	2.30E+00	120	6	7
2.83343	10.66	911.7	911.8	1.17	0.2	0.1141	-0.0426	NM	2.36E+00	2.36E+00	120	6	7
2.90394	10.43	929.4	929.3	1.12	-0.05	0.1568	-0.0492	NM	2.42E+00	2.42E+00	120	6	7
2.97446	7.27	900	899.9	0.81	-0.09	0.609	0.0144	NM	2.48E+00	2.48E+00	120	6	7
3.04498	7.2	803	803	0.9	0.01	0.7284	0.0323	NM	2.54E+00	2.54E+00	120	6	7
3.1179	6.9	757.4	757.5	0.91	0.16	0.4709	-0.0121	NM	2.60E+00	2.60E+00	120	6	7
3.18842	6.15	714.8	714.8	0.86	0.01	0.4904	0.0102	NM	2.66E+00	2.66E+00	120	6	7
3.25853	5.09	666.3	666.3	0.76	-0.09	0.3401	0.0063	NM	2.72E+00	2.72E+00	120	6	7
3.32865	5.33	647.2	647.2	0.82	-0.05	0.1162	-0.032	NM	2.77E+00	2.77E+00	120	6	7
3.39997	4.54	659	659	0.69	-0.19	0.0524	-0.0453	NM	2.83E+00	2.83E+00	120	6	7
3.47009	4.76	686.9	686.8	0.69	-0.44	0.0294	-0.0494	NM	2.89E+00	2.89E+00	120	6	7
3.54181	3.79	703.1	703	0.54	-0.39	0.031	-0.0505	NM	2.95E+00	2.95E+00	120	6	7
3.61272	3.98	689.8	689.8	0.58	-0.24	0.0311	-0.0512	NM	3.01E+00	3.01E+00	120	6	7
3.67963	4.29	669.3	669.3	0.64	0.16	0.0515	-0.0512	NM	3.07E+00	3.07E+00	120	6	7
3.75015	6.59	663.4	663.4	0.99	0.1	0.0617	-0.0512	NM	3.13E+00	3.13E+00	120	6	7
3.82107	10.75	639.9	639.9	1.68	-0.05	0.0593	-0.0514	NM	3.18E+00	3.18E+00	120	6	7
3.89199	13.88	609	609.1	2.25	0.55	0.1097	-0.0515	NM	3.24E+00	3.24E+00	120	6	7
3.96331	15.05	622.3	622.4	2.42	0.85	0.396	-0.008	NM	3.30E+00	3.30E+00	120	5	7
4.03462	10.68	584.1	584.2	1.83	0.95	0.4051	0.007	NM	3.36E+00	3.36E+00	120	6	7
4.10514	9.21	572.3	572.5	1.61	1.15	0.1118	-0.0293	NM	3.42E+00	3.42E+00	120	6	6
4.17686	10.25	472.4	472.5	2.17	0.45	0.0686	-0.0442	NM	3.48E+00	3.48E+00	120	5	6
4.24778	4.2	497.4	497.4	0.84	0.06	0.1258	-0.0492	NM	3.54E+00	3.54E+00	120	6	6
4.3171	13.82	495.9	495.9	2.79	0.16	0.0805	-0.0508	NM	3.60E+00	3.60E+00	120	5	6
4.38801	5.62	785.4	785.4	0.72	0.1	0.0292	-0.0512	NM	3.66E+00	3.66E+00	120	6	7
4.45853	3.43	933.8	933.8	0.37	0.1	0.0668	-0.0513	NM	3.72E+00	3.72E+00	120	6	7
4.52905	3.23	879.4	879.4	0.37	-0.09	0.0723	-0.0514	NM	3.77E+00	3.77E+00	120	6	7
4.60197	4.73	835.3	835.3	0.57	0.16	0.0521	-0.0515	NM	3.84E+00	3.84E+00	120	6	7
4.67128	6.35	807.6	807.8	1.04	1.2	0.0664	-0.0515	NM	3.89E+00	3.89E+00	120	6	6
4.71255	5.99	109.1	109.5	5.47	1.99	0.0906	-0.0466	NM	3.93E+00	3.93E+00	120	3	5
4.74578	5.55	929.2	929.1	0.6	-0.46	0.1327	-0.0318	NM	3.96E+00	3.96E+00	120	6	7
4.81265	10.23	1021.8	1021.5	1	-1.36	0.1764	-0.0259	NM	4.01E+00	4.01E+00	120	6	7
4.88111	5.01	1107	1106.7	0.45	-1.76	0.2083	0.0027	NM	4.07E+00	4.07E+00	120	6	7
4.95118	5.72	1146.7	1146.5	0.5	-1.01	0.1787	0.0233	NM	4.13E+00	4.13E+00	120	6	7
5.02405	11.67	1133.5	1133.4	1.03	-0.56	0.1291	0.0167	NM	4.19E+00	4.18E+00	120	6	7
5.09652	8.87	1190.8	1190.9	0.74	0.29	0.179	0.019	NM	4.25E+00	4.21E+00	120	6	7
5.16738	10.67	1195.2	1195.4	0.89	1.14	0.4003	0.0507	NM	4.31E+00	4.23E+00	120	6	7
5.23545	9.32	1224.6	1224.9	0.76	1.54	0.3864	0.0489	NM	4.36E+00	4.26E+00	120	6	7
5.30511	6.46	1333.4	1333.7	0.48	1.49	0.4039	0.0794	NM	4.42E+00	4.29E+00	120	6	7
5.37478	7.03	1217.3	1217.6	0.58	1.74	0.5531	0.1258	NM	4.48E+00	4.32E+00	120	6	7
5.44645	10.51	1351	1351.3	0.78	1.74	0.6593	0.1339	NM	4.54E+00	4.35E+00	120	6	7
5.52092	14.33	1380.4	1380.7	1.04	1.59	0.6817	0.1294	NM	4.60E+00	4.38E+00	120	6	7

5.59219	9.57	1334.8	1335.2	0.72	1.89	0.6069	0.1134	NM	4.66E+00	4.40E+00	120	6	7
5.66065	8.5	1527.4	1527.7	0.56	1.79	0.7122	0.1326	NM	4.72E+00	4.43E+00	120	6	7
5.73152	7.17	1618.5	1618.8	0.44	1.84	0.5595	0.111	NM	4.78E+00	4.46E+00	120	7	7
5.80238	12.34	1595	1595.3	0.77	1.89	0.1332	0.0331	NM	4.84E+00	4.49E+00	120	6	7
5.87205	14.4	1453.9	1454.3	0.99	2.09	0.1135	0.0091	NM	4.89E+00	4.52E+00	120	6	7
5.94612	14.21	1502.4	1502.8	0.95	2.04	0.216	0.0223	NM	4.96E+00	4.55E+00	120	6	7
6.01699	11.68	1595	1595.4	0.73	1.99	0.1647	0.0161	NM	5.01E+00	4.57E+00	120	6	7
6.08825	10.45	1755.2	1755.5	0.6	1.94	0.148	0.0148	NM	5.07E+00	4.60E+00	120	6	7
6.15872	9.06	1467.1	1467.5	0.62	2.04	0.1121	0.0085	NM	5.13E+00	4.63E+00	120	6	7
6.22758	9.29	1452.4	1452.8	0.64	1.99	0.1447	0.0161	NM	5.19E+00	4.66E+00	120	6	7
6.29725	8.23	1505.3	1505.7	0.55	1.99	0.2717	0.0443	NM	5.25E+00	4.69E+00	120	6	7
6.37052	7.08	1617	1617.4	0.44	2.14	0.2873	0.0425	NM	5.31E+00	4.72E+00	120	7	7
6.44139	8.33	1523	1523.4	0.55	2.39	0.3585	0.0565	NM	5.37E+00	4.74E+00	120	6	7
6.51105	15.1	1531.8	1532.2	0.99	2.19	0.1953	0.0297	NM	5.43E+00	4.77E+00	120	6	7
6.58312	25.63	1605.3	1605.7	1.6	2.19	0.0909	0.0029	NM	5.49E+00	4.80E+00	120	6	7
6.65279	23.91	1722.8	1723.3	1.39	2.24	0.1019	0.0024	NM	5.54E+00	4.83E+00	120	6	7
6.72205	24.19	2000.6	2001.1	1.21	2.29	0.0767	0.0028	NM	5.60E+00	4.86E+00	120	6	7
6.79332	31.61	2219.6	2220	1.42	2.24	0.1096	0.0082	NM	5.66E+00	4.88E+00	120	6	7
6.86579	30.51	2009.4	2009.9	1.52	2.19	0.1798	0.0156	NM	5.72E+00	4.91E+00	120	6	7
6.93305	24.42	2005	2005.5	1.22	2.29	0.3339	0.0319	NM	5.78E+00	4.94E+00	120	6	7
7.00152	20.23	2334.2	2334.7	0.87	2.24	0.3484	0.0499	NM	5.84E+00	4.97E+00	120	6	7
7.07158	30.08	2179.9	2180.3	1.38	2.19	0.7282	0.1516	NM	5.89E+00	5.00E+00	120	6	7
7.14125	22.25	2203.4	2203.9	1.01	2.54	0.9796	0.2297	NM	5.95E+00	5.02E+00	120	6	7
7.21212	22.86	2250.5	2250.8	1.02	1.64	1.2538	0.2665	NM	6.01E+00	5.05E+00	120	6	7
7.28378	19.31	2479.7	2480	0.78	1.59	1.2248	0.227	NM	6.07E+00	5.08E+00	120	6	7
7.35305	17.4	2623.8	2624.1	0.66	1.49	0.8405	0.1533	NM	6.13E+00	5.11E+00	120	7	7
7.42712	17.19	2156.4	2156.8	0.8	2.09	0.8134	0.1241	NM	6.19E+00	5.14E+00	120	6	7
7.49598	18.53	2127	2127.4	0.87	2.09	0.4531	0.0575	NM	6.25E+00	5.17E+00	120	6	7
7.56645	18.17	2044.7	2045.1	0.89	2.24	0.4672	0.0524	NM	6.31E+00	5.19E+00	120	6	7
7.63852	15.43	2057.9	2058.4	0.75	2.49	0.4336	0.0489	NM	6.37E+00	5.22E+00	120	6	7
7.70938	10.6	2027.1	2027.6	0.52	2.69	0.5061	0.061	NM	6.42E+00	5.25E+00	120	7	7
7.78105	8.18	1922.7	1923.2	0.43	2.29	0.5384	0.0707	NM	6.48E+00	5.28E+00	120	7	7
7.85432	7.96	1878.6	1879.1	0.42	2.24	0.5018	0.0724	NM	6.55E+00	5.31E+00	120	7	7
7.92399	7.76	1825.7	1826.2	0.43	2.34	0.5812	0.0783	NM	6.60E+00	5.34E+00	120	7	7
7.99446	7.64	1764	1764.5	0.43	2.44	0.6676	0.092	NM	6.66E+00	5.36E+00	120	7	7
8.06499	7.28	1656.6	1657.1	0.44	2.27	0.6349	0.0845	NM	6.74E+00	5.40E+00	120	7	7
8.1527	6.97	1665.5	1666	0.42	2.67	0.7033	0.0999	NM	6.79E+00	5.43E+00	120	7	7
8.22241	6.69	1709.5	1710.1	0.39	2.62	0.7397	0.1047	NM	6.85E+00	5.46E+00	120	7	7
8.29614	6.49	1744.8	1745.3	0.37	2.67	0.6476	0.0807	NM	6.91E+00	5.49E+00	120	7	7
8.36948	6.25	1747.7	1748.2	0.36	2.77	0.8392	0.1129	NM	6.98E+00	5.51E+00	120	7	7
8.43998	6.35	1746.2	1746.7	0.36	2.82	0.8587	0.1273	NM	7.03E+00	5.54E+00	120	7	7
8.50809	6.25	1765.3	1765.9	0.35	2.87	0.7741	0.1104	NM	7.09E+00	5.57E+00	120	7	7
8.57821	6.37	1744.8	1745.4	0.36	3.02	0.7327	0.0977	NM	7.15E+00	5.60E+00	120	7	7
8.64873	6.36	1777.1	1777.6	0.36	2.77	0.6252	0.0729	NM	7.21E+00	5.63E+00	120	7	7
8.72004	7.21	1790.3	1790.9	0.4	2.87	0.6552	0.0686	NM	7.27E+00	5.66E+00	120	7	7
8.79337	6.73	1815.3	1815.8	0.37	2.92	0.9171	0.1088	NM	7.33E+00	5.68E+00	120	7	7
8.86468	6.72	1875.5	1876.1	0.36	2.92	1.2385	0.1722	NM	7.39E+00	5.71E+00	120	7	7
8.9348	7.02	1881.4	1882	0.37	3.02	1.216	0.1654	NM	7.45E+00	5.74E+00	120	7	7
9.00372	7	1951.9	1952.5	0.38	2.97	0.9878	0.1362	NM	7.50E+00	5.77E+00	120	7	7
9.07423	7.72	2041.5	2042.1	0.38	3.22	0.8864	0.1452	NM	7.56E+00	5.80E+00	120	7	7
9.14555	7.43	2200.2	2200.8	0.34	3.27	0.8974	0.161	NM	7.62E+00	5.83E+00	120	7	7
9.21927	7.51	2313.3	2313.9	0.32	3.17	0.8429	0.1313	NM	7.68E+00	5.85E+00	120	7	7

9.28979	7.54	2366.1	2366.7	0.32	3.07	0.8164	0.1164	NM	7.74E+00	5.88E+00	120	7	7
9.3579	7.41	2372	2372.6	0.31	2.87	0.7994	0.1129	NM	7.80E+00	5.91E+00	120	7	7
9.43002	7.73	2386.7	2387.2	0.32	2.82	0.7612	0.1056	NM	7.86E+00	5.94E+00	120	7	7
9.49894	7.46	2375	2375.5	0.31	2.92	0.6485	0.0809	NM	7.92E+00	5.97E+00	120	7	7
9.56905	7.39	2364.7	2365.2	0.31	2.82	0.5971	0.0779	NM	7.97E+00	5.99E+00	120	7	7
9.64198	7.39	2369.1	2369.6	0.31	2.67	0.6092	0.078	NM	8.04E+00	6.02E+00	120	7	7
9.7133	7	2395.5	2396.1	0.29	2.72	0.5379	0.0636	NM	8.09E+00	6.05E+00	120	7	7
9.78221	7.34	2423.4	2424	0.3	2.82	0.5655	0.0606	NM	8.15E+00	6.08E+00	120	7	7
9.85433	7.47	2413.2	2413.7	0.31	2.87	0.7462	0.089	NM	8.21E+00	6.11E+00	120	7	7
9.92525	7.77	2369.1	2369.7	0.33	3.02	0.791	0.0969	NM	8.27E+00	6.14E+00	120	7	7
9.99456	8.28	2341.2	2341.8	0.35	3.07	0.5496	0.0525	NM	8.33E+00	6.16E+00	120	7	7
10.06708	8.33	2376.4	2377	0.35	3.07	0.4542	0.0407	NM	8.39E+00	6.19E+00	120	7	7
10.138	8.6	2448.4	2449.1	0.35	3.47	0.4854	0.0524	NM	8.45E+00	6.22E+00	120	7	7
10.20611	9.14	2473.4	2474.1	0.37	3.72	0.4768	0.0517	NM	8.51E+00	6.25E+00	120	7	7
10.27463	9.48	2448.4	2449.1	0.39	3.72	0.4843	0.0483	NM	8.56E+00	6.28E+00	120	7	7
10.34475	9.83	2407.3	2408	0.41	3.82	0.4776	0.0333	NM	8.62E+00	6.31E+00	120	7	7
10.41647	10.32	2404.3	2405.1	0.43	3.82	0.4719	0.017	NM	8.68E+00	6.33E+00	120	7	7
10.48698	9.94	2422	2422.7	0.41	3.82	0.5084	0.0213	NM	8.74E+00	6.36E+00	120	7	7
10.5587	9.38	2451.3	2452.1	0.38	3.92	0.4815	0.0229	NM	8.80E+00	6.39E+00	120	7	7
10.62762	9.57	2523.3	2524.1	0.38	3.92	0.558	0.0333	NM	8.86E+00	6.42E+00	120	7	7
10.70174	9.84	2608.5	2609.3	0.38	3.92	0.7898	0.0823	NM	8.92E+00	6.45E+00	120	7	7
10.77025	9.38	2696.7	2697.4	0.35	3.92	0.7755	0.1089	NM	8.98E+00	6.48E+00	120	7	7
10.83997	9.8	2726	2726.8	0.36	4.07	0.4546	0.0431	NM	9.03E+00	6.50E+00	120	7	7
10.91249	10.58	2670.2	2671.1	0.4	4.32	0.5093	0.018	NM	9.09E+00	6.53E+00	120	7	7
10.98341	8.23	2733.4	2734.2	0.3	4.42	0.5382	0.0305	NM	9.15E+00	6.56E+00	120	7	7
11.05192	8.34	2798	2798.8	0.3	4.27	0.5142	0.0306	NM	9.21E+00	6.59E+00	120	7	7
11.12404	9.59	2915.5	2916.4	0.33	4.37	0.4796	0.0234	NM	9.27E+00	6.62E+00	120	7	7
11.19336	9.75	3038.9	3039.8	0.32	4.42	0.4845	0.0269	NM	9.33E+00	6.64E+00	120	7	7
11.26307	10.52	3219.6	3220.5	0.33	4.57	0.4843	0.0265	NM	9.39E+00	6.67E+00	120	7	7
11.35116	10.85	3387.5	3388.4	0.32	4.35	0.6084	0.0665	NM	9.46E+00	6.71E+00	120	7	7
11.41881	11.09	3446.3	3447.2	0.32	4.5	0.7102	0.0955	NM	9.52E+00	6.73E+00	120	7	7
11.48966	11.9	3515.4	3516.3	0.34	4.7	0.7513	0.0902	NM	9.58E+00	6.76E+00	120	7	7
11.55771	12.67	3515.4	3516.3	0.36	4.65	0.7794	0.0986	NM	9.63E+00	6.79E+00	120	7	7
11.63136	12.5	3475.7	3476.6	0.36	4.85	0.6241	0.0749	NM	9.69E+00	6.82E+00	120	7	7
11.70541	12.84	3490.4	3491.3	0.37	4.75	0.6108	0.0718	NM	9.76E+00	6.85E+00	120	7	7
11.77426	13.26	3502.2	3503.1	0.38	4.85	0.6155	0.0601	NM	9.81E+00	6.88E+00	120	7	7
11.84231	12.91	3530.1	3531	0.37	4.9	0.5821	0.0542	NM	9.87E+00	6.90E+00	120	7	7
11.91276	13.19	3549.2	3550.2	0.37	5.1	0.5258	0.0424	NM	9.93E+00	6.93E+00	120	7	7
11.98241	13.45	3540.4	3541.3	0.38	5.05	0.5363	0.0479	NM	9.99E+00	6.96E+00	120	7	7
12.05406	13.73	3550.6	3551.6	0.39	5.15	0.5326	0.0441	NM	1.01E+01	6.99E+00	120	7	7
12.12891	14.04	3559.5	3560.4	0.39	5.15	0.5345	0.0571	NM	1.01E+01	7.02E+00	120	7	7
12.19976	15.38	3591.8	3592.8	0.43	5.2	0.5064	0.0689	NM	1.02E+01	7.05E+00	120	7	7
12.26901	16.09	3666.7	3667.7	0.44	5.2	0.6048	0.1283	NM	1.02E+01	7.07E+00	120	7	7
12.34026	16.16	3710.8	3711.8	0.44	5.3	0.5939	0.1054	NM	1.03E+01	7.10E+00	120	7	7
12.40831	20.39	3746.1	3747.1	0.54	5.3	0.7268	0.1685	NM	1.03E+01	7.13E+00	120	7	7
12.48076	18.6	3818.1	3819.1	0.49	5.25	0.5367	0.1239	NM	1.04E+01	7.16E+00	120	7	7
12.55281	18.58	3882.7	3883.7	0.48	5.35	0.3348	0.064	NM	1.05E+01	7.19E+00	120	7	7
12.62366	18.13	4048.7	4049.8	0.45	5.25	0.2941	0.0545	NM	1.05E+01	7.22E+00	120	7	7
12.69331	17.53	3945.9	3947	0.44	5.6	0.2912	0.0622	NM	1.06E+01	7.24E+00	120	7	7
12.76256	16.54	3900.3	3901.5	0.42	6.05	0.3031	0.067	NM	1.06E+01	7.27E+00	120	7	7
12.83221	16.15	4017.9	4019	0.4	5.95	0.2687	0.058	NM	1.07E+01	7.30E+00	120	7	7
12.90266	16.51	4229.5	4230.6	0.44	5.95	0.2305	0.0534	NM	1.08E+01	7.33E+00	120	7	7

12.97511	15.68	4501.3	4502.4	0.35	5.9	0.2059	0.0448	NM	1.08E+01	7.36E+00	120	7	7
13.04516	16.7	4729	4730.1	0.35	5.6	0.1903	0.0402	NM	1.09E+01	7.39E+00	120	7	7
13.11361	18.34	4884.8	4885.8	0.38	5.4	0.1943	0.0411	NM	1.09E+01	7.41E+00	120	7	7
13.18446	20.77	4940.6	4941.7	0.42	5.35	0.1814	0.0378	NM	1.10E+01	7.44E+00	120	7	7
13.25451	20.44	4945	4946.1	0.41	5.3	0.1823	0.0308	NM	1.11E+01	7.47E+00	120	7	7
13.32416	21.44	4876	4876.8	0.44	4.35	0.1572	0.0308	NM	1.11E+01	7.50E+00	120	7	7
13.39621	23.38	4858.3	4859.1	0.48	4	0.1604	0.0331	NM	1.12E+01	7.53E+00	120	7	7
13.46585	27.3	4970	4970.8	0.55	4.05	0.1439	0.0287	NM	1.12E+01	7.55E+00	120	7	7
13.5319	32.59	5061.1	5062.1	0.64	4.95	0.1447	0.0284	NM	1.13E+01	7.58E+00	120	7	7
13.60195	32.56	5302.1	5303	0.61	4.6	0.1255	0.0214	NM	1.13E+01	7.61E+00	120	7	7
13.6704	37.72	5667.9	5668.8	0.67	4.65	0.1233	0.0204	NM	1.14E+01	7.64E+00	120	7	7
13.73965	54.77	5922.1	5923.1	0.92	4.85	0.1347	0.0243	NM	1.15E+01	7.66E+00	120	6	7
13.8101	56.28	5928	5929	0.95	4.9	0.1648	0.0307	NM	1.15E+01	7.69E+00	120	6	7
13.88055	52.17	5906	5906.9	0.88	5	0.1836	0.0442	NM	1.16E+01	7.72E+00	120	7	7
13.9594	55.74	5404.9	5405.9	1.03	4.8	0.2919	0.0787	NM	1.16E+01	7.75E+00	120	6	7
14.02985	52.07	4911.2	4912.3	1.06	5.5	0.3194	0.08	NM	1.17E+01	7.78E+00	120	6	7
14.0939	48.32	4842.2	4843.2	1	5.4	0.2842	0.0667	NM	1.17E+01	7.80E+00	120	6	7
14.16235	44.62	4964.1	4965.5	0.9	7.1	0.2383	0.0505	NM	1.18E+01	7.83E+00	120	8	7
14.2332	12.15	5318.2	5319.8	0.23	7.25	0.2397	0.0591	NM	1.19E+01	7.86E+00	120	7	7
14.30285	26.58	5619.5	5620.9	0.47	7.2	0.2825	0.0729	NM	1.19E+01	7.89E+00	120	7	7
14.37009	26.08	5695.9	5697.2	0.46	7	0.2998	0.0714	NM	1.20E+01	7.92E+00	120	7	7
14.44174	24.88	5762	5763.3	0.43	6.85	0.326	0.0789	NM	1.20E+01	7.94E+00	120	7	7
14.51019	25.63	5822.2	5823.5	0.44	6.7	0.3232	0.0744	NM	1.21E+01	7.97E+00	120	7	7
14.65085	26.74	5260.6	5261.9	0.51	6.83	0.3161	0.077	NM	1.22E+01	8.03E+00	120	7	7
14.71822	25.52	5244.4	5245.1	0.49	3.63	0.3274	0.0872	NM	1.23E+01	8.05E+00	120	7	7
14.7872	21.68	5242.9	5243.4	0.41	2.63	0.34	0.0899	NM	1.23E+01	8.08E+00	120	7	7
14.8622	20.76	5297.3	5297.8	0.39	2.63	0.3356	0.0852	NM	1.24E+01	8.11E+00	120	7	7
14.93519	17.78	5353.1	5353.5	0.33	2.23	0.3308	0.0827	NM	1.25E+01	8.14E+00	120	7	7
15.00578	16.62	5451.5	5451.9	0.3	2.08	0.3291	0.0875	NM	1.25E+01	8.17E+00	120	7	7
15.07275	17.96	5599.8	5600.2	0.32	2.03	0.3316	0.0847	NM	1.26E+01	8.20E+00	120	7	7
15.14173	18.89	5709.9	5710.3	0.33	1.93	0.2404	0.0549	NM	1.26E+01	8.22E+00	120	7	7
15.20229	19.14	5467.6	5468	0.35	1.88	0.1961	0.0448	NM	1.27E+01	8.25E+00	120	7	7
15.27528	20.56	5774.6	5774.9	0.36	1.98	0.2145	0.0534	NM	1.27E+01	8.28E+00	120	7	7
15.34787	23.2	5911.1	5911.5	0.39	1.93	0.2513	0.0678	NM	1.28E+01	8.31E+00	120	7	7
15.396	21.96	5733.4	5733.8	0.38	1.83	0.251	0.0626	NM	1.28E+01	8.33E+00	120	7	7
15.45054	23.27	5950.8	5951.1	0.39	1.83	0.2769	0.068	NM	1.29E+01	8.35E+00	120	7	7
15.50829	25.02	6087.4	6087.7	0.41	1.83	0.2778	0.0626	NM	1.29E+01	8.37E+00	120	7	7
15.54479	27.61	6141.7	6141.9	0.45	1.18	0.2449	0.0437	NM	1.30E+01	8.39E+00	120	7	7
15.58008	27.75	6102.1	6102.1	0.45	0.33	0.252	0.0493	NM	1.30E+01	8.40E+00	120	7	7
15.61858	26.18	6000.7	6000.8	0.44	0.48	0.2408	0.0485	NM	1.30E+01	8.41E+00	120	7	7
15.65267	25.55	6018.3	6018.4	0.42	0.13	0.2291	0.048	NM	1.30E+01	8.43E+00	120	7	7
15.69157	25.49	6056.5	6056.6	0.42	0.48	0.1814	0.0382	NM	1.31E+01	8.44E+00	120	7	7
15.73088	25.01	5899.4	5899.5	0.42	0.38	0.1358	0.0281	NM	1.31E+01	8.46E+00	120	7	7
15.76737	24.78	5874.4	5874.5	0.42	0.28	0.119	0.0244	NM	1.31E+01	8.47E+00	120	7	7
15.80168	24.82	5890.6	5890.7	0.42	0.38	0.1295	0.0216	NM	1.32E+01	8.49E+00	120	7	7
15.83595	24.99	5852.4	5852.5	0.43	0.33	0.1411	0.0198	NM	1.32E+01	8.50E+00	120	7	7
15.87245	25.19	5826	5826.1	0.43	0.48	0.1539	0.0192	NM	1.32E+01	8.52E+00	120	7	7
15.90654	25.05	5676.2	5676.3	0.44	0.78	0.1507	-0.0048	NM	1.33E+01	8.53E+00	120	7	7
15.94865	16.64	5477.9	5478	0.3	0.38	0.0818	-0.048	NM	1.33E+01	8.55E+00	120	7	7
15.98595	15.05	5408.9	5409	0.28	0.68	0.0528	-0.049	NM	1.33E+01	8.56E+00	120	7	7
16.02445	15.22	5511.7	5511.8	0.28	0.78	0.0425	-0.0497	NM	1.34E+01	8.58E+00	120	7	7
16.06535	15.69	5347.2	5347.4	0.29	0.78	0.0296	-0.0502	NM	1.34E+01	8.59E+00	120	7	7

16.10345	16.47	5344.3	5344.4	0.31	0.88	0.0286	-0.045	NM	1.34E+01	8.61E+00	120	7	7
16.14556	17.17	5370.7	5370.9	0.32	0.88	0.0358	-0.0349	NM	1.35E+01	8.63E+00	120	7	7
16.18888	16.86	5451.5	5451.6	0.31	0.93	0.0371	-0.037	NM	1.35E+01	8.64E+00	120	7	7
16.22058	16.56	5019.7	5019.9	0.33	0.88	0.0372	-0.0385	NM	1.35E+01	8.66E+00	120	7	7
16.25104	16.25	5106.3	5106.5	0.32	0.98	0.0337	-0.0396	NM	1.35E+01	8.67E+00	120	7	7
16.30438	16.06	5510.2	5510.4	0.29	0.88	0.0308	-0.0409	NM	1.36E+01	8.68E+00	120	7	7
16.36374	17.75	5593.9	5594.1	0.32	0.98	0.034	-0.0414	NM	1.36E+01	8.71E+00	120	7	7
16.42429	18.51	5689.4	5689.6	0.33	0.93	0.0351	-0.0422	NM	1.37E+01	8.74E+00	120	7	7
16.48245	20.1	5808.3	5808.5	0.35	1.03	0.034	-0.0374	NM	1.37E+01	8.76E+00	120	7	7
16.541	19.86	5856.8	5857	0.34	0.93	0.0281	-0.0371	NM	1.38E+01	8.78E+00	120	7	7
16.60196	20.78	5890.6	5890.7	0.35	0.73	0.0228	-0.0368	NM	1.38E+01	8.81E+00	120	7	7
16.66011	19.85	5962.5	5962.7	0.33	0.73	0.0245	-0.0328	NM	1.39E+01	8.83E+00	120	7	7
16.71706	19.27	6016.9	6017.1	0.32	0.88	0.0313	-0.0289	NM	1.39E+01	8.85E+00	120	7	7
16.7712	19.52	6050.7	6050.8	0.32	0.68	0.0361	-0.0278	NM	1.40E+01	8.88E+00	120	7	7
16.81933	20.59	6087.4	6087.6	0.34	1.08	0.0388	-0.0282	NM	1.40E+01	8.89E+00	120	7	7
16.86545	20.96	6131.4	6131.6	0.34	1.03	0.0392	-0.0299	NM	1.41E+01	8.91E+00	120	7	7
16.90475	19.05	6147.6	6147.8	0.31	0.88	0.0427	-0.0278	NM	1.41E+01	8.93E+00	120	7	7
16.94205	18.61	6130	6130.2	0.27	1.28	0.0469	-0.0249	NM	1.41E+01	8.94E+00	120	7	7
16.98135	18.37	6077.1	6077.3	0.3	0.83	0.0501	-0.0228	NM	1.42E+01	8.96E+00	120	7	7
17.04111	19.52	6254.8	6255	0.31	1.03	0.0587	-0.0175	NM	1.42E+01	8.98E+00	120	7	7
17.0744	19.8	6213.7	6213.8	0.32	0.83	0.0617	-0.0128	NM	1.42E+01	9.00E+00	120	7	7
17.10588	20.73	6248.9	6249.1	0.33	0.88	0.0656	-0.0101	NM	1.43E+01	9.01E+00	120	7	7
17.14057	21.41	6153.5	6153.6	0.35	0.63	0.0693	-0.0083	NM	1.43E+01	9.02E+00	120	7	7
17.19391	21.94	6288.6	6288.7	0.35	0.63	0.0673	-0.0124	NM	1.43E+01	9.04E+00	120	7	7
17.24083	22.09	6372.3	6372.5	0.35	1.08	0.0638	-0.0178	NM	1.44E+01	9.06E+00	120	7	7
17.27292	23	6528	6528.1	0.35	0.93	0.0657	-0.0175	NM	1.44E+01	9.08E+00	120	7	7
17.32345	27.86	6692.4	6692.6	0.42	0.98	0.0705	-0.0176	NM	1.44E+01	9.10E+00	120	7	7
17.37438	26.32	6843.7	6843.9	0.38	0.98	0.0772	-0.0184	NM	1.45E+01	9.12E+00	120	7	7
17.42171	28.12	6914.2	6914.4	0.41	0.88	0.0761	-0.0204	NM	1.45E+01	9.14E+00	120	7	7
17.47264	34.26	6959.7	6959.9	0.49	0.93	0.0749	-0.0192	NM	1.46E+01	9.16E+00	120	7	7
17.51956	26.83	6953.8	6954	0.39	0.83	0.074	-0.0165	NM	1.46E+01	9.17E+00	120	7	7
17.56568	24.31	7033.2	7033.3	0.35	0.78	0.0735	-0.0152	NM	1.46E+01	9.19E+00	120	7	7
17.6118	24.74	6890.7	6890.8	0.36	0.68	0.0727	-0.0157	NM	1.47E+01	9.21E+00	120	7	7
17.65873	25.08	6912.7	6912.8	0.36	0.58	0.0717	-0.0174	NM	1.47E+01	9.23E+00	120	7	7
17.70405	24.87	6961.2	6961.4	0.36	0.88	0.0724	-0.0171	NM	1.48E+01	9.25E+00	120	7	7
17.75097	29.77	7102.2	7102.3	0.42	0.83	0.0744	-0.0152	NM	1.48E+01	9.27E+00	120	7	7
17.79709	33.58	7030.2	7030.4	0.48	0.93	0.0773	-0.0123	NM	1.48E+01	9.29E+00	120	7	7
17.83679	32.06	6635.2	6635.4	0.48	1.08	0.0776	-0.0177	NM	1.49E+01	9.30E+00	120	7	7
17.85443	29.08	6615.9	6616.2	0.44	1.77	0.0759	-0.0235	NM	1.49E+01	9.31E+00	120	7	7
17.90736	11.32	6815.7	6815.8	0.17	0.92	0.0789	-0.0186	NM	1.49E+01	9.33E+00	120	7	7
17.96229	13.55	6924.4	6924.5	0.2	0.67	0.0879	-0.0055	NM	1.50E+01	9.35E+00	120	7	7
18.01762	17.54	6977.2	6977.3	0.25	0.52	0.0958	0.002	NM	1.50E+01	9.37E+00	120	7	7
18.06854	12.11	6899.4	6899.5	0.18	0.42	0.094	-0.0006	NM	1.51E+01	9.39E+00	120	7	7
18.11986	7.71	6541	6541.3	0.12	1.87	0.1036	0.0068	NM	1.51E+01	9.42E+00	120	7	7
18.17399	10.63	6407.3	6407.6	0.17	1.47	0.1217	0.0104	NM	1.51E+01	9.44E+00	120	7	7
18.20968	12.6	5831.4	5831.7	0.22	1.42	0.1239	0.012	NM	1.52E+01	9.45E+00	120	7	7
18.24216	14.33	6285.3	6285.7	0.23	1.82	0.1244	0.012	NM	1.52E+01	9.46E+00	120	7	7
18.31192	17.12	6322.1	6322.4	0.27	1.62	0.119	0.0098	NM	1.53E+01	9.49E+00	120	7	7
18.38089	19.04	6172.2	6172.6	0.31	1.67	0.122	0.012	NM	1.53E+01	9.52E+00	120	7	7
18.44544	21.08	6163.4	6163.7	0.34	1.27	0.127	0.0126	NM	1.54E+01	9.55E+00	120	7	7
18.5148	26.91	6113.5	6113.9	0.44	2.07	0.1251	0.0124	NM	1.54E+01	9.57E+00	120	7	7
18.58577	21.11	6163.4	6163.7	0.34	1.47	0.1285	0.0122	NM	1.55E+01	9.60E+00	120	7	7

18.65955	16.14	6176.8	6176.9	0.26	1.17	0.1306	0.0126	NM	1.56E+01	9.63E+00	120	7	7
18.73132	19.39	6275.1	6275.2	0.31	0.87	0.121	0.0017	NM	1.56E+01	9.66E+00	120	7	7
18.80028	21.73	6373.5	6373.6	0.34	0.62	0.1193	0.0017	NM	1.57E+01	9.69E+00	120	7	7
18.87005	22.47	6351.5	6351.5	0.35	0.32	0.1223	0.0079	NM	1.57E+01	9.72E+00	120	7	7
18.90875	23.15	5838.8	5838.8	0.4	0.32	0.11	-0.0055	NM	1.58E+01	9.73E+00	120	7	7
18.95706	25.68	6197.2	6197.4	0.41	1.17	0.1027	-0.0169	NM	1.58E+01	9.75E+00	120	7	7
19.02963	24.23	6261.8	6262	0.39	0.97	0.0873	-0.0279	NM	1.59E+01	9.78E+00	120	7	7
19.1018	30.79	6430.8	6430.9	0.48	0.47	0.1	-0.0125	NM	1.59E+01	9.81E+00	120	7	7
19.17397	28.76	5805	5805	0.5	-0.03	0.0964	-0.0205	NM	1.60E+01	9.84E+00	120	7	7
19.24374	26.91	5724.2	5724.2	0.47	0.22	0.0988	-0.0149	NM	1.60E+01	9.86E+00	120	7	7
19.31591	24.24	5427.5	5427.4	0.45	-0.28	0.0975	-0.0142	NM	1.61E+01	9.89E+00	120	7	7
19.38668	20.51	5399.6	5399.4	0.38	-1.08	0.0782	-0.0422	NM	1.62E+01	9.92E+00	120	7	7
19.45945	20.67	5330.5	5330.4	0.39	-0.83	0.0818	-0.0335	NM	1.62E+01	9.95E+00	120	7	7
19.53042	19.71	5320.2	5319.9	0.37	-1.88	0.0692	-0.0486	NM	1.63E+01	9.98E+00	120	7	7
19.60219	20.76	5528.8	5528.5	0.38	-1.58	0.0823	-0.0276	NM	1.63E+01	1.00E+01	120	7	7
19.67116	20.92	5599.3	5599	0.37	-1.58	0.1123	0.0072	NM	1.64E+01	1.00E+01	120	7	7
19.74173	24.19	5550.9	5550.6	0.44	-1.48	0.1077	0.0081	NM	1.65E+01	1.01E+01	120	7	7
19.81109	17.39	5810.9	5810.6	0.3	-1.33	0.1066	0.0099	NM	1.65E+01	1.01E+01	120	7	7
19.88406	20.1	5971	5970.8	0.34	-0.78	0.1081	0.0096	NM	1.66E+01	1.01E+01	120	7	7
19.95584	25.72	6079.7	6079.5	0.42	-0.93	0	0	NM	1.66E+01	1.02E+01	120	7	7
20.0264	30.93	6223.7	6223.4	0.5	-1.23	0	0	NM	1.67E+01	1.02E+01	120	7	7
20.09336	39.04	6517.4	6517.1	0.6	-1.98	0	0	NM	1.67E+01	1.02E+01	120	7	7
20.16834	59.77	6980.2	6980	0.86	-1.13	0	0	NM	1.68E+01	1.02E+01	120	7	7
20.20643	77.48	7476.7	7476.5	1.04	-0.88	0	0	NM	1.68E+01	1.03E+01	120	6	7
20.24011	91.35	8029	8028.9	1.14	-0.68	0	0	NM	1.69E+01	1.03E+01	120	6	7
20.27419	70.99	8494.7	8494.6	0.84	-0.23	0	0	NM	1.69E+01	1.03E+01	120	7	7
20.30867	67.03	8748.8	8748.8	0.77	0.17	0	0	NM	1.69E+01	1.03E+01	120	7	7
20.3628	16.18	9224.8	9224.8	0.18	0.42	0	0	NM	1.70E+01	1.03E+01	120	7	7
20.37203	30.69	9649.3	9649.5	0.32	1.12	0	0	NM	1.70E+01	1.03E+01	120	7	7
20.41292	19.23	10211.9	10212.1	0.19	0.97	0	0	NM	1.70E+01	1.03E+01	120	7	7
20.43377	15.05	10980.2	10980.7	0.14	2.87	0	0	NM	1.70E+01	1.03E+01	120	-99	-99
20.46825	30.91	11000.7	11001.2	0.28	2.42	0	0	NM	1.71E+01	1.04E+01	120	-99	-99
20.47287	32.58	10520.4	10520.9	0.31	2.57	0	0	NM	1.71E+01	1.04E+01	120	-99	-99
20.51797	35.98	11792.5	11792.7	0.31	1.02	0	0	NM	1.71E+01	1.04E+01	120	-99	-99
20.55125	47.41	11535.4	11535.7	0.41	1.27	0	0	NM	1.71E+01	1.04E+01	120	-99	-99
20.55606	47.44	10846.5	10846.8	0.44	0.52	0	0	NM	1.71E+01	1.04E+01	120	-99	-99
20.59055	45.87	11372.4	11372.5	0.4	0.67	0	0	NM	1.72E+01	1.04E+01	120	-99	-99
20.59656	45.02	10416.1	10417.4	0.43	8.92	0	0	NM	1.72E+01	1.04E+01	120	7	7
20.64026	46.68	11660.3	11661.4	0.4	5.52	0	0	NM	1.72E+01	1.04E+01	120	-99	-99
20.67755	62.57	13082.3	13083.7	0.48	7.47	0	0	NM	1.72E+01	1.04E+01	120	-99	-99
20.72767	19.43	12966.2	12967.5	0.15	6.82	0	0	NM	1.73E+01	1.05E+01	120	-99	-99
20.73489	47.59	11209.3	11210.6	0.42	6.82	0	0	NM	1.73E+01	1.05E+01	120	-99	-99
20.76055	88.3	11929.1	11930.4	0.74	6.87	0	0	NM	1.73E+01	1.05E+01	120	-99	-99
20.77258	99.1	11625	11626.3	0.85	6.72	0	0	NM	1.73E+01	1.05E+01	120	-99	-99
20.81909	108.49	12408	12409.3	0.87	6.77	0	0	NM	1.74E+01	1.05E+01	120	-99	-99
20.8672	51.23	12569.8	12570.8	0.41	5.37	0	0	NM	1.74E+01	1.05E+01	120	-99	-99
20.87723	52.79	10809.8	10811.3	0.49	8.02	0	0	NM	1.74E+01	1.05E+01	120	-99	-99
20.91412	24.94	12311.1	12312.1	0.2	5.27	0	0	NM	1.74E+01	1.05E+01	120	-99	-99
20.92133	26.68	11893.9	11895.4	0.22	7.87	0	0	NM	1.74E+01	1.05E+01	120	-99	-99
20.96824	38.28	12281.7	12282.7	0.31	5.32	0	0	NM	1.75E+01	1.06E+01	120	-99	-99
21.00072	46.86	12327.2	12327.3	0.38	0.82	0	0	NM	1.75E+01	1.06E+01	120	-99	-99
21.00914	49.08	11307.8	11308.6	0.43	4.52	0	0	NM	1.75E+01	1.06E+01	120	-99	-99

21.04282	45.05	11954.1	11954.3	0.38	0.82	0	0	NM	1.75E+01	1.06E+01	120	-99	-99
21.08327	41.83	12148	12149.1	0.34	5.77	0	0	NM	1.76E+01	1.06E+01	120	-99	-99
21.06928	41.29	11578	11579.4	0.36	6.97	0	0	NM	1.76E+01	1.06E+01	120	-99	-99
21.08813	42.52	10508.6	10509.9	0.4	7.09	0	0	NM	1.76E+01	1.06E+01	120	7	7
21.13543	37.05	11060.6	11061.7	0.33	5.34	0	0	NM	1.76E+01	1.06E+01	120	-99	-99
21.17992	23.14	10739.1	10739.9	0.22	4.14	0	0	NM	1.77E+01	1.06E+01	120	-99	-99
21.19796	29.72	9922.7	9924.4	0.3	8.39	0	0	NM	1.77E+01	1.07E+01	120	7	7
21.24767	33.95	10762.6	10763.8	0.32	6.19	0	0	NM	1.77E+01	1.07E+01	120	-99	-99
21.24967	33.38	9903.7	9905.1	0.34	7.44	0	0	NM	1.77E+01	1.07E+01	120	7	7
21.30339	53.29	11192.8	11193.9	0.48	6.04	0	0	NM	1.78E+01	1.07E+01	120	-99	-99
21.35951	53.59	10583.5	10583.7	0.51	1.45	0	0	NM	1.78E+01	1.07E+01	120	7	7
21.41483	52.64	10604	10604.2	0.5	0.85	0	0	NM	1.79E+01	1.07E+01	120	7	7
21.46614	54.64	10357.3	10359.1	0.53	8.94	0	0	NM	1.79E+01	1.08E+01	120	7	7
21.51985	55.34	9422.1	9422.5	0.59	2.15	0	0	NM	1.79E+01	1.08E+01	120	7	7
21.57357	41.67	9112.3	9112.6	0.46	1.8	0	0	NM	1.80E+01	1.08E+01	120	7	7
21.61886	40.41	9287	9288.8	0.44	9.54	0	0	NM	1.80E+01	1.08E+01	120	7	7
21.67258	37.37	9818.5	9821.2	0.38	14.18	0	0	NM	1.81E+01	1.08E+01	120	7	7
21.72549	42.52	9758.3	9760.7	0.44	12.44	0	0	NM	1.81E+01	1.09E+01	120	7	7
21.74754	44.83	9419.1	9421.8	0.48	13.83	0	0	NM	1.81E+01	1.09E+01	120	7	7
21.80005	48.05	9865.5	9867.9	0.49	12.24	0	0	NM	1.82E+01	1.09E+01	120	7	7
21.85216	29.88	9764.2	9766.1	0.31	9.79	0	0	NM	1.82E+01	1.09E+01	120	7	7
21.90147	0	9775.9	9776.7	0	4.14	0	0	NM	1.83E+01	1.09E+01	120	-99	7
21.92592	0	9635	9636.2	0	8.29	0	0	NM	1.83E+01	1.09E+01	120	-99	7
21.97763	0	9383.9	9384.9	0	5.39	0	0	NM	1.83E+01	1.10E+01	120	-99	7
22.03055	0	9225.3	9227	0	8.44	0	0	NM	1.84E+01	1.10E+01	120	-99	7
22.08065	0	9263.5	9264.6	0	5.79	0	0	NM	1.84E+01	1.10E+01	120	-99	7
22.13437	0	9388.3	9390.3	0	10.14	0	0	NM	1.85E+01	1.10E+01	120	-99	7
22.18127	0	8265.1	8267.2	0	10.79	0	0	NM	1.85E+01	1.10E+01	120	-99	7
22.20331	0	8002.3	8003	0	3.74	0	0	NM	1.85E+01	1.11E+01	120	-99	7

Electric Cone Penetrometer Data

Cone_TAP v 2.90

Test Id: HD-08A Date: 3-Nov-03

Site: SUNNYSIDE Cone Id: 2197.104XX

Location: QUEENS NY

Project: ROUX Soil Density(pcf): 120

Client: ROUX

Depth (ft)	Sleeve Stress (psi)	Tip Stress UNC (psi)	Tip Stress COR (psi)	Ratio COR (%)	Pore Pressure (psi)	LFFD (V)	HFFD (V)	Excitation (Vdc)	Overburden (psi)	Eff. Overburden (psi)	Wet Density (pcf)	Class. FR (Rob. 1990)	Class. PP (Rob. 1990)
0	0	0	0	0	0	0	0	NM	0.00E+00	0.00E+00	120	-99	-99
0.18127	0	58.3	58.4	0	0.25	0.0163	0.0061	NM	1.51E-01	7.25E-02	120	-99	7
0.22699	0	85.5	85.5	0	0.29	0.0069	0.003	NM	1.89E-01	9.08E-02	120	-99	7
0.27592	6.19	109	109	5.68	0.34	0.0068	0.0044	NM	2.30E-01	1.10E-01	120	9	7
0.33488	8.13	139.2	139.2	5.84	0.16	0.019	0.0038	NM	2.79E-01	1.34E-01	120	-99	-99
0.39463	8.87	205	205.1	4.32	0.34	0.0246	0.0032	NM	3.29E-01	1.58E-01	120	-99	-99
0.45038	8.36	202.2	202.3	4.13	0.29	0.0192	0.0032	NM	3.75E-01	1.80E-01	120	-99	-99
0.51856	7.41	197.9	198.1	3.74	0.68	0.0155	0.0025	NM	4.32E-01	2.07E-01	120	8	7
0.58553	15.34	214.4	214.7	7.14	1.93	0.0124	0.0026	NM	4.88E-01	2.34E-01	120	9	7
0.65612	12.44	212.2	212.2	5.86	0.08	0.0068	0.0018	NM	5.47E-01	2.62E-01	120	9	7
0.73071	9.57	208.2	208.2	4.59	0.08	0.0003	0.0007	NM	6.09E-01	2.92E-01	120	8	7
0.79969	7.68	231.4	231.4	3.41	0.25	0	0.0006	NM	6.66E-01	3.20E-01	120	8	7
0.87188	7.87	217.4	217.5	3.62	0.29	0.0004	0.0009	NM	7.27E-01	3.49E-01	120	8	7
0.94327	13.73	175.2	175.4	7.83	0.68	0.0011	0.0005	NM	7.86E-01	3.77E-01	120	9	7
1.01546	13.9	191.6	192.3	7.23	3.13	0.0004	0.0004	NM	8.46E-01	4.06E-01	120	9	7
1.08484	11.76	203.2	203.3	5.78	0.59	0.0005	0.0003	NM	9.04E-01	4.34E-01	120	9	7
1.15703	12.52	226.9	226.9	5.52	0.08	0.0004	0.0001	NM	9.64E-01	4.63E-01	120	9	7
1.22761	13.99	228.9	229.2	6.1	1.67	0.0023	0.001	NM	1.02E+00	4.91E-01	120	9	7
1.2998	15.5	230.8	232.2	6.67	7.38	0.0028	0.0011	NM	1.08E+00	5.20E-01	120	9	7
1.36999	16.96	237.8	237.9	7.13	0.59	0.0043	0.0012	NM	1.14E+00	5.48E-01	120	9	7
1.44579	20.25	252.2	252.4	8.02	0.94	0.0148	0.0033	NM	1.21E+00	5.78E-01	120	9	7
1.72747	22.38	230.3	230.7	9.7	1.8	0.1329	0.0314	NM	1.44E+00	6.91E-01	120	9	7
1.80277	24.9	211.4	212.8	11.71	6.11	0.3505	0.0297	NM	1.50E+00	7.21E-01	120	9	7
1.87768	22.53	209	209.7	10.74	3.69	0.2448	0.0421	NM	1.57E+00	7.51E-01	120	9	7
1.94578	18.38	227.2	227.5	8.08	1.54	0.2499	0.0422	NM	1.62E+00	7.78E-01	120	9	7
2.01588	17.19	227.2	227.9	7.54	3.61	0.2318	0.0398	NM	1.68E+00	8.06E-01	120	9	7
2.08878	13.21	213	212.9	6.2	-0.27	0.2591	0.0536	NM	1.74E+00	8.35E-01	120	9	7
2.15808	12.45	199.2	199.4	6.24	0.98	0.5024	0.0485	NM	1.80E+00	8.63E-01	120	9	7
2.23059	11.65	199.5	200.6	5.81	5.8	0.4275	0.0732	NM	1.86E+00	8.92E-01	120	9	7
2.30589	14.06	206.8	206.9	6.79	0.59	0.48	0.095	NM	1.92E+00	9.22E-01	120	9	7
2.37639	15.31	211.9	212.2	7.21	1.37	0.3941	0.0919	NM	1.98E+00	9.51E-01	120	9	7
2.44689	14.16	215.7	216.3	6.55	2.83	0.6424	0.1549	NM	2.04E+00	9.79E-01	120	9	7
2.51819	12.47	222.5	222.5	5.6	0.16	0.9133	0.2245	NM	2.10E+00	1.01E+00	120	9	7
2.5895	11.95	230.5	230.6	5.18	0.55	1.0661	0.2521	NM	2.16E+00	1.04E+00	120	9	7
2.6608	12.69	215.6	216.7	5.86	5.63	1.3706	0.3405	NM	2.22E+00	1.06E+00	120	9	7
2.73651	14.71	209.4	209.7	7.02	1.46	1.7747	0.4633	NM	2.28E+00	1.10E+00	120	9	7
2.80741	12.91	218.5	218.6	5.9	0.64	2.0683	0.569	NM	2.34E+00	1.12E+00	120	9	7
2.87751	12.3	216.5	216.5	5.68	-0.01	1.8943	0.5967	NM	2.40E+00	1.15E+00	120	9	7
2.94841	13.44	211.3	211.2	6.37	-0.44	1.5161	0.4434	NM	2.46E+00	1.18E+00	120	9	7

3.02051	15.92	211.9	213	7.47	5.98	1.1929	0.2843	NM	2.52E+00	1.21E+00	120	9	6
3.09021	13.92	224.6	225.2	6.18	3.01	1.479	0.3376	NM	2.58E+00	1.24E+00	120	9	7
3.16592	11.84	213.1	213.1	5.56	-0.09	1.7259	0.3846	NM	2.64E+00	1.27E+00	120	9	6
3.23642	10.16	221.6	221.5	4.59	-0.4	1.7868	0.4036	NM	2.70E+00	1.30E+00	120	9	7
3.30692	18.52	246.4	246.3	7.52	-0.4	1.74	0.4002	NM	2.76E+00	1.32E+00	120	9	7
3.37622	24.24	260.1	259.9	9.33	-0.74	1.7075	0.3949	NM	2.81E+00	1.35E+00	120	9	7
3.44832	20.23	261.9	261.9	7.72	-0.05	1.3084	0.3069	NM	2.87E+00	1.38E+00	120	9	7
3.51962	20.73	247.3	247.1	8.39	-1.09	0.9544	0.2294	NM	2.93E+00	1.41E+00	120	9	7
3.59293	18.91	221.8	222.3	8.51	3.61	0.9142	0.2083	NM	2.99E+00	1.44E+00	120	9	6
3.66383	30.22	169.9	169.9	17.79	0.12	1.1063	0.2412	NM	3.05E+00	1.47E+00	120	9	6
3.73032	90.14	197	200.5	44.96	18.12	1.5247	0.3533	NM	3.11E+00	1.49E+00	120	-99	6
3.80162	129.35	230.2	230.1	56.21	-0.18	1.5187	0.2987	NM	3.17E+00	1.52E+00	120	-99	6
3.87373	130.28	235.4	235.5	55.32	0.72	1.1875	0.1773	NM	3.23E+00	1.55E+00	120	-99	6
3.94262	127.86	257.3	257.2	49.63	-0.53	0.8371	0.1348	NM	3.29E+00	1.58E+00	120	-99	6
4.01673	99.3	409.6	410	24.22	1.8	0.7388	0.107	NM	3.35E+00	1.61E+00	120	-99	7
4.09164	37.91	410.4	410.1	9.24	-1.8	0.6113	0.096	NM	3.41E+00	1.64E+00	120	9	7
4.16454	30.99	345.7	345.4	8.97	-1.21	0.6536	0.1374	NM	3.47E+00	1.67E+00	120	9	7
4.23945	52.75	317.1	317.1	16.64	-0.27	0.6984	0.1504	NM	3.53E+00	1.70E+00	120	9	7
4.31475	44.35	222.8	222.8	19.9	0.25	0.5789	0.1278	NM	3.60E+00	1.73E+00	120	-99	6
4.38285	36.41	359.5	359.4	10.13	-0.35	0.5081	0.1095	NM	3.65E+00	1.75E+00	120	9	7
4.45535	29.84	394.2	394.1	7.57	-0.22	0.508	0.1041	NM	3.71E+00	1.78E+00	120	9	7
4.52906	34.75	266.7	267.4	13	3.65	0.3833	0.08	NM	3.77E+00	1.81E+00	120	9	6
4.59996	39.07	297	297.6	13.13	2.79	0.3393	0.0895	NM	3.83E+00	1.84E+00	120	9	6
4.67006	49.55	330.8	331.1	14.96	1.8	0.5997	0.175	NM	3.89E+00	1.87E+00	120	9	7
4.74136	73.35	332.8	333.9	21.97	5.72	0.871	0.2211	NM	3.95E+00	1.90E+00	120	-99	6
4.79103	65.64	304.3	304.3	21.57	0.34	0.7017	0.1631	NM	3.99E+00	1.92E+00	120	-99	6
4.86118	51.42	318.8	319.3	16.1	2.7	0.7422	0.1627	NM	4.05E+00	1.94E+00	120	9	6
4.93133	37.02	359.9	360.1	10.28	0.59	0.8004	0.1756	NM	4.11E+00	1.97E+00	120	9	7
5.0099	32.21	239.1	239.2	13.47	0.55	0.235	0.0472	NM	4.18E+00	2.00E+00	120	9	6
5.07965	83.77	260.8	261.4	32.04	3.01	0.3066	0.0627	NM	4.23E+00	2.03E+00	120	-99	6
5.15661	92.99	296.3	296.3	31.38	0.38	0.2777	0.0729	NM	4.30E+00	2.06E+00	120	-99	6
5.22636	76.61	358.3	358.4	21.37	0.9	0.1841	0.0459	NM	4.36E+00	2.09E+00	120	-99	7
5.29651	73.39	325.4	325.4	22.55	-0.14	0.1743	0.0372	NM	4.41E+00	2.12E+00	120	-99	6
5.36787	49.47	371.3	371.5	13.31	1.24	0.1556	0.0276	NM	4.47E+00	2.15E+00	120	9	7
5.45044	49.19	215.1	215.1	22.87	-0.05	0.0924	0.023	NM	4.54E+00	2.18E+00	120	-99	6
5.51458	58.24	472.2	472.6	12.32	1.71	0.0926	0.022	NM	4.60E+00	2.21E+00	120	9	7
5.59678	57.47	468.7	468.8	12.31	0.59	0.1667	0.0377	NM	4.66E+00	2.24E+00	120	9	7
5.6649	69.11	427	427.1	16.18	0.64	0.1803	0.0469	NM	4.72E+00	2.27E+00	120	9	7
5.73024	78.64	189.2	189.6	41.47	2.32	0.1932	0.0556	NM	4.78E+00	2.29E+00	120	-99	6
5.79919	73.52	303.6	303.9	24.2	1.11	0.2069	0.0652	NM	4.83E+00	2.32E+00	120	-99	6
5.86417	68.11	392	391.8	17.39	-1.3	0.3294	0.0825	NM	4.90E+00	2.35E+00	120	9	6
5.95793	36.25	270.5	270.4	13.4	-0.27	0.3973	0.0777	NM	4.97E+00	2.38E+00	120	9	6
6.02046	31.84	128.6	128.6	24.73	1.02	0.3125	0.0621	NM	5.02E+00	2.41E+00	120	-99	6
6.09061	30.87	63.2	63.8	48.37	3.05	0.242	0.0611	NM	5.08E+00	2.44E+00	120	-99	5
6.16117	36.08	101	101.2	35.65	1.24	0.2557	0.0623	NM	5.13E+00	2.46E+00	120	-99	6
6.23172	16.77	115.4	115.5	14.52	0.38	0.3809	0.1005	NM	5.19E+00	2.49E+00	120	3	6
6.30387	9.93	101.6	102	9.74	1.97	0.6172	0.1491	NM	5.25E+00	2.52E+00	120	3	6
6.37603	9.08	105.9	106.6	8.52	3.61	0.6428	0.1167	NM	5.31E+00	2.55E+00	120	3	6
6.44978	8.57	122.1	122.5	7	1.83	0.7058	0.1213	NM	5.38E+00	2.58E+00	120	3	6
6.51953	9	132.9	133.3	8.75	1.97	0.3819	0.0914	NM	5.43E+00	2.61E+00	120	3	6
6.59289	8.78	118.2	119.5	7.35	6.84	0.5762	0.1347	NM	5.49E+00	2.64E+00	120	3	6
6.66384	7.94	118.5	118.6	6.7	0.55	1.22	0.283	NM	5.55E+00	2.67E+00	120	3	6

6.73519	7.72	118.6	118.8	6.5	1.11	1.8243	0.4374	NM	5.61E+00	2.69E+00	120	3	6
6.80815	7.48	122.5	122.8	6.09	1.69	1.5838	0.3666	NM	5.67E+00	2.72E+00	120	3	6
6.88151	5.1	127.5	127.5	4	0.03	1.0872	0.2502	NM	5.74E+00	2.75E+00	120	4	6
6.95166	4.51	120.8	121.2	3.72	2.27	1.2132	0.299	NM	5.79E+00	2.78E+00	120	4	6
7.02181	5.03	119.1	119.2	4.22	0.85	1.1424	0.272	NM	5.85E+00	2.81E+00	120	4	6
7.09236	7.02	108.8	108.9	6.56	0.46	0.9212	0.2413	NM	5.91E+00	2.84E+00	120	3	6
7.16371	7.68	109.7	110	6.98	1.53	1.1376	0.2754	NM	5.97E+00	2.87E+00	120	3	6
7.23627	7.46	116	116.4	6.4	2.06	1.1357	0.3012	NM	6.03E+00	2.90E+00	120	3	6
7.30962	6.28	124	124.4	5.05	2.06	0.8088	0.2202	NM	6.09E+00	2.92E+00	120	3	6
7.38178	6.8	120.9	121.5	5.6	2.92	0.8338	0.2315	NM	6.15E+00	2.95E+00	120	3	6
7.45634	7.12	118.2	118.8	6	3.26	1.1315	0.3719	NM	6.21E+00	2.98E+00	120	3	6
7.52529	8.43	123.5	124	6.8	2.45	1.8276	0.5002	NM	6.27E+00	3.01E+00	120	3	6
7.59824	7.36	134.1	134.5	5.47	2.1	2.2346	0.5145	NM	6.33E+00	3.04E+00	120	3	6
7.6716	6.81	145	145.6	4.88	2.88	2.0898	0.4706	NM	6.39E+00	3.07E+00	120	4	6
7.74255	6.41	157	157.5	4.07	2.66	1.8708	0.4394	NM	6.45E+00	3.10E+00	120	4	6
7.8107	6.02	161.3	161.6	3.73	1.84	2.0371	0.4125	NM	6.51E+00	3.12E+00	120	4	6
7.88325	5.91	167.7	168.3	3.51	2.96	1.6281	0.3518	NM	6.57E+00	3.15E+00	120	4	6
7.95461	7.15	168.9	169.4	4.22	2.23	1.6314	0.3263	NM	6.63E+00	3.18E+00	120	4	6
8.21887	8.14	164.5	165.2	4.92	3.59	1.0674	0.2222	NM	6.85E+00	3.29E+00	120	4	6
8.28945	8.32	159.9	160.3	5.19	1.96	1.5739	0.3567	NM	6.91E+00	3.32E+00	120	4	6
8.36646	8.47	158.1	158.5	5.34	2.34	1.9352	0.4223	NM	6.97E+00	3.35E+00	120	3	6
8.43784	7.76	157	157.4	4.93	2.04	1.7139	0.3418	NM	7.03E+00	3.38E+00	120	4	6
8.50843	6.85	166.8	167.4	4.09	2.9	1.9984	0.343	NM	7.09E+00	3.40E+00	120	4	6
8.57781	6.7	176.5	177	3.79	2.52	2.0905	0.4116	NM	7.15E+00	3.43E+00	120	4	6
8.6504	6.34	187.2	187.9	3.38	3.33	1.8977	0.3831	NM	7.21E+00	3.46E+00	120	4	6
8.72178	6.22	197.5	197.9	3.14	1.91	1.8261	0.3628	NM	7.27E+00	3.49E+00	120	4	6
8.79878	6.89	204.1	205.1	3.26	5.4	1.6829	0.3569	NM	7.33E+00	3.52E+00	120	4	6
8.87017	7.17	204.7	205.3	3.49	3.33	1.5769	0.3413	NM	7.39E+00	3.55E+00	120	4	6
8.94156	8.05	207.5	208	3.87	2.86	0.929	0.1899	NM	7.45E+00	3.58E+00	120	4	6
9.01295	8.59	210.2	211	4.07	4.06	1.5079	0.2926	NM	7.51E+00	3.61E+00	120	4	6
9.08514	9.05	214.2	214.8	4.21	2.9	1.6632	0.3191	NM	7.57E+00	3.63E+00	120	4	6
9.15572	9.42	223.7	224.5	4.2	3.94	1.6294	0.3338	NM	7.63E+00	3.66E+00	120	4	6
9.23152	9.57	241.6	242.4	3.95	3.98	1.5139	0.3352	NM	7.69E+00	3.69E+00	120	4	6
9.30411	9.72	259.4	260.6	3.73	6.09	1.9166	0.3946	NM	7.75E+00	3.72E+00	120	4	6
9.3751	9.97	273.2	274.2	3.64	4.97	1.946	0.4023	NM	7.81E+00	3.75E+00	120	4	6
9.44648	10.31	286	286.9	3.59	5.1	1.5936	0.3383	NM	7.87E+00	3.78E+00	120	4	6
9.51827	10.68	296.9	297.7	3.59	4.58	1.3897	0.2872	NM	7.93E+00	3.81E+00	120	4	6
9.58926	10.93	305.7	306.6	3.56	4.19	1.3051	0.2567	NM	7.99E+00	3.84E+00	120	4	6
9.66385	11.43	313.4	314	3.84	3.29	1.3202	0.232	NM	8.05E+00	3.87E+00	120	4	6
9.73604	11.31	316.8	317.4	3.56	2.99	1.3426	0.2822	NM	8.11E+00	3.89E+00	120	4	6
9.80703	11.11	318	318.4	3.49	2.21	1.3494	0.2963	NM	8.17E+00	3.92E+00	120	5	6
9.87922	11.22	314.8	315.4	3.56	2.9	1.325	0.2893	NM	8.23E+00	3.95E+00	120	4	6
9.95141	11.51	311.4	311.9	3.69	2.64	1.4612	0.3014	NM	8.29E+00	3.98E+00	120	4	6
10.02159	11.55	309.3	310.4	3.72	5.66	1.8748	0.3454	NM	8.35E+00	4.01E+00	120	4	6
10.09939	11.9	308.8	309.6	3.84	4.19	1.1078	0.2402	NM	8.42E+00	4.04E+00	120	4	6
10.17038	11.87	303	303.5	3.91	2.82	1.0291	0.2057	NM	8.48E+00	4.07E+00	120	4	6
10.24096	11.99	300.4	300.9	3.98	2.8	1.1693	0.2308	NM	8.53E+00	4.10E+00	120	4	6
10.31155	11.75	294.6	295.4	3.98	4.58	1.2729	0.2348	NM	8.59E+00	4.13E+00	120	4	6
10.38334	11.47	290.9	292	3.93	5.04	1.2297	0.2301	NM	8.65E+00	4.15E+00	120	4	6
10.45473	11.36	288.9	289.6	3.92	3.81	1.3033	0.2567	NM	8.71E+00	4.18E+00	120	4	6
10.52852	11.51	289.5	290.2	3.97	3.55	1.4256	0.2808	NM	8.77E+00	4.21E+00	120	4	6
10.5985	11.44	293	294.3	3.89	6.52	1.4053	0.2814	NM	8.83E+00	4.24E+00	120	4	6

10.67169	11.47	299	300.2	3.82	6.26	1.4259	0.2678	NM	8.89E+00	4.27E+00	120	4	6
10.74388	11.53	303.9	304.7	3.78	3.94	1.3663	0.2572	NM	8.95E+00	4.30E+00	120	4	6
10.81607	11.43	307	307.8	3.71	4.37	1.5076	0.2606	NM	9.01E+00	4.33E+00	120	4	6
10.88706	11.78	308.7	309.4	3.81	3.94	1.5532	0.2717	NM	9.07E+00	4.36E+00	120	4	6
10.96045	0.49	315.1	316	0.18	4.71	1.4018	0.2509	NM	9.13E+00	4.38E+00	120	6	6
11.03144	9.55	321.1	321.8	2.97	3.76	1.42	0.2402	NM	9.19E+00	4.41E+00	120	5	6
11.10362	9.96	325.8	326.8	3.05	4.8	1.5495	0.2616	NM	9.25E+00	4.44E+00	120	5	6
11.17421	10.57	329.7	330.4	3.2	3.85	1.5542	0.2608	NM	9.31E+00	4.47E+00	120	5	6
11.2464	11.57	333.7	335.1	3.45	7.25	1.4823	0.2519	NM	9.37E+00	4.50E+00	120	4	6
11.31217	12.46	102.6	103.1	12.08	2.9	1.5574	0.2678	NM	9.43E+00	4.53E+00	120	3	5
11.35144	12.84	330	330.7	3.88	3.81	1.5498	0.2753	NM	9.46E+00	4.54E+00	120	4	6
11.42075	13.22	336.1	337	3.92	4.45	1.4868	0.2921	NM	9.52E+00	4.57E+00	120	4	6
11.48726	13.22	337.3	338.2	3.91	4.37	1.5437	0.3292	NM	9.57E+00	4.60E+00	120	4	6
11.55978	13.62	337.6	338.5	4.02	4.32	1.4827	0.3349	NM	9.63E+00	4.62E+00	120	4	6
11.6303	15.43	336.7	337.6	4.57	4.71	1.3717	0.3077	NM	9.69E+00	4.65E+00	120	4	6
11.70723	16.76	337.9	338.8	4.95	4.67	1.2554	0.3034	NM	9.76E+00	4.68E+00	120	9	6
11.77975	16.36	339.3	340	4.81	3.55	1.323	0.3253	NM	9.82E+00	4.71E+00	120	4	6
11.84746	16.25	341.5	342.4	4.75	4.58	1.3206	0.3182	NM	9.87E+00	4.74E+00	120	4	6
11.91718	15.06	350.1	350.9	4.29	4.37	1.4364	0.3358	NM	9.93E+00	4.77E+00	120	4	6
11.9893	15.87	350.5	353.8	4.48	16.98	1.5467	0.377	NM	9.99E+00	4.80E+00	120	4	6
12.05981	16.86	353	353.7	4.77	3.94	1.449	0.3879	NM	1.01E+01	4.82E+00	120	4	6
12.13474	15.04	359.7	360.5	4.17	4.11	1.3076	0.3432	NM	1.01E+01	4.85E+00	120	4	6
12.20686	14.82	358.3	359.4	4.07	5.23	1.2801	0.3134	NM	1.02E+01	4.88E+00	120	4	6
12.27778	13.46	361.7	362.4	3.71	3.51	1.2565	0.3087	NM	1.02E+01	4.91E+00	120	4	6
12.34829	14.2	368.8	369.5	3.84	3.76	1.4342	0.3418	NM	1.03E+01	4.94E+00	120	4	6
12.42001	13.92	376	376.9	3.69	4.97	1.3966	0.3763	NM	1.04E+01	4.97E+00	120	4	6
12.49013	14.96	384.3	385.2	3.88	4.93	1.3736	0.3482	NM	1.04E+01	5.00E+00	120	4	6
12.56466	16.11	388.5	389.5	4.14	4.84	1.3755	0.3508	NM	1.05E+01	5.03E+00	120	4	6
12.63677	15.4	393.5	394.3	3.9	4.62	1.4182	0.3636	NM	1.05E+01	5.06E+00	120	4	6
12.70649	14.67	399	400.1	3.67	5.7	1.3312	0.3349	NM	1.06E+01	5.08E+00	120	4	6
12.77781	15.48	403.1	405.2	3.82	11.04	1.3445	0.3282	NM	1.07E+01	5.11E+00	120	4	6
12.84873	21.69	398.7	401.1	5.41	12.42	1.0015	0.2488	NM	1.07E+01	5.14E+00	120	9	6
12.91844	23.4	401.3	402.1	5.82	4.28	1.0952	0.29	NM	1.08E+01	5.17E+00	120	9	6
12.99257	23.75	401.3	402.2	5.91	4.62	1.183	0.3089	NM	1.08E+01	5.20E+00	120	9	6
13.06388	29.29	415.2	417	7.02	9.23	1.2535	0.3586	NM	1.09E+01	5.23E+00	120	9	6
13.134	23.83	421.5	422.8	5.59	6.65	1.1527	0.3247	NM	1.10E+01	5.25E+00	120	9	6
13.20572	27.22	397.4	398.3	6.84	4.19	1.4895	0.4048	NM	1.10E+01	5.28E+00	120	9	6
13.27744	23.51	390.4	391.6	6	6.39	1.6546	0.4493	NM	1.11E+01	5.31E+00	120	9	6
13.34595	25.18	414.5	415	6.07	2.9	0.7083	0.2111	NM	1.11E+01	5.34E+00	120	9	6
13.42088	21.75	397	397.7	5.47	3.81	0.5636	0.1846	NM	1.12E+01	5.37E+00	120	9	6
13.4918	19.91	395	397.4	5.01	12.42	0.9778	0.2321	NM	1.12E+01	5.40E+00	120	9	6
13.56151	20.07	387.6	388.5	5.16	4.58	0.7758	0.2068	NM	1.13E+01	5.43E+00	120	9	6
13.62963	19.91	395.9	396.4	5.02	2.77	0.7853	0.1966	NM	1.14E+01	5.45E+00	120	9	6
13.70054	18.21	405.7	407.1	4.47	7.34	1.0431	0.2816	NM	1.14E+01	5.48E+00	120	4	6
13.76986	17.49	422.6	424.1	4.12	7.94	1.1784	0.2981	NM	1.15E+01	5.51E+00	120	4	6
13.84238	16.78	438.1	439.5	3.82	7.42	1.0531	0.2664	NM	1.15E+01	5.54E+00	120	4	6
13.9137	15.32	448.2	449.2	3.41	5.23	1.0134	0.2517	NM	1.16E+01	5.57E+00	120	5	6
13.98422	15.69	451.9	453.4	3.46	8.02	1.0848	0.2793	NM	1.17E+01	5.59E+00	120	5	6
14.05714	15.08	461.5	462	3.26	2.43	1.032	0.2864	NM	1.17E+01	5.62E+00	120	5	6
14.12725	17.28	461.7	462.8	3.74	5.53	1.0004	0.2424	NM	1.18E+01	5.65E+00	120	4	6
14.19657	17.42	472.7	475.2	3.67	12.89	0.7708	0.1894	NM	1.18E+01	5.68E+00	120	4	6
14.26989	19.07	478.1	479.3	3.98	6.09	0.5415	0.135	NM	1.19E+01	5.71E+00	120	4	6

14.34001	13.83	490.7	492	2.77	6.65	0.531	0.1237	NM	1.20E+01	5.74E+00	120	5	6
14.41133	16.84	495.1	496	3.36	4.32	0.5811	0.1313	NM	1.20E+01	5.77E+00	120	5	6
14.48144	18.68	499.6	500.4	3.73	4.41	0.6304	0.1388	NM	1.21E+01	5.79E+00	120	4	6
14.55196	18.67	507.5	508.7	3.67	8.17	0.6792	0.1583	NM	1.21E+01	5.82E+00	120	4	6
14.62128	19.33	517	518.8	3.73	9.19	0.8145	0.2	NM	1.22E+01	5.85E+00	120	4	6
14.69021	23.92	502.4	503	4.76	3.1	0.8364	0.2131	NM	1.22E+01	5.88E+00	120	9	6
14.7379	25.03	509.1	510.6	4.9	7.41	0.7923	0.1956	NM	1.23E+01	5.90E+00	120	9	6
14.77316	23.85	509	510.5	4.67	7.67	0.6663	0.1741	NM	1.23E+01	5.91E+00	120	9	6
14.83368	23.94	514.1	514.8	4.65	3.97	0.5353	0.1353	NM	1.24E+01	5.93E+00	120	9	6
14.88057	24.19	526.3	527.2	4.59	4.78	0.7272	0.1827	NM	1.24E+01	5.95E+00	120	9	6
14.94229	24.04	534.8	535.4	4.49	3.41	0.6219	0.1565	NM	1.25E+01	5.98E+00	120	9	6
14.99959	21.83	540.1	541	4.04	4.53	0.5242	0.1322	NM	1.25E+01	6.00E+00	120	4	6
15.04809	22.31	533.4	533.9	4.18	2.59	0.4415	0.1116	NM	1.25E+01	6.02E+00	120	9	6
15.09137	23.37	538	538.8	4.34	3.15	0.4334	0.108	NM	1.26E+01	6.04E+00	120	9	6
15.13184	25.18	538.3	539	4.67	3.75	0.4755	0.1159	NM	1.26E+01	6.05E+00	120	9	6
15.16591	24.52	540.9	541.3	4.53	2.33	0.511	0.1226	NM	1.26E+01	6.07E+00	120	9	6
15.19957	24.69	545	545.5	4.53	2.16	0.546	0.1292	NM	1.27E+01	6.08E+00	120	9	6
15.22963	24.1	545	545.4	4.42	2.07	0.5773	0.135	NM	1.27E+01	6.09E+00	120	9	6
15.26189	22.73	546.1	546.3	4.16	0.87	0.6107	0.1413	NM	1.27E+01	6.11E+00	120	9	6
15.30017	21.32	541.2	542	3.93	3.97	0.6507	0.1488	NM	1.28E+01	6.12E+00	120	4	6
15.34425	19.64	541.4	541.7	3.63	1.6	0.6966	0.1574	NM	1.28E+01	6.14E+00	120	5	6
15.38833	17.85	537.8	538.9	3.31	5.39	0.7425	0.166	NM	1.28E+01	6.16E+00	120	5	6
15.43322	17.11	532.8	532.9	3.21	0.69	0.7775	0.1727	NM	1.29E+01	6.17E+00	120	5	6
15.4773	17.24	531.5	532.2	3.24	3.66	0.7037	0.1597	NM	1.29E+01	6.19E+00	120	5	6
15.51978	17.81	531.4	531.8	3.35	2.16	0.6326	0.1471	NM	1.29E+01	6.21E+00	120	5	6
15.56026	17.93	529.5	529.8	3.38	1.51	0.5648	0.1352	NM	1.30E+01	6.22E+00	120	5	6
15.60154	17.69	530.5	530.6	3.33	0.78	0.4957	0.123	NM	1.30E+01	6.24E+00	120	5	6
15.64282	17.36	542.3	542.2	3.2	-0.6	0.459	0.1116	NM	1.30E+01	6.26E+00	120	5	6
15.69091	16.56	511.6	511.7	3.24	0.44	0.4733	0.1109	NM	1.31E+01	6.28E+00	120	5	6
15.75222	16.92	513.7	514.8	3.29	5.21	0.4392	0.0987	NM	1.31E+01	6.30E+00	120	5	6
15.7907	17.3	513.1	513.7	3.37	3.19	0.3444	0.0857	NM	1.32E+01	6.32E+00	120	5	6
15.83198	17.96	509.5	511.4	3.51	10.12	0.3239	0.0798	NM	1.32E+01	6.33E+00	120	5	6
15.87486	18.19	508.1	508.5	3.58	2.11	0.316	0.0789	NM	1.32E+01	6.35E+00	120	4	6
15.91453	18.34	507.6	508.2	3.61	3.02	0.3092	0.0782	NM	1.33E+01	6.37E+00	120	4	6
15.95942	18.27	505	505.9	3.61	4.4	0.307	0.0778	NM	1.33E+01	6.38E+00	120	4	6
16.00391	18.32	505.6	506.3	3.62	3.41	0.3004	0.0764	NM	1.33E+01	6.40E+00	120	4	6
16.0516	18.2	504.2	504.8	3.61	3.06	0.3	0.0766	NM	1.34E+01	6.42E+00	120	4	6
16.09648	18.19	501.5	502.1	3.62	3.02	0.2995	0.076	NM	1.34E+01	6.44E+00	120	4	6
16.14177	18.51	503.3	503.8	3.67	2.46	0.3005	0.0761	NM	1.35E+01	6.46E+00	120	4	6
16.18705	18.67	502.9	503.4	3.71	2.89	0.3017	0.0769	NM	1.35E+01	6.48E+00	120	4	6
16.23194	18.26	505.3	505.8	3.61	2.59	0.3029	0.0777	NM	1.35E+01	6.49E+00	120	4	6
16.27762	18.01	510.1	510.5	3.53	2.29	0.3041	0.0784	NM	1.36E+01	6.51E+00	120	4	6
16.32451	18.06	516.4	516.9	3.49	2.76	0.3054	0.0792	NM	1.36E+01	6.53E+00	120	5	6
16.3674	18.01	526.3	527	3.42	3.36	0.3091	0.0796	NM	1.36E+01	6.55E+00	120	5	6
16.41068	17.97	534.6	535.3	3.36	3.36	0.3083	0.0794	NM	1.37E+01	6.56E+00	120	5	6
16.45476	17.92	544.1	544.9	3.29	3.92	0.3044	0.0787	NM	1.37E+01	6.58E+00	120	5	6
16.49885	17.88	555.9	556.7	3.21	4.27	0.3005	0.078	NM	1.38E+01	6.60E+00	120	5	6
16.54173	18	561.6	562.8	3.2	6.38	0.2966	0.0773	NM	1.38E+01	6.62E+00	120	5	6
16.58541	18.83	567.4	568.3	3.31	4.4	0.2927	0.0766	NM	1.38E+01	6.63E+00	120	5	6
16.62789	19.2	577.2	577.9	3.32	3.41	0.2883	0.0762	NM	1.39E+01	6.65E+00	120	5	6
16.67077	20.15	580.6	581.2	3.47	2.8	0.2841	0.0754	NM	1.39E+01	6.67E+00	120	5	6
16.88117	27.79	605.3	606.3	4.58	5.21	0.2878	0.0752	NM	1.41E+01	6.75E+00	120	9	6

16.92686	27.3	615.7	616.5	4.43	4.14	0.2819	0.0735	NM	1.41E+01	6.77E+00	120	9	6
16.97054	27.04	622.6	623.2	4.34	3.1	0.2781	0.0719	NM	1.41E+01	6.79E+00	120	9	6
17.0006	26.87	625.9	626.4	4.29	3.02	0.2722	0.0707	NM	1.42E+01	6.80E+00	120	9	6
17.03146	26.69	636.1	636.5	4.19	2.11	0.2682	0.0698	NM	1.42E+01	6.81E+00	120	9	6
17.07033	26.47	637.2	637.3	4.15	0.56	0.2631	0.0682	NM	1.42E+01	6.83E+00	120	9	6
17.10199	25.63	626.3	628.3	4.08	10.29	0.2607	0.0675	NM	1.43E+01	6.84E+00	120	9	6
17.13486	23.65	616.4	616.7	3.84	1.9	0.2588	0.067	NM	1.43E+01	6.85E+00	120	4	6
17.16932	21.58	622.2	622.6	3.47	2.37	0.2543	0.0661	NM	1.43E+01	6.87E+00	120	5	6
17.20339	19.52	624.3	624.9	3.12	2.85	0.2556	0.0663	NM	1.43E+01	6.88E+00	120	5	6
17.24106	17.25	625.1	626.3	2.75	6.03	0.2588	0.067	NM	1.44E+01	6.90E+00	120	5	6
17.43743	5.42	646	646.8	0.84	4.4	0.2617	0.065	NM	1.45E+01	6.98E+00	120	6	6
17.79892	19.14	638.9	640.6	2.99	9	0.2513	0.0616	NM	1.48E+01	7.12E+00	120	5	6
17.99571	22.43	619.6	621.1	3.61	7.94	0.2555	0.065	NM	1.50E+01	7.20E+00	120	5	6
18.02898	22.78	628.9	630.5	3.61	8.07	0.2568	0.0656	NM	1.50E+01	7.21E+00	120	5	6
18.09232	24.51	645.5	645.9	3.79	2.27	0.2596	0.0669	NM	1.51E+01	7.24E+00	120	4	6
18.12519	22.79	643.2	644.3	3.54	5.84	0.2609	0.0676	NM	1.51E+01	7.25E+00	120	5	6
18.16007	21.01	638.9	639.7	3.28	4.59	0.2624	0.0682	NM	1.51E+01	7.26E+00	120	5	6
18.19614	19.18	642.4	642.7	2.98	1.62	0.2648	0.0695	NM	1.52E+01	7.28E+00	120	5	6
18.23583	17.16	636.7	637.6	2.69	4.59	0.2697	0.0708	NM	1.52E+01	7.29E+00	120	5	6
18.27431	15.21	633.2	634.1	2.4	4.63	0.2725	0.0699	NM	1.52E+01	7.31E+00	120	5	6
18.3152	13.14	639.8	640.1	2.05	1.84	0.2712	0.069	NM	1.53E+01	7.33E+00	120	5	6
18.35488	11.86	641.3	641.4	1.85	0.46	0.2727	0.0683	NM	1.53E+01	7.34E+00	120	5	6
18.39617	13.46	643.8	643.6	2.09	-1.09	0.2715	0.0682	NM	1.53E+01	7.36E+00	120	5	6
18.43828	14.16	649.4	649.7	2.18	1.49	0.2705	0.068	NM	1.54E+01	7.38E+00	120	5	6
18.48115	14.52	656	656	2.21	-0.14	0.2695	0.0679	NM	1.54E+01	7.39E+00	120	5	6
18.69401	19.72	686.7	689.1	2.86	12.67	0.2715	0.0697	NM	1.56E+01	7.48E+00	120	5	6
18.75494	25.5	686	686.9	3.71	4.63	0.2733	0.0712	NM	1.56E+01	7.50E+00	120	5	6
18.98223	18.8	645.1	646.8	2.88	8.48	0.2985	0.0746	NM	1.58E+01	7.59E+00	120	5	6
19.01911	18.68	630.7	631.4	2.96	3.21	0.2959	0.0747	NM	1.59E+01	7.61E+00	120	5	6
19.05478	18.76	637	637	2.95	0.12	0.2951	0.0749	NM	1.59E+01	7.62E+00	120	5	6
19.09487	18.86	643.5	643.2	2.93	-1.17	0.2967	0.0754	NM	1.59E+01	7.64E+00	120	5	6
19.13295	18.08	647.9	647.9	2.79	-0.23	0.2992	0.0762	NM	1.59E+01	7.65E+00	120	5	6
19.17063	17.82	656.3	656.7	2.71	1.92	0.3018	0.0769	NM	1.60E+01	7.67E+00	120	5	6
19.2007	18.18	670.3	670.5	2.71	0.96	0.3038	0.0774	NM	1.60E+01	7.68E+00	120	5	6
19.23356	17.27	684.8	684.9	2.52	0.33	0.306	0.0781	NM	1.60E+01	7.69E+00	120	5	6
19.45163	13.76	712.5	713.4	1.93	4.16	0.3016	0.0777	NM	1.62E+01	7.78E+00	120	5	6
19.49893	15.53	707.6	708.5	2.19	4.5	0.2995	0.0772	NM	1.63E+01	7.80E+00	120	5	6
19.54664	16.63	700	700.6	2.37	3.43	0.2911	0.0759	NM	1.63E+01	7.82E+00	120	5	6
19.75829	23.17	694.2	694.8	3.33	3.26	0.2901	0.0743	NM	1.65E+01	7.90E+00	120	5	6
19.79396	25.12	687.7	689	3.65	8.48	0.2825	0.0735	NM	1.65E+01	7.92E+00	120	5	6
19.83124	27.04	683.6	684.1	3.95	2.48	0.2807	0.0729	NM	1.65E+01	7.93E+00	120	4	6
19.86211	27.09	669.7	670.3	4.04	3.34	0.2794	0.0724	NM	1.66E+01	7.95E+00	120	4	6
19.9042	26.37	666	666	3.96	0.29	0.2778	0.0717	NM	1.66E+01	7.96E+00	120	4	6
19.93507	25.84	655.4	655.9	3.94	2.61	0.2766	0.0712	NM	1.66E+01	7.97E+00	120	4	6
19.96834	25.27	651.6	652.5	3.87	4.85	0.2753	0.0707	NM	1.66E+01	7.99E+00	120	4	6
20.00041	24.72	648.4	649.1	3.81	3.6	0.2756	0.0708	NM	1.67E+01	8.00E+00	120	4	6
20.03248	24.17	648.2	649.4	3.72	6.18	0.2772	0.0714	NM	1.67E+01	8.01E+00	120	4	6
20.06374	23.63	650.8	651.5	3.63	3.73	0.2788	0.072	NM	1.67E+01	8.03E+00	120	4	6
20.09541	23.09	655.6	656.3	3.52	4.07	0.2803	0.0727	NM	1.68E+01	8.04E+00	120	5	6
20.12588	22.57	660.2	660.9	3.41	3.77	0.2819	0.0733	NM	1.68E+01	8.05E+00	120	5	6
20.16917	21.82	677.5	678.7	3.22	6.18	0.2841	0.0741	NM	1.68E+01	8.07E+00	120	5	6
20.19963	21.3	689	690	3.09	5.58	0.2858	0.0747	NM	1.68E+01	8.08E+00	120	5	6

20.55239	17.96	675.9	677	2.65	5.45	0.2902	0.0717	NM	1.71E+01	8.22E+00	120	5	6
20.59568	17.24	670.3	671.2	2.57	4.59	0.2939	0.0714	NM	1.72E+01	8.24E+00	120	5	6
20.63497	18.19	673.9	675.5	2.69	8.29	0.2973	0.0711	NM	1.72E+01	8.25E+00	120	5	6
20.66864	18.93	687.9	689.1	2.75	6.27	0.3002	0.0708	NM	1.72E+01	8.27E+00	120	5	6
20.6999	19.04	685	686.1	2.78	5.96	0.3029	0.0705	NM	1.73E+01	8.28E+00	120	5	6
20.73037	18.55	672.1	674.1	2.75	10.18	0.3018	0.07	NM	1.73E+01	8.29E+00	120	5	6
20.93	20.79	617.7	618.1	3.36	1.92	0.3076	0.0737	NM	1.74E+01	8.37E+00	120	5	6
20.98051	20.94	629.4	630.4	3.32	5.36	0.3104	0.0742	NM	1.75E+01	8.39E+00	120	5	6
21.03222	22.08	618.5	619.7	3.56	6.39	0.3132	0.0748	NM	1.75E+01	8.41E+00	120	4	6
21.08433	23.36	623.7	624.2	3.74	2.78	0.3161	0.0754	NM	1.76E+01	8.43E+00	120	4	6
21.13484	21.52	623.8	625	3.44	5.92	0.3188	0.076	NM	1.76E+01	8.45E+00	120	4	6
21.35148	11.67	850.8	852.3	1.79	7.84	0.3307	0.0785	NM	1.78E+01	8.54E+00	120	5	6
21.39723	10.9	865.2	866.6	1.64	7.67	0.3332	0.0791	NM	1.78E+01	8.56E+00	120	5	6
21.43976	10.19	879.9	881.4	1.5	8.1	0.3356	0.0795	NM	1.79E+01	8.58E+00	120	5	6
21.63636	14.12	769.4	771	1.83	8.71	0.3265	0.0793	NM	1.80E+01	8.66E+00	120	5	6
21.68091	18.09	792.5	794	2.28	7.63	0.316	0.0776	NM	1.81E+01	8.67E+00	120	5	6
21.88714	26.02	815.9	818.1	3.18	11.11	0	0	NM	1.82E+01	8.76E+00	120	5	6
21.93208	22.9	836	837.1	2.74	5.82	0	0	NM	1.83E+01	8.77E+00	120	5	6
22.12548	17.48	883.8	884.4	1.98	3.11	0	0	NM	1.84E+01	8.85E+00	120	5	6
22.16601	17.38	905.7	906.1	1.92	1.95	0	0	NM	1.85E+01	8.87E+00	120	5	6
22.35339	14.67	969.2	970.2	1.51	5.18	0	0	NM	1.86E+01	8.94E+00	120	6	6
22.56244	21.05	933.6	936.7	2.25	15.67	0	0	NM	1.88E+01	9.03E+00	120	5	6
22.60456	19.19	898.8	898.8	2.13	-0.11	0	0	NM	1.88E+01	9.04E+00	120	5	6
22.79836	16.03	796.8	798.9	2.01	11.84	0	0	NM	1.90E+01	9.12E+00	120	5	6
22.83488	16.78	782.8	786.1	2.13	16.96	0	0	NM	1.90E+01	9.13E+00	120	5	6
22.8758	16.17	768.3	769.8	2.1	7.59	0	0	NM	1.91E+01	9.15E+00	120	5	6
23.07923	17.4	741.5	743	2.34	8.15	0	0	NM	1.92E+01	9.23E+00	120	5	6
23.13099	17.76	743	743.4	2.39	2	0	0	NM	1.93E+01	9.25E+00	120	5	6
23.18275	18.12	746.7	747	2.43	1.52	0	0	NM	1.93E+01	9.27E+00	120	5	6
23.2317	18.46	756.8	757.2	2.44	1.95	0	0	NM	1.94E+01	9.29E+00	120	5	6
23.89977	0	1007.2	1010.4	0	16.79	0	0	NM	1.99E+01	9.56E+00	120	-99	6
23.9411	0	953.5	959.6	0	31.37	0	0	NM	2.00E+01	9.58E+00	120	-99	6
24.14092	0	1025.6	1028.5	0	15.16	0	0	NM	2.01E+01	9.66E+00	120	-99	6

Electric Cone Penetrometer Data

Cone_TAP v 2.90

Test Id: HD-08B Date: 5-Nov-03

Site: SUNNYSIDE Cone Id: 108.021XXX

Location: QUEENS NY

Project: ROUX Soil Density(pcf): 120

Client: ROUX

Depth (ft)	Sleeve Stress (psi)	Tip Stress UNC (psi)	Tip Stress COR (psi)	Ratio COR (%)	Pore Pressure (psi)	LFFD (V)	HFFD (V)	Excitation (Vdc)	Overburden (psi)	Eff. Overburden (psi)	Wet Density (pcf)	Class. FR (Rob. 1990)	Class. PP (Rob. 1990)
0	0	0	0	0	0	0	0	0.998	0.00E+00	0.00E+00	120	-99	-99
0.19018	0	366.1	366.2	0	0.16	0	0	0.998	1.59E-01	7.61E-02	120	-99	-99
0.24183	0	497.4	497.5	0	0.39	0	0	0.996	2.02E-01	9.67E-02	120	-99	-99
0.29748	2.81	544.9	544.9	0.51	0.23	0	0	0.996	2.48E-01	1.19E-01	120	-99	-99
0.35033	3.26	614.7	614.7	0.53	0.16	0	0	0.996	2.92E-01	1.40E-01	120	-99	-99
0.40478	3.44	714.9	714.9	0.48	0.32	0	0	0.996	3.37E-01	1.62E-01	120	-99	-99
0.45963	4.2	761.8	761.9	0.55	0.41	0	0	0.996	3.83E-01	1.84E-01	120	-99	-99
0.67655	7.28	1061.4	1061.5	0.69	0.47	0	0	0.997	5.64E-01	2.71E-01	120	-99	-99
0.73538	6.95	1133.2	1133.3	0.61	0.47	0	0	0.997	6.13E-01	2.94E-01	120	-99	-99
0.7878	7.21	1198.9	1199	0.6	0.54	0	0	0.997	6.57E-01	3.15E-01	120	-99	-99
0.84703	8.53	1278.9	1279	0.67	0.45	0	0	0.997	7.06E-01	3.39E-01	120	-99	-99
0.91506	9.3	1535.8	1535.8	0.61	0.23	0	0	0.997	7.63E-01	3.66E-01	120	-99	-99
0.98309	0	1739.4	1739.5	0	0.43	0	0	0.996	8.19E-01	3.93E-01	120	-99	-99
1.05353	0	1824.3	1824.4	0	0.29	0	0	0.997	8.78E-01	4.21E-01	120	-99	-99
1.12636	0	2449	2449.1	0	0.58	0	0	0.997	9.39E-01	4.51E-01	120	-99	-99
1.2028	0	4379.3	4379.6	0	1.29	0	0	0.997	1.00E+00	4.81E-01	120	-99	-99
1.27843	0	5204.9	5205.2	0	1.79	0	0	0.996	1.07E+00	5.11E-01	120	-99	-99

Electric Cone Penetrometer Data

Cone_TAP v 2.90

Test Id: HD-08C Date: 5-Nov-03

Site: SUNNYSIDE Cone Id: 108.021XXX

Location: QUEENS NY

Project: ROUX Soil Density(pcf): 120

Client: ROUX

Depth (ft)	Sleeve Stress (psi)	Tip Stress UNC (psi)	Tip Stress COR (psi)	Ratio COR (%)	Pore Pressure (psi)	LFFD (V)	HFFD (V)	Excitation (Vdc)	Overburden (psi)	Eff. Overburden (psi)	Wet Density (pcf)	Class. FR (Rob. 1990)	Class. PP (Rob. 1990)
0	0	0	0	0	0	0	0	0.997	0.00E+00	0.00E+00	120	-99	-99
0.17812	0	315.2	315.2	0	0	0.0091	0.0038	0.997	1.47E-01	7.05E-02	120	-99	-99
0.37627	4.23	811.8	811.8	0.52	0.03	0.008	0.0034	0.997	3.14E-01	1.51E-01	120	-99	-99
0.4235	5.3	1034.6	1034.6	0.51	0	0.0069	0.003	0.997	3.53E-01	1.69E-01	120	-99	-99
0.46833	6.48	1214.6	1214.6	0.53	-0.02	0.0042	0.0028	0.997	3.90E-01	1.87E-01	120	-99	-99
0.52477	8.98	1480.7	1480.7	0.61	0.09	0.0015	0.0024	0.997	4.37E-01	2.10E-01	120	-99	-99
0.58361	10.59	1412.1	1412.2	0.75	0.41	0.0009	0.0024	0.997	4.86E-01	2.33E-01	120	-99	-99
0.64045	10.76	1615	1615.1	0.67	0.6	0.0035	0.0033	0.997	5.34E-01	2.56E-01	120	-99	-99
0.69889	10.62	1688.4	1688.5	0.63	0.72	0.0024	0.0026	0.997	5.82E-01	2.80E-01	120	-99	-99
0.75573	16.13	1586.6	1586.7	1.02	0.78	0.0058	0.0032	0.997	6.30E-01	3.02E-01	120	-99	-99
0.81498	33.13	1776.2	1776.3	1.87	0.8	0.0098	0.0053	0.997	6.79E-01	3.26E-01	120	-99	-99
0.87142	9.38	1845.2	1845.5	0.51	1.56	0.0108	0.0057	0.997	7.26E-01	3.49E-01	120	-99	-99
0.93506	12.67	1551.5	1551.7	0.82	1.26	0.0118	0.0049	0.997	7.79E-01	3.74E-01	120	-99	-99
0.9899	20.08	1715	1715.1	1.17	0.43	0.0208	0.0057	0.997	8.25E-01	3.96E-01	120	-99	-99
1.04794	26.06	1583.8	1584	1.77	0.91	0.047	0.0088	0.997	8.73E-01	4.19E-01	120	-99	-99
1.10078	30.06	1918.4	1918.5	1.57	0.53	0.0406	0.008	0.997	9.17E-01	4.40E-01	120	-99	-99
1.16122	34.43	2077.9	2077.9	1.66	-0.31	0.0383	0.0079	0.997	9.68E-01	4.65E-01	120	-99	-99
1.22328	44.45	2647.1	2647.2	1.68	0.89	0.0396	0.0073	0.997	1.02E+00	4.89E-01	120	-99	-99
1.27533	42.7	2693.1	2693.3	1.59	1.02	0.0486	0.0075	0.997	1.06E+00	5.10E-01	120	-99	-99
1.33298	40.07	2014.4	2014.5	1.99	0.45	0.0691	0.012	0.997	1.11E+00	5.33E-01	120	-99	-99
1.38663	36.04	1924.6	1924.8	1.87	-0.04	0.0337	0.0069	0.997	1.16E+00	5.55E-01	120	-99	-99
1.44589	30.83	1715.4	1715.4	1.8	0	0.0409	0.0075	0.997	1.21E+00	5.78E-01	120	-99	-99
1.50554	27.08	1221	1221	2.22	0	0.0563	0.0093	0.997	1.26E+00	6.02E-01	120	-99	-99
1.562	26.69	1034.5	1034.5	2.58	0.08	0.047	0.008	0.997	1.30E+00	6.25E-01	120	-99	-99
1.62005	22.4	973.4	973.4	2.3	0.07	0.0023	0.003	0.997	1.35E+00	6.48E-01	120	-99	-99
1.6745	19.69	955.9	955.9	2.06	0	0.0033	0.0031	0.997	1.40E+00	6.70E-01	120	-99	-99
1.72896	14.58	978.9	978.9	1.49	0.07	0.002	0.0026	0.997	1.44E+00	6.92E-01	120	-99	-99
1.78501	9.25	1058.6	1058.6	0.87	0.06	0.0013	0.0018	0.997	1.49E+00	7.14E-01	120	-99	-99
1.84026	8.47	1141.8	1141.9	0.74	0.16	0.0029	0.0013	0.997	1.53E+00	7.36E-01	120	-99	-99
1.89952	8.44	1181	1181	0.71	0.09	0.0049	0.001	0.997	1.58E+00	7.60E-01	120	-99	-99
1.95517	8.52	1285.2	1285.3	0.67	0.16	0.0026	0.0013	0.997	1.63E+00	7.82E-01	120	-99	-99
2.01322	8.23	1311.7	1311.7	0.63	0.07	0	0	0.997	1.68E+00	8.05E-01	120	-99	-99
2.07088	7.74	1368.4	1368.4	0.57	0.11	0	0	0.997	1.73E+00	8.28E-01	120	-99	-99
2.13734	7.5	1359.6	1359.6	0.55	0.06	0	0	0.997	1.78E+00	8.55E-01	120	-99	-99
2.2054	8.72	1342.2	1342.2	0.65	0.14	0	0	0.996	1.84E+00	8.82E-01	120	-99	-99
2.27547	12.22	1320.5	1320.5	0.93	0.04	0	0	0.997	1.90E+00	9.10E-01	120	-99	-99
2.33993	12.7	1326.9	1326.9	0.96	0.07	0	0	0.997	1.95E+00	9.36E-01	120	-99	-99
2.40479	12.32	1302.1	1302.1	0.95	0.07	0	0	0.997	2.00E+00	9.62E-01	120	-99	-99
2.46585	13.05	1239.9	1239.9	1.05	0.11	0	0	0.997	2.06E+00	9.86E-01	120	-99	-99

2.53452	13.59	1117	1117	1.22	0.11	0	0	0.997	2.11E+00	1.01E+00	120	-99	-99
2.59738	13.3	1013	1013	1.31	-0.02	0	0	0.997	2.16E+00	1.04E+00	120	6	7
2.66264	11	988.5	988.6	1.11	0.07	0	0	0.997	2.22E+00	1.07E+00	120	6	7
2.7283	8.47	984.9	984.9	0.86	0.09	0	0	0.997	2.27E+00	1.09E+00	120	7	7
2.79797	7.78	940.2	940.2	0.83	0.07	0	0	0.997	2.33E+00	1.12E+00	120	7	7
2.86643	6.88	648	648	1.06	0.04	0	0	0.997	2.39E+00	1.15E+00	120	6	7
2.9369	6.44	652.9	653	0.99	0.11	0	0	0.997	2.45E+00	1.18E+00	120	6	7
3.00696	6.33	655.1	655.1	0.97	0.05	0	0	0.997	2.51E+00	1.20E+00	120	6	7
3.07903	8.65	659.3	659.3	1.31	0.23	0	0	0.997	2.57E+00	1.23E+00	120	6	7
3.1479	5.57	651	651	0.86	-0.04	0	0	0.997	2.62E+00	1.26E+00	120	6	7
3.20835	5.15	656.3	656.2	0.79	-0.22	0	0	0.997	2.67E+00	1.28E+00	120	6	7
3.27922	5	577.8	577.8	0.87	0.01	0	0	0.997	2.73E+00	1.31E+00	120	6	7
3.34486	4.75	593	593	0.8	0.05	0	0	0.997	2.79E+00	1.34E+00	120	6	7
3.41815	4.56	652.7	652.6	0.7	-0.2	0	0	0.997	2.85E+00	1.37E+00	120	7	7
3.48822	4.2	701.8	701.8	0.6	-0.18	0	0	0.997	2.91E+00	1.40E+00	120	7	7
3.55949	4.21	749.1	749	0.56	-0.22	0	0	0.997	2.97E+00	1.42E+00	120	7	7
3.63115	4.18	784.1	784.1	0.53	-0.2	0	0	0.997	3.03E+00	1.45E+00	120	7	7
3.70322	4.14	802.9	802.9	0.52	-0.08	0	0	0.997	3.09E+00	1.48E+00	120	7	7
3.77369	3.91	802.6	802.6	0.49	-0.13	0	0	0.997	3.15E+00	1.51E+00	120	7	7
3.84656	3.71	815.4	815.4	0.46	-0.08	0	0	0.997	3.21E+00	1.54E+00	120	7	7
3.91662	3.76	806.2	806.2	0.47	-0.11	0	0	0.997	3.26E+00	1.57E+00	120	7	7
3.98909	3.53	775.9	775.8	0.45	-0.02	0	0	0.997	3.32E+00	1.60E+00	120	7	7
4.05956	0	736.6	736.6	0	0.01	0	0	0.997	3.38E+00	1.62E+00	120	-99	7
4.13243	0	704.3	704.3	0	0.12	0	0	0.997	3.44E+00	1.65E+00	120	-99	7
4.2033	0	655.1	655.1	0	0.09	0	0	0.997	3.50E+00	1.68E+00	120	-99	7
4.27897	0	595.7	595.8	0	0.14	0	0	0.997	3.57E+00	1.71E+00	120	-99	7
4.34983	0	558.2	558.2	0	0.04	0	0	0.997	3.63E+00	1.74E+00	120	-99	7

Electric Cone Penetrometer Data

Cone_TAP v 2.90

Test Id: HD-08D Date: 5-Nov-03

Site: SUNNYSIDE Cone Id: 108.021XXX

Location: QUEENS NY GWT (ft): 5

Project: ROUX Soil Density(pcf): 120

Client: ROUX

Depth (ft)	Sleeve Stress (psi)	Tip Stress UNC (psi)	Tip Stress COR (psi)	Ratio COR (%)	Pore Pressure (psi)	LFFD (V)	HFFD (V)	Excitation (Vdc)	Overburden (psi)	Eff. Overburden (psi)	Wet Density (pcf)	Class. FR (Rob. 1990)	Class. PP (Rob. 1990)
0	0	0	0	0	0	0	0	0.996	0.00E+00	0.00E+00	120	-99	-99
0.0004	0	-4.2	-4.3	0	-0.13	-0.0307	-0.0032	0.997	3.33E-04	3.33E-04	120	-99	-99
0.05085	0	59.3	59.3	0	-0.03	-0.0416	-0.0046	0.996	4.24E-02	4.24E-02	120	-99	-99
0.1113	0	114.5	114.5	0	-0.03	-0.0801	-0.0089	0.997	9.28E-02	9.28E-02	120	-99	-99
0.17216	0	165.6	165.6	0	-0.03	-0.0808	-0.0089	0.996	1.44E-01	1.44E-01	120	-99	-99
0.23102	0	395.8	395.8	0	-0.08	-0.0826	-0.0091	0.997	1.93E-01	1.93E-01	120	-99	-99
0.28507	4.38	420.4	420.4	1.04	0.04	-0.0751	-0.0079	0.996	2.38E-01	2.38E-01	120	-99	-99
0.34593	3.47	602.7	602.7	0.58	0.04	-0.0698	-0.0048	0.996	2.88E-01	2.88E-01	120	-99	-99
0.40358	3.75	769.2	769.2	0.49	-0.06	-0.0719	-0.0074	0.997	3.36E-01	3.36E-01	120	-99	-99
0.46404	5.92	978	978	0.61	-0.08	-0.0727	-0.0063	0.997	3.87E-01	3.87E-01	120	-99	-99
0.51649	6.07	1327.5	1327.5	0.46	-0.03	-0.0722	-0.0061	0.997	4.30E-01	4.30E-01	120	-99	-99
0.57534	7.47	1391.1	1391.1	0.54	0.04	-0.0519	-0.0045	0.996	4.80E-01	4.80E-01	120	-99	-99
0.633	7.79	1365.7	1365.8	0.57	0.04	-0.0661	-0.0066	0.996	5.28E-01	5.28E-01	120	-99	-99
0.68785	8.11	1318.3	1318.3	0.62	-0.1	-0.0641	-0.0063	0.997	5.73E-01	5.73E-01	120	-99	-99
0.7415	9.71	1311	1311	0.74	0.04	-0.0655	-0.0067	0.996	6.18E-01	6.18E-01	120	-99	-99
0.79675	9.31	1420.5	1420.5	0.66	-0.07	-0.0723	-0.0073	0.996	6.64E-01	6.64E-01	120	-99	-99
0.8496	9.55	1355.2	1355.1	0.7	-0.08	-0.0791	-0.0069	0.997	7.08E-01	7.08E-01	120	-99	-99
0.90566	9.88	1429.2	1429.3	0.69	0.08	-0.1138	-0.0087	0.996	7.55E-01	7.55E-01	120	-99	-99
0.95891	9.18	1563.7	1563.7	0.59	0.18	-0.129	-0.0145	0.996	7.99E-01	7.99E-01	120	-99	-99
0.98894	9	1397.9	1397.9	0.64	-0.03	-0.1319	-0.0154	0.997	8.24E-01	8.24E-01	120	-99	-99
1.039	8.88	1359.8	1359.8	0.65	0.24	-0.1345	-0.0153	0.996	8.66E-01	8.66E-01	120	-99	-99
1.09466	8.21	1153.2	1153.2	0.71	-0.1	-0.1336	-0.0159	0.996	9.12E-01	9.12E-01	120	-99	-99
1.15033	8.41	1050.5	1050.6	0.8	0.15	-0.133	-0.0161	0.996	9.59E-01	9.59E-01	120	-99	-99
1.20399	8.76	1031.8	1031.8	0.85	0.01	-0.1315	-0.0153	0.997	1.00E+00	1.00E+00	120	-99	-99
1.26128	8.31	1040.9	1040.9	0.8	0.08	-0.1312	-0.0153	0.996	1.05E+00	1.05E+00	120	7	7
1.31813	7.28	1033.1	1033.1	0.7	0.08	-0.13	-0.0137	0.996	1.10E+00	1.10E+00	120	7	7
1.37019	6.91	1009.1	1009.1	0.68	0.02	-0.1295	-0.0139	0.996	1.14E+00	1.14E+00	120	7	7
1.42265	6.78	990.3	990.3	0.68	0.08	-0.1275	-0.0113	0.996	1.19E+00	1.19E+00	120	7	7
1.47351	6.95	968.4	968.4	0.72	-0.08	-0.1274	-0.0133	0.997	1.23E+00	1.23E+00	120	7	7
1.52678	7.8	951.7	951.7	0.82	0.04	-0.1252	-0.0141	0.996	1.27E+00	1.27E+00	120	7	7
1.57964	8.48	927.3	927.3	0.91	0.06	-0.1258	-0.0146	0.997	1.32E+00	1.32E+00	120	6	7
1.6333	9.31	947.5	947.5	0.98	-0.01	-0.1185	-0.0096	0.996	1.36E+00	1.36E+00	120	6	7
1.68656	10	960.8	960.8	1.04	-0.03	-0.1237	-0.0114	0.996	1.41E+00	1.41E+00	120	6	7
1.74263	10.1	1018.8	1018.8	0.99	-0.07	-0.1307	-0.0146	0.996	1.45E+00	1.45E+00	120	6	7
1.79429	10.12	1062.5	1062.4	0.95	-0.09	-0.1299	-0.0148	0.996	1.50E+00	1.50E+00	120	6	7
1.84836	10.05	1205.6	1205.8	0.83	-0.05	-0.1284	-0.0151	0.996	1.54E+00	1.54E+00	120	7	7
1.90082	10.85	1311	1311	0.83	-0.12	-0.1264	-0.0143	0.997	1.58E+00	1.58E+00	120	7	7
1.95408	11.35	1215.3	1215.3	0.93	-0.08	-0.1278	-0.0138	0.997	1.63E+00	1.63E+00	120	6	7
2.00654	10.79	1158.3	1158.5	0.93	1.01	-0.1294	-0.0132	0.997	1.67E+00	1.67E+00	120	6	7

2.06021	10.2	1171.1	1171.3	0.87	0.97	-0.1231	-0.0104	0.996	1.72E+00	1.72E+00	120	6	7
2.11307	9.69	1194.1	1194.3	0.81	0.73	-0.1294	-0.0127	0.996	1.76E+00	1.76E+00	120	7	7
2.17074	9.05	1228.2	1228.3	0.74	0.46	-0.1251	-0.0116	0.997	1.81E+00	1.81E+00	120	7	7
2.2228	8.36	1161.5	1161.5	0.72	0.39	-0.1178	-0.0089	0.998	1.85E+00	1.85E+00	120	7	7
2.27646	8.05	1090.7	1090.8	0.74	0.43	-0.1149	-0.0068	0.997	1.90E+00	1.90E+00	120	7	7
2.32853	7.66	1066.3	1066.4	0.72	0.45	-0.1183	-0.0051	0.997	1.94E+00	1.94E+00	120	7	7
2.3866	7.47	1011.5	1011.6	0.74	0.46	-0.0884	-0.0015	0.997	1.99E+00	1.99E+00	120	6	7
2.44226	7.16	950.3	950.4	0.75	0.66	-0.0501	0.0093	0.996	2.04E+00	2.04E+00	120	6	7
2.49552	6.69	934.6	934.7	0.72	0.46	-0.0397	0.0068	0.998	2.08E+00	2.08E+00	120	6	7
2.55079	6.05	864.9	865	0.7	0.67	0.0312	0.0146	0.997	2.13E+00	2.13E+00	120	6	7
2.60886	6.05	793.5	793.6	0.76	0.54	0.0855	0.0245	0.997	2.17E+00	2.17E+00	120	6	7
2.65932	5.76	727.8	727.9	0.79	0.52	0.0923	0.0272	0.997	2.22E+00	2.22E+00	120	6	7
2.71218	7.06	669.5	669.6	1.05	0.68	0.087	0.0229	0.996	2.26E+00	2.26E+00	120	6	7
2.76624	8.93	604.2	604.2	1.48	0.41	0.0723	0.028	0.997	2.31E+00	2.31E+00	120	6	7
2.81951	10.16	504	504.1	2.02	0.11	0.0248	0.0253	0.997	2.35E+00	2.35E+00	120	6	7
2.87157	10.45	526.5	526.6	1.98	0.21	-0.0162	0.0193	0.998	2.39E+00	2.39E+00	120	6	7
2.92443	9.33	539.5	539.5	1.73	0.15	0.015	0.0311	0.997	2.44E+00	2.44E+00	120	6	7
2.97809	8.18	501.7	501.7	1.63	0.17	-0.0642	0.0097	0.996	2.48E+00	2.48E+00	120	6	7
3.03416	7.56	379.4	379.5	1.99	0.23	-0.0354	0.0205	0.997	2.53E+00	2.53E+00	120	6	6
3.08582	7.2	342.3	342.3	2.1	0.15	-0.0694	0.0137	0.996	2.57E+00	2.57E+00	120	5	6
3.13829	6.18	339.4	339.5	1.82	0.83	-0.0658	0.0117	0.997	2.62E+00	2.62E+00	120	5	6
3.19035	5.84	380.2	380.4	1.53	0.88	-0.051	0.0188	0.996	2.66E+00	2.66E+00	120	6	6
3.25122	5.67	512.9	513.1	1.11	1.24	0.028	0.0354	0.996	2.71E+00	2.71E+00	120	6	7
3.30368	5.53	592	592.2	0.93	0.94	0.091	0.0499	0.997	2.75E+00	2.75E+00	120	6	7
3.35975	4.8	622.8	622.9	0.77	0.65	0.1615	0.0658	0.996	2.80E+00	2.80E+00	120	6	7
3.41301	4.41	668.4	668.6	0.66	0.7	0.2534	0.0972	0.997	2.84E+00	2.84E+00	120	6	7
3.47068	4.39	701.8	702	0.62	0.79	0.4117	0.1722	0.996	2.89E+00	2.89E+00	120	6	7
3.52274	4.39	727.8	727.9	0.6	0.61	0.5694	0.2563	0.997	2.94E+00	2.94E+00	120	6	7
3.57841	4.33	716.5	716.6	0.6	0.6	0.6069	0.2867	0.997	2.98E+00	2.98E+00	120	6	7
3.63407	4.32	731.6	731.8	0.59	0.68	0.5569	0.273	0.996	3.03E+00	3.03E+00	120	6	7
3.68814	4.11	720	720.2	0.57	0.71	0.6224	0.3165	0.996	3.07E+00	3.07E+00	120	6	7
3.7402	3.83	712.6	712.7	0.54	0.61	0.6468	0.3369	0.997	3.12E+00	3.12E+00	120	6	7
3.79346	3.74	715.6	715.7	0.52	0.61	0.5781	0.3045	0.996	3.16E+00	3.16E+00	120	6	7
3.84632	3.71	701.8	702	0.53	0.7	0.6032	0.3175	0.996	3.21E+00	3.21E+00	120	6	7
3.90119	3.17	711.5	711.6	0.45	0.7	0.4989	0.2684	0.996	3.25E+00	3.25E+00	120	6	7
3.95365	2.21	717.6	717.7	0.31	0.68	0.4625	0.2488	0.997	3.30E+00	3.30E+00	120	6	7
4.00692	2.42	722.5	722.7	0.33	0.66	0.4453	0.236	0.996	3.34E+00	3.34E+00	120	6	7
4.06018	2.34	724.5	724.6	0.32	0.59	0.4322	0.2281	0.997	3.38E+00	3.38E+00	120	6	7
4.11504	2.3	718.1	718.2	0.32	0.56	0.4978	0.2522	0.997	3.43E+00	3.43E+00	120	6	7
4.16751	2.26	698.2	698.3	0.32	0.59	0.4992	0.2494	0.997	3.47E+00	3.47E+00	120	6	7
4.21957	2.21	659.9	660	0.34	0.47	0.4046	0.2105	0.997	3.52E+00	3.52E+00	120	6	7
4.29933	2.36	574.2	574.3	0.41	0.37	0.4186	0.2153	0.997	3.58E+00	3.58E+00	120	6	6
4.35264	2.36	540.5	540.6	0.44	0.4	0.2244	0.1388	0.997	3.63E+00	3.63E+00	120	6	6
4.40515	2.33	511.3	511.4	0.46	0.3	0.4631	0.2243	0.997	3.67E+00	3.67E+00	120	6	6
4.45847	2.36	486.5	486.5	0.48	0.3	0.6405	0.2875	0.997	3.72E+00	3.72E+00	120	6	6
4.51098	2.3	466.2	466.2	0.49	0.23	0.7623	0.3305	0.997	3.76E+00	3.76E+00	120	6	6
4.5671	2.32	456.3	456.4	0.51	0.35	0.6638	0.2885	0.997	3.81E+00	3.81E+00	120	6	6
4.62202	2.27	447.1	447.1	0.51	0.28	0.68	0.2924	0.997	3.85E+00	3.85E+00	120	6	6
4.67573	2.28	446.9	446.9	0.51	0.23	0.6617	0.2911	0.997	3.90E+00	3.90E+00	120	6	6
4.72744	2.51	454.7	454.8	0.55	0.26	0.7256	0.3207	0.997	3.94E+00	3.94E+00	120	6	6
4.78397	2.98	467.6	467.6	0.63	0.23	0.7885	0.3391	0.997	3.99E+00	3.99E+00	120	6	6
4.83728	3.17	484.1	484.2	0.65	0.27	0.47	0.2127	0.997	4.03E+00	4.03E+00	120	6	6

4.89741	2.86	502.1	502.1	0.57	0.27	0.4788	0.2203	0.997	4.08E+00	4.08E+00	120	6	6
4.95193	8.04	519.4	519.5	1.55	0.34	0.5874	0.2571	0.997	4.13E+00	4.13E+00	120	6	6
5.00804	7.32	540.3	540.4	1.35	0.39	0.705	0.2739	0.997	4.17E+00	4.17E+00	120	6	6
5.06336	2.41	565.5	565.6	0.43	0.36	0.8336	0.2913	0.997	4.22E+00	4.19E+00	120	6	6
5.11908	3.59	619.6	619.6	0.58	0.41	1.0503	0.3397	0.997	4.27E+00	4.21E+00	120	6	6
5.1716	10.32	737.1	737.2	1.4	0.43	0.9019	0.3046	0.998	4.31E+00	4.24E+00	120	6	7
5.23493	18.81	1053.8	1053.9	1.79	0.35	0.8606	0.2811	0.997	4.36E+00	4.26E+00	120	6	7
5.28143	15.43	1330.3	1330.4	1.16	0.54	0.8035	0.2706	0.997	4.40E+00	4.28E+00	120	6	7
5.33474	15.55	1509.6	1509.7	1.03	0.34	0.6565	0.2242	0.998	4.45E+00	4.30E+00	120	6	7
5.39608	16.48	1815.4	1815.4	0.91	0.15	0.7034	0.226	0.997	4.50E+00	4.33E+00	120	6	7
5.4558	16.56	1547	1547	1.07	0.28	0.944	0.2762	0.997	4.55E+00	4.35E+00	120	6	7
5.50872	16.62	588.7	588.7	2.83	0.24	1.0078	0.2925	0.997	4.59E+00	4.37E+00	120	5	6
5.56444	24.57	454	454	5.41	0.46	1.0795	0.3147	0.997	4.64E+00	4.39E+00	120	9	6
5.62136	21.45	553.5	553.7	3.87	0.6	1.0653	0.3052	0.997	4.68E+00	4.42E+00	120	8	6
5.67547	22.7	859.2	859.3	2.64	0.57	0.6683	0.1981	0.997	4.73E+00	4.44E+00	120	5	7
5.7328	20.69	1314.7	1314.7	1.57	0.3	0.0505	0.0409	0.997	4.78E+00	4.46E+00	120	6	7
5.79212	17.02	1570.3	1570.3	1.08	0.25	0.0782	0.0493	0.998	4.83E+00	4.48E+00	120	6	7
5.84945	15.3	1489.9	1489.9	1.03	0.23	0.1183	0.0585	0.997	4.88E+00	4.51E+00	120	6	7
5.90637	16.38	1291.2	1291.2	1.27	0.17	0.076	0.0453	0.997	4.92E+00	4.53E+00	120	6	7
5.96129	21.5	1120.1	1120.1	1.92	0.21	0.0284	0.0327	0.997	4.97E+00	4.55E+00	120	6	7
6.0166	21.27	913.3	913.4	2.33	0.44	0.0563	0.04	0.997	5.01E+00	4.57E+00	120	6	7
6.07834	17.2	1015.1	1015.2	1.69	0.35	0.0247	0.0297	0.997	5.07E+00	4.60E+00	120	6	7
6.13205	13.35	860	860.1	1.55	0.46	0.2295	0.0869	0.997	5.11E+00	4.62E+00	120	6	7
6.18497	12.18	843.5	843.5	1.44	0.46	0.7268	0.2154	0.997	5.15E+00	4.64E+00	120	6	7
6.23627	11.3	782.4	782.5	1.44	0.46	0.895	0.2492	0.997	5.20E+00	4.66E+00	120	6	7
6.29079	9.49	902.3	902.4	1.05	0.49	0.3135	0.1069	0.997	5.24E+00	4.68E+00	120	6	7
6.34972	6.84	685.8	685.9	1	0.41	0.3439	0.1121	0.997	5.29E+00	4.71E+00	120	6	6
6.39942	9.49	712	712.1	1.33	0.5	0.3908	0.1236	0.997	5.33E+00	4.73E+00	120	6	6
6.45314	17.33	713.4	713.5	2.43	0.59	-0.0207	0.0191	0.997	5.38E+00	4.75E+00	120	5	6
6.50325	21.03	748.2	748.3	2.81	0.68	-0.0608	0.0083	0.997	5.42E+00	4.77E+00	120	5	6
6.55736	20.23	802.6	802.7	2.52	0.66	-0.0477	0.0103	0.997	5.46E+00	4.79E+00	120	5	7
6.60987	19.61	825.2	825.3	2.38	0.59	-0.0547	0.0075	0.997	5.51E+00	4.81E+00	120	5	7
6.66359	19.11	799	799.1	2.39	0.59	-0.0604	0.0057	0.997	5.55E+00	4.83E+00	120	5	6
6.7169	18.36	810.3	810.4	2.27	0.6	-0.059	0.0061	0.997	5.60E+00	4.85E+00	120	5	6
6.77142	18.75	759	759	2.47	0.32	-0.0096	0.0222	0.997	5.64E+00	4.88E+00	120	5	6
6.82393	20.42	653.8	653.9	3.12	0.45	-0.0319	0.0138	0.997	5.69E+00	4.90E+00	120	5	6
6.88005	20.74	844.3	844.4	2.46	0.49	-0.0396	0.0104	0.997	5.73E+00	4.92E+00	120	5	7
6.93417	18.98	967.5	967.6	1.96	0.34	0.0725	0.0367	0.998	5.78E+00	4.94E+00	120	6	7
6.98829	17.54	981.9	982	1.79	0.51	0.0348	0.0308	0.996	5.82E+00	4.96E+00	120	6	7
7.0412	16.97	965.8	965.9	1.76	0.58	0.217	0.0789	0.997	5.87E+00	4.98E+00	120	6	7
7.09812	16.4	733.8	734	2.23	0.66	0.5749	0.1801	0.997	5.92E+00	5.01E+00	120	5	6
7.15264	15.44	539.9	540	2.86	0.47	1.0817	0.3147	0.998	5.96E+00	5.03E+00	120	5	6
7.20635	13.04	481.8	481.9	2.71	0.68	0.8309	0.2232	0.997	6.01E+00	5.05E+00	120	5	6
7.26007	13.34	500.3	500.4	2.67	0.61	1.0492	0.2712	0.997	6.05E+00	5.07E+00	120	5	6
7.31498	9.58	512.5	512.6	1.87	0.61	1.2411	0.3256	0.997	6.10E+00	5.09E+00	120	5	6
7.3683	5.06	507	507.1	1	0.61	1.1049	0.2749	0.997	6.14E+00	5.11E+00	120	6	6
7.42402	3.28	488.8	489	0.67	0.73	0.8963	0.2222	0.996	6.19E+00	5.14E+00	120	6	6
7.47934	3.07	494	494.1	0.62	0.54	0.8656	0.2173	0.997	6.23E+00	5.16E+00	120	6	6
7.51481	3.41	442.3	442.5	0.77	0.75	0.8564	0.2117	0.997	6.26E+00	5.17E+00	120	6	6
7.53256	3.62	479.6	479.7	0.75	0.75	0.8817	0.2167	0.996	6.28E+00	5.18E+00	120	6	6
7.60523	4.31	553	553.1	0.78	0.89	0.9779	0.2273	0.996	6.34E+00	5.21E+00	120	6	6
7.65615	5.06	590	590.2	0.86	0.88	0.8168	0.187	0.996	6.38E+00	5.23E+00	120	6	6

7.71509	7.82	618.2	618.3	1.26	0.86	0.5287	0.1217	0.997	6.43E+00	5.25E+00	120	6	6
7.76962	9.09	648	648.2	1.4	0.97	0.8339	0.208	0.996	6.48E+00	5.28E+00	120	6	6
7.82495	7.92	714.2	714.4	1.11	0.93	1.4025	0.3664	0.996	6.52E+00	5.30E+00	120	6	6
7.87748	8.1	770.8	771	1.05	0.93	1.5863	0.4369	0.996	6.57E+00	5.32E+00	120	6	6
7.93281	7.68	795.4	795.6	0.96	0.96	1.551	0.4486	0.997	6.61E+00	5.34E+00	120	6	6
7.98453	6.74	840.4	840.6	0.8	1.08	1.2376	0.3584	0.997	6.65E+00	5.36E+00	120	6	6
8.03706	8.62	888	888.2	0.97	1.27	1.1702	0.3246	0.996	6.70E+00	5.38E+00	120	6	6
8.08638	10.71	829.3	829.5	1.29	0.99	1.3358	0.3689	0.997	6.74E+00	5.40E+00	120	6	6
8.13569	11.46	1050.7	1050.8	1.09	0.96	0.8957	0.236	0.997	6.78E+00	5.42E+00	120	6	7
8.19062	12.64	874.6	874.7	1.44	0.81	0.648	0.1666	0.997	6.83E+00	5.44E+00	120	6	6
8.24836	11.88	745.4	745.6	1.59	0.96	0.566	0.1399	0.997	6.87E+00	5.47E+00	120	6	6
8.30289	10.51	801.4	801.6	1.31	0.89	0.4922	0.1229	0.997	6.92E+00	5.49E+00	120	6	6
8.35742	11.31	880.4	880.6	1.28	0.86	0.3705	0.0871	0.997	6.97E+00	5.51E+00	120	6	6
8.40874	12.04	794.8	795	1.51	0.99	0.3011	0.0677	0.997	7.01E+00	5.53E+00	120	6	6
8.46528	10.58	760.9	761.1	1.39	0.91	0.3168	0.0658	0.996	7.05E+00	5.55E+00	120	6	6
8.52101	8.39	718.9	719.1	1.17	0.94	0.4192	0.0802	0.997	7.10E+00	5.58E+00	120	6	6
8.57434	8.12	714.5	714.7	1.14	0.98	0.8277	0.1189	0.997	7.15E+00	5.60E+00	120	6	6
8.62646	9.57	776.4	776.6	1.23	1.15	0.5374	0.1	0.996	7.19E+00	5.62E+00	120	6	6
8.6842	9.76	797.8	797.8	1.22	1.12	0.6205	0.1192	0.997	7.24E+00	5.64E+00	120	6	6
8.73993	15.2	737.7	737.9	2.06	1.15	0.3673	0.0751	0.996	7.28E+00	5.66E+00	120	5	6
8.79646	25.75	806.5	806.7	3.19	1.04	0.2056	0.0545	0.996	7.33E+00	5.69E+00	120	5	6
8.84818	25.7	1135.3	1135.5	2.26	0.98	0.456	0.102	0.997	7.37E+00	5.71E+00	120	6	7
8.90753	24.71	1446.4	1446.6	1.71	1.01	0.0023	0.0144	0.996	7.42E+00	5.73E+00	120	6	7
8.96286	23.4	1071.7	1072	2.18	1.1	0.0081	0.0136	0.996	7.47E+00	5.75E+00	120	6	7
9.01659	24.4	1038.1	1038.3	2.35	1.08	0.1259	0.0433	0.996	7.51E+00	5.77E+00	120	5	7
9.07152	26.9	792.4	792.6	3.39	0.95	0.6126	0.1598	0.996	7.56E+00	5.80E+00	120	8	6
9.12284	27.7	515.9	516	5.37	0.94	0.6285	0.1733	0.997	7.60E+00	5.82E+00	120	9	6
9.17496	25.54	554.5	554.7	4.6	0.98	0.5201	0.1421	0.997	7.65E+00	5.84E+00	120	9	6
9.2295	25.82	588.4	588.6	4.39	1.01	0.0905	0.0349	0.997	7.69E+00	5.86E+00	120	9	6
9.28082	22.49	609.3	609.5	3.69	1.01	0.235	0.072	0.996	7.73E+00	5.88E+00	120	5	6
9.33815	11.26	660.4	660.6	1.7	1.01	0.5449	0.1317	0.996	7.78E+00	5.90E+00	120	5	6
9.38948	9.11	735.5	735.7	1.24	0.99	0.3881	0.1066	0.997	7.83E+00	5.92E+00	120	6	6
9.4432	11.79	845.4	845.6	1.39	0.97	0.6857	0.1729	0.996	7.87E+00	5.94E+00	120	6	6
9.49332	15.88	995.3	995.5	1.6	0.91	0.343	0.0915	0.996	7.91E+00	5.96E+00	120	6	6
9.55106	17.51	966	966.1	1.81	0.9	0.2194	0.0589	0.997	7.96E+00	5.99E+00	120	6	6
9.60679	15.81	1057.2	1057.3	1.5	0.87	0.2447	0.0704	0.997	8.01E+00	6.01E+00	120	6	7
9.66012	15	1133.4	1133.6	1.32	0.83	0.2631	0.0759	0.997	8.05E+00	6.03E+00	120	6	7
9.71144	14.92	1280.2	1280.3	1.17	0.75	0.2158	0.0615	0.996	8.09E+00	6.05E+00	120	8	7
9.76397	14.91	1225.4	1225.5	1.22	0.8	0.221	0.0635	0.996	8.14E+00	6.07E+00	120	6	7
9.81689	13.96	1069.6	1069.7	1.3	0.78	0.2378	0.0717	0.997	8.18E+00	6.09E+00	120	8	7
9.87383	13.35	1000	1000.2	1.33	1.06	0.2639	0.0838	0.996	8.23E+00	6.12E+00	120	6	6
9.92595	12.49	1047.3	1047.5	1.19	1.11	0.3233	0.104	0.996	8.27E+00	6.14E+00	120	6	7
9.98369	11.18	1063.5	1063.7	1.05	1.06	0.5727	0.1813	0.996	8.32E+00	6.16E+00	120	6	7
10.04183	8.63	1099.3	1099.5	0.78	1.1	0.3824	0.1237	0.996	8.37E+00	6.18E+00	120	6	7
10.09636	7.72	1139.7	1140	0.68	1.23	0.5647	0.1757	0.996	8.41E+00	6.21E+00	120	8	7
10.14808	6.95	1157.3	1157.5	0.6	1.1	0.8277	0.1842	0.996	8.46E+00	6.23E+00	120	8	7
10.20943	5.88	1197.4	1197.6	0.49	1.06	0.3349	0.1024	0.996	8.51E+00	6.25E+00	120	6	7
10.26276	5.52	1249.8	1250	0.44	0.72	0.3881	0.1141	0.997	8.55E+00	6.27E+00	120	6	7
10.31648	5.52	1317	1317.2	0.42	0.94	0.5063	0.1395	0.996	8.60E+00	6.29E+00	120	8	7
10.36981	6.1	1342.7	1342.9	0.45	0.99	0.5586	0.153	0.997	8.64E+00	6.32E+00	120	6	7
10.42474	7.57	1334	1334.2	0.57	1.1	0.356	0.099	0.996	8.69E+00	6.34E+00	120	6	7
10.47767	6.04	1375.4	1375.6	0.44	1.1	0.3055	0.087	0.996	8.73E+00	6.36E+00	120	8	7

10.5322	5.75	1417.7	1417.9	0.41	0.96	0.4059	0.1014	0.997	8.78E+00	8.38E+00	120	6	7
10.58592	6.29	1414.1	1414.3	0.44	1.15	0.324	0.08	0.996	8.82E+00	8.40E+00	120	6	7
10.64206	6.19	1433.7	1433.9	0.43	1	0.3777	0.0905	0.997	8.87E+00	8.42E+00	120	6	7
10.69338	6	1473.4	1473.6	0.41	1.1	0.3993	0.0918	0.996	8.91E+00	8.44E+00	120	6	7
10.74791	6.5	1421	1421.3	0.46	1.64	0.3137	0.073	0.996	8.96E+00	8.47E+00	120	6	7
10.78881	6.64	1269.6	1269.9	0.52	1.55	0.2832	0.0665	0.996	8.99E+00	8.48E+00	120	6	7
10.78921	6.61	1202.9	1203.1	0.55	1.37	0.2829	0.0665	0.996	8.99E+00	8.48E+00	120	6	7
10.83527	6.76	1361.2	1361.4	0.5	1.31	0.2929	0.069	0.996	9.03E+00	8.50E+00	120	6	7
10.88695	7.07	1392	1392.3	0.51	1.4	0.2947	0.0688	0.996	9.07E+00	8.52E+00	120	6	7
10.93982	6.89	1390.6	1390.8	0.5	1.28	0.2833	0.0656	0.996	9.12E+00	8.54E+00	120	6	7
10.99911	6.32	1416.8	1417.1	0.45	1.32	0.2951	0.069	0.996	9.17E+00	8.57E+00	120	6	7
11.04878	6.36	1397.9	1398.2	0.45	1.21	0.3082	0.0725	0.997	9.21E+00	8.59E+00	120	6	7
11.10165	6.58	1424.2	1424.4	0.46	1.3	0.3288	0.077	0.997	9.25E+00	8.61E+00	120	6	7
11.15733	6.26	1463.7	1463.9	0.43	1.25	0.3188	0.0772	0.997	9.30E+00	8.63E+00	120	6	7
11.2078	6.19	1483.5	1483.7	0.42	1.26	0.3379	0.0841	0.997	9.34E+00	8.65E+00	120	6	7
11.26068	6.4	1513.9	1514.1	0.42	1.26	0.5475	0.128	0.997	9.38E+00	8.67E+00	120	6	7
11.31356	6.56	1565.8	1566	0.42	1.34	0.2987	0.0737	0.997	9.43E+00	8.69E+00	120	6	7
11.36603	6.63	1627.8	1628.1	0.41	1.34	0.2805	0.0723	0.997	9.47E+00	8.71E+00	120	6	7
11.41891	6.69	1708.5	1708.7	0.39	1.39	0.3485	0.0885	0.997	9.52E+00	8.73E+00	120	6	7
11.46978	6.77	1768.4	1768.7	0.38	1.53	0.2674	0.0692	0.996	9.56E+00	8.76E+00	120	7	7
11.52386	6.86	1822	1822.3	0.38	1.5	0.2483	0.0582	0.997	9.60E+00	8.78E+00	120	7	7
11.57793	7.1	1890.3	1890.6	0.38	1.5	0.2795	0.0669	0.996	9.65E+00	8.80E+00	120	7	7
11.63521	8.77	1932	1932.3	0.45	1.52	0.2975	0.073	0.997	9.70E+00	8.82E+00	120	6	7
11.68729	11.01	1963.1	1963.4	0.56	1.47	0.3267	0.0741	0.997	9.74E+00	8.84E+00	120	6	7
11.74056	10.97	1976.2	1976.5	0.55	1.52	0.2875	0.065	0.997	9.78E+00	8.86E+00	120	6	7
11.79464	10.65	1970	1970.3	0.54	1.47	0.3176	0.0686	0.997	9.83E+00	8.89E+00	120	6	7
11.85272	10.23	1947.9	1948.2	0.52	1.47	0.237	0.0603	0.997	9.88E+00	8.91E+00	120	6	7
11.90319	10.25	1955.5	1955.8	0.52	1.48	0.3	0.0676	0.997	9.92E+00	8.93E+00	120	6	7
11.95968	10.45	1935.1	1935.4	0.54	1.46	0.342	0.0755	0.996	9.97E+00	8.95E+00	120	6	7
12.01536	10.09	1827.1	1827.4	0.55	1.39	0.3225	0.0758	0.997	1.00E+01	8.97E+00	120	6	7
12.07184	9.83	1800.5	1800.9	0.55	1.81	0.325	0.0803	0.996	1.01E+01	7.00E+00	120	6	7
12.12431	9.96	1786.4	1786.7	0.56	1.71	0.3129	0.081	0.996	1.01E+01	7.02E+00	120	6	7
12.17839	10.25	1776.1	1776.4	0.58	1.65	0.3603	0.0966	0.997	1.02E+01	7.04E+00	120	6	7
12.23287	9.52	1771.3	1771.6	0.54	1.6	0.3544	0.0974	0.997	1.02E+01	7.06E+00	120	6	7
12.28614	8.13	1777.1	1777.4	0.46	1.64	0.3389	0.0947	0.996	1.02E+01	7.08E+00	120	6	7
12.33862	7.76	1773.7	1774	0.44	1.63	0.3965	0.1126	0.997	1.03E+01	7.10E+00	120	6	7
12.39189	8.11	1761.5	1761.9	0.46	1.75	0.3868	0.1158	0.996	1.03E+01	7.12E+00	120	6	7
12.44517	8.26	1757	1757.3	0.47	1.73	0.3944	0.1169	0.996	1.04E+01	7.15E+00	120	6	7
12.50485	8.16	1798.4	1798.8	0.45	1.73	0.436	0.1362	0.996	1.04E+01	7.17E+00	120	6	7
12.55613	8.13	1853.7	1854.1	0.44	1.67	0.5682	0.1726	0.997	1.05E+01	7.19E+00	120	6	7
12.6094	8.16	1932.7	1933	0.42	1.75	0.338	0.1116	0.996	1.05E+01	7.21E+00	120	6	7
12.66388	8.07	2001.7	2002.1	0.4	1.79	0.2783	0.0961	0.996	1.06E+01	7.23E+00	120	7	7
12.72076	8.38	2011	2011.4	0.42	1.72	0.203	0.0706	0.997	1.06E+01	7.26E+00	120	7	7
12.77203	8.88	2069.8	2070	0.42	1.76	0.1823	0.0608	0.997	1.06E+01	7.28E+00	120	7	7
12.82451	9	2130.1	2130.5	0.42	1.88	0.1563	0.0526	0.996	1.07E+01	7.30E+00	120	7	7
12.87898	9.34	2183.8	2184.2	0.43	1.78	0.083	0.0332	0.997	1.07E+01	7.32E+00	120	7	7
12.93346	9.49	2257.7	2258.1	0.42	1.88	0.0284	0.0189	0.997	1.08E+01	7.34E+00	120	7	7
12.98594	9.5	2309.4	2309.7	0.41	1.92	-0.0201	0.0066	0.997	1.08E+01	7.36E+00	120	7	7
13.04082	9.76	2394.9	2395.3	0.41	1.96	-0.0488	0.0008	0.997	1.09E+01	7.38E+00	120	7	7
13.09409	10.14	2446	2446.4	0.41	2.09	-0.0564	-0.0026	0.996	1.09E+01	7.40E+00	120	7	7
13.15177	9.17	2193.6	2194	0.42	1.84	-0.0596	-0.0031	0.996	1.10E+01	7.43E+00	120	7	7
13.20505	9.34	2209.4	2209.8	0.42	1.83	-0.0435	0.0013	0.997	1.10E+01	7.45E+00	120	7	7

13.26594	10.1	2548.7	2549	0.4	1.95	-0.0299	0.0054	0.996	1.11E+01	7.47E+00	120	7	7
13.32201	10.18	2645.1	2645.4	0.38	1.97	-0.0247	0.0067	0.996	1.11E+01	7.50E+00	120	7	7
13.3817	13.28	2654.3	2654.6	0.5	1.78	-0.038	0.0043	0.997	1.12E+01	7.52E+00	120	7	7
13.43578	16.77	2693.6	2694.1	0.62	2.3	-0.0478	0.0023	0.996	1.12E+01	7.54E+00	120	6	7
13.49346	15.11	2697.5	2698	0.56	2.33	-0.0298	0.0095	0.996	1.12E+01	7.56E+00	120	6	7
13.54914	19.8	2694.8	2695.2	0.73	2.33	0.0194	0.0231	0.996	1.13E+01	7.59E+00	120	6	7
13.60522	32.82	2556.3	2556.8	1.28	2.36	0.0079	0.0197	0.997	1.13E+01	7.61E+00	120	6	7
13.6597	28.07	2584.3	2584.8	1.09	2.33	0.0371	0.0277	0.996	1.14E+01	7.63E+00	120	6	7
13.71658	25.94	2507.3	2507.6	1.03	1.84	0.0622	0.0353	0.996	1.14E+01	7.65E+00	120	6	7
13.77106	23.13	2547.5	2547.9	0.91	1.79	0.0336	0.0286	0.997	1.15E+01	7.68E+00	120	6	7
13.82753	20.83	2600	2600.3	0.8	1.57	0.0762	0.0404	0.997	1.15E+01	7.70E+00	120	6	7
13.88362	20.09	2445.1	2445.5	0.82	1.68	0.0757	0.0402	0.996	1.16E+01	7.72E+00	120	6	7
13.9445	19.07	2378.9	2379	0.8	0.53	0.0809	0.0396	0.996	1.16E+01	7.74E+00	120	6	7
14.00379	18.06	2216.6	2216.7	0.81	0.56	0.0525	0.03	0.997	1.17E+01	7.77E+00	120	6	7
14.06147	18.94	2091.8	2092	0.91	1.15	0.0017	0.0153	0.996	1.17E+01	7.79E+00	120	6	7
14.09151	20.17	1961.7	1961.9	1.03	1.17	-0.0127	0.0118	0.996	1.17E+01	7.80E+00	120	6	7
14.15249	19.45	2085.9	2086.2	0.93	1.35	-0.0538	-0.0006	0.996	1.18E+01	7.83E+00	120	6	7
14.18979	15.87	2143.9	2144.2	0.74	1.39	-0.0632	-0.0033	0.996	1.18E+01	7.84E+00	120	6	7
14.24836	14.25	2232.6	2232.9	0.64	1.41	-0.0724	-0.006	0.996	1.19E+01	7.87E+00	120	6	7
14.30171	15.1	2279.2	2279.5	0.66	1.44	-0.0693	-0.0055	0.996	1.19E+01	7.89E+00	120	6	7
14.35908	10.59	2308.2	2308.5	0.48	1.44	-0.0513	0.0017	0.996	1.20E+01	7.91E+00	120	6	7
14.41484	11.02	2327	2327.3	0.47	1.41	-0.0362	0.0044	0.996	1.20E+01	7.93E+00	120	6	7
14.47621	12.83	2336.7	2337	0.55	1.5	-0.0275	0.0058	0.996	1.21E+01	7.96E+00	120	6	7
14.53117	11.31	2338.3	2338.6	0.48	1.43	-0.0208	0.0072	0.996	1.21E+01	7.98E+00	120	6	7
14.58653	10.81	2346.3	2346.6	0.46	1.45	0.0021	0.0135	0.996	1.22E+01	8.00E+00	120	6	7
14.63988	11.6	2358.7	2359	0.49	1.41	0.0007	0.0135	0.996	1.22E+01	8.02E+00	120	6	7
14.69805	10.76	2364.8	2365.1	0.45	1.44	-0.0008	0.013	0.996	1.23E+01	8.05E+00	120	6	7
14.7518	10.37	2381.9	2382.2	0.44	1.34	0.005	0.0146	0.996	1.23E+01	8.07E+00	120	7	7
14.80796	10.46	2243.9	2244.2	0.47	1.52	0.0514	0.0284	0.996	1.23E+01	8.09E+00	120	6	7
14.86573	10.62	2247.8	2248.1	0.47	1.55	0.1425	0.0539	0.996	1.24E+01	8.11E+00	120	6	7
14.92831	10.65	2279.8	2280.1	0.47	1.48	0.3088	0.1004	0.996	1.24E+01	8.14E+00	120	6	7
14.98527	10.46	2253.3	2253.6	0.46	1.64	0.2712	0.0871	0.996	1.25E+01	8.16E+00	120	6	7
15.03982	10.8	2261.3	2261.6	0.48	1.66	0.4047	0.1281	0.996	1.25E+01	8.18E+00	120	6	7
15.09478	9.63	2273.5	2273.8	0.42	1.52	0.5286	0.1625	0.996	1.26E+01	8.21E+00	120	6	7
15.15214	9.29	2230.6	2230.9	0.42	1.69	0.2922	0.0952	0.995	1.26E+01	8.23E+00	120	6	7
15.20951	8.83	2182.9	2183.2	0.4	1.59	0.395	0.119	0.996	1.27E+01	8.25E+00	120	6	7
15.26567	8.31	2200.5	2200.8	0.38	1.57	0.3908	0.1187	0.996	1.27E+01	8.27E+00	120	7	7
15.32464	8.74	2131.5	2131.8	0.41	1.57	0.4332	0.1379	0.996	1.28E+01	8.30E+00	120	6	7
15.38722	8.56	2103.8	2104.1	0.41	1.43	0.6169	0.1879	0.996	1.28E+01	8.32E+00	120	6	7
15.44538	8.94	2128.7	2129	0.42	1.57	0.7947	0.2464	0.996	1.29E+01	8.35E+00	120	6	7
15.50114	8.29	2127.4	2127.7	0.39	1.57	0.8885	0.2802	0.996	1.29E+01	8.37E+00	120	6	7
15.5553	8.06	2099.4	2099.7	0.38	1.64	0.8348	0.269	0.995	1.30E+01	8.39E+00	120	6	7
15.61186	8.08	2046.6	2046.9	0.39	1.48	0.7671	0.2524	0.996	1.30E+01	8.41E+00	120	6	7
15.66521	8.29	2042.1	2042.4	0.41	1.64	0.9329	0.2808	0.996	1.31E+01	8.43E+00	120	6	7
15.72137	8.15	2062.4	2062.7	0.4	1.47	0.9368	0.283	0.996	1.31E+01	8.46E+00	120	6	7
15.77432	8.18	2096.6	2096.9	0.39	1.54	0.9606	0.2898	0.996	1.32E+01	8.48E+00	120	6	7
15.8369	8.07	2102.2	2102.5	0.38	1.64	0.9415	0.2783	0.995	1.32E+01	8.50E+00	120	6	7
15.89106	7.76	2020.7	2021	0.38	1.54	0.8339	0.1833	0.996	1.32E+01	8.52E+00	120	6	7
15.94601	7.69	2081.8	2082.1	0.37	1.57	0.7296	0.2065	0.996	1.33E+01	8.55E+00	120	6	7
16.00097	7.27	2159.1	2159.4	0.34	1.71	0.5065	0.1462	0.996	1.33E+01	8.57E+00	120	7	7
16.05914	7.55	2071.1	2071.4	0.36	1.59	0.557	0.1604	0.996	1.34E+01	8.59E+00	120	6	7
16.11409	7.67	2175.7	2176	0.35	1.57	0.4665	0.1334	0.996	1.34E+01	8.61E+00	120	7	7

16.17066	7.55	2128.4	2128.7	0.35	1.6	0.4424	0.1254	0.995	1.35E+01	8.64E+00	120	6	7
16.22722	7.58	2128.3	2128.6	0.36	1.59	0.4232	0.1192	0.996	1.35E+01	8.66E+00	120	6	7
16.28418	7.74	2208.3	2208.6	0.35	1.54	0.3884	0.1112	0.996	1.36E+01	8.68E+00	120	7	7
16.33873	7.79	2273.4	2273.7	0.34	1.69	0.2862	0.0851	0.995	1.36E+01	8.70E+00	120	7	7
16.3949	8.4	2327.8	2328.1	0.36	1.59	0.3334	0.0965	0.996	1.37E+01	8.73E+00	120	7	7
16.45106	8.45	2393.5	2393.8	0.35	1.6	0.378	0.1042	0.996	1.37E+01	8.75E+00	120	7	7
16.51003	8.26	2391.6	2391.9	0.35	1.7	0.3537	0.0985	0.996	1.38E+01	8.77E+00	120	7	7
16.56137	8.46	2503.4	2503.7	0.34	1.7	0.384	0.1059	0.996	1.38E+01	8.79E+00	120	7	7
16.61954	8.61	2526.1	2526.4	0.34	1.73	0.2847	0.0772	0.995	1.39E+01	8.81E+00	120	7	7
16.67409	9.25	2519.2	2519.5	0.37	1.69	0.291	0.0841	0.995	1.39E+01	8.84E+00	120	7	7
16.73387	9.31	2623.2	2623.6	0.36	1.77	0.2697	0.0763	0.996	1.39E+01	8.86E+00	120	7	7
16.78682	9.88	2613.8	2614.1	0.38	1.88	0.2657	0.076	0.996	1.40E+01	8.88E+00	120	7	7
16.84739	9.91	2608.9	2609.3	0.38	1.95	0.1552	0.0494	0.995	1.40E+01	8.91E+00	120	7	7
16.90114	9.89	2688.1	2688.4	0.37	1.81	0.1775	0.054	0.996	1.41E+01	8.93E+00	120	7	7
16.95971	10.81	2738.9	2739.3	0.39	1.88	0.1579	0.0508	0.996	1.41E+01	8.95E+00	120	7	7
17.01507	11.2	2675.7	2676	0.42	1.68	0.2394	0.0696	0.996	1.42E+01	8.97E+00	120	7	7
17.07364	8.47	2770.7	2771.1	0.31	2.02	0.2281	0.067	0.996	1.42E+01	9.00E+00	120	7	7
17.12779	8.15	2790.8	2791.2	0.29	1.83	0.2039	0.0607	0.996	1.43E+01	9.02E+00	120	7	7
17.18596	8.01	2817.1	2817.4	0.28	1.78	0.0588	0.0268	0.996	1.43E+01	9.04E+00	120	7	7
17.24051	8.37	2914.5	2914.8	0.29	1.95	0.0459	0.0233	0.996	1.44E+01	9.06E+00	120	7	7
17.29708	8.7	2857.5	2857.9	0.3	2	0.0738	0.0316	0.995	1.44E+01	9.09E+00	120	7	7
17.35203	8.31	2728.8	2729.1	0.3	1.83	0.0708	0.0332	0.996	1.45E+01	9.11E+00	120	7	7
17.411	8.72	2819.2	2819.6	0.31	1.9	0.1523	0.0517	0.996	1.45E+01	9.13E+00	120	7	7
17.44031	8.75	2133.5	2133.8	0.41	1.34	0.1573	0.0513	0.997	1.45E+01	9.14E+00	120	6	7
17.50158	8.4	2838.5	2838.6	0.3	0.39	0.1471	0.0483	0.997	1.46E+01	9.17E+00	120	7	7
17.55324	7.91	2897.1	2897.2	0.27	0.49	0.1516	0.0448	0.997	1.46E+01	9.19E+00	120	7	7
17.60771	8.52	2910.5	2910.6	0.29	0.46	0.0673	0.0248	0.997	1.47E+01	9.21E+00	120	7	7
17.66418	8.79	2913.6	2913.7	0.3	0.27	0	0.0095	0.997	1.47E+01	9.23E+00	120	7	7
17.71663	9.49	2940.7	2940.8	0.32	0.35	-0.0371	0.0019	0.997	1.48E+01	9.25E+00	120	7	7
17.77671	10.13	2914.3	2914.4	0.35	0.77	-0.0563	-0.0025	0.997	1.48E+01	9.28E+00	120	7	7
17.83518	10.71	2934	2934.1	0.36	0.59	-0.0516	-0.0004	0.997	1.49E+01	9.30E+00	120	7	7
17.89645	10.5	2915.8	2915.9	0.36	0.39	-0.0173	0.0107	0.997	1.49E+01	9.33E+00	120	7	7
17.94931	10.67	2902.6	2902.7	0.37	0.36	-0.0033	0.0133	0.997	1.50E+01	9.35E+00	120	7	7
18.00978	11.8	2773.3	2773.3	0.42	0.4	-0.0261	0.0055	0.997	1.50E+01	9.37E+00	120	7	7
18.06545	10.73	2749.5	2749.4	0.39	-0.08	-0.0326	0.0035	0.997	1.51E+01	9.39E+00	120	7	7
18.12592	10.25	2596.1	2596.1	0.39	-0.06	-0.0373	0.0001	0.997	1.51E+01	9.42E+00	120	7	7
18.18199	9.86	2597.2	2597.2	0.38	-0.08	-0.0444	-0.003	0.997	1.52E+01	9.44E+00	120	7	7
18.24286	10.31	2598.4	2598.4	0.4	0.08	-0.046	-0.0037	0.997	1.52E+01	9.46E+00	120	7	7
18.29772	10.2	2521.1	2521.1	0.4	-0.01	-0.0616	-0.0071	0.997	1.53E+01	9.49E+00	120	6	7
18.3578	10.53	2513.9	2514	0.42	0.24	-0.0887	-0.0125	0.997	1.53E+01	9.51E+00	120	6	7
18.40946	9.69	2472.4	2472.4	0.39	-0.02	-0.1053	-0.0166	0.998	1.53E+01	9.53E+00	120	6	7
18.46632	9.77	2372.5	2372.5	0.41	0.03	-0.1221	-0.0193	0.997	1.54E+01	9.55E+00	120	6	7
18.52039	9.95	2447.9	2447.9	0.41	-0.01	-0.1243	-0.021	0.997	1.54E+01	9.58E+00	120	6	7
18.57806	9.57	2385.7	2385.7	0.4	-0.03	-0.1262	-0.0194	0.997	1.55E+01	9.60E+00	120	6	7
18.63532	9.5	2483.4	2483.4	0.38	-0.06	-0.1253	-0.0132	0.998	1.55E+01	9.62E+00	120	6	7
18.699	9.59	2412	2412	0.4	-0.01	-0.1209	-0.0149	0.997	1.56E+01	9.65E+00	120	6	7
18.75306	7.77	2511.9	2511.9	0.31	0.03	-0.1067	-0.0145	0.997	1.56E+01	9.67E+00	120	7	7
18.80873	2.07	2559.7	2559.8	0.08	0.17	-0.1017	-0.0135	0.997	1.57E+01	9.69E+00	120	-99	7
18.86159	2.35	2501.5	2501.5	0.09	0.11	-0.1038	-0.0141	0.997	1.57E+01	9.71E+00	120	-99	7
18.92206	2.98	2500.1	2500.1	0.12	0.15	-0.1102	-0.0165	0.997	1.58E+01	9.74E+00	120	7	7
18.97613	3.78	2650.8	2650.6	0.14	0.2	-0.1163	-0.0186	0.997	1.58E+01	9.76E+00	120	7	7
19.0338	4.76	2654	2654.1	0.18	0.16	-0.1188	-0.0189	0.997	1.59E+01	9.78E+00	120	7	7

19.08066	6.03	2677	2677.1	0.23	0.21	-0.1209	-0.0192	0.997	1.59E+01	9.80E+00	120	7	7
19.13231	6.6	2671.5	2671.6	0.23	0.42	-0.1211	-0.0171	0.997	1.59E+01	9.82E+00	120	7	7
19.19238	7.22	2906.9	2907	0.25	0.38	-0.1193	-0.018	0.998	1.60E+01	9.84E+00	120	7	7
19.24645	8.92	2943.3	2943.4	0.3	0.46	-0.1188	-0.0183	0.997	1.60E+01	9.87E+00	120	7	7
19.30652	8.87	2975	2975.1	0.3	0.28	-0.119	-0.018	0.997	1.61E+01	9.89E+00	120	7	7
19.36018	8.9	2967.4	2967.5	0.3	0.14	-0.1192	-0.0158	0.997	1.61E+01	9.91E+00	120	7	7
19.41985	9.29	2941.2	2941.3	0.32	0.23	-0.1216	-0.0168	0.997	1.62E+01	9.94E+00	120	7	7
19.47352	9.99	2959.8	2959.9	0.34	0.28	-0.1214	-0.0176	0.997	1.62E+01	9.96E+00	120	7	7
19.53439	2.62	2969.7	2969.7	0.09	-0.01	-0.1208	-0.0179	0.997	1.63E+01	9.98E+00	120	-99	7
19.59246	2.23	2931	2931	0.08	0.13	-0.1166	-0.0179	0.997	1.63E+01	1.00E+01	120	-99	7
19.65213	3.57	2958.6	2958.6	0.12	0.08	-0.1136	-0.0179	0.997	1.64E+01	1.00E+01	120	7	7
19.70539	5.35	2975.2	2975.2	0.18	-0.05	-0.1121	-0.0177	0.997	1.64E+01	1.01E+01	120	7	7
19.76386	7.55	3027.5	3027.5	0.25	0.06	-0.1144	-0.018	0.997	1.65E+01	1.01E+01	120	7	7
19.81953	10.43	3095.1	3095.1	0.34	-0.03	-0.1165	-0.0188	0.997	1.65E+01	1.01E+01	120	7	7
19.85397	11.18	2827.7	2827.7	0.4	-0.03	-0.1169	-0.0185	0.997	1.65E+01	1.01E+01	120	7	7
19.85477	11.19	2796	2796	0.4	0.1	-0.117	-0.0185	0.997	1.66E+01	1.01E+01	120	7	7
19.8808	11.76	3260.8	3260.8	0.36	0.24	-0.118	-0.0177	0.997	1.66E+01	1.01E+01	120	7	7
19.94007	12.83	3251.3	3251.3	0.39	0.35	-0.1201	-0.0178	0.997	1.66E+01	1.01E+01	120	7	7
19.99334	12.89	3185	3185.1	0.4	0.53	-0.122	-0.0192	0.997	1.67E+01	1.02E+01	120	7	7
20.05301	12.93	3143.9	3143.9	0.41	0.21	-0.1252	-0.0196	0.997	1.67E+01	1.02E+01	120	7	7
20.10707	11.06	3104.9	3105	0.36	0.17	-0.1292	-0.0172	0.997	1.68E+01	1.02E+01	120	7	7
20.16914	5.39	3186.4	3186.3	0.17	-0.36	-0.1328	-0.0161	0.997	1.68E+01	1.02E+01	120	7	7
20.22241	5.73	3179.7	3179.7	0.18	-0.15	-0.1331	-0.0194	0.997	1.69E+01	1.03E+01	120	7	7
20.28288	7.72	3296.8	3296.8	0.23	-0.23	-0.1343	-0.02	0.997	1.69E+01	1.03E+01	120	7	7
20.33814	17.72	3389.4	3389.3	0.52	-0.34	-0.1336	-0.0193	0.997	1.70E+01	1.03E+01	120	6	7
20.39942	6.91	3481.9	3481.8	0.2	-0.59	-0.1307	-0.0198	0.997	1.70E+01	1.03E+01	120	7	7
20.45388	22.78	3476.3	3476.2	0.66	-0.92	-0.1302	-0.0188	0.997	1.70E+01	1.04E+01	120	6	7
20.50514	13.47	3559.2	3559.2	0.38	-0.23	-0.1285	-0.0187	0.997	1.71E+01	1.04E+01	120	7	7
20.5584	12.33	3650.2	3650.1	0.34	-0.61	-0.1273	-0.0185	0.997	1.71E+01	1.04E+01	120	7	7
20.61887	13.46	3757.9	3757.7	0.36	-0.99	-0.1223	-0.0156	0.997	1.72E+01	1.04E+01	120	7	7
20.67254	15.54	3559.2	3559.1	0.44	-0.81	-0.1264	-0.0192	0.997	1.72E+01	1.04E+01	120	7	7
20.73261	2.45	3585.4	3585.3	0.07	-0.63	-0.1199	-0.0186	0.997	1.73E+01	1.05E+01	120	-99	7
20.77486	9.23	3141	3141.1	0.29	0.59	-0.1216	-0.019	0.997	1.73E+01	1.05E+01	120	7	7
20.81133	14.11	3116.1	3116.2	0.45	0.54	-0.123	-0.0194	0.997	1.73E+01	1.05E+01	120	7	7
20.82017	15.26	2855.1	2855.3	0.53	0.93	-0.1231	-0.0193	0.996	1.74E+01	1.05E+01	120	6	7
20.8298	16.44	2961.6	2961.6	0.56	0.37	-0.1232	-0.0191	0.996	1.74E+01	1.05E+01	120	6	7
20.88237	20.54	3163.2	3163.3	0.65	0.43	-0.1246	-0.0188	0.997	1.74E+01	1.05E+01	120	6	7
20.92089	21.44	3281.6	3281.7	0.65	0.61	-0.1269	-0.0192	0.996	1.74E+01	1.05E+01	120	6	7
20.98107	18.1	3520.4	3520.6	0.51	0.84	-0.1286	-0.019	0.996	1.75E+01	1.06E+01	120	7	7
21.03644	15.2	3657.2	3657.4	0.42	1.05	-0.1313	-0.0194	0.997	1.75E+01	1.06E+01	120	7	7
21.13241	3.56	3995.2	3995.3	0.09	0.25	-0.1305	-0.0193	0.997	1.76E+01	1.06E+01	120	-99	7
21.19453	5.88	3969	3969	0.15	-0.32	-0.1318	-0.0193	0.997	1.77E+01	1.06E+01	120	7	7
21.25624	7.42	3813.1	3813.2	0.19	0.43	-0.1306	-0.0195	0.997	1.77E+01	1.07E+01	120	7	7
21.31235	8.97	3695.7	3695.8	0.24	0.86	-0.1297	-0.0164	0.997	1.78E+01	1.07E+01	120	7	7
21.37447	10.71	3742.7	3742.8	0.29	0.41	-0.1319	-0.0164	0.997	1.78E+01	1.07E+01	120	7	7
21.42497	3.96	3679.2	3679.3	0.11	0.37	-0.1338	-0.0195	0.997	1.79E+01	1.07E+01	120	7	7
21.44621	5.22	3323	3323.1	0.16	0.13	-0.1338	-0.0201	0.997	1.79E+01	1.08E+01	120	7	7
21.45703	5.87	3496.9	3496.9	0.17	0.24	-0.1336	-0.0203	0.997	1.79E+01	1.08E+01	120	7	7
21.51273	10.58	3680.8	3680.7	0.29	0.72	-0.1333	-0.0198	0.997	1.79E+01	1.08E+01	120	7	7
21.57805	22.2	3789.8	3789.8	0.59	0.86	-0.1353	-0.0204	0.997	1.80E+01	1.08E+01	120	6	7
21.63256	23.1	3922.1	3922.2	0.59	0.54	-0.1328	-0.0214	0.997	1.80E+01	1.08E+01	120	6	7
21.68308	18.91	3987.6	3987.8	0.48	0.87	-0.1316	-0.0189	0.997	1.81E+01	1.08E+01	120	7	7

21.75118	9.59	3966.3	3966.4	0.24	0.7	-0.1328	-0.0213	0.997	1.81E+01	1.09E+01	120	7	7
21.78401	10.51	3523.3	3523.5	0.3	1.1	-0.136	-0.0219	0.997	1.81E+01	1.09E+01	120	7	7
21.81851	15.66	3791	3791.2	0.41	1.28	-0.137	-0.0212	0.997	1.82E+01	1.09E+01	120	7	7
21.87983	22.35	4006.3	4006.4	0.56	0.75	-0.1358	-0.0212	0.997	1.82E+01	1.09E+01	120	7	7
21.93754	23.31	3942.8	3943	0.59	1.26	-0.1365	-0.022	0.997	1.83E+01	1.09E+01	120	6	7
21.99926	23.7	4090.5	4090.8	0.58	1.35	-0.1388	-0.0221	0.997	1.83E+01	1.10E+01	120	7	7
22.05617	20.73	4203.6	4203.8	0.49	0.98	-0.1386	-0.0224	0.997	1.84E+01	1.10E+01	120	7	7
22.09464	15.84	3930.4	3930.6	0.4	0.94	-0.1381	-0.0222	0.997	1.84E+01	1.10E+01	120	7	7
22.14914	14.42	4233.9	4234.2	0.34	1.36	-0.1373	-0.0214	0.997	1.85E+01	1.10E+01	120	7	7
22.21126	9.24	4068.4	4068.7	0.23	1.52	-0.1366	-0.0203	0.997	1.85E+01	1.11E+01	120	7	7
22.26737	11.44	3894.5	3894.8	0.29	1.57	-0.1361	-0.0201	0.997	1.86E+01	1.11E+01	120	7	7
22.32828	10.59	3876.5	3876.7	0.27	1.06	-0.138	-0.0224	0.997	1.86E+01	1.11E+01	120	7	7
22.3864	11.61	3934.5	3934.8	0.29	1.43	-0.1374	-0.021	0.997	1.87E+01	1.11E+01	120	7	7
22.42968	12.13	3301.3	3301.5	0.37	0.89	-0.137	-0.0216	0.997	1.87E+01	1.11E+01	120	7	7
22.48418	13.01	3468.1	3468.3	0.38	1.43	-0.1373	-0.0218	0.997	1.87E+01	1.12E+01	120	7	7
22.52265	15.45	3291.5	3291.7	0.47	0.79	-0.1332	-0.0212	0.997	1.88E+01	1.12E+01	120	6	7
22.57595	21.29	3612.8	3613	0.59	1.04	-0.1354	-0.0218	0.997	1.88E+01	1.12E+01	120	6	7
22.62846	16.07	3514.8	3515.1	0.46	1.53	-0.1343	-0.0218	0.997	1.89E+01	1.12E+01	120	7	7
22.64489	14.04	3430.7	3430.9	0.41	1.15	-0.1338	-0.0217	0.997	1.89E+01	1.12E+01	120	7	7
22.69979	13.54	3650.3	3650.5	0.37	1.14	-0.1312	-0.0213	0.997	1.89E+01	1.13E+01	120	7	7
22.76191	11.46	3875.2	3875.4	0.3	1.26	-0.1307	-0.0197	0.997	1.90E+01	1.13E+01	120	7	7
22.81922	19.73	4184.3	4184.8	0.47	1.52	-0.1312	-0.0215	0.997	1.90E+01	1.13E+01	120	7	7
22.8629	23.65	4054.6	4054.8	0.58	1.32	-0.1309	-0.0211	0.997	1.91E+01	1.13E+01	120	6	7
22.89456	26.84	4456.1	4456.4	0.6	1.67	-0.1315	-0.0206	0.997	1.91E+01	1.13E+01	120	7	7
22.95668	26.83	4849.2	4849.5	0.55	1.38	-0.1372	-0.0219	0.997	1.91E+01	1.14E+01	120	7	7
22.98634	30.55	4365.2	4365.4	0.7	1.06	-0.1358	-0.0219	0.997	1.92E+01	1.14E+01	120	6	7
23.04445	33.13	4675.6	4676	0.71	2.19	-0.1332	-0.0212	0.997	1.92E+01	1.14E+01	120	6	7
23.05367	33.2	3636.4	3636.8	0.91	1.88	-0.1326	-0.0209	0.997	1.92E+01	1.14E+01	120	6	7
23.10056	25.58	4245.1	4245.4	0.6	1.62	-0.1293	-0.0193	0.997	1.93E+01	1.14E+01	120	6	7
23.10857	23.65	4111.1	4111.4	0.58	1.71	-0.1287	-0.0194	0.997	1.93E+01	1.14E+01	120	6	7
23.16348	23.9	4356.9	4357.2	0.55	1.46	-0.1251	-0.0201	0.997	1.93E+01	1.14E+01	120	7	7
23.22439	22.43	4445.1	4445.4	0.5	1.85	-0.1215	-0.0177	0.997	1.94E+01	1.15E+01	120	7	7
23.2813	21.67	4355.4	4355.7	0.5	1.81	-0.1197	-0.0173	0.997	1.94E+01	1.15E+01	120	7	7
23.30013	21.49	3926.2	3926.6	0.55	1.74	-0.1195	-0.0172	0.997	1.94E+01	1.15E+01	120	6	7
23.35263	20.87	4209.1	4209.3	0.5	1.38	-0.1228	-0.0174	0.997	1.95E+01	1.15E+01	120	7	7
23.41395	18.28	4253.4	4253.7	0.43	1.55	-0.123	-0.0198	0.997	1.95E+01	1.15E+01	120	7	7
23.45964	17.78	4176	4176.2	0.43	0.96	-0.12	-0.0197	0.997	1.96E+01	1.16E+01	120	7	7
23.51815	16.92	3444.5	3444.7	0.49	1.28	-0.1209	-0.0194	0.997	1.96E+01	1.16E+01	120	6	7
23.58067	7.73	3479	3479.1	0.22	0.61	-0.1241	-0.0196	0.997	1.97E+01	1.16E+01	120	7	7
23.64118	9.54	3523.3	3523.5	0.27	0.87	-0.1233	-0.0199	0.997	1.97E+01	1.16E+01	120	7	7
23.70531	12.96	3477.6	3477.8	0.37	1.06	-0.1252	-0.0217	0.997	1.98E+01	1.17E+01	120	7	7
23.76502	2.98	3448.7	3448.9	0.09	0.86	-0.1233	-0.0184	0.997	1.98E+01	1.17E+01	120	-99	7
23.82593	3.64	3379.6	3379.8	0.11	0.88	-0.1226	-0.0206	0.997	1.99E+01	1.17E+01	120	7	7
23.87603	4.27	3158.8	3158.9	0.14	0.75	-0.1242	-0.0186	0.997	1.99E+01	1.17E+01	120	7	7
23.87884	4.33	3234.7	3234.8	0.13	0.68	-0.1243	-0.0183	0.997	1.99E+01	1.17E+01	120	7	7
23.93895	4.6	3207.2	3207.4	0.14	0.77	-0.1275	-0.0191	0.997	2.00E+01	1.17E+01	120	7	7
23.99426	4.8	3167.1	3167.2	0.15	0.97	-0.1275	-0.0225	0.997	2.00E+01	1.18E+01	120	7	7
24.05597	4.91	3138.1	3138.2	0.16	0.93	-0.1257	-0.0223	0.997	2.01E+01	1.18E+01	120	7	7
24.06841	4.96	2775.2	2775.4	0.18	1.03	-0.1264	-0.0225	0.997	2.01E+01	1.18E+01	120	7	7
24.12453	6.42	2908.9	2909.1	0.22	1.01	-0.1273	-0.0202	0.997	2.01E+01	1.18E+01	120	7	7
24.18626	7.52	2971	2971.2	0.25	0.97	-0.1286	-0.0203	0.997	2.02E+01	1.18E+01	120	7	7
24.19184	7.6	2622.1	2622.3	0.29	1.48	-0.1289	-0.0207	0.996	2.02E+01	1.18E+01	120	7	7

24.25154	4.27	2920.2	2920.5	0.15	1.52	-0.1303	-0.0209	0.996	2.02E+01	1.19E+01	120	7	7
24.30884	4.35	2829.1	2829.3	0.15	1.21	-0.131	-0.0187	0.996	2.03E+01	1.19E+01	120	7	7
24.37254	5.3	3046.1	3046.3	0.17	1.25	-0.1323	-0.0211	0.997	2.03E+01	1.19E+01	120	7	7
24.43064	6.07	3106.5	3106.7	0.2	1.43	-0.1328	-0.0209	0.996	2.04E+01	1.19E+01	120	7	7
24.49515	3.95	3189	3189.3	0.12	1.66	-0.1329	-0.0204	0.996	2.04E+01	1.20E+01	120	7	7
24.56406	3.97	3152	3152.3	0.13	1.39	-0.1343	-0.0235	0.996	2.05E+01	1.20E+01	120	7	7
24.57288	4.04	3374.1	3374.3	0.12	1.19	-0.1343	-0.0233	0.996	2.05E+01	1.20E+01	120	7	7
24.63097	4.54	3397.6	3397.8	0.13	1.28	-0.1359	-0.0229	0.996	2.05E+01	1.20E+01	120	7	7
24.69628	5.2	3397.7	3397.9	0.15	1.17	-0.14	-0.0227	0.996	2.06E+01	1.21E+01	120	7	7
24.75318	4.31	3408.7	3408.9	0.13	1.08	-0.1377	-0.0232	0.996	2.06E+01	1.21E+01	120	7	7
24.80767	4.36	3170	3170.1	0.14	0.94	-0.1376	-0.0205	0.996	2.07E+01	1.21E+01	120	7	7
24.82249	4.72	3223.6	3223.8	0.15	1.06	-0.1373	-0.0219	0.996	2.07E+01	1.21E+01	120	7	7
24.885	5.35	3279.1	3279.3	0.16	1.01	-0.1313	-0.0219	0.997	2.07E+01	1.21E+01	120	7	7
24.9459	5.35	3285.9	3286.1	0.16	1.08	-0.127	-0.0218	0.996	2.08E+01	1.22E+01	120	7	7
25.01121	6.59	3303.7	3303.9	0.2	0.97	-0.128	-0.0217	0.996	2.08E+01	1.22E+01	120	7	7
25.07051	7.4	3318.8	3318.9	0.22	0.91	-0.127	-0.0206	0.996	2.09E+01	1.22E+01	120	7	7
25.06533	7.84	3632.3	3632.5	0.22	1.21	-0.1271	-0.0194	0.996	2.09E+01	1.22E+01	120	7	7
25.14463	8.74	3589.5	3589.7	0.24	1.3	-0.1288	-0.0231	0.996	2.10E+01	1.22E+01	120	7	7
25.21074	8.73	3495.7	3496	0.25	1.14	-0.1287	-0.0228	0.997	2.10E+01	1.23E+01	120	7	7
25.27124	8.55	3325.7	3325.9	0.26	0.99	-0.1291	-0.0224	0.996	2.11E+01	1.23E+01	120	7	7
25.32973	8.28	3273.6	3273.8	0.25	0.96	-0.13	-0.0219	0.997	2.11E+01	1.23E+01	120	7	7
25.39865	8.98	3154.5	3154.6	0.28	0.82	-0.1298	-0.022	0.996	2.12E+01	1.23E+01	120	7	7
25.46035	11.54	3048.7	3048.8	0.38	0.48	-0.1285	-0.0214	0.997	2.12E+01	1.24E+01	120	6	7
25.53328	14.64	2933.6	2933.7	0.5	0.68	-0.1281	-0.0216	0.996	2.13E+01	1.24E+01	120	6	7
25.59698	13.09	2851	2851.1	0.46	0.57	-0.1314	-0.0216	0.996	2.13E+01	1.24E+01	120	6	7
25.65708	6.97	2856.5	2856.6	0.24	0.81	-0.1295	-0.0212	0.996	2.14E+01	1.24E+01	120	7	7
25.71878	5.32	2839.9	2840	0.19	0.53	-0.1298	-0.0204	0.996	2.14E+01	1.25E+01	120	7	7
25.7861	8.47	2811.1	2811.2	0.3	0.5	-0.1285	-0.0205	0.996	2.15E+01	1.25E+01	120	7	7
25.8482	10.23	2675.4	2675.5	0.38	0.51	-0.1277	-0.0204	0.996	2.15E+01	1.25E+01	120	6	7
25.91391	10.73	2684.2	2684.3	0.4	0.46	-0.1294	-0.0205	0.996	2.16E+01	1.25E+01	120	6	7
25.97361	11.27	2715.9	2716	0.41	0.37	-0.1311	-0.0207	0.996	2.16E+01	1.26E+01	120	6	7
26.02209	11.2	2571.2	2571.3	0.44	0.43	-0.132	-0.0214	0.997	2.17E+01	1.26E+01	120	6	7
26.08059	12.62	2727.4	2727.5	0.46	0.54	-0.1304	-0.0178	0.997	2.17E+01	1.26E+01	120	6	7
26.14389	16.45	2819.2	2819.4	0.58	0.79	-0.1302	-0.0208	0.996	2.18E+01	1.26E+01	120	6	7
26.20559	18.35	2878.4	2878.5	0.64	0.68	-0.1295	-0.0209	0.996	2.18E+01	1.27E+01	120	6	7
26.2717	17.71	2886.8	2886.9	0.61	0.53	-0.1266	-0.0203	0.996	2.19E+01	1.27E+01	120	6	7
26.3302	16.99	2842.9	2843	0.6	0.72	-0.125	-0.0205	0.996	2.19E+01	1.27E+01	120	6	7
26.39391	7.98	2830.4	2830.5	0.28	0.46	-0.1268	-0.0201	0.996	2.20E+01	1.27E+01	120	7	7
26.45441	10.26	2946.4	2946.6	0.35	0.94	-0.1267	-0.0217	0.996	2.21E+01	1.28E+01	120	6	7
26.51892	17.24	2751.4	2751.6	0.63	0.99	-0.1266	-0.0216	0.996	2.21E+01	1.28E+01	120	6	7
26.57701	22.17	2748.8	2749	0.81	0.93	-0.126	-0.0215	0.996	2.22E+01	1.28E+01	120	6	7
26.64352	22.77	2818	2818.2	0.81	0.77	-0.1245	-0.021	0.996	2.22E+01	1.28E+01	120	6	7
26.6884	20.27	2730.7	2730.7	0.74	0.42	-0.1246	-0.0205	0.996	2.22E+01	1.28E+01	120	6	7
26.71524	15.96	2645.1	2645.2	0.6	0.73	-0.1253	-0.0202	0.996	2.23E+01	1.29E+01	120	6	7
26.77374	21.9	2818	2818.2	0.78	0.83	-0.1258	-0.0191	0.996	2.23E+01	1.29E+01	120	6	7
26.83865	13.69	2962.9	2963.2	0.46	1.12	-0.1283	-0.0192	0.998	2.24E+01	1.29E+01	120	6	7
26.89674	20.08	2928.3	2928.5	0.69	1.46	-0.1301	-0.0202	0.998	2.24E+01	1.29E+01	120	6	7
26.95965	13.56	3134.1	3134.3	0.43	1.03	-0.1307	-0.0205	0.998	2.25E+01	1.30E+01	120	6	7
26.9893	14.89	2979.7	2979.8	0.5	0.74	-0.1304	-0.0203	0.997	2.25E+01	1.30E+01	120	6	7
27.053	12.69	3095.3	3095.4	0.41	0.53	-0.1318	-0.0157	0.996	2.25E+01	1.30E+01	120	6	7
27.12272	8.84	2930	2930.2	0.3	0.83	-0.129	-0.0202	0.997	2.26E+01	1.30E+01	120	7	7
27.18082	8.18	3088.4	3088.6	0.26	1.06	-0.1212	-0.0194	0.996	2.27E+01	1.30E+01	120	7	7

27.23571	9.29	3473.6	3473.8	0.27	1.34	-0.1232	-0.0185	0.996	2.27E+01	1.31E+01	120	7	7
27.27978	12.19	3222.5	3222.6	0.38	0.56	-0.1258	-0.0203	0.997	2.27E+01	1.31E+01	120	6	7
27.3511	13.95	3090.4	3090.5	0.45	0.51	-0.1262	-0.0141	0.997	2.28E+01	1.31E+01	120	6	7
27.41601	18.64	3286.9	3287	0.57	0.82	-0.1275	-0.0199	0.996	2.29E+01	1.31E+01	120	6	7
27.43122	18.05	2678.6	2678.8	0.67	1.03	-0.1268	-0.0196	0.996	2.29E+01	1.31E+01	120	6	7
27.48769	16.3	3333.1	3333.3	0.49	0.96	-0.1241	-0.0182	0.997	2.29E+01	1.32E+01	120	6	7
27.54936	16.69	3512.4	3512.6	0.48	0.98	-0.1256	-0.0121	0.997	2.30E+01	1.32E+01	120	6	7
27.60703	32.64	3739.8	3740.1	0.87	1.38	-0.1377	-0.0183	0.996	2.30E+01	1.32E+01	120	6	7
27.63466	43.67	3591	3591.7	1.22	3.51	-0.1383	-0.019	0.998	2.30E+01	1.32E+01	120	6	7
27.69834	49.53	3947	3947.6	1.25	3.09	-0.1345	-0.0168	0.998	2.31E+01	1.33E+01	120	6	7
27.76162	19.41	4205	4205.3	0.46	1.46	-0.1365	-0.0153	0.997	2.31E+01	1.33E+01	120	7	7
27.82649	22.79	4432.9	4433	0.51	0.73	-0.1401	-0.0186	0.997	2.32E+01	1.33E+01	120	7	7
27.88296	27.18	4658.8	4658.9	0.58	0.41	-0.1391	-0.0217	0.998	2.32E+01	1.33E+01	120	6	7
27.9206	29.55	4421.8	4421.9	0.67	0.24	-0.1383	-0.0214	0.997	2.33E+01	1.33E+01	120	6	7
27.92461	29.63	4371.9	4372	0.68	0.72	-0.1382	-0.0213	0.998	2.33E+01	1.33E+01	120	6	7
27.98948	30.97	4445.1	4445.3	0.7	0.99	-0.1366	-0.0195	0.997	2.33E+01	1.34E+01	120	6	7
28.03794	30.19	4247.9	4248.1	0.71	1.22	-0.1358	-0.019	0.997	2.34E+01	1.34E+01	120	6	7
28.05396	30.81	4546	4546.8	0.68	3.99	-0.1358	-0.0196	0.997	2.34E+01	1.34E+01	120	6	7
28.06117	31.07	3120.3	3120.7	1	2.37	-0.1358	-0.0198	0.997	2.34E+01	1.34E+01	120	6	7
28.12124	34.32	4189.9	4191.7	0.82	9.39	-0.1293	-0.0188	0.997	2.34E+01	1.34E+01	120	6	7
28.18492	36	4004.9	4007.5	0.9	13.51	-0.1268	-0.0157	0.997	2.35E+01	1.34E+01	120	6	7
28.24659	37.08	3814.5	3815.6	0.97	5.94	-0.1248	-0.0169	0.998	2.35E+01	1.35E+01	120	6	7
28.31587	40.15	3829.6	3830	1.05	2.14	-0.1272	-0.0198	0.997	2.36E+01	1.35E+01	120	6	7
28.38195	33.73	3789.6	3790.3	0.89	3.74	-0.1335	-0.0204	0.997	2.37E+01	1.35E+01	120	6	7
28.45283	18.06	3724.7	3725.3	0.48	2.85	-0.1345	-0.0202	0.997	2.37E+01	1.36E+01	120	6	7
28.48407	17.65	3539.8	3540.4	0.5	3.12	-0.1373	-0.0209	0.997	2.37E+01	1.36E+01	120	6	7
28.54454	20.27	3585.4	3586	0.57	3.16	-0.1385	-0.0215	0.997	2.38E+01	1.36E+01	120	6	7
28.61102	18.8	3481.8	3482.2	0.54	2.48	-0.1344	-0.021	0.997	2.38E+01	1.36E+01	120	6	7
28.67229	17.75	3416.9	3417.2	0.52	1.77	-0.133	-0.0194	0.997	2.39E+01	1.36E+01	120	6	7
28.73277	17.51	3343.7	3344.1	0.52	1.99	-0.1324	-0.0189	0.997	2.39E+01	1.37E+01	120	6	7
28.7584	17.62	3375.5	3376	0.52	2.44	-0.1325	-0.0187	0.997	2.40E+01	1.37E+01	120	6	7
28.82447	18.35	3490.1	3490.6	0.53	2.5	-0.1325	-0.0193	0.997	2.40E+01	1.37E+01	120	6	7
28.89736	18.49	3440.4	3440.8	0.54	2.48	-0.1322	-0.0193	0.997	2.41E+01	1.37E+01	120	6	7
28.96184	18.06	3459.9	3460.2	0.46	1.94	-0.1319	-0.0188	0.998	2.41E+01	1.38E+01	120	6	7
29.03592	18.24	3506.6	3507	0.46	1.95	-0.1318	-0.0198	0.997	2.42E+01	1.38E+01	120	6	7
29.09599	14.74	3544	3544.4	0.42	1.76	-0.1304	-0.019	0.998	2.43E+01	1.38E+01	120	6	7
29.16287	11.43	3475	3475.4	0.33	2.14	-0.1298	-0.0195	0.997	2.43E+01	1.38E+01	120	7	7
29.22455	10.51	3530.1	3530.5	0.3	2.3	-0.1293	-0.0179	0.997	2.44E+01	1.39E+01	120	7	7
29.29663	9.55	3505.3	3505.8	0.27	2.32	-0.1299	-0.015	0.997	2.44E+01	1.39E+01	120	7	7
29.34309	10.14	3423.9	3424.3	0.3	2.32	-0.13	-0.0191	0.997	2.45E+01	1.39E+01	120	7	7
29.41117	10.27	3501	3501.5	0.29	2.73	-0.1284	-0.0177	0.997	2.45E+01	1.39E+01	120	7	7
29.48528	9.75	3216.9	3217	0.3	0.68	-0.1307	-0.0178	0.997	2.46E+01	1.40E+01	120	7	7
29.54973	10.03	3236.2	3236.5	0.31	1.48	-0.134	-0.018	0.997	2.46E+01	1.40E+01	120	7	7
29.58337	12.01	3078.9	3079.2	0.39	1.74	-0.1358	-0.018	0.997	2.47E+01	1.40E+01	120	6	7
29.64945	10.98	3074.7	3075	0.36	1.39	-0.1363	-0.0182	0.997	2.47E+01	1.40E+01	120	6	7
29.71673	12.38	3067.8	3068.1	0.4	1.26	-0.1348	-0.0185	0.997	2.48E+01	1.41E+01	120	6	7
29.78681	12.78	3131	3131.3	0.41	1.35	-0.1316	-0.0193	0.997	2.48E+01	1.41E+01	120	6	7
29.85169	13.21	3233.6	3233.8	0.41	1.05	-0.1307	-0.0146	0.998	2.49E+01	1.41E+01	120	6	7
29.91617	13.5	3417.2	3417.5	0.4	1.56	-0.13	-0.0176	0.998	2.49E+01	1.41E+01	120	6	7
29.98024	13.88	3263.8	3264.3	0.43	2.45	-0.1296	-0.0179	0.997	2.50E+01	1.42E+01	120	6	7
29.98785	13.73	3167.3	3167.8	0.43	2.25	-0.1295	-0.018	0.998	2.50E+01	1.42E+01	120	6	7
30.05273	8.27	3397.7	3398	0.24	1.74	-0.1322	-0.017	0.997	2.50E+01	1.42E+01	120	7	7

30.12041	9.51	3509.4	3509.7	0.27	1.88	-0.1321	-0.0174	0.997	2.51E+01	1.42E+01	120	7	7
30.18849	11.91	3520.3	3520.7	0.34	2.02	-0.1311	-0.0173	0.997	2.52E+01	1.42E+01	120	7	7
30.25537	16.06	3544	3544.3	0.45	1.88	-0.1348	-0.0189	0.997	2.52E+01	1.43E+01	120	6	7
30.31864	12.76	3477.7	3478	0.37	1.48	-0.1319	-0.0173	0.997	2.53E+01	1.43E+01	120	6	7
30.3855	12.18	3342.7	3342.9	0.36	1.12	-0.1313	-0.0178	0.998	2.53E+01	1.43E+01	120	6	7
30.37031	12.18	3652.9	3653.3	0.33	2.17	-0.1314	-0.018	0.997	2.53E+01	1.43E+01	120	7	7
30.37671	12.11	3302.3	3302.7	0.37	1.72	-0.1316	-0.0181	0.997	2.53E+01	1.43E+01	120	6	7
30.44159	3.83	3795.1	3795.3	0.1	0.68	-0.1318	-0.0184	0.997	2.54E+01	1.43E+01	120	7	7
30.4504	4.3	3636.4	3636.5	0.12	0.75	-0.1317	-0.0182	0.997	2.54E+01	1.44E+01	120	7	7
30.51047	6	3882	3882.5	0.15	2.46	-0.1298	-0.018	0.997	2.54E+01	1.44E+01	120	7	7
30.55252	8.52	3993.9	3994.9	0.21	5.48	-0.1295	-0.0176	0.997	2.55E+01	1.44E+01	120	7	7
30.59938	9.48	4281	4281.8	0.22	3.19	-0.1306	-0.0191	0.997	2.55E+01	1.44E+01	120	7	7
30.64143	8.99	4137.4	4137.9	0.22	3.01	-0.1293	-0.0171	0.998	2.55E+01	1.44E+01	120	7	7
30.64383	8.98	4260.2	4260.8	0.21	3.16	-0.1293	-0.0169	0.997	2.55E+01	1.44E+01	120	7	7
30.65384	8.86	4376.2	4376.8	0.2	3.23	-0.1289	-0.0167	0.997	2.55E+01	1.44E+01	120	7	7
30.74555	11.61	4682.5	4683.1	0.25	3.03	-0.126	-0.0182	0.997	2.56E+01	1.45E+01	120	7	7
30.77238	12.62	4109.8	4110.3	0.31	2.85	-0.1269	-0.0191	0.997	2.56E+01	1.45E+01	120	7	7
30.7892	12.72	3982.8	3983.8	0.32	5.14	-0.1275	-0.0196	0.997	2.57E+01	1.45E+01	120	7	7
30.82364	12.82	4245	4245.9	0.3	4.71	-0.1279	-0.0193	0.998	2.57E+01	1.45E+01	120	7	7
30.86008	13.34	4196.8	4197.8	0.32	5.5	-0.1277	-0.018	0.997	2.57E+01	1.45E+01	120	7	7
30.87731	14.33	3837.9	3839.2	0.37	6.78	-0.1276	-0.0174	0.998	2.57E+01	1.45E+01	120	7	7
30.91455	15.2	3837.9	3838.7	0.4	4.23	-0.1281	-0.0144	0.997	2.58E+01	1.45E+01	120	6	7
30.92378	15.18	3309.5	3310	0.46	2.87	-0.1283	-0.0138	0.997	2.58E+01	1.45E+01	120	6	7
30.92458	15.17	3490.2	3491.1	0.43	4.52	-0.1283	-0.0138	0.997	2.58E+01	1.45E+01	120	6	7
30.96028	14.89	3628.1	3628.9	0.41	4.01	-0.1282	-0.0164	0.997	2.58E+01	1.46E+01	120	6	7
30.99758	14.78	3647.3	3648.1	0.41	4.1	-0.128	-0.0184	0.997	2.58E+01	1.46E+01	120	6	7
31.04089	14.69	3575.8	3576.3	0.41	3.88	-0.1271	-0.0178	0.997	2.59E+01	1.46E+01	120	6	7
31.0818	15.12	3521.9	3522.8	0.43	4.99	-0.1291	-0.0185	0.997	2.59E+01	1.46E+01	120	6	7
31.1195	10.29	3432.1	3433.1	0.3	5.28	-0.1286	-0.0188	0.997	2.59E+01	1.46E+01	120	7	7
31.1596	5.48	3408.8	3409.8	0.16	5.31	-0.129	-0.0168	0.997	2.60E+01	1.46E+01	120	7	7
31.20131	6.33	3384.1	3384.9	0.19	4.05	-0.1287	-0.0168	0.997	2.60E+01	1.47E+01	120	7	7
31.24101	7.18	3285.9	3286.9	0.22	5.12	-0.1272	-0.0172	0.997	2.60E+01	1.47E+01	120	7	7
31.28583	1	3306.6	3307.5	0.03	4.9	-0.1255	-0.0163	0.997	2.61E+01	1.47E+01	120	-99	7
31.33085	6.09	3282	3282.7	0.19	3.78	-0.1241	-0.016	0.997	2.61E+01	1.47E+01	120	7	7
31.36213	7.31	3295.5	3296.3	0.22	3.92	-0.1233	-0.0175	0.997	2.61E+01	1.47E+01	120	7	7
31.39903	8.32	3222.7	3223.3	0.26	3.42	-0.122	-0.018	0.997	2.62E+01	1.47E+01	120	7	7
31.43151	8.98	3211.1	3211.7	0.28	3.3	-0.1205	-0.0173	0.997	2.62E+01	1.47E+01	120	7	7
31.5021	9.18	3619.9	3620.9	0.25	5	-0.1184	-0.0149	0.997	2.63E+01	1.48E+01	120	7	7
31.58993	10.35	3552.3	3552.7	0.29	1.94	-0.1153	-0.0168	0.997	2.63E+01	1.48E+01	120	7	7
31.68018	4.01	2577.9	2578.2	0.16	1.79	-0.1167	-0.0139	0.997	2.64E+01	1.48E+01	120	7	7
31.76839	6.18	3712.3	3712.8	0.17	2.59	-0.1179	-0.0165	0.997	2.65E+01	1.49E+01	120	7	7
31.83136	18.33	3702.7	3703	0.5	2.01	-0.1181	-0.0163	0.997	2.65E+01	1.49E+01	120	6	7
31.8851	11.89	3573.2	3573.5	0.33	1.67	-0.1204	-0.0127	0.997	2.66E+01	1.49E+01	120	7	7
31.97173	5.62	3676.6	3676.9	0.15	1.53	-0.1228	-0.0173	0.997	2.66E+01	1.50E+01	120	7	7
32.16282	19.24	3677.6	3677.9	0.52	1.4	-0.1231	-0.0179	0.996	2.68E+01	1.50E+01	120	6	7
32.20955	11.43	3614.3	3614.8	0.32	1.5	-0.1211	-0.0177	0.997	2.68E+01	1.51E+01	120	7	7
32.25046	19.06	2860.6	2860.6	0.67	0.08	-0.1214	-0.0167	0.997	2.69E+01	1.51E+01	120	6	7
32.28698	6.02	2609.4	2609.4	0.23	0.08	-0.1209	-0.0174	0.997	2.69E+01	1.51E+01	120	6	7
32.43855	5.96	2470.8	2471	0.24	0.98	-0.1292	-0.0181	0.997	2.70E+01	1.51E+01	120	6	6
32.4955	3.99	3612.9	3613.7	0.11	4.03	-0.1218	-0.0192	0.997	2.71E+01	1.52E+01	120	7	7
32.60298	1.09	3717.8	3718.5	0.03	3.88	-0.1197	-0.0204	0.997	2.72E+01	1.52E+01	120	-99	7
32.62785	4.89	3617.2	3618.1	0.14	4.6	-0.1209	-0.0198	0.997	2.72E+01	1.52E+01	120	7	7

32.76661	14.17	3495.7	3496.4	0.41	3.92	-0.1172	-0.014	0.997	2.73E+01	1.53E+01	120	6	7
32.85524	8.6	4062.9	4063.7	0.21	4.07	-0.122	-0.0198	0.996	2.74E+01	1.53E+01	120	7	7
32.89976	0.85	3657.2	3657.8	0.02	2.76	-0.1228	-0.0202	0.997	2.74E+01	1.53E+01	120	-99	7
33.03772	13.66	3934.6	3935	0.35	2.42	-0.116	-0.0175	0.997	2.75E+01	1.54E+01	120	7	7
33.10269	12.17	4264.4	4265	0.29	3.3	-0.1185	-0.0174	0.997	2.76E+01	1.54E+01	120	7	7
33.18851	0.94	3695.8	3695.9	0.03	0.77	-0.119	-0.0176	0.997	2.77E+01	1.54E+01	120	-99	7
33.18932	0.9	3676.4	3677	0.02	2.9	-0.119	-0.0176	0.997	2.77E+01	1.54E+01	120	-99	7
33.34412	9.73	3014	3014.7	0.32	3.48	-0.108	-0.0162	0.997	2.78E+01	1.55E+01	120	6	7
33.35656	10.32	2924.5	2924.9	0.35	2.07	-0.1066	-0.0163	0.997	2.78E+01	1.55E+01	120	6	7
33.40027	12.47	4242.3	4243	0.29	3.92	-0.1094	-0.0178	0.997	2.78E+01	1.55E+01	120	7	7
33.4119	13.04	3982.8	3983.6	0.33	4.23	-0.1101	-0.0176	0.997	2.78E+01	1.55E+01	120	7	7
33.50254	9.18	4091.9	4092.5	0.22	3.32	-0.1114	-0.0186	0.997	2.79E+01	1.56E+01	120	7	7
33.6806	11.35	3937.3	3937.9	0.29	3.25	-0.1096	-0.0176	0.997	2.81E+01	1.56E+01	120	7	7
33.77084	11.83	4278.3	4278.4	0.28	0.95	-0.1128	-0.0181	0.997	2.81E+01	1.57E+01	120	7	7
33.78247	11.62	4405.2	4405.8	0.26	2.35	-0.1131	-0.0159	0.997	2.82E+01	1.57E+01	120	7	7
33.82498	10.86	3481.9	3482.6	0.31	3.32	-0.117	-0.0182	0.997	2.82E+01	1.57E+01	120	6	7
33.93768	10.95	3532.8	3533.8	0.31	4.88	-0.1242	-0.0138	0.997	2.83E+01	1.57E+01	120	6	7
33.97898	12.21	3361.7	3362.4	0.36	3.68	-0.1243	-0.0195	0.997	2.83E+01	1.58E+01	120	6	7
34.10732	16.02	3377	3377.4	0.47	2.5	-0.133	-0.0208	0.997	2.84E+01	1.58E+01	120	6	7
34.1771	13.89	3049.9	3050.3	0.46	2.19	-0.1491	-0.0211	0.997	2.85E+01	1.58E+01	120	6	7
34.23967	13.57	3139.4	3140	0.43	2.88	-0.1524	-0.0204	0.997	2.85E+01	1.59E+01	120	6	7
34.27292	15.42	3038.2	3038.9	0.51	3.4	-0.1537	-0.0214	0.996	2.86E+01	1.59E+01	120	6	7
34.31538	16.33	3109.2	3109.5	0.53	1.21	-0.1543	-0.0182	0.997	2.86E+01	1.59E+01	120	6	7
34.35464	9.04	3087.2	3087.3	0.29	0.54	-0.1551	-0.0163	0.997	2.86E+01	1.59E+01	120	6	7
34.3975	10.92	3011.6	3012.1	0.36	2.45	-0.1574	-0.0182	0.997	2.87E+01	1.59E+01	120	6	7
34.45117	8.6	2938.9	2939.7	0.29	4	-0.1576	-0.0209	0.996	2.87E+01	1.60E+01	120	6	7
34.50605	14.43	2958.6	2959.3	0.49	3.37	-0.156	-0.021	0.997	2.88E+01	1.60E+01	120	6	7
34.54851	13.17	3002.6	3003.5	0.44	4.37	-0.1573	-0.0166	0.997	2.88E+01	1.60E+01	120	6	7
34.59057	20.41	3001.6	3002.4	0.68	4.32	-0.157	-0.0172	0.997	2.88E+01	1.60E+01	120	6	7
34.59858	21.8	2899.5	2900.4	0.75	4.99	-0.1569	-0.0176	0.997	2.88E+01	1.60E+01	120	6	7
34.64305	18.05	2998.5	2999.4	0.6	4.5	-0.1553	-0.0208	0.997	2.89E+01	1.60E+01	120	6	7
34.6827	17.79	2904.8	2905.6	0.61	4.34	-0.1542	-0.0214	0.997	2.89E+01	1.60E+01	120	6	7
34.70393	17.66	3167.1	3168.2	0.56	6.03	-0.1538	-0.021	0.997	2.89E+01	1.61E+01	120	6	7
34.76282	16.82	3088.4	3090.5	0.54	11.1	-0.1498	-0.0206	0.997	2.90E+01	1.61E+01	120	6	7
34.77604	16.57	2681.2	2682.8	0.62	8.16	-0.1493	-0.0195	0.997	2.90E+01	1.61E+01	120	6	6
34.86897	15.06	3358.3	3359.7	0.45	7.57	-0.1442	-0.0187	0.996	2.91E+01	1.61E+01	120	6	7
34.88018	14.73	2665.3	2666.4	0.55	5.91	-0.1433	-0.0174	0.997	2.91E+01	1.61E+01	120	6	6
34.95309	14.16	2616.3	2616.9	0.54	3.06	-0.1392	-0.0211	0.997	2.91E+01	1.62E+01	120	6	6
34.98273	14.02	2437.4	2437.9	0.58	2.56	-0.1381	-0.0203	0.997	2.92E+01	1.62E+01	120	6	6
35.07446	14.36	2830.9	2831.6	0.51	3.83	-0.1329	-0.0212	0.996	2.92E+01	1.62E+01	120	6	7
35.16859	10.66	2857.9	2858.6	0.37	3.66	-0.1311	-0.0185	0.997	2.93E+01	1.62E+01	120	6	7
35.25872	10.3	2777.9	2778.6	0.37	3.61	-0.1268	-0.0199	0.996	2.94E+01	1.63E+01	120	6	7
35.35006	8.19	2670.1	2670.8	0.31	3.28	-0.1307	-0.0198	0.997	2.95E+01	1.63E+01	120	6	6
35.43778	9.19	2584.8	2585.5	0.36	3.39	-0.1303	-0.0203	0.997	2.95E+01	1.63E+01	120	6	6
35.5207	6.84	2537.6	2538.4	0.27	3.77	-0.1304	-0.0197	0.997	2.96E+01	1.64E+01	120	6	6
35.60962	9.09	2547.3	2548	0.36	3.55	-0.1283	-0.0199	0.997	2.97E+01	1.64E+01	120	6	6
35.65369	9.14	2147.3	2147.8	0.43	2.68	-0.1295	-0.0197	0.997	2.97E+01	1.64E+01	120	6	6
35.72779	9.88	2547.5	2548.3	0.38	3.74	-0.128	-0.0197	0.997	2.98E+01	1.65E+01	120	6	6
35.81552	4.07	2526.8	2527.4	0.16	2.94	-0.1246	-0.0198	0.997	2.99E+01	1.65E+01	120	6	6
35.91206	8.78	2526.8	2527.5	0.35	3.48	-0.125	-0.02	0.997	2.99E+01	1.65E+01	120	6	6
36.00619	8.73	2521.3	2521.9	0.35	2.85	-0.1245	-0.0197	0.997	3.00E+01	1.66E+01	120	6	6
36.09472	9.41	2517.2	2517.6	0.37	2.45	-0.1238	-0.0197	0.997	3.01E+01	1.66E+01	120	6	6

36.23091	10.7	2321.2	2321.6	0.46	2.4	-0.1965	-0.0117	0.996	3.02E+01	1.67E+01	120	6	6
36.23372	10.61	2329	2329.7	0.48	4.11	-0.2012	-0.0112	0.997	3.02E+01	1.67E+01	120	6	6
36.27337	11.34	2469.5	2470.2	0.46	3.95	-0.2417	-0.0078	0.996	3.02E+01	1.67E+01	120	6	6
36.31703	12.04	2453.7	2454.4	0.49	3.74	-0.2707	-0.0062	0.997	3.03E+01	1.67E+01	120	6	6
36.3603	12.02	2456.5	2457.2	0.49	3.38	-0.2939	-0.0052	0.996	3.03E+01	1.67E+01	120	6	6
36.40596	11.85	2420	2420.8	0.49	4.1	-0.2939	-0.0069	0.997	3.03E+01	1.67E+01	120	6	6
36.44802	12.12	2346.3	2347.1	0.52	3.81	-0.2939	-0.0085	0.997	3.04E+01	1.68E+01	120	6	6
36.49048	12.2	2257.5	2258.4	0.54	4.31	-0.2938	-0.0089	0.998	3.04E+01	1.68E+01	120	6	6
36.53054	12.01	2256.3	2257.2	0.53	4.36	-0.2938	-0.0092	0.997	3.04E+01	1.68E+01	120	6	6
36.573	12.34	2344.4	2345.2	0.53	4.26	-0.2937	-0.0097	0.997	3.05E+01	1.68E+01	120	6	6
36.61586	12.18	2271.5	2272.3	0.54	4.01	-0.2936	-0.0104	0.997	3.05E+01	1.68E+01	120	6	6
36.65872	12.19	2234.3	2235.1	0.55	4.41	-0.2936	-0.0101	0.997	3.06E+01	1.68E+01	120	6	6
36.69994	12.14	2228.7	2229.6	0.54	5.38	-0.2936	-0.0099	0.997	3.06E+01	1.68E+01	120	6	6
36.71239	11.78	2173.4	2174.2	0.54	4.35	-0.2937	-0.0094	0.998	3.06E+01	1.69E+01	120	6	6
36.75526	11.4	2125.7	2126.5	0.54	4.44	-0.2309	-0.0094	0.996	3.06E+01	1.69E+01	120	6	6
36.80092	11.1	2108.3	2109.1	0.53	4.42	-0.1386	-0.0095	0.997	3.07E+01	1.69E+01	120	6	6
36.83337	11.12	2022.1	2022.9	0.55	4.13	-0.2547	-0.0105	0.996	3.07E+01	1.69E+01	120	6	6
36.86701	10.88	2153.5	2154.3	0.51	4.49	-0.2944	-0.0094	0.997	3.07E+01	1.69E+01	120	6	6
36.90868	10.9	2053.5	2054.3	0.53	4.32	-0.2941	-0.0077	0.997	3.08E+01	1.69E+01	120	6	6
36.95474	10.7	2110.1	2110.9	0.51	4.5	-0.2938	-0.0071	0.997	3.08E+01	1.70E+01	120	6	6
36.96556	10.71	2074.5	2075.4	0.52	4.69	-0.2938	-0.0072	0.997	3.08E+01	1.70E+01	120	6	6
37.01002	10.63	2078.6	2079.5	0.51	4.34	-0.2936	-0.0073	0.997	3.08E+01	1.70E+01	120	6	6
37.05368	11.21	2091.4	2092.1	0.54	4	-0.2938	-0.0074	0.997	3.09E+01	1.70E+01	120	6	6
37.09895	10.67	2081.7	2082.5	0.51	4.09	-0.294	-0.0074	0.997	3.09E+01	1.70E+01	120	6	6
37.14341	10.59	2218.2	2219	0.48	4.31	-0.2941	-0.0074	0.996	3.10E+01	1.70E+01	120	6	6
37.18827	10.66	2150.1	2150.9	0.5	4.23	-0.294	-0.0075	0.997	3.10E+01	1.70E+01	120	6	6
37.23234	10.93	2216.9	2217.7	0.49	4.05	0.1775	-0.0078	0.997	3.10E+01	1.71E+01	120	6	6
37.25076	10.63	2147.2	2148.1	0.49	4.93	0.78	-0.0082	0.998	3.10E+01	1.71E+01	120	6	6
37.29583	10.32	2143.2	2144	0.48	4.41	2.2471	-0.009	0.997	3.11E+01	1.71E+01	120	6	6
37.33809	10.08	2087.6	2088.5	0.48	4.6	2.6544	-0.0106	0.997	3.11E+01	1.71E+01	120	6	6
37.38535	10.4	2061.4	2062.2	0.5	4.26	1.6293	-0.0144	0.997	3.12E+01	1.71E+01	120	6	6
37.40699	10.31	2002.1	2003.1	0.51	5.19	1.1602	-0.0161	0.997	3.12E+01	1.71E+01	120	6	6
37.45145	10.39	2064.5	2065.5	0.5	4.94	0.5896	-0.0175	0.997	3.12E+01	1.72E+01	120	6	6
37.49471	10.59	2102.1	2102.9	0.5	4.03	0.2578	-0.0177	0.997	3.13E+01	1.72E+01	120	6	6
37.54158	9.36	2205	2205.8	0.42	4.17	-0.0053	-0.018	0.997	3.13E+01	1.72E+01	120	6	6
37.58684	8.01	2033.8	2034.6	0.39	4.15	-0.0672	-0.0186	0.997	3.13E+01	1.72E+01	120	6	6
37.59204	8.15	1986.5	1987.5	0.41	5.13	-0.0743	-0.0186	0.996	3.13E+01	1.72E+01	120	6	6
37.6381	8.19	2010.4	2011.3	0.41	4.79	-0.1198	-0.0188	0.996	3.14E+01	1.72E+01	120	6	6
37.68055	8.35	2025.2	2026	0.41	4.31	-0.1202	-0.0181	0.997	3.14E+01	1.72E+01	120	6	6
37.72781	9.14	2051	2051.9	0.45	4.29	-0.1208	-0.0173	0.996	3.14E+01	1.73E+01	120	6	6
37.76825	9.58	2196.4	2197.3	0.44	4.5	-0.1211	-0.0175	0.996	3.15E+01	1.73E+01	120	6	6
37.83673	9.64	2062.4	2063.2	0.47	4.36	-0.1218	-0.0175	0.997	3.15E+01	1.73E+01	120	6	6
37.87518	9.48	1987.9	1988.7	0.48	3.96	-0.1231	-0.0159	0.997	3.16E+01	1.73E+01	120	6	6
37.90081	9.56	2215.5	2216.5	0.43	5.07	-0.124	-0.0148	0.997	3.16E+01	1.73E+01	120	6	6
37.95287	9.26	2316.5	2317.4	0.4	4.9	-0.1251	-0.0145	0.996	3.16E+01	1.74E+01	120	6	6
37.99933	9.09	2333.9	2334.9	0.39	5.23	-0.1253	-0.0174	0.996	3.17E+01	1.74E+01	120	6	6
38.05019	9.52	2327.8	2328.5	0.41	4.55	-0.1254	-0.0196	0.997	3.17E+01	1.74E+01	120	6	6
38.08943	9.57	2401.2	2402.4	0.4	5.78	-0.1254	-0.0197	0.996	3.17E+01	1.74E+01	120	6	6
38.13428	10.03	2497.9	2498.9	0.4	5.81	-0.1254	-0.0199	0.996	3.18E+01	1.74E+01	120	6	6
38.17954	4.95	2565.7	2566.8	0.19	5.83	-0.1243	-0.0196	0.996	3.18E+01	1.74E+01	120	6	6
38.20557	2.12	2504.1	2505.4	0.08	6.28	-0.1236	-0.0194	0.997	3.18E+01	1.75E+01	120	-99	6
38.25042	3	2576.8	2577.8	0.12	5.49	-0.1238	-0.0194	0.996	3.19E+01	1.75E+01	120	6	6

38.29848	3.95	2631.3	2632.3	0.15	5.13	-0.125	-0.0196	0.996	3.19E+01	1.75E+01	120	6	6
38.34534	5.17	2657.5	2658.5	0.19	4.95	-0.1255	-0.0197	0.996	3.20E+01	1.75E+01	120	6	6
38.38939	6.3	2603.2	2604.2	0.24	5.11	-0.1262	-0.0201	0.997	3.20E+01	1.75E+01	120	6	6
38.43985	7.11	2489.8	2490.7	0.29	4.43	-0.1271	-0.0207	0.996	3.20E+01	1.75E+01	120	6	6
38.48951	7.74	2542	2542.8	0.3	4.19	-0.1255	-0.0199	0.996	3.21E+01	1.76E+01	120	6	6
38.54797	7.4	2697.2	2697.5	0.27	1.49	-0.1253	-0.0196	0.997	3.21E+01	1.76E+01	120	6	6
38.6521	7.15	2539.2	2539.2	0.28	-0.02	-0.127	-0.017	0.995	3.22E+01	1.76E+01	120	6	6
38.74821	6.51	2404.3	2404.3	0.27	-0.1	-0.1289	-0.017	0.996	3.23E+01	1.77E+01	120	6	6
38.85634	4.39	2398.8	2398.7	0.18	-0.23	-0.1296	-0.0171	0.996	3.24E+01	1.77E+01	120	6	6
39.02414	6.26	2446.8	2446.9	0.26	0.37	-0.1302	-0.0171	0.996	3.25E+01	1.78E+01	120	6	6
39.12185	7.23	2549.1	2549.2	0.28	0.71	-0.1271	-0.0172	0.995	3.26E+01	1.78E+01	120	6	6
39.13627	7.25	2514.4	2514.6	0.29	0.99	-0.1264	-0.0174	0.996	3.26E+01	1.78E+01	120	6	6
39.22558	8.76	2507.5	2507.7	0.35	0.94	-0.1245	-0.0172	0.996	3.27E+01	1.79E+01	120	6	6
39.31528	11.66	2688.3	2688.8	0.43	2.68	-0.1252	-0.0172	0.996	3.28E+01	1.79E+01	120	6	6
39.4174	13	2759.9	2760.4	0.47	2.92	-0.1276	-0.0173	0.996	3.29E+01	1.79E+01	120	6	6
39.51792	11.38	2849.8	2850.2	0.4	2.23	-0.1275	-0.0169	0.996	3.29E+01	1.80E+01	120	6	6
39.62004	12.61	2843.5	2843.8	0.44	1.54	-0.1284	-0.0166	0.997	3.30E+01	1.80E+01	120	6	6
39.82629	11.73	2489.6	2489.8	0.47	1.12	-0.1358	-0.0179	0.996	3.32E+01	1.81E+01	120	6	6
39.92521	10.54	2464	2464.3	0.43	1.64	-0.136	-0.0184	0.996	3.33E+01	1.81E+01	120	6	6
40.02773	11.17	2464.7	2465.1	0.45	1.83	0	0	0.996	3.34E+01	1.82E+01	120	6	6
40.12865	11.68	2489.1	2489.5	0.47	2.06	0	0	0.996	3.34E+01	1.82E+01	120	6	6
40.23357	7.26	2519.3	2520	0.29	3.62	0	0	0.997	3.35E+01	1.83E+01	120	6	6
40.33489	8.01	2572.5	2573	0.31	2.45	0	0	0.995	3.36E+01	1.83E+01	120	6	6
40.44062	9.11	2581.8	2582.2	0.35	1.86	0	0	0.996	3.37E+01	1.83E+01	120	6	6
40.54034	9.89	2718	2718.3	0.36	1.46	0	0	0.996	3.38E+01	1.84E+01	120	6	6
40.55678	8.87	2657.7	2659.3	0.33	8.25	0	0	0.996	3.38E+01	1.84E+01	120	6	6
40.65247	10.73	2783	2783.9	0.39	4.66	0	0	0.997	3.39E+01	1.84E+01	120	6	6
40.75619	8.82	2845.4	2846.4	0.31	4.74	0	0	0.996	3.40E+01	1.85E+01	120	6	6
40.88314	8.47	2888.4	2889.2	0.29	4.1	0	0	0.996	3.41E+01	1.85E+01	120	6	6
40.93184	6.85	2837.2	2838.7	0.24	6.12	0	0	0.997	3.41E+01	1.85E+01	120	6	6
40.98655	9.49	2983.5	2984.7	0.32	6.43	0	0	0.997	3.42E+01	1.86E+01	120	6	6
41.02221	12.15	3023.7	3024.9	0.4	6.54	0	0	0.997	3.42E+01	1.86E+01	120	6	6
41.04947	9.63	3050.9	3052.3	0.32	7.12	0	0	0.997	3.42E+01	1.86E+01	120	6	6
41.07632	6.23	3037.5	3038.7	0.21	6.23	0	0	0.997	3.42E+01	1.86E+01	120	6	6
41.17891	7.48	3223.6	3224.1	0.23	2.17	0	0	0.997	3.43E+01	1.86E+01	120	6	7
41.2258	10.6	3178.2	3178.7	0.33	2.32	0	0	0.997	3.44E+01	1.87E+01	120	6	7
41.29553	6.03	3160	3161.3	0.19	6.5	0	0	0.997	3.44E+01	1.87E+01	120	6	7
41.34603	4.75	3080.1	3081.4	0.15	6.7	0	0	0.997	3.45E+01	1.87E+01	120	6	6
41.44662	9.42	3335.6	3336.9	0.28	6.85	0	0	0.997	3.45E+01	1.88E+01	120	6	7
41.49071	8.44	3360.4	3361.8	0.25	7.38	0	0	0.997	3.46E+01	1.88E+01	120	6	7
41.57006	19.08	3414.4	3414.6	0.56	0.98	0	0	0.997	3.46E+01	1.88E+01	120	6	7
41.62095	14.85	3814.4	3814.5	0.39	0.58	0	0	0.997	3.47E+01	1.88E+01	120	6	7
41.71674	14.2	3898.6	3899.4	0.36	3.86	0	0	0.997	3.48E+01	1.89E+01	120	6	7
41.77044	2.43	4279.6	4282.5	0.06	14.91	0	0	0.997	3.48E+01	1.89E+01	120	-99	7
41.80691	12.03	4214.6	4218	0.29	17.48	0	0	0.997	3.48E+01	1.89E+01	120	7	7
41.90389	8.83	4056.8	4059.4	0.22	3.17	0	0	0.997	3.49E+01	1.89E+01	120	7	7
41.91351	10.22	3734.4	3734.9	0.27	2.76	0	0	0.997	3.49E+01	1.89E+01	120	6	7
41.9616	13.11	3668.1	3668.9	0.36	4.5	0	0	0.997	3.50E+01	1.90E+01	120	6	7
42.06059	0	4221.6	4222.3	0	3.63	0	0	0.997	3.51E+01	1.90E+01	120	-99	7
42.07542	0	3929	3929.7	0	3.53	0	0	0.997	3.51E+01	1.90E+01	120	-99	7
42.15758	0	4320.8	4321.4	0	3.4	0	0	0.998	3.51E+01	1.90E+01	120	-99	7
42.19204	0	3975.9	3976.4	0	2.44	0	0	0.997	3.52E+01	1.90E+01	120	-99	7

42.23693	0	4467.1	4467.6	0	2.21	0	0	0.997	3.52E+01	1.91E+01	120	-99	7
42.24133	0	4025.8	4026.3	0	3.56	0	0	0.997	3.52E+01	1.91E+01	120	-99	7
42.277	0	4881.7	4882.1	0	1.91	0	0	0.997	3.52E+01	1.91E+01	120	-99	7
42.32589	0	4944.6	4944.9	0	1.78	0	0	0.997	3.53E+01	1.91E+01	120	-99	7

Electric Cone Penetrometer Data

Cone_TAP v 2.90

Test Id: HD-09 Date: 4-Nov-03

Site: SUNNYSIDE Cone Id: 108.034XXX

Location: QUEENS NY

Project: ROUX Soil Density(pcf): 120

Client: ROUX

Depth (ft)	Sleeve Stress (psi)	Tip Stress UNC (psi)	Tip Stress COR (psi)	Ratio COR (%)	Pore Pressure (psi)	LFFD (V)	HFFD (V)	Excitation (Vdc)	Overburden (psi)	Eff. Overburden (psi)	Wet Density (pcf)	Class. FR (Rob. 1990)	Class. PP (Rob. 1990)
0	0	0	0	0	0	0	0	NM	0.00E+00	0.00E+00	120	-99	-99
0.1905	0	-2.9	-2.9	0	-0.04	0.2707	0.8776	NM	1.59E-01	7.62E-02	120	-99	-99
0.25788	0	-4.3	-4.3	0	-0.04	0.2137	0.6945	NM	2.15E-01	1.03E-01	120	-99	-99
0.32966	-0.16	-4.3	-4.3	3.69	-0.04	0.1555	0.4873	NM	2.75E-01	1.32E-01	120	-99	-99
0.39544	-0.14	-2.9	-2.9	4.76	-0.04	0.1079	0.311	NM	3.30E-01	1.58E-01	120	-99	-99
0.46402	-0.14	-2.9	-2.9	5.01	-0.04	0.0731	0.1836	NM	3.87E-01	1.86E-01	120	-99	-99
0.52939	-0.14	-2.9	-2.9	4.75	-0.09	0.0579	0.1313	NM	4.41E-01	2.12E-01	120	-99	-99
0.59676	-0.03	-2.9	-2.9	1.11	-0.04	0.054	0.1198	NM	4.97E-01	2.39E-01	120	-99	-99
0.66294	-0.03	-4.3	-4.3	0.73	-0.04	0.0512	0.1147	NM	5.52E-01	2.65E-01	120	-99	-99
0.72991	-0.03	-4.3	-4.3	0.73	-0.04	0.046	0.0885	NM	6.08E-01	2.92E-01	120	-99	-99
0.79568	-0.03	-4.3	-4.3	0.73	-0.04	0.0428	0.0644	NM	6.63E-01	3.18E-01	120	-99	-99
0.86226	-0.02	-4.3	-4.3	0.57	-0.04	0.0397	0.0488	NM	7.19E-01	3.45E-01	120	-99	-99
0.92723	-0.01	2.6	2.7	-0.31	0.34	0.0395	0.0431	NM	7.73E-01	3.71E-01	120	-99	4
0.991	-0.04	2.6	2.7	-1.4	0.34	0.0531	0.0542	NM	8.26E-01	3.96E-01	120	-99	3
1.06118	-0.05	1.2	1.2	-4.36	0.39	0.067	0.0562	NM	8.84E-01	4.25E-01	120	-99	-99
1.12695	-0.03	2.6	2.7	-1.18	0.34	0.0797	0.0591	NM	9.39E-01	4.51E-01	120	-99	3
1.19473	-0.03	8.5	8.6	-0.37	0.34	0.0986	0.0845	NM	9.96E-01	4.78E-01	120	-99	5
1.2597	-0.04	11.4	11.5	-0.32	0.39	0.1103	0.0934	NM	1.05E+00	5.04E-01	120	-99	5
1.32587	-0.06	11.4	11.5	-0.49	0.34	0.1167	0.0875	NM	1.11E+00	5.30E-01	120	-99	5
1.38964	-0.04	7	7.1	-0.51	0.34	0.088	0.073	NM	1.16E+00	5.56E-01	120	-99	4
1.45782	-0.06	2.6	2.7	-2.1	0.39	0.069	0.068	NM	1.22E+00	5.83E-01	120	-99	-99
1.5264	-0.03	11.4	11.5	-0.28	0.34	0.0589	0.059	NM	1.27E+00	6.11E-01	120	-99	5
1.59538	-0.04	1.2	1.2	-3.14	0.39	0.0532	0.0553	NM	1.33E+00	6.38E-01	120	-99	-99
1.66155	-0.05	1.2	1.2	-4.19	0.34	0.0699	0.0672	NM	1.39E+00	6.65E-01	120	-99	-99
1.72813	0	1.2	1.2	-0.11	0.39	0.091	0.0816	NM	1.44E+00	6.91E-01	120	-99	-99
1.7939	0	1.2	1.2	-0.11	0.34	0.1118	0.0959	NM	1.50E+00	7.18E-01	120	-99	-99
1.85927	-0.01	1.2	1.2	-1.02	0.34	0.1498	0.1227	NM	1.55E+00	7.44E-01	120	-99	-99
1.92665	-0.06	1.2	1.2	-5.08	0.34	0.2554	0.1805	NM	1.61E+00	7.71E-01	120	-99	-99
1.99723	-0.06	2.6	2.7	-2.3	0.39	0.3636	0.2243	NM	1.66E+00	7.99E-01	120	-99	-99
2.0626	-0.06	1.2	1.2	-5.08	0.34	0.4178	0.2254	NM	1.72E+00	8.25E-01	120	-99	-99
2.12837	-0.06	1.2	1.2	-5.04	0.39	0.4786	0.2353	NM	1.77E+00	8.51E-01	120	-99	-99
2.19455	-0.05	-0.3	-0.2	22.36	0.34	0.4587	0.2087	NM	1.83E+00	8.78E-01	120	-99	-99
2.26112	-0.03	-0.3	-0.2	13.66	0.39	0.4459	0.1695	NM	1.88E+00	9.04E-01	120	-99	-99
2.32609	-0.03	2.6	2.7	-1.18	0.34	0.4504	0.1633	NM	1.94E+00	9.30E-01	120	-99	-99
2.39586	-0.03	32	32.1	-0.1	0.34	0.4193	0.1573	NM	2.00E+00	9.58E-01	120	-99	6
2.46044	-0.03	223	223.1	-0.01	0.49	0.3593	0.1415	NM	2.05E+00	9.84E-01	120	-99	7
2.52461	-0.05	578.5	578.6	-0.01	0.59	0.3007	0.133	NM	2.10E+00	1.01E+00	120	-99	7
2.59159	-0.02	935.4	935.5	0	0.64	0.2138	0.1163	NM	2.16E+00	1.04E+00	120	-99	7
2.65696	0.89	1091.1	1091.3	0.08	0.64	0.1599	0.0886	NM	2.21E+00	1.06E+00	120	-99	-99

2.72353	3.19	1265.9	1266.1	0.25	0.64	0.1471	0.0876	NM	2.27E+00	1.09E+00	120	-99	-99
2.79011	4.11	1360	1360.1	0.3	0.64	0.1498	0.1126	NM	2.33E+00	1.12E+00	120	-99	-99
2.85708	3.08	1683.1	1683.2	0.18	0.59	0.145	0.1136	NM	2.38E+00	1.14E+00	120	-99	-99
2.92165	9.54	2115	2115.1	0.45	0.69	0.1843	0.111	NM	2.44E+00	1.17E+00	120	-99	-99
2.98422	28.12	3044.9	3045	0.92	0.69	0.5185	0.2936	NM	2.49E+00	1.19E+00	120	-99	-99
3.04959	25.81	4148.1	4148.2	0.65	0.94	0.2368	0.1751	NM	2.54E+00	1.22E+00	120	-99	-99
3.11418	32.81	4628.4	4628.6	0.71	0.89	0.5908	0.3167	NM	2.60E+00	1.25E+00	120	-99	-99
3.18554	88.23	3785.2	3785.4	2.33	0.94	0.269	0.1612	NM	2.66E+00	1.27E+00	120	-99	-99
3.25172	77.39	4378.7	4378.9	1.77	0.89	0.1891	0.1274	NM	2.71E+00	1.30E+00	120	-99	-99
3.31909	68.86	4507.9	4508.1	1.52	0.94	0.2	0.1352	NM	2.77E+00	1.33E+00	120	-99	-99
3.38446	70.08	4540.3	4540.5	1.54	1.04	0.1586	0.1116	NM	2.82E+00	1.35E+00	120	-99	-99
3.45344	64.54	4137.8	4138	1.56	0.99	0.1109	0.0867	NM	2.88E+00	1.38E+00	120	-99	-99
3.51721	87.12	3877.8	3878	2.25	1.09	0.0976	0.0693	NM	2.93E+00	1.41E+00	120	-99	-99
3.59061	108.51	3858.7	3858.9	2.81	1.09	0.0656	0.0576	NM	2.99E+00	1.44E+00	120	-99	-99
3.65076	128.15	4575.5	4575.7	2.76	0.84	0.0757	0.0608	NM	3.04E+00	1.46E+00	120	-99	-99
3.71453	101.8	4941.3	4941.5	2.06	1.19	0.0639	0.0556	NM	3.10E+00	1.49E+00	120	-99	-99
3.78391	75.31	5470.1	5470.4	1.38	1.54	0.0402	0.0431	NM	3.15E+00	1.51E+00	120	-99	-99
3.85009	50.83	4111.3	4111.5	1.23	1.04	0.0362	0.0452	NM	3.21E+00	1.54E+00	120	-99	-99
3.91265	39.41	4484.4	4484.6	0.88	1.04	0.0313	0.0397	NM	3.26E+00	1.57E+00	120	-99	-99
3.97682	32.64	4997.1	4997.3	0.65	0.99	0.0405	0.0429	NM	3.31E+00	1.59E+00	120	-99	-99
4.19459	75.98	3503.2	3503.4	2.17	1.13	0.0922	0.0603	NM	3.50E+00	1.68E+00	120	-99	-99
4.25916	73.42	3899.5	3899.7	1.88	1.33	0.06	0.0497	NM	3.55E+00	1.70E+00	120	-99	-99
4.32613	54.2	4298.7	4299	1.26	1.48	0.0639	0.0507	NM	3.61E+00	1.73E+00	120	-99	-99
4.3919	32.24	4909.4	4909.7	0.66	1.53	0.1206	0.0705	NM	3.66E+00	1.76E+00	120	-99	-99
4.45046	41.96	4998.9	4999.2	0.84	1.48	0.2135	0.1016	NM	3.71E+00	1.78E+00	120	-99	-99
4.5066	53.19	4724.4	4724.6	1.13	1.68	0.27	0.1211	NM	3.76E+00	1.80E+00	120	-99	-99
4.56355	55.08	4373.6	4373.9	1.26	1.53	0.308	0.1475	NM	3.80E+00	1.83E+00	120	-99	-99
4.6201	63.56	4617.3	4617.6	1.38	1.58	0.0896	0.0581	NM	3.85E+00	1.85E+00	120	-99	-99
4.67785	53.78	5034.2	5034.4	1.07	1.43	0.0847	0.057	NM	3.90E+00	1.87E+00	120	-99	-99
4.73881	35.32	5167.7	5168	0.68	1.33	0.0883	0.0531	NM	3.95E+00	1.90E+00	120	-99	-99
4.80178	26.92	4529.2	4529.5	0.59	1.33	0.0692	0.0542	NM	4.00E+00	1.92E+00	120	-99	-99
4.87277	29.98	4044.8	4045.1	0.74	1.28	0.0858	0.0597	NM	4.06E+00	1.95E+00	120	-99	-99
4.93332	20.43	4188.7	4188.9	0.49	1.28	0.1303	0.0746	NM	4.11E+00	1.97E+00	120	-99	-99
4.98305	21.43	4050.7	4050.9	0.53	1.23	0.1793	0.0912	NM	4.15E+00	1.99E+00	120	-99	-99
5.02957	22.01	4066.8	4067.1	0.54	1.38	0.2251	0.1067	NM	4.19E+00	2.01E+00	120	-99	-99
5.08051	18.39	4127	4127.2	0.45	1.23	0.2752	0.1236	NM	4.23E+00	2.03E+00	120	-99	-99
5.14147	19.08	3752.7	3753	0.51	1.38	0.2874	0.1193	NM	4.29E+00	2.06E+00	120	-99	-99
5.17676	19.06	3335.8	3336.1	0.57	1.43	0.2373	0.1017	NM	4.31E+00	2.07E+00	120	-99	-99
5.21366	21.27	3193.4	3193.7	0.67	1.48	0.1509	0.0745	NM	4.35E+00	2.09E+00	120	-99	-99
5.25015	25.93	3102.4	3102.7	0.84	1.48	0.1509	0.0803	NM	4.38E+00	2.10E+00	120	-99	-99
5.28665	29.92	2858.8	2859.1	1.05	1.53	0.1552	0.0853	NM	4.41E+00	2.12E+00	120	-99	-99
5.32314	32.98	2844.1	2844.4	1.18	1.58	0.1683	0.0835	NM	4.44E+00	2.13E+00	120	-99	-99
5.35803	35.56	2841.1	2841.4	1.25	1.53	0.1836	0.083	NM	4.47E+00	2.14E+00	120	-99	-99
5.39172	38.06	2867.6	2867.9	1.33	1.53	0.2078	0.0874	NM	4.49E+00	2.16E+00	120	-99	-99
5.42902	40.82	2876.4	2876.7	1.42	1.58	0.2229	0.0928	NM	4.52E+00	2.17E+00	120	-99	-99
5.47233	44.03	2747.2	2747.5	1.6	1.53	0.2128	0.1008	NM	4.56E+00	2.19E+00	120	-99	-99
5.51525	43.18	2766.3	2766.6	1.56	1.43	0.203	0.0967	NM	4.60E+00	2.21E+00	120	-99	-99
5.55656	39.83	2625.4	2625.7	1.52	1.48	0.1982	0.0896	NM	4.63E+00	2.22E+00	120	-99	-99
5.59907	47.99	2731.1	2731.3	1.76	1.43	0.2102	0.0825	NM	4.67E+00	2.24E+00	120	-99	-99
5.64439	40.17	2857.3	2857.6	1.41	1.33	0.1927	0.077	NM	4.70E+00	2.26E+00	120	-99	-99
5.85012	30.86	2237.9	2238.1	1.38	1.43	0.3651	0.1296	NM	4.88E+00	2.34E+00	120	6	7
5.88983	27.61	2099.9	2100.2	1.31	1.48	0.2625	0.0929	NM	4.91E+00	2.36E+00	120	6	7

5.94116	24.87	1973.8	1973.9	1.25	1.53	0.1446	0.0618	NM	4.95E+00	2.38E+00	120	6	7
5.9925	27.52	2205.8	2205.8	1.25	1.48	0.1612	0.0712	NM	4.99E+00	2.40E+00	120	6	7
6.02819	32.44	2296.8	2296.9	1.41	1.58	0.1753	0.0747	NM	5.02E+00	2.41E+00	120	8	7
6.06188	32.52	2328.9	2329.1	1.4	1.48	0.1683	0.0659	NM	5.05E+00	2.43E+00	120	8	7
6.11682	31.04	2311.2	2311.5	1.34	1.58	0.1456	0.039	NM	5.10E+00	2.45E+00	120	6	7
6.16896	32.05	2487.4	2487.7	1.29	1.58	0.1601	0.0285	NM	5.14E+00	2.47E+00	120	-99	-99
6.2215	29.66	2783.9	2784.2	1.07	1.68	0.2315	0.0487	NM	5.19E+00	2.49E+00	120	-99	-99
6.27002	26.55	2396.4	2396.7	1.11	1.53	0.2486	0.0596	NM	5.23E+00	2.51E+00	120	6	7
6.32537	23.99	1967.8	1968.1	1.22	1.73	0.3496	0.0756	NM	5.27E+00	2.53E+00	120	6	7
6.3751	24.19	1853.3	1853.6	1.3	1.63	0.3817	0.0819	NM	5.31E+00	2.55E+00	120	6	7
6.42523	24.85	2042.6	2043	1.22	1.73	0.3546	0.0839	NM	5.35E+00	2.57E+00	120	6	7
6.47977	23.99	2284.8	2285.1	1.05	1.68	0.4655	0.1101	NM	5.40E+00	2.59E+00	120	6	7
6.5279	22.18	2400.8	2401.1	0.92	1.73	0.4713	0.1159	NM	5.44E+00	2.61E+00	120	7	7
6.59127	20.98	2190.9	2191.2	0.96	1.83	0.2575	0.0638	NM	5.49E+00	2.64E+00	120	6	7
6.66225	24.75	2124.8	2125.2	1.16	1.83	0.3056	0.0565	NM	5.55E+00	2.67E+00	120	6	7
6.73043	25.9	2187.9	2188.3	1.18	1.78	0.33	0.0576	NM	5.61E+00	2.69E+00	120	6	7
6.79741	24.3	2267.2	2267.6	1.07	1.83	0.1893	0.0326	NM	5.67E+00	2.72E+00	120	6	7
6.86197	26.06	2402.3	2402.6	1.08	1.73	0.1557	0.0195	NM	5.72E+00	2.75E+00	120	6	7
6.93176	31.34	2293.6	2294	1.37	1.78	0.119	0.0148	NM	5.78E+00	2.77E+00	120	6	7
6.99592	29.06	2274.5	2274.9	1.28	1.88	0.1188	0.0166	NM	5.83E+00	2.80E+00	120	8	7
7.0633	26.68	2500.6	2501	1.07	2.08	0.1641	0.0178	NM	5.89E+00	2.83E+00	120	8	7
7.12948	24.71	2819.1	2819.5	0.88	2.08	0.1691	0.018	NM	5.94E+00	2.85E+00	120	7	7
7.19565	23.8	2690	2690.4	0.88	2.13	0.1656	0.0141	NM	6.00E+00	2.88E+00	120	7	7
7.26262	31.91	1840.1	1840.4	1.73	1.83	0.0644	0.0033	NM	6.05E+00	2.91E+00	120	8	7
7.45268	39.51	3071.6	3072	1.29	2.18	0.1711	0.0339	NM	6.21E+00	2.98E+00	120	-99	-99
7.52446	31.46	2974.7	2975.1	1.06	1.98	0.2071	0.0269	NM	6.27E+00	3.01E+00	120	6	7
7.5846	38.51	2670.9	2671.2	1.44	1.78	0.2048	0.0206	NM	6.32E+00	3.03E+00	120	8	7
7.64955	53.5	2505	2505.4	2.14	1.83	0.1352	0.0214	NM	6.38E+00	3.06E+00	120	8	7
7.72052	59.01	2889.6	2890	2.04	1.93	0.3251	0.0588	NM	6.43E+00	3.09E+00	120	8	7
7.78668	65.71	3291.8	3292.1	2	1.83	0.411	0.114	NM	6.49E+00	3.12E+00	120	-99	-99
7.85204	57.23	3228.7	3229	1.77	1.83	0.248	0.076	NM	6.54E+00	3.14E+00	120	-99	-99
7.91739	54.89	3150.9	3151.3	1.74	2.03	0.1989	0.0273	NM	6.60E+00	3.17E+00	120	8	7
7.98154	50.43	3509	3509.5	1.44	2.18	0.2434	0.0375	NM	6.65E+00	3.19E+00	120	-99	-99
8.0473	46.04	3696.9	3697.3	1.25	2.18	0.3557	0.0761	NM	6.71E+00	3.22E+00	120	-99	-99
8.11747	44.3	3830.5	3831	1.16	2.38	0.4324	0.1165	NM	6.77E+00	3.25E+00	120	-99	-99
8.18643	39.52	3481.1	3481.6	1.14	2.13	0.3358	0.1079	NM	6.82E+00	3.28E+00	120	-99	-99
8.25219	34.48	3418	3418.5	1.01	2.68	0.3101	0.1026	NM	6.88E+00	3.30E+00	120	-99	-99
8.31835	27.8	3441.5	3442	0.81	2.63	0.3587	0.118	NM	6.93E+00	3.33E+00	120	-99	-99
8.3849	27.54	3418	3418.6	0.81	2.88	0.4078	0.1335	NM	6.99E+00	3.35E+00	120	-99	-99
8.45026	26.8	3344.6	3345.2	0.8	2.83	0.4685	0.1521	NM	7.04E+00	3.38E+00	120	7	7
8.51802	26.06	3237.5	3238	0.8	2.93	0.5703	0.1817	NM	7.10E+00	3.41E+00	120	7	7
8.58698	25.97	3352	3352.5	0.77	2.98	0.6739	0.2118	NM	7.16E+00	3.44E+00	120	7	7
8.65394	27.12	3406.3	3406.8	0.8	2.88	0.7745	0.2411	NM	7.21E+00	3.46E+00	120	7	7
8.7201	26.17	3431.2	3431.8	0.78	3.08	0.6779	0.2185	NM	7.27E+00	3.49E+00	120	7	7
8.78666	25.89	3450.3	3450.9	0.75	3.08	0.491	0.1642	NM	7.32E+00	3.52E+00	120	7	7
8.85201	25.11	3520.8	3521.4	0.71	3.13	0.4058	0.1227	NM	7.38E+00	3.54E+00	120	7	7
8.91817	24.89	3512	3512.6	0.71	3.08	0.3242	0.1034	NM	7.43E+00	3.57E+00	120	7	7
8.98553	24.28	3476.7	3477.3	0.7	3.08	0.4665	0.1493	NM	7.49E+00	3.59E+00	120	7	7
9.0541	24.12	3558.9	3559.5	0.68	3.03	0.5042	0.1564	NM	7.55E+00	3.62E+00	120	7	7
9.11945	23.77	3553.1	3553.7	0.67	3.18	0.5123	0.1631	NM	7.60E+00	3.65E+00	120	7	7
9.18842	22.9	3600	3600.6	0.64	3.03	0.443	0.1382	NM	7.66E+00	3.68E+00	120	7	7
9.25417	22.74	3622.1	3622.6	0.63	3.03	0.3982	0.1335	NM	7.71E+00	3.70E+00	120	7	7

9.32033	22.3	3605.9	3606.5	0.62	2.98	0.2926	0.1109	NM	7.77E+00	3.73E+00	120	7	7
9.38568	21.76	3610.3	3610.9	0.6	2.93	0.3476	0.1134	NM	7.82E+00	3.75E+00	120	7	7
9.45385	21.73	3582.4	3583	0.61	2.93	0.2923	0.1101	NM	7.88E+00	3.78E+00	120	7	7
9.52161	21.76	3526.8	3527.2	0.62	2.93	0.3298	0.1023	NM	7.94E+00	3.81E+00	120	7	7
9.58456	21.81	3566.3	3566.8	0.61	2.88	0.1739	0.0703	NM	7.99E+00	3.83E+00	120	7	7
9.64991	21.6	3582.4	3583	0.6	2.93	0.106	0.0554	NM	8.04E+00	3.86E+00	120	7	7
9.71647	20.96	3603	3603.5	0.58	2.88	0.1113	0.0543	NM	8.10E+00	3.89E+00	120	7	7
9.78183	20.88	3556	3556.6	0.59	2.88	0.1185	0.0533	NM	8.15E+00	3.91E+00	120	7	7
9.85039	20.48	3456.2	3456.7	0.59	2.88	0.0875	0.045	NM	8.21E+00	3.94E+00	120	7	7
9.91695	19.49	3416.5	3417.1	0.57	2.83	0.094	0.047	NM	8.26E+00	3.97E+00	120	7	7
9.98311	18.88	3376.9	3377.5	0.56	2.78	0.1009	0.0494	NM	8.32E+00	3.99E+00	120	7	7
10.05007	18.15	3359.3	3359.8	0.54	2.78	0.1637	0.0669	NM	8.38E+00	4.02E+00	120	7	7
10.11663	17.73	3310.9	3311.4	0.54	2.73	0.1649	0.0572	NM	8.43E+00	4.05E+00	120	7	7
10.18238	17.56	3253.6	3254.1	0.54	2.68	0.108	0.0407	NM	8.49E+00	4.07E+00	120	7	7
10.25095	16.55	3208.1	3208.6	0.52	2.73	0.0721	0.039	NM	8.54E+00	4.10E+00	120	7	7
10.3167	14.78	3172.9	3173.4	0.47	2.68	0.0773	0.0413	NM	8.60E+00	4.13E+00	120	7	7
10.38446	12.96	3156.7	3157.2	0.41	2.58	0.1216	0.0504	NM	8.65E+00	4.15E+00	120	7	7
10.45022	11.2	3171.4	3171.9	0.35	2.53	0.077	0.0455	NM	8.71E+00	4.18E+00	120	7	7
10.51678	10.71	3208.1	3208.6	0.33	2.28	0.0502	0.0394	NM	8.76E+00	4.21E+00	120	7	7
10.58253	10.36	3244.8	3245.2	0.32	2.23	0.0474	0.0373	NM	8.82E+00	4.23E+00	120	7	7
10.80355	12.36	3267.9	3268.1	0.38	1.05	0.0429	0.037	NM	9.00E+00	4.32E+00	120	7	7
11.0302	13.88	3383.8	3383.9	0.41	0.45	0.0264	0.0324	NM	9.19E+00	4.41E+00	120	7	7
11.09639	15.52	3489.5	3489.5	0.44	0.4	0.0189	0.0308	NM	9.25E+00	4.44E+00	120	7	7
11.16217	16.21	3448.4	3448.4	0.47	0.4	0.013	0.0298	NM	9.30E+00	4.47E+00	120	7	7
11.22676	15.21	3483.6	3483.7	0.44	0.4	0.0144	0.0302	NM	9.36E+00	4.49E+00	120	7	7
11.29455	14.89	3485.1	3485.1	0.43	0.45	0.0161	0.0307	NM	9.41E+00	4.52E+00	120	7	7
11.35914	16.42	3511.5	3511.6	0.47	0.45	0.0137	0.0299	NM	9.47E+00	4.54E+00	120	7	7
11.42773	18.49	3482.1	3482.2	0.53	0.35	0.012	0.0294	NM	9.52E+00	4.57E+00	120	7	7
11.49753	19.23	3379.4	3379.5	0.57	0.35	0.0088	0.0289	NM	9.58E+00	4.60E+00	120	7	7
11.56412	17.18	3323.6	3323.7	0.52	0.35	0.0097	0.0293	NM	9.64E+00	4.63E+00	120	7	7
11.62911	15.39	3402.9	3402.9	0.45	0.35	0.0084	0.0285	NM	9.69E+00	4.65E+00	120	7	7
11.6957	14.58	3376.5	3376.4	0.43	-0.3	0.0086	0.028	NM	9.75E+00	4.68E+00	120	7	7
11.76108	14.33	3310.4	3310.4	0.43	-0.25	0.0087	0.0283	NM	9.80E+00	4.70E+00	120	7	7
11.82848	14.24	3229.7	3229.7	0.44	-0.15	0.0059	0.0279	NM	9.86E+00	4.73E+00	120	7	7
11.89787	15.94	3348.5	3348.4	0.48	-1.15	0.0063	0.0283	NM	9.92E+00	4.76E+00	120	7	7
11.96527	19.46	3552.6	3552.4	0.55	-0.65	0.0052	0.0279	NM	9.97E+00	4.79E+00	120	7	7
12.02945	31.3	3731.6	3731.3	0.84	-1.35	0.0037	0.0276	NM	1.00E+01	4.81E+00	120	7	7
12.09725	26.17	3645	3644.8	0.72	-1	0.0039	0.0275	NM	1.01E+01	4.84E+00	120	7	7
12.16223	26.15	3554	3553.9	0.74	-0.9	0.004	0.0275	NM	1.01E+01	4.87E+00	120	7	7
12.22842	23.05	3473.3	3473.1	0.66	-0.9	0.0052	0.0273	NM	1.02E+01	4.89E+00	120	7	7
12.29902	24.56	3423.4	3423.1	0.72	-1.7	0.0061	0.0274	NM	1.03E+01	4.92E+00	120	7	7
12.36722	23.89	2994.9	2994.6	0.8	-1.45	0.0052	0.0274	NM	1.03E+01	4.95E+00	120	7	7
12.433	22.8	2855.5	2855.2	0.8	-1.3	0.0059	0.0279	NM	1.04E+01	4.97E+00	120	6	7
12.5012	18.59	2704.3	2704.1	0.69	-1.3	0.0068	0.028	NM	1.04E+01	5.00E+00	120	7	7
12.56619	17.58	2595.7	2595.5	0.68	-1.25	0.0069	0.0278	NM	1.05E+01	5.03E+00	120	7	7
12.63318	16.89	2544.4	2544.1	0.66	-1.2	0.0064	0.0281	NM	1.05E+01	5.05E+00	120	7	7
12.69856	16.19	2513.6	2513.3	0.64	-1.2	0.0072	0.0284	NM	1.06E+01	5.08E+00	120	7	7
12.76796	15.71	2475.4	2475.1	0.63	-1.3	0.0073	0.0283	NM	1.06E+01	5.11E+00	120	7	7
12.83495	14.74	2506.2	2505.9	0.59	-1.5	0.0067	0.0282	NM	1.07E+01	5.13E+00	120	7	7
12.89954	14.01	2481.3	2481	0.56	-1.4	0.0062	0.0282	NM	1.08E+01	5.16E+00	120	7	7
12.96212	13.95	2488.8	2488.4	0.56	-1.35	0.0062	0.0282	NM	1.08E+01	5.19E+00	120	7	7
13.02951	13.67	2515	2514.8	0.54	-1.3	0.0061	0.0282	NM	1.09E+01	5.21E+00	120	7	7

13.0941	13.58	2564.9	2564.7	0.53	-1.3	0.0057	0.0282	NM	1.09E+01	5.24E+00	120	7	7
13.16309	13.86	2655.9	2655.7	0.52	-1.2	0.0053	0.0281	NM	1.10E+01	5.27E+00	120	7	7
13.22928	14.04	2745.4	2745.2	0.51	-1.2	0.0061	0.0281	NM	1.10E+01	5.29E+00	120	7	7
13.29507	15.24	2752.8	2752.5	0.55	-1.2	0.0066	0.0279	NM	1.11E+01	5.32E+00	120	7	7
13.36366	15.03	2785	2784.8	0.54	-1.2	0.006	0.028	NM	1.11E+01	5.35E+00	120	7	7
13.43066	15.09	2783.6	2783.4	0.54	-1.2	0.0055	0.0277	NM	1.12E+01	5.37E+00	120	7	7
13.49644	15.34	2795.3	2795.1	0.55	-1.2	0.0057	0.0277	NM	1.13E+01	5.40E+00	120	7	7
13.56464	15.04	2805.6	2805.4	0.54	-1.2	0.006	0.0278	NM	1.13E+01	5.43E+00	120	7	7
13.63043	14.9	2777.7	2777.5	0.54	-1.15	0.006	0.0278	NM	1.14E+01	5.45E+00	120	7	7
13.69902	13.99	2801.2	2801	0.5	-1.15	0.0055	0.028	NM	1.14E+01	5.48E+00	120	7	7
13.76481	13.54	2793.8	2793.6	0.48	-1.15	0.0053	0.0282	NM	1.15E+01	5.51E+00	120	7	7
13.8318	13.55	2818.8	2818.6	0.48	-1.15	0.0057	0.0279	NM	1.15E+01	5.53E+00	120	7	7
13.89719	13.79	2852.5	2852.3	0.48	-1.2	0.0054	0.0278	NM	1.16E+01	5.56E+00	120	7	7
13.94974	14.49	2886.3	2886.1	0.5	-1.15	0.0041	0.0281	NM	1.16E+01	5.58E+00	120	7	7
14.04118	15.18	3045.6	3045.4	0.5	-0.93	0.0036	0.0274	NM	1.17E+01	5.62E+00	120	7	7
14.10815	14.82	3120.4	3120.3	0.48	-0.98	0.0032	0.0276	NM	1.18E+01	5.64E+00	120	7	7
14.17513	14.08	3151.3	3151.1	0.45	-0.98	0.0027	0.0278	NM	1.18E+01	5.67E+00	120	7	7
14.2397	14.85	3120.4	3120.2	0.48	-1.03	0.0034	0.0279	NM	1.19E+01	5.70E+00	120	7	7
14.30747	14.77	3092.5	3092.4	0.48	-0.98	0.0024	0.0274	NM	1.19E+01	5.72E+00	120	7	7
14.37766	14.3	3083.7	3083.6	0.46	-0.98	0.0013	0.0266	NM	1.20E+01	5.75E+00	120	7	7
14.44383	13.79	3083.7	3083.5	0.45	-1.03	0.0005	0.0267	NM	1.20E+01	5.78E+00	120	7	7
14.5092	14.04	3070.5	3070.3	0.46	-1.18	0	0.0268	NM	1.21E+01	5.80E+00	120	7	7
14.57377	13.95	3036.8	3036.5	0.46	-1.23	0.0002	0.0266	NM	1.21E+01	5.83E+00	120	7	7
14.64075	13.86	3039.7	3039.5	0.46	-1.23	0.0005	0.0268	NM	1.22E+01	5.86E+00	120	7	7
14.70813	13.73	3047	3046.8	0.45	-1.23	0.0008	0.0266	NM	1.23E+01	5.88E+00	120	7	7
14.7767	13.45	3035.3	3035.1	0.44	-1.18	0.0006	0.0267	NM	1.23E+01	5.91E+00	120	7	7
14.84488	13.07	3029.4	3029.2	0.43	-1.23	0.0001	0.0269	NM	1.24E+01	5.94E+00	120	7	7
14.91106	13.36	3032.3	3032.1	0.44	-1.23	0.0003	0.0269	NM	1.24E+01	5.96E+00	120	7	7
14.97763	13.27	3026.5	3026.2	0.44	-1.23	0.0008	0.0269	NM	1.25E+01	5.99E+00	120	7	7
15.04541	13.02	3029.4	3029.2	0.43	-1.28	0.0013	0.0269	NM	1.25E+01	6.02E+00	120	7	7
15.10918	13.22	3035.3	3035	0.44	-1.28	0.0018	0.0269	NM	1.26E+01	6.04E+00	120	7	7
15.17856	13.16	3029.4	3029.2	0.43	-1.28	0.0026	0.0269	NM	1.27E+01	6.07E+00	120	7	7
15.24754	13.17	3027.9	3027.7	0.44	-1.28	0.0024	0.0273	NM	1.27E+01	6.10E+00	120	7	7
15.31411	12.96	3036.8	3036.5	0.43	-1.23	0.003	0.0272	NM	1.28E+01	6.13E+00	120	7	7
15.37989	12.68	3050	3049.7	0.42	-1.28	0.0034	0.0275	NM	1.28E+01	6.15E+00	120	7	7
15.44565	13.16	3055.8	3055.6	0.43	-1.23	0.0033	0.0274	NM	1.29E+01	6.18E+00	120	7	7
15.51143	14.2	3067.6	3067.3	0.46	-1.28	0.0036	0.0274	NM	1.29E+01	6.21E+00	120	7	7
15.578	15.81	3086.7	3086.4	0.51	-1.28	0.0031	0.0272	NM	1.30E+01	6.23E+00	120	7	7
15.64658	15.3	3102.8	3102.6	0.49	-1.33	0.0021	0.027	NM	1.30E+01	6.26E+00	120	7	7
15.71396	15.24	3229.1	3228.8	0.47	-1.28	0.0018	0.0266	NM	1.31E+01	6.29E+00	120	7	7
15.77813	15.05	3431.7	3431.5	0.44	-1.28	0.002	0.0268	NM	1.32E+01	6.31E+00	120	7	7
15.84711	15.08	3649	3648.8	0.41	-1.23	0.0019	0.0269	NM	1.32E+01	6.34E+00	120	7	7
15.91168	15.18	3782.6	3782.4	0.4	-1.28	0.0029	0.0274	NM	1.33E+01	6.37E+00	120	7	7
15.97745	15.09	3901.5	3901.3	0.39	-1.23	0.002	0.0274	NM	1.33E+01	6.39E+00	120	7	7
16.04482	15.16	4060.1	4059.9	0.37	-1.23	0.0023	0.0273	NM	1.34E+01	6.42E+00	120	7	7
16.1118	16.06	4217.2	4217	0.38	-1.23	0.0029	0.0273	NM	1.34E+01	6.45E+00	120	7	7
16.17717	17.28	4283.3	4283.1	0.4	-1.23	0.0032	0.0272	NM	1.35E+01	6.47E+00	120	7	7
16.23933	17.3	4347.9	4347.6	0.4	-1.28	0.0033	0.0274	NM	1.35E+01	6.50E+00	120	7	7
16.30671	17.66	4390.5	4390.2	0.4	-1.23	0.0043	0.0275	NM	1.36E+01	6.52E+00	120	7	7
16.37289	17.77	4450.7	4450.4	0.4	-1.28	0.0049	0.0275	NM	1.36E+01	6.55E+00	120	7	7
16.43745	17.71	4494.7	4494.5	0.39	-1.23	0.0042	0.0275	NM	1.37E+01	6.58E+00	120	7	7
16.50603	18.96	4519.7	4519.4	0.42	-1.28	0.0043	0.0278	NM	1.38E+01	6.60E+00	120	7	7

16.5714	19.84	4562.3	4562	0.43	-1.23	0.0045	0.0272	NM	1.38E+01	6.63E+00	120	7	7
16.63798	20.92	4550.5	4550.3	0.46	-1.23	0.0055	0.0274	NM	1.39E+01	6.66E+00	120	7	7
16.70616	21.8	4505	4504.8	0.48	-1.23	0.0048	0.0275	NM	1.39E+01	6.68E+00	120	7	7
16.77313	22.21	4509.4	4509.2	0.49	-1.18	0.0054	0.0278	NM	1.40E+01	6.71E+00	120	7	7
16.8377	22.45	4546.1	4545.9	0.49	-1.13	0.0063	0.0281	NM	1.40E+01	6.74E+00	120	7	7
16.90628	23.07	4622.5	4622.2	0.5	-1.13	0.0073	0.0284	NM	1.41E+01	6.76E+00	120	7	7
16.97045	24.21	4700.3	4700.1	0.52	-1.08	0.0082	0.0287	NM	1.41E+01	6.79E+00	120	7	7
17.03863	25.42	4779.6	4779.3	0.53	-1.08	0.0091	0.0291	NM	1.42E+01	6.82E+00	120	7	7
17.1044	26.58	4872.1	4871.9	0.55	-1.03	0.0115	0.0305	NM	1.43E+01	6.84E+00	120	7	7
17.17097	27.08	4948.4	4948.2	0.55	-1.03	0.0108	0.0303	NM	1.43E+01	6.87E+00	120	7	7
17.23635	25.82	5033.6	5033.4	0.51	-1.03	0.0099	0.0298	NM	1.44E+01	6.90E+00	120	7	7
17.5013	28.76	5035.6	5035.4	0.57	-1.01	0	0	NM	1.46E+01	7.00E+00	120	7	7
17.56956	28.33	5129.6	5129.4	0.55	-1.06	0	0	NM	1.46E+01	7.03E+00	120	7	7
17.63782	27.55	5244.1	5243.9	0.53	-1.06	0	0	NM	1.47E+01	7.06E+00	120	7	7
17.70246	27.84	5379.1	5378.9	0.52	-1.06	0	0	NM	1.48E+01	7.08E+00	120	7	7
17.76711	29.9	5531.8	5531.6	0.54	-1.06	0	0	NM	1.48E+01	7.11E+00	120	7	7
17.83336	28.93	5722.6	5722.4	0.51	-1.01	0	0	NM	1.49E+01	7.13E+00	120	7	7
17.89921	29.44	5810.7	5810.5	0.51	-1.01	0	0	NM	1.49E+01	7.16E+00	120	7	7
17.96586	31.04	5917.8	5917.6	0.52	-1.01	0	0	NM	1.50E+01	7.19E+00	120	7	7
18.03493	30.27	5840	5839.8	0.52	-1.01	0	0	NM	1.50E+01	7.21E+00	120	7	7
18.10038	28.94	5865	5864.8	0.49	-1.01	0	0	NM	1.51E+01	7.24E+00	120	7	7
18.16703	29.08	5781.3	5781.1	0.5	-1.01	0	0	NM	1.51E+01	7.27E+00	120	7	7
18.23168	31.44	5867.9	5867.7	0.54	-1.01	0	0	NM	1.52E+01	7.29E+00	120	7	7
18.29793	33.15	5743.1	5743	0.58	-0.86	0	0	NM	1.53E+01	7.32E+00	120	7	7
18.36338	30.87	5757.8	5757.6	0.53	-0.96	0	0	NM	1.53E+01	7.35E+00	120	7	7
18.43164	30.82	5775.4	5775.3	0.53	-0.91	0	0	NM	1.54E+01	7.37E+00	120	7	7
18.50111	31.44	5850.3	5850.1	0.54	-0.91	0	0	NM	1.54E+01	7.40E+00	120	7	7
18.56495	33.67	5953	5952.9	0.57	-0.81	0	0	NM	1.55E+01	7.43E+00	120	7	7
18.63241	35.13	6058.7	6058.6	0.58	-0.81	0	0	NM	1.55E+01	7.45E+00	120	7	7
18.69625	35.9	6320	6319.9	0.57	-0.76	0	0	NM	1.56E+01	7.48E+00	120	7	7
18.76049	36.99	6535.8	6535.7	0.57	-0.71	0	0	NM	1.56E+01	7.50E+00	120	7	7
18.82755	43.06	6904.2	6904.1	0.62	-0.71	0	0	NM	1.57E+01	7.53E+00	120	7	7
18.8934	49.01	7247.7	7247.6	0.68	-0.66	0	0	NM	1.57E+01	7.56E+00	120	7	7
18.95885	54.93	7931.7	7931.6	0.69	-0.56	0	0	NM	1.58E+01	7.58E+00	120	-99	-99
19.02109	60.55	8392.7	8392.6	0.72	-0.51	0	0	NM	1.59E+01	7.61E+00	120	-99	-99
19.08493	66.33	8972.5	8972.4	0.74	-0.51	0	0	NM	1.59E+01	7.63E+00	120	-99	-99
19.43266	0	8426.4	8426.2	0	-0.91	0	0	NM	1.62E+01	7.77E+00	120	-99	-99
19.46839	0	7661.7	7661.5	0	-0.91	0	0	NM	1.62E+01	7.79E+00	120	-99	7
19.50132	0	7604.4	7604.2	0	-1.01	0	0	NM	1.63E+01	7.80E+00	120	-99	7
19.53986	0	7785	7784.8	0	-1.01	0	0	NM	1.63E+01	7.82E+00	120	-99	7
19.57881	0	7783.5	7783.4	0	-0.61	0	0	NM	1.63E+01	7.83E+00	120	-99	7
19.61897	0	7990.5	7990.3	0	-0.76	0	0	NM	1.64E+01	7.85E+00	120	-99	-99
19.65631	0	8260.5	8260.4	0	-0.81	0	0	NM	1.64E+01	7.86E+00	120	-99	-99
19.68883	0	7994.9	7994.7	0	-0.81	0	0	NM	1.64E+01	7.88E+00	120	-99	-99
19.7338	0	8200.4	8200.2	0	-0.76	0	0	NM	1.64E+01	7.89E+00	120	-99	-99
19.76874	0	8583.5	8583.4	0	-0.56	0	0	NM	1.65E+01	7.91E+00	120	-99	-99

Electric Cone Penetrometer Data

Cone_TAP v 2.90

Test Id: HD-10 Date: 5-Nov-03

Site: SUNNYSIDE Cone Id: 108.021XXX

Location: QUEENS NY

Project: ROUX Soil Density(pcf): 120

Client: ROUX

Depth (ft)	Sleeve Stress (psi)	Tip Stress UNC (psi)	Tip Stress COR (psi)	Ratio COR (%)	Pore Pressure (psi)	LFFD (V)	HFFD (V)	Excitation (Vdc)	Overburden (psi)	Eff. Overburden (psi)	Wet Density (pcf)	Class. FR (Rob. 1990)	Class. PP (Rob. 1990)
0	0	0	0	0	0	0	0	0.997	0.00E+00	0.00E+00	120	-99	-99
0.18836	0	5.8	5.7	0	-0.13	0.07	0.0287	0.997	1.55E-01	7.45E-02	120	-99	6
0.24407	0	9.9	9.9	0	-0.08	0.0459	0.0345	0.996	2.03E-01	9.76E-02	120	-99	6
0.30097	0.39	27.9	27.9	1.41	0.01	0.0465	0.0393	0.996	2.51E-01	1.20E-01	120	6	7
0.37151	0.39	49.9	50	0.78	0.09	0.0485	0.0403	0.997	3.10E-01	1.49E-01	120	6	7
0.44445	0.38	74.8	74.9	0.51	0.23	0.0497	0.0419	0.996	3.70E-01	1.78E-01	120	7	7
0.51658	0.47	76.3	76.3	0.62	0.42	0.0494	0.0412	0.996	4.31E-01	2.07E-01	120	6	7
0.58391	0.27	31.4	31.4	0.86	0.12	0.0496	0.0414	0.996	4.87E-01	2.34E-01	120	6	6
0.64844	0.29	53.5	53.5	0.54	0.21	0.0614	0.0483	0.996	5.40E-01	2.59E-01	120	6	7
0.71496	0.25	78.2	78.3	0.31	0.25	0.0754	0.0552	0.997	5.96E-01	2.86E-01	120	7	7
0.78349	0.3	74.1	74.1	0.41	0.21	0.0851	0.0591	0.997	6.53E-01	3.13E-01	120	6	7
0.84681	0.35	37.5	37.6	0.93	0.23	0.099	0.065	0.997	7.06E-01	3.39E-01	120	6	6
0.91815	0.43	17.5	17.5	2.44	-0.06	0.0862	0.0612	0.997	7.65E-01	3.67E-01	120	5	6
0.98267	0.52	20.3	20.3	2.54	-0.01	0.0751	0.0533	0.998	8.19E-01	3.93E-01	120	5	6
1.0496	0.36	16.1	16.1	2.25	-0.02	0.0568	0.0438	0.997	8.75E-01	4.20E-01	120	4	6
1.11692	0.27	15.4	15.4	1.74	-0.04	0.042	0.0348	0.997	9.31E-01	4.47E-01	120	5	6
1.34264	0.12	28.6	28.6	0.4	0.38	0.0238	0.0229	0.996	1.12E+00	5.37E-01	120	6	6
1.4112	0.08	13.4	13.5	0.58	0.43	0.0246	0.0228	0.996	1.18E+00	5.65E-01	120	5	5
1.47976	0.08	-3.8	-3.7	-2.2	0.73	0.0267	0.0232	0.996	1.23E+00	5.92E-01	120	-99	-99
1.54512	0.04	-6.6	-6.6	-0.68	0.37	0.024	0.0218	0.996	1.29E+00	6.18E-01	120	-99	-99
1.60927	0.02	-8	-7.9	-0.21	0.41	0.0261	0.0233	0.996	1.34E+00	6.44E-01	120	-99	-99
1.67503	0	-8.7	-8.6	-0.03	0.43	0.0281	0.0267	0.996	1.40E+00	6.70E-01	120	-99	-99
1.73998	-0.04	-7.3	-7.2	0.59	0.43	0.0288	0.0254	0.998	1.45E+00	6.96E-01	120	-99	-99
1.80814	0	-6.6	-6.5	-0.03	0.45	0.0307	0.0272	0.996	1.51E+00	7.23E-01	120	-99	-99
1.8759	0	-7.3	-7.2	0	0.43	0.0373	0.0311	0.996	1.56E+00	7.50E-01	120	-99	-99
1.94246	0.02	-1.1	-1	-2.53	0.55	0.0455	0.0388	0.996	1.62E+00	7.77E-01	120	-99	-99
2.00662	-0.01	-3.2	-3.1	0.36	0.47	0.045	0.0396	0.996	1.67E+00	8.03E-01	120	-99	-99
2.07317	0.07	1	1.1	6.09	0.52	0.042	0.0382	0.996	1.73E+00	8.29E-01	120	-99	-99
2.13813	0.07	6.5	6.6	1.02	0.48	0.0391	0.0367	0.996	1.78E+00	8.55E-01	120	3	4
2.20389	0.1	14.1	14.2	0.74	0.41	0.0404	0.0305	0.996	1.84E+00	8.82E-01	120	5	5
2.27165	0.2	19.6	19.7	1.03	0.45	0.0413	0.0302	0.996	1.89E+00	9.09E-01	120	5	5
2.34262	0.29	31.3	31.4	0.93	0.42	0.043	0.0291	0.997	1.95E+00	9.37E-01	120	5	6
2.41278	0.51	59.6	59.7	0.86	0.5	0.0531	0.0324	0.996	2.01E+00	9.65E-01	120	6	6
2.48455	0.61	99.7	99.8	0.61	0.5	0.0703	0.0392	0.996	2.07E+00	9.94E-01	120	6	6
2.55632	0.88	163.9	164	0.53	0.61	0.0963	0.0497	0.996	2.13E+00	1.02E+00	120	6	6
2.6309	1.32	242.5	242.6	0.54	0.43	0.1343	0.0656	0.996	2.19E+00	1.05E+00	120	6	7
2.70468	1.77	333.7	333.8	0.53	0.39	0.1801	0.0852	0.996	2.25E+00	1.08E+00	120	6	7
2.77845	1.84	409.5	409.6	0.45	0.3	0.3067	0.1372	0.996	2.32E+00	1.11E+00	120	7	7
2.84461	2.01	453.7	453.7	0.44	0.34	0.5053	0.216	0.996	2.37E+00	1.14E+00	120	7	7

2.92119	2.19	486.8	486.9	0.45	0.61	0.5915	0.244	0.996	2.43E+00	1.17E+00	120	7	7
2.99417	2.28	504.9	505.1	0.45	0.61	0.4936	0.2048	0.996	2.50E+00	1.20E+00	120	7	7
3.06353	2.3	515.2	515.2	0.45	0.1	0.4444	0.184	0.996	2.55E+00	1.23E+00	120	7	7
3.13891	2.31	520.7	520.7	0.44	-0.21	0.4049	0.1673	0.996	2.62E+00	1.26E+00	120	7	7
3.20788	2.24	520.7	520.7	0.43	-0.21	0.3227	0.1376	0.996	2.67E+00	1.28E+00	120	7	7
3.27243	2.21	522.3	522.4	0.42	0.48	0.2881	0.1234	0.996	2.73E+00	1.31E+00	120	7	7
3.33738	2.2	522.3	522.4	0.42	0.55	0.2968	0.1235	0.996	2.78E+00	1.34E+00	120	7	7
3.40073	2.13	527	527.1	0.4	0.43	0.4486	0.177	0.996	2.83E+00	1.36E+00	120	7	7
3.4677	1.98	535.1	535.2	0.37	0.38	0.5933	0.23	0.996	2.89E+00	1.39E+00	120	7	7
3.53305	1.85	545.6	545.6	0.34	0.41	0.6155	0.2371	0.996	2.94E+00	1.41E+00	120	7	7
3.60402	1.87	560.2	560.3	0.33	0.43	0.6549	0.2473	0.996	3.00E+00	1.44E+00	120	7	7
3.66897	1.73	569.3	569.4	0.3	0.55	0.7108	0.2687	0.996	3.06E+00	1.47E+00	120	7	7
3.73633	1.57	568.8	568.9	0.28	0.49	0.7579	0.2881	0.997	3.11E+00	1.50E+00	120	7	7
3.80089	1.57	572.6	572.7	0.27	0.7	0.7462	0.2853	0.996	3.17E+00	1.52E+00	120	7	7
3.86865	1.54	573	573.1	0.27	0.49	0.7767	0.2961	0.997	3.22E+00	1.55E+00	120	7	7
3.9324	1.73	576.7	577.1	0.3	1.95	0.858	0.3229	0.996	3.28E+00	1.57E+00	120	7	7
4.00056	1.94	578.5	578.7	0.33	0.98	0.8254	0.3154	0.997	3.33E+00	1.60E+00	120	7	7
4.06552	1.85	583.6	583.9	0.32	1.15	0.8552	0.3322	0.996	3.39E+00	1.63E+00	120	7	7
4.13208	1.71	583.6	583.9	0.29	1.1	0.9762	0.3695	0.996	3.44E+00	1.65E+00	120	7	7
4.19663	1.57	585.4	585.7	0.27	1.65	1.0198	0.3812	0.997	3.50E+00	1.68E+00	120	7	7
4.26359	1.64	591.7	591.9	0.28	0.92	1.1099	0.4045	0.996	3.55E+00	1.71E+00	120	7	7
4.32694	1.75	587	587.2	0.3	1.3	1.1508	0.4205	0.996	3.61E+00	1.73E+00	120	7	7
4.5085	1.92	537.9	538.1	0.36	1.05	1.0486	0.3997	0.997	3.76E+00	1.80E+00	120	7	7
4.57262	1.89	533.1	533.5	0.35	1.65	0.9429	0.3572	0.997	3.81E+00	1.83E+00	120	7	7
4.63835	1.98	512.4	512.7	0.39	1.43	0.939	0.3454	0.997	3.87E+00	1.86E+00	120	7	7
4.70568	2.07	501.4	501.7	0.41	1.34	0.8739	0.324	0.997	3.92E+00	1.88E+00	120	6	7
4.77581	2.04	493.1	493.4	0.41	1.52	0.8694	0.3238	0.997	3.98E+00	1.91E+00	120	6	7
4.83953	1.98	487.4	487.7	0.41	1.43	0.7415	0.2792	0.997	4.03E+00	1.94E+00	120	6	7
4.90408	2.06	490.5	490.9	0.42	1.62	0.6557	0.2429	0.996	4.09E+00	1.96E+00	120	6	7
4.96818	1.99	486	486.3	0.41	1.6	0.6689	0.238	0.997	4.14E+00	1.99E+00	120	6	7
5.04432	2.02	491.9	492.2	0.41	1.62	0.618	0.2195	0.996	4.20E+00	2.02E+00	120	6	7
5.11766	2.04	493.3	493.6	0.41	1.57	0.652	0.2291	0.996	4.27E+00	2.05E+00	120	6	7
5.19661	2.03	497.3	497.5	0.41	1.48	0.7108	0.2443	0.997	4.33E+00	2.08E+00	120	6	7
5.26915	1.95	504.2	504.4	0.39	1.48	0.719	0.2512	0.997	4.39E+00	2.11E+00	120	6	7
5.33608	1.9	512.2	512.5	0.37	1.34	0.8052	0.2765	0.997	4.45E+00	2.13E+00	120	6	7
5.4002	1.85	516.2	516.4	0.36	1.37	0.8393	0.2843	0.997	4.50E+00	2.16E+00	120	6	7
5.46913	1.78	525.2	525.5	0.34	1.27	0.8427	0.2814	0.997	4.56E+00	2.19E+00	120	6	7
5.53405	1.72	535.7	536	0.32	1.56	0.8324	0.2764	0.997	4.61E+00	2.21E+00	120	7	7
5.60459	1.7	546.1	546.4	0.31	1.54	0.836	0.2747	0.997	4.67E+00	2.24E+00	120	7	7
5.66991	1.69	556.6	556.9	0.3	1.43	0.8307	0.2688	0.997	4.73E+00	2.27E+00	120	7	7
5.73564	1.73	567.3	567.6	0.3	1.55	0.7724	0.2538	0.996	4.78E+00	2.29E+00	120	7	7
5.80016	1.78	582.6	582.9	0.31	1.47	0.7379	0.2489	0.997	4.83E+00	2.32E+00	120	7	7
5.86949	2.38	611.6	611.8	0.39	1.29	0.7394	0.2459	0.997	4.89E+00	2.35E+00	120	6	7
5.93401	2.59	643.9	644.2	0.4	1.49	0.8512	0.2224	0.997	4.95E+00	2.37E+00	120	7	7
6.00215	2.3	667	667.4	0.34	1.61	0.8226	0.2137	0.997	5.00E+00	2.40E+00	120	7	7
6.06947	2.39	684.2	684.5	0.35	1.67	0.7198	0.2387	0.997	5.06E+00	2.43E+00	120	7	7
6.1388	2.41	698.5	698.9	0.34	1.82	0.7814	0.2632	0.997	5.12E+00	2.46E+00	120	7	7
6.20854	2.43	688.9	689.2	0.35	1.82	0.9115	0.3191	0.997	5.17E+00	2.48E+00	120	7	7
6.28107	2.43	724.8	725.3	0.34	2.93	1.0144	0.3599	0.997	5.23E+00	2.51E+00	120	7	7
6.3484	2.6	755.7	756.1	0.34	2.15	1.0466	0.3677	0.996	5.29E+00	2.54E+00	120	7	7
6.41613	2.69	762.6	763	0.35	2.15	1.0922	0.3857	0.996	5.35E+00	2.57E+00	120	7	7
6.48186	2.78	750.2	750.5	0.37	1.84	1.1393	0.4134	0.996	5.40E+00	2.59E+00	120	7	7

6.55159	2.82	746.3	746.5	0.38	1.27	1.194	0.444	0.997	5.46E+00	2.62E+00	120	7	7
6.6121	2.84	746.3	746.6	0.38	1.49	1.1775	0.4357	0.997	5.51E+00	2.65E+00	120	7	7
6.68104	3.08	739.1	739.4	0.42	1.36	1.2662	0.4351	0.997	5.57E+00	2.67E+00	120	6	7
6.74877	3.25	753.7	754	0.43	1.47	1.4231	0.4664	0.997	5.62E+00	2.70E+00	120	6	7
6.81449	4.83	777.2	777.5	0.82	1.74	1.4091	0.4658	0.997	5.68E+00	2.73E+00	120	6	7
6.88382	8.14	816.1	816.5	1	1.79	1.3838	0.4586	0.997	5.74E+00	2.75E+00	120	6	7
6.95395	9.36	899.8	900.1	1.04	1.63	1.3751	0.465	0.997	5.80E+00	2.78E+00	120	6	7
7.02449	13.17	961.6	962	1.37	1.81	1.3594	0.4645	0.997	5.85E+00	2.81E+00	120	6	7
7.09903	16.93	1036.6	1036.7	1.63	0.09	1.3471	0.461	0.997	5.92E+00	2.84E+00	120	6	7
7.16716	15.79	1136.4	1136.6	1.39	0.72	1.3455	0.4613	0.997	5.97E+00	2.87E+00	120	6	7
7.2417	14.44	1203.6	1204.1	1.2	2.4	1.3514	0.4539	0.997	6.04E+00	2.90E+00	120	6	7
7.31304	14.39	1200	1199.9	1.2	-0.38	1.3328	0.4397	0.997	6.09E+00	2.93E+00	120	6	7
7.38517	13.23	839.3	839.1	1.58	-0.93	1.327	0.4441	0.997	6.15E+00	2.95E+00	120	6	7
7.4521	18.85	1007	1006.9	1.87	-0.65	1.3455	0.4518	0.996	6.21E+00	2.98E+00	120	6	7
7.51943	25.18	1093.6	1093.5	2.3	-0.75	1.3839	0.4709	0.997	6.27E+00	3.01E+00	120	8	7
7.58235	23.62	1148.4	1148.2	2.06	-0.81	1.3791	0.4727	0.997	6.32E+00	3.03E+00	120	8	7
7.64926	20.33	1101	1101.1	1.85	0.3	1.2969	0.4546	0.997	6.37E+00	3.06E+00	120	6	7
7.73298	18.97	1065.1	1065.4	1.78	1.49	0.8677	0.3204	0.997	6.44E+00	3.09E+00	120	6	7
7.79904	14.04	1053.1	1053.4	1.33	1.46	0.6128	0.2454	0.997	6.50E+00	3.12E+00	120	6	7
7.86631	21.94	1076.6	1076.4	2.04	-0.59	0.5048	0.2098	0.997	6.56E+00	3.15E+00	120	6	7
7.94198	17.4	1289.2	1289.1	1.35	-0.32	0.1128	0.0553	0.997	6.62E+00	3.18E+00	120	6	7
8.01605	14.11	1341.8	1341.5	1.05	-0.44	0.0886	0.0406	0.998	6.68E+00	3.21E+00	120	6	7
8.08531	12.09	870.8	870.8	1.39	-0.1	0.0874	0.0396	0.997	6.74E+00	3.23E+00	120	6	7
8.14457	16.46	722.3	722.2	2.28	-0.35	0.0735	0.0335	0.997	6.79E+00	3.26E+00	120	6	7
8.20783	31.26	726.1	726.2	4.3	0.45	0.242	0.1005	0.998	6.84E+00	3.28E+00	120	8	7
8.27069	39.56	871.4	871.5	4.54	0.76	0.2002	0.0901	0.997	6.89E+00	3.31E+00	120	8	7
8.33875	25.28	958.3	958.5	2.64	0.76	0.0602	0.0354	0.997	6.95E+00	3.34E+00	120	8	7
8.40481	21.17	1084.8	1085	1.95	0.97	0.0291	0.0196	0.997	7.00E+00	3.36E+00	120	6	7
8.47248	14.9	1278.8	1278.9	1.17	0.97	0.0198	0.0161	0.997	7.06E+00	3.39E+00	120	6	7
8.54294	8.88	1078	1078.3	0.82	1.25	0.0425	0.0269	0.998	7.12E+00	3.42E+00	120	6	7
8.61501	41.7	1334.3	1334.5	3.12	1.23	0.0289	0.0214	0.997	7.18E+00	3.45E+00	120	8	7
8.68748	33.6	1820.5	1820.7	1.85	1.2	0.0297	0.0208	0.998	7.24E+00	3.48E+00	120	8	7
8.75354	22.39	1680.3	1680.6	1.33	1.48	0.0431	0.0284	0.997	7.30E+00	3.50E+00	120	6	7
8.82721	16.38	1604.4	1604.7	1.02	1.43	0.0779	0.0411	0.997	7.36E+00	3.53E+00	120	6	7
8.89007	13.68	1066.5	1066.8	1.28	1.72	0.0851	0.0459	0.997	7.41E+00	3.56E+00	120	6	7
8.94773	14.73	1147	1147.5	1.28	2.18	0.0642	0.0281	0.998	7.46E+00	3.58E+00	120	6	7
9.01539	22.98	1234	1234.4	1.86	1.96	0.1778	0.0776	0.998	7.51E+00	3.61E+00	120	6	7
9.08306	25.22	1313.6	1313.9	1.92	1.72	0.2294	0.102	0.997	7.57E+00	3.63E+00	120	6	7
9.14832	18.47	1451.2	1451.5	1.27	1.7	0.3682	0.1684	0.997	7.62E+00	3.66E+00	120	6	7
9.22479	16.51	1342.6	1342.8	1.23	1.54	0.4322	0.1989	0.997	7.69E+00	3.69E+00	120	6	7
9.28565	14.12	1122.2	1122.5	1.26	1.47	0.462	0.2041	0.998	7.74E+00	3.71E+00	120	6	7
9.34931	13.42	1138.3	1138.8	1.18	2.74	0.4799	0.2178	0.997	7.79E+00	3.74E+00	120	6	7
9.41537	13.68	1279.1	1279.5	1.07	2.29	0.4341	0.1925	0.997	7.85E+00	3.77E+00	120	6	7
9.47903	14.39	1281.8	1282.3	1.12	2.38	0.2206	0.099	0.997	7.90E+00	3.79E+00	120	6	7
9.54589	10.74	1342.6	1343	0.8	2.47	0.1874	0.0782	0.997	7.96E+00	3.82E+00	120	6	7
9.60875	10.95	1350.8	1351.3	0.81	2.16	0.1367	0.055	0.997	8.01E+00	3.84E+00	120	6	7
9.67762	10.94	1281.4	1282.4	0.85	5.16	0.1294	0.0518	0.997	8.07E+00	3.87E+00	120	6	7
9.74268	10.96	1335.6	1336.1	0.82	2.52	0.1225	0.0478	0.997	8.12E+00	3.90E+00	120	6	7
9.80854	12.53	1125	1125.8	1.11	4.4	0.1351	0.0529	0.998	8.17E+00	3.92E+00	120	6	7
9.8718	12.47	1095.5	1095.9	1.14	2.38	0.1673	0.0667	0.997	8.23E+00	3.95E+00	120	6	7
9.94147	9.82	1084.9	1085.3	0.9	1.87	0.1902	0.0763	0.998	8.29E+00	3.98E+00	120	6	7
10.00593	9.01	1112.9	1113.3	0.81	1.74	0.2153	0.0883	0.997	8.34E+00	4.00E+00	120	6	7

10.07399	7	1073.4	1073.9	0.65	2.43	0.223	0.0945	0.997	8.40E+00	4.03E+00	120	6	7
10.13965	6.84	1007.5	1008	0.68	2.26	0.2243	0.0956	0.997	8.45E+00	4.06E+00	120	6	7
10.20732	6.86	999.4	999.8	0.69	2.09	0.2644	0.1114	0.998	8.51E+00	4.08E+00	120	6	7
10.27418	7.09	970.8	971.1	0.73	1.88	0.2842	0.1119	0.997	8.56E+00	4.11E+00	120	6	7
10.34105	6.38	975.4	975.8	0.65	2.21	0.1846	0.078	0.997	8.62E+00	4.14E+00	120	6	7
10.40711	5.51	992	992.4	0.55	2.21	0.3574	0.1513	0.997	8.67E+00	4.16E+00	120	6	7
10.47237	5.29	1012.2	1012.6	0.52	2.28	0.2812	0.1194	0.997	8.73E+00	4.19E+00	120	6	7
10.53763	4.38	1043.9	1044.4	0.42	2.32	0.2787	0.1163	0.997	8.78E+00	4.22E+00	120	6	7
10.60489	3.44	1075.2	1075.6	0.32	2.3	0.309	0.1295	0.997	8.84E+00	4.24E+00	120	7	7
10.66815	3.52	1095	1095.4	0.32	2.19	0.3341	0.1423	0.997	8.89E+00	4.27E+00	120	7	7
10.73582	3.71	1111.2	1111.6	0.33	2.31	0.347	0.1489	0.998	8.95E+00	4.29E+00	120	7	7
10.80028	4.15	1119	1119.4	0.37	2.21	0.3574	0.1537	0.997	9.00E+00	4.32E+00	120	7	7
10.86994	4.51	1121.2	1121.7	0.4	2.36	0.3786	0.164	0.997	9.06E+00	4.35E+00	120	6	7
10.91643	4.88	1030.1	1030.5	0.47	1.96	0.4372	0.1888	0.996	9.10E+00	4.37E+00	120	6	7
10.98301	5.9	1118.1	1118.4	0.53	1.69	0.5568	0.2349	0.997	9.15E+00	4.39E+00	120	6	7
11.04837	7.94	1172.3	1172.7	0.68	1.83	0.5783	0.2389	0.996	9.21E+00	4.42E+00	120	6	7
11.11776	8.48	1188.4	1188.8	0.71	1.86	0.5496	0.2305	0.996	9.27E+00	4.45E+00	120	6	7
11.18032	10.64	1212.8	1213.2	0.88	1.76	0.6647	0.2809	0.997	9.32E+00	4.47E+00	120	6	7
11.25211	8.86	1261.6	1261.9	0.7	1.6	0.7328	0.3126	0.997	9.38E+00	4.50E+00	120	6	7
11.31909	11.4	1257.4	1257.8	0.91	1.68	0.6194	0.2652	0.996	9.43E+00	4.53E+00	120	6	7
11.38787	10.47	1230.7	1231.3	0.85	2.65	0.7119	0.2891	0.997	9.49E+00	4.56E+00	120	6	7
11.45103	11.21	1264.8	1265.2	0.89	1.96	0.7427	0.2969	0.996	9.54E+00	4.58E+00	120	6	7
11.51961	9.96	1231.2	1232	0.81	3.96	0.8724	0.3568	0.997	9.60E+00	4.61E+00	120	6	7
11.58458	9.23	1311.3	1311.7	0.7	2.39	0.6747	0.2666	0.996	9.65E+00	4.63E+00	120	6	7
11.65196	8.98	1269.9	1270.2	0.71	1.91	0.6086	0.2381	0.997	9.71E+00	4.68E+00	120	6	7
11.72014	9.21	1245.9	1246.4	0.74	2.38	0.6114	0.2376	0.997	9.77E+00	4.69E+00	120	6	7
11.78751	9.85	1229.4	1229.8	0.8	2.25	0.7088	0.2838	0.997	9.82E+00	4.72E+00	120	6	7
11.85208	8.74	1235.4	1235.8	0.71	2.09	0.5995	0.2333	0.997	9.88E+00	4.74E+00	120	6	7
11.92026	8.15	1250.5	1250.9	0.65	2.08	0.5911	0.2286	0.996	9.93E+00	4.77E+00	120	6	7
11.98603	6.64	1268	1268.4	0.54	2.21	0.5282	0.2005	0.997	9.99E+00	4.79E+00	120	6	7
12.05301	6.77	1291	1291.4	0.52	2.1	0.4529	0.1705	0.996	1.00E+01	4.82E+00	120	6	7
12.12038	6.85	1238.1	1238.7	0.55	3.32	0.4846	0.1813	0.996	1.01E+01	4.85E+00	120	6	7
12.19017	6.55	1224.3	1224.8	0.53	2.36	0.5601	0.2109	0.997	1.02E+01	4.88E+00	120	6	7
12.25514	6.65	1199.4	1199.9	0.55	2.48	0.6296	0.2402	0.996	1.02E+01	4.90E+00	120	6	7
12.32653	7.78	1159.9	1160.4	0.67	2.33	0.7585	0.2968	0.997	1.03E+01	4.93E+00	120	6	7
12.39089	6.92	1153	1153.4	0.6	2.28	0.9774	0.3978	0.996	1.03E+01	4.96E+00	120	6	7
12.45807	6.25	1153.9	1154.4	0.54	2.14	0.9307	0.3805	0.997	1.04E+01	4.98E+00	120	6	7
12.52264	6.86	1187	1187.4	0.58	2.17	0.598	0.2416	0.996	1.04E+01	5.01E+00	120	6	7
12.58202	9.45	1210.5	1210.9	0.78	2.21	0.5674	0.2414	0.996	1.05E+01	5.04E+00	120	6	7
12.65779	9.98	1224.3	1224.8	0.81	2.31	0.7363	0.3018	0.997	1.06E+01	5.06E+00	120	6	7
12.72477	9.15	1251.5	1251.9	0.73	2.16	0.7014	0.2691	0.997	1.06E+01	5.09E+00	120	6	7
12.79054	9.35	1315	1315.4	0.71	2.06	0.8572	0.3319	0.996	1.07E+01	5.12E+00	120	6	7
12.86273	8.32	1265.7	1266.3	0.66	2.89	0.8594	0.3372	0.997	1.07E+01	5.15E+00	120	6	7
12.9285	7.79	1269.9	1270.3	0.61	2.39	0.5375	0.2244	0.996	1.08E+01	5.17E+00	120	6	7
12.99868	9.29	1261.1	1261.7	0.74	3.17	0.3291	0.1432	0.996	1.08E+01	5.20E+00	120	6	7
13.06486	11.64	1318.2	1318.6	0.88	2.31	0.2401	0.0995	0.997	1.09E+01	5.23E+00	120	6	7
13.13384	11.16	1346.2	1346.7	0.83	2.69	0.3619	0.1487	0.997	1.09E+01	5.25E+00	120	6	7
13.1968	13.4	1391.3	1391.9	0.96	2.89	0.3165	0.1293	0.997	1.10E+01	5.28E+00	120	6	7
13.26418	11.02	1469.5	1470	0.75	2.65	0.1884	0.0814	0.997	1.11E+01	5.31E+00	120	6	7
13.32875	10.48	1482.1	1482.9	0.71	4.37	0.2092	0.0873	0.996	1.11E+01	5.33E+00	120	6	7
13.40014	13.66	1484.2	1484.4	0.92	1.31	0.23	0.0936	0.997	1.12E+01	5.36E+00	120	6	7
13.46631	18.61	1556.1	1556.2	1.2	0.37	0.1719	0.0717	0.996	1.12E+01	5.39E+00	120	6	7

13.5377	18	1525.2	1525.3	1.18	0.49	0.1073	0.0445	0.997	1.13E+01	5.42E+00	120	6	7
13.60387	17.97	1621.8	1621.7	1.11	-0.13	0.0789	0.0339	0.997	1.13E+01	5.44E+00	120	6	7
13.67325	15	1662	1662	0.9	-0.1	0.0474	0.0215	0.996	1.14E+01	5.47E+00	120	6	7
13.73983	12.91	1369.3	1369.4	0.94	0.29	0.0503	0.0224	0.996	1.15E+01	5.50E+00	120	6	7
13.8068	12.25	1256.1	1256	0.97	-0.14	0.0407	0.0157	0.996	1.15E+01	5.52E+00	120	6	7
13.87298	11.6	1288.3	1288	0.9	-1.17	0.0321	0.0123	0.997	1.16E+01	5.55E+00	120	6	7
13.94196	9.23	1199.4	1199.3	0.77	-0.78	0.026	0.0104	0.996	1.16E+01	5.58E+00	120	6	7
14.00733	8.5	1165.9	1165.7	0.56	-0.77	0.026	0.0096	0.997	1.17E+01	5.60E+00	120	6	7
14.07911	4.99	1102	1101.8	0.45	-0.91	0.0252	0.0087	0.997	1.17E+01	5.63E+00	120	6	7
14.14449	4.18	1030.1	1029.9	0.41	-1.01	0.0208	0.0075	0.996	1.18E+01	5.66E+00	120	6	7
14.21427	3.79	943	942.8	0.4	-0.85	0.0204	0.0071	0.996	1.19E+01	5.69E+00	120	6	6
14.26522	3.69	813.9	814.1	0.45	1.18	0.0205	0.0077	0.997	1.19E+01	5.71E+00	120	6	6
14.32901	3.94	792.4	792.5	0.5	0.76	0.0209	0.0067	0.997	1.19E+01	5.73E+00	120	6	6
14.39522	3.06	758.2	758.3	0.4	0.85	0.0195	0.0067	0.996	1.20E+01	5.76E+00	120	6	6
14.45982	2.9	734.7	734.8	0.4	0.41	0.0153	0.006	0.996	1.21E+01	5.78E+00	120	6	6
14.53004	2.83	714.3	714.3	0.4	0.25	0.0133	0.0056	0.997	1.21E+01	5.81E+00	120	6	6
14.59985	3.04	685.6	685.7	0.44	0.56	0.0211	0.0069	0.997	1.22E+01	5.84E+00	120	6	6
14.66606	2.81	656.6	656.7	0.43	0.56	0.0181	0.0067	0.997	1.22E+01	5.87E+00	120	6	6
14.73066	2.7	628.7	628.9	0.43	0.78	0.0142	0.0064	0.997	1.23E+01	5.89E+00	120	6	6
14.79767	2.75	622	622.1	0.44	0.91	0.0116	0.0065	0.996	1.23E+01	5.92E+00	120	6	6
14.86307	2.66	622.9	623	0.43	0.63	0.0113	0.0051	0.996	1.24E+01	5.95E+00	120	6	6
14.93288	2.54	611.8	612	0.41	0.85	0.0103	0.0053	0.996	1.24E+01	5.97E+00	120	6	6
15.0011	2.39	617.9	618.1	0.39	0.96	0.0078	0.004	0.997	1.25E+01	6.00E+00	120	6	6
15.07131	2.38	640.8	640.8	0.37	0.98	0.0065	0.0042	0.997	1.26E+01	6.03E+00	120	6	6
15.13591	2.49	665.6	665.8	0.37	0.98	0.007	0.004	0.996	1.26E+01	6.05E+00	120	6	6
15.20814	2.57	653.2	653.5	0.39	1.34	0.007	0.0034	0.996	1.27E+01	6.08E+00	120	6	6
15.27434	2.68	641.6	641.9	0.42	1.37	0.0066	0.0033	0.996	1.27E+01	6.11E+00	120	6	6
15.34095	2.89	654.9	655.2	0.41	1.36	0.0063	0.0035	0.997	1.28E+01	6.14E+00	120	6	6
15.40756	2.88	683.9	684.2	0.42	1.27	0.0069	0.0034	0.997	1.28E+01	6.16E+00	120	6	6
15.47978	2.69	710.4	710.7	0.38	1.32	0.0064	0.0032	0.997	1.29E+01	6.19E+00	120	6	6
15.54439	2.47	731.7	731.9	0.34	1.29	0.0073	0.004	0.997	1.30E+01	6.22E+00	120	6	6
15.61259	2.97	768.7	768.9	0.39	1.37	0.0091	0.0045	0.996	1.30E+01	6.25E+00	120	6	6
15.67639	4.81	813.4	813.7	0.57	1.43	0.0072	0.006	0.996	1.31E+01	6.27E+00	120	6	6
15.7446	6.56	827.4	827.7	0.79	1.36	0.0056	0.0068	0.997	1.31E+01	6.30E+00	120	6	6
15.8088	9.97	871	871.3	1.14	1.29	0.0042	0.0031	0.997	1.32E+01	6.32E+00	120	6	6
15.88303	8.65	957.5	957.7	0.9	1.36	0.003	0.0031	0.997	1.32E+01	6.35E+00	120	6	6
15.95204	9.41	1003.9	1004.3	0.94	2.1	0.0023	0.0033	0.996	1.33E+01	6.38E+00	120	6	6
16.02226	9.65	1104.2	1104.4	0.87	1.23	0.0007	0.0034	0.996	1.34E+01	6.41E+00	120	6	7
16.08846	8.86	1196.3	1196.4	0.74	0.58	0.0014	0.0037	0.997	1.34E+01	6.44E+00	120	6	7
16.15547	9.09	1251.9	1252.2	0.73	1.72	0.0032	0.0041	0.996	1.35E+01	6.46E+00	120	6	7
16.22007	9.44	1278.8	1278.7	0.74	-0.26	0.0081	0.0048	0.997	1.35E+01	6.49E+00	120	6	7
16.29269	7.9	1300.7	1300.5	0.61	-1.16	0.0133	0.005	0.996	1.36E+01	6.52E+00	120	6	7
16.3589	8.4	1278.6	1278.3	0.66	-1.4	0.0123	0.0046	0.997	1.36E+01	6.54E+00	120	6	7
16.42832	8.06	1332	1331.7	0.6	-1.3	0.0131	0.0039	0.996	1.37E+01	6.57E+00	120	6	7
16.49171	7.74	1372.9	1372.6	0.56	-1.39	0.0161	0.0037	0.997	1.37E+01	6.60E+00	120	6	7
16.56233	7.72	1408.3	1408	0.55	-1.35	0.0194	0.0037	0.997	1.38E+01	6.63E+00	120	6	7
16.62733	7.37	1453.4	1453.1	0.51	-1.46	0.0196	0.005	0.997	1.39E+01	6.65E+00	120	6	7
16.70036	7.73	1516.5	1516.2	0.51	-1.39	0.0221	0.0039	0.997	1.39E+01	6.68E+00	120	6	7
16.76496	7.95	1569.7	1569.4	0.51	-1.53	0.022	0.0033	0.997	1.40E+01	6.71E+00	120	6	7
16.83678	7.78	1611.1	1610.8	0.48	-1.53	0.0233	0.0031	0.997	1.40E+01	6.74E+00	120	6	7
16.90379	7.75	1647	1646.7	0.47	-1.53	0.0233	0.0032	0.997	1.41E+01	6.76E+00	120	6	7
16.9712	7.85	1684.3	1683.9	0.47	-1.62	0.0232	0.0033	0.997	1.41E+01	6.79E+00	120	6	7

17.0386	9.41	1708.1	1707.8	0.55	-1.69	0.0245	0.0077	0.997	1.42E+01	6.82E+00	120	6	7
17.10842	11.56	1768	1767.8	0.65	-1.51	0.0211	0.0043	0.997	1.43E+01	6.84E+00	120	6	7
17.17503	10.18	1816	1815.7	0.56	-1.48	0.0195	0.0064	0.997	1.43E+01	6.87E+00	120	6	7
17.24565	8.33	1844.7	1844.4	0.45	-1.84	0.0221	0.0047	0.997	1.44E+01	6.90E+00	120	6	7
17.31105	8.75	1905.3	1905	0.46	-1.59	0.0211	0.0045	0.996	1.44E+01	6.92E+00	120	6	7
17.38167	9.1	1974	1973.7	0.46	-1.71	0.0202	0.0048	0.997	1.45E+01	6.95E+00	120	6	7
17.44707	9.62	1937.8	1937.5	0.5	-1.68	0.0163	0.0046	0.997	1.45E+01	6.98E+00	120	6	7
17.50204	9.98	1960.6	1960.2	0.51	-1.77	0.0143	0.0043	0.996	1.46E+01	7.00E+00	120	6	7
17.54292	10.06	1903.3	1903.3	0.53	0	0.0131	0.0045	0.997	1.46E+01	7.02E+00	120	6	7
17.60985	9.19	2003.7	2003.6	0.46	-0.59	0.0125	0.0064	0.997	1.47E+01	7.04E+00	120	6	7
17.67757	9.29	2074.1	2073.9	0.45	-1.08	0.0172	0.0051	0.997	1.47E+01	7.07E+00	120	6	7
17.7441	9.98	2132.7	2132.5	0.47	-1.22	0.0201	0.0048	0.997	1.48E+01	7.10E+00	120	6	7
17.81063	13.52	2170.4	2170.1	0.62	-1.28	0.0227	0.0043	0.997	1.48E+01	7.12E+00	120	6	7
17.88717	13.35	2164.4	2164.1	0.62	-1.44	0.027	0.0047	0.997	1.49E+01	7.16E+00	120	6	7
17.9537	13.63	2238.9	2238.6	0.61	-1.62	0.025	0.0047	0.997	1.50E+01	7.18E+00	120	6	7
18.02023	13.53	2327.2	2326.9	0.58	-1.84	0.0179	0.004	0.997	1.50E+01	7.21E+00	120	6	7
18.08315	13.9	2141.7	2141.4	0.65	-1.44	0.0185	0.0037	0.997	1.51E+01	7.23E+00	120	6	7
18.15128	16.06	2173.5	2173.1	0.74	-1.79	0.016	0.0047	0.997	1.51E+01	7.26E+00	120	6	7
18.2162	15.78	2224.8	2224.4	0.71	-2.04	0.0138	0.0039	0.997	1.52E+01	7.29E+00	120	6	7
18.28553	19.76	2284.5	2284.1	0.87	-2.06	0.0164	0.0047	0.997	1.52E+01	7.31E+00	120	6	7
18.35326	18.39	2341.6	2341.2	0.79	-2.12	0.017	0.0043	0.997	1.53E+01	7.34E+00	120	6	7
18.42339	16.81	2373.9	2373.4	0.71	-2.3	0.015	0.0031	0.997	1.54E+01	7.37E+00	120	6	7
18.48832	16.17	2426.8	2426.4	0.67	-2.4	0.0152	0.0031	0.997	1.54E+01	7.40E+00	120	6	7
18.55645	15.63	2351.2	2350.8	0.67	-2.3	0.0151	0.0034	0.997	1.55E+01	7.42E+00	120	6	7
18.61977	14.86	2344.3	2343.9	0.63	-2.39	0.0138	0.0036	0.997	1.55E+01	7.45E+00	120	6	7
18.68789	13.81	2387.1	2386.6	0.58	-2.48	0.0139	0.0066	0.997	1.56E+01	7.48E+00	120	6	7
18.75603	13.57	2441.8	2441.3	0.56	-2.42	0.0139	0.0062	0.997	1.56E+01	7.50E+00	120	6	7
18.82255	12.02	2465.6	2465.1	0.49	-2.23	0.0138	0.0043	0.997	1.57E+01	7.53E+00	120	7	7
18.88708	14.32	2447.3	2446.8	0.59	-2.24	0.0145	0.0056	0.997	1.57E+01	7.56E+00	120	6	7
18.9544	16.64	2463.3	2462.9	0.68	-2.24	0.0142	0.0057	0.997	1.58E+01	7.58E+00	120	6	7
19.01852	19.67	2543.1	2542.7	0.77	-2.39	0.0138	0.0058	0.997	1.59E+01	7.61E+00	120	6	7
19.08666	20.33	2644.1	2643.6	0.77	-2.68	0.0134	0.0058	0.997	1.59E+01	7.64E+00	120	6	7
19.15358	22.75	2593.5	2593	0.88	-2.6	0.0177	0.0049	0.997	1.60E+01	7.66E+00	120	6	7
19.22572	21.42	2683.9	2683.5	0.8	-2.39	0.0098	0.0036	0.997	1.60E+01	7.69E+00	120	6	7
19.28824	23.09	2732.9	2732.4	0.85	-2.42	0.008	0.0036	0.997	1.61E+01	7.72E+00	120	6	7
19.35958	22.05	2808.4	2807.9	0.79	-2.32	0.0088	0.0044	0.997	1.61E+01	7.74E+00	120	6	7
19.4229	21.13	2917.2	2916.8	0.72	-2.39	0.0085	0.0089	0.997	1.62E+01	7.77E+00	120	6	7
19.49383	21.89	3091.5	3091	0.71	-2.44	0.0078	0.0062	0.997	1.62E+01	7.80E+00	120	6	7
19.56196	19.92	2907.7	2907.3	0.69	-2.5	0.0095	0.0045	0.997	1.63E+01	7.83E+00	120	6	7
19.6337	17.53	2854.9	2854.4	0.61	-2.81	0.0096	0.0053	0.997	1.64E+01	7.85E+00	120	6	7
19.69742	16.39	2968.8	2968.3	0.55	-2.77	0.0084	0.0047	0.997	1.64E+01	7.88E+00	120	7	7
19.76435	14.9	3022.3	3021.9	0.49	-2.28	0.008	0.0035	0.997	1.65E+01	7.91E+00	120	7	7
19.83007	16.03	2936.4	2936	0.55	-2.05	0.0083	0.0029	0.997	1.65E+01	7.93E+00	120	7	7
19.9006	21.26	2985	2984.5	0.71	-2.55	0.0078	0.0027	0.997	1.66E+01	7.96E+00	120	6	7
19.96593	25.83	3054.2	3053.7	0.85	-2.53	0.0067	0.0026	0.997	1.66E+01	7.99E+00	120	6	7
20.03366	23.22	3131.5	3131.1	0.74	-1.99	0.0056	0.0024	0.997	1.67E+01	8.01E+00	120	6	7
20.09738	20.68	3259.7	3259.3	0.63	-2.24	0.0046	0.0023	0.997	1.68E+01	8.04E+00	120	6	7
20.16591	18.21	3306.4	3306	0.55	-2.05	0.0064	0.0026	0.997	1.68E+01	8.07E+00	120	7	7
20.23043	18.79	3461	3460.7	0.54	-1.92	0.0073	0.0024	0.997	1.69E+01	8.09E+00	120	7	7
20.29896	19.55	3334.3	3334	0.59	-1.59	0.0083	0.0022	0.997	1.69E+01	8.12E+00	120	7	7
20.36268	17.55	3526.2	3525.8	0.5	-1.91	0.0091	0.002	0.997	1.70E+01	8.15E+00	120	7	7
20.43442	15.22	3613	3612.7	0.42	-1.88	0.02	0.003	0.997	1.70E+01	8.17E+00	120	7	7

20.49974	13.99	3566	3565.8	0.39	-1.7	0.0249	0.0031	0.997	1.71E+01	8.20E+00	120	7	7
20.56587	15.61	3143.6	3143.2	0.5	-2.03	0.0223	0.0025	0.997	1.71E+01	8.23E+00	120	7	7
20.6316	17.82	3062.5	3062.2	0.58	-1.55	0.021	0.0025	0.997	1.72E+01	8.25E+00	120	6	7
20.70133	17.19	3055.6	3055.2	0.56	-1.99	0.0196	0.0026	0.997	1.73E+01	8.28E+00	120	7	7
20.76906	15.71	3018	3017.6	0.52	-2.21	0.0183	0.0026	0.997	1.73E+01	8.31E+00	120	7	7
20.81994	14.77	2531.4	2531.5	0.58	0.2	0.0176	0.0023	0.997	1.74E+01	8.33E+00	120	6	7
20.88683	13.86	2345.7	2345.6	0.59	-0.75	0.0157	0.0029	0.997	1.74E+01	8.36E+00	120	6	7
20.95853	11.59	2286.6	2286.5	0.51	-0.77	0.0152	0.0023	0.997	1.75E+01	8.38E+00	120	6	7
21.02182	9.62	2152.4	2152.3	0.45	-0.88	0.0185	0.0048	0.997	1.75E+01	8.41E+00	120	6	7
21.09152	7.45	2154.9	2154.8	0.35	-0.5	0.0149	0.0031	0.997	1.76E+01	8.44E+00	120	7	7
21.16082	6.27	2118.6	2118.4	0.3	-0.75	0.0119	0.0037	0.997	1.76E+01	8.46E+00	120	7	7
21.23332	6.3	2145.5	2145.4	0.29	-0.52	0.0133	0.0032	0.997	1.77E+01	8.49E+00	120	7	7
21.47407	6.54	2082.7	2082.6	0.31	-0.17	0.0085	0.0016	0.997	1.79E+01	8.59E+00	120	7	7
21.54417	6.82	2093.4	2093.4	0.33	-0.06	0.0078	0.003	0.997	1.80E+01	8.62E+00	120	7	7
21.61066	7.11	2083.7	2083.7	0.34	-0.15	0.0085	0.0014	0.997	1.80E+01	8.64E+00	120	6	7
21.68356	8.65	2091.7	2091.7	0.41	-0.21	0.0104	0.0015	0.997	1.81E+01	8.67E+00	120	6	7
21.74766	8.77	2079.3	2079.3	0.42	-0.12	0.0113	0.0015	0.997	1.81E+01	8.70E+00	120	6	7
21.81816	8.4	2097.2	2097.2	0.4	-0.21	0.0123	0.0016	0.997	1.82E+01	8.73E+00	120	6	7
21.88305	8.73	2103.5	2103.4	0.41	-0.21	0.0131	0.0016	0.996	1.82E+01	8.75E+00	120	6	7
21.95315	7.98	2132.4	2132.3	0.37	-0.35	0.0141	0.0017	0.997	1.83E+01	8.78E+00	120	6	7
22.01965	7.36	2089.3	2089.3	0.35	0.34	0.0148	0.0018	0.997	1.84E+01	8.81E+00	120	6	7
22.09375	6.64	2065.8	2065.8	0.32	-0.19	0.0113	0.0005	0.997	1.84E+01	8.84E+00	120	7	7
22.16145	6.25	1969.5	1969.5	0.32	-0.22	0.0126	0.0026	0.997	1.85E+01	8.87E+00	120	6	7
22.22834	5.87	1956.8	1956.7	0.3	-0.28	0.0144	0.0053	0.997	1.85E+01	8.89E+00	120	6	7
22.46869	4.65	1920.5	1920.5	0.24	-0.26	0.0138	0.0013	0.997	1.87E+01	8.99E+00	120	7	7
22.53518	5.16	1902.6	1902.5	0.27	-0.26	0.0126	0.0007	0.997	1.88E+01	9.01E+00	120	6	7
22.76631	4.44	1807	1806.9	0.25	-0.14	0.0162	0.0025	0.997	1.90E+01	9.11E+00	120	6	7
22.8312	4.89	1740.4	1740.4	0.28	-0.13	0.0162	0.0016	0.997	1.90E+01	9.13E+00	120	6	7
22.9033	5.29	1721.4	1721.3	0.31	-0.05	0.0131	0.0011	0.997	1.91E+01	9.16E+00	120	6	7
23.13163	9.36	1909.2	1909.2	0.49	-0.02	0.0113	0.002	0.997	1.93E+01	9.25E+00	120	6	7
23.19812	17.72	1917.1	1917.1	0.92	0.09	0.0099	0.0021	0.997	1.93E+01	9.28E+00	120	6	7
23.26582	24.83	1948.8	1948.8	1.27	0.05	0.0093	0.0018	0.997	1.94E+01	9.31E+00	120	6	7
23.33111	21.22	2046.5	2046.4	1.04	-0.24	0.01	0.0018	0.997	1.94E+01	9.33E+00	120	6	7
23.40181	17.37	2191.6	2191.5	0.79	-0.49	0.0107	0.0018	0.996	1.95E+01	9.36E+00	120	6	7
23.4649	13.79	2376.1	2376	0.58	-0.26	0.0114	0.0018	0.997	1.96E+01	9.39E+00	120	6	7
23.53621	13.68	2485.1	2485.1	0.55	-0.03	0.0121	0.0018	0.997	1.96E+01	9.41E+00	120	6	7
23.59909	16.33	2529.8	2529.5	0.72	-1.37	0.0104	0.002	0.997	1.97E+01	9.44E+00	120	6	7
23.85706	15	2739.8	2739.6	0.55	-0.95	0.0152	0.0036	0.997	1.99E+01	9.54E+00	120	6	7
23.92275	13.58	2392.4	2392.1	0.57	-1.38	0.0122	0.0031	0.997	1.99E+01	9.57E+00	120	6	7
23.99366	12.41	2365.8	2365.9	0.52	1.69	0.0112	0.0015	0.997	2.00E+01	9.60E+00	120	6	7
24.05855	11.1	2326.7	2326.7	0.48	0.3	0.0092	0.001	0.997	2.01E+01	9.62E+00	120	6	7
24.31466	8.71	2212	2212.2	0.39	0.95	0.0122	0.0052	0.996	2.03E+01	9.73E+00	120	6	7
24.3808	8.74	2189.7	2189.8	0.4	0.59	0.0124	0.0041	0.997	2.03E+01	9.75E+00	120	6	7
24.45696	8.5	2185.6	2185.7	0.39	0.45	0.0128	0.0029	0.997	2.04E+01	9.78E+00	120	6	7
24.5207	8.34	2167.5	2167.5	0.38	0.18	0.013	0.0019	0.998	2.04E+01	9.81E+00	120	6	7
24.59165	8.38	2160.3	2160.3	0.39	0.07	0.0131	0.0014	0.997	2.05E+01	9.84E+00	120	6	7
24.65419	8.32	2150.3	2150.3	0.39	0.05	0.0125	0.002	0.997	2.06E+01	9.86E+00	120	6	7
24.72634	8.27	2140.3	2140.3	0.39	-0.06	0.0113	0.0013	0.997	2.06E+01	9.89E+00	120	6	7
24.79168	8.29	2129	2128.9	0.39	-0.12	0	0	0.997	2.07E+01	9.92E+00	120	6	7
24.86504	8.27	2119.9	2119.9	0.39	-0.26	0	0	0.997	2.07E+01	9.95E+00	120	6	7
24.93279	8.18	2093.4	2093.3	0.39	-0.28	0	0	0.997	2.08E+01	9.97E+00	120	6	7
25.00253	8.15	2111.3	2111.3	0.39	-0.28	0	0	0.997	2.08E+01	1.00E+01	120	6	7

25.06867	8.29	2127.6	2127.5	0.39	-0.35	0	0	0.997	2.09E+01	1.00E+01	120	6	7
25.13361	8.29	2156.6	2156.5	0.38	-0.35	0	0	0.997	2.09E+01	1.01E+01	120	6	7
25.20136	8.25	2192	2191.9	0.38	-0.46	0	0	0.997	2.10E+01	1.01E+01	120	6	7
25.26991	8.48	2237.2	2237.1	0.38	-0.57	0	0	0.997	2.11E+01	1.01E+01	120	6	7
25.34246	8.11	2272.8	2272.7	0.36	-0.46	0	0	0.997	2.11E+01	1.01E+01	120	6	7
25.4078	7.75	2326.7	2326.6	0.33	-0.5	0	0	0.997	2.12E+01	1.02E+01	120	6	7
25.47755	7.41	2388.2	2388.1	0.31	-0.54	0	0	0.997	2.12E+01	1.02E+01	120	7	7
25.54008	7.02	2447	2446.8	0.29	-0.79	0	0	0.997	2.13E+01	1.02E+01	120	7	7
25.61144	7.5	2499.2	2499	0.3	-0.81	0	0	0.997	2.13E+01	1.02E+01	120	7	7
25.90527	8.87	2562.4	2562.4	0.34	-0.39	0	0	0.997	2.16E+01	1.04E+01	120	7	7
25.9698	8.88	2594.2	2594.1	0.34	-0.39	0	0	0.997	2.16E+01	1.04E+01	120	7	7
26.04076	9.2	2616.1	2616	0.35	-0.23	0	0	0.997	2.17E+01	1.04E+01	120	7	7
26.10409	9.43	2638.8	2638.6	0.36	-0.15	0	0	0.997	2.18E+01	1.04E+01	120	7	7
26.17785	9.41	2683	2682.9	0.35	-0.48	0	0	0.997	2.18E+01	1.05E+01	120	7	7
26.24079	9.44	2767.4	2767.3	0.34	-0.33	0	0	0.997	2.18E+01	1.05E+01	120	7	7
26.31094	8.92	2827.7	2827.6	0.32	-0.33	0	0	0.997	2.19E+01	1.05E+01	120	7	7
26.37387	8.39	2890.2	2890.1	0.29	-0.46	0	0	0.997	2.20E+01	1.06E+01	120	7	7
26.44322	7.88	2961.6	2961.5	0.27	-0.37	0	0	0.997	2.20E+01	1.06E+01	120	7	7
26.50696	7.41	2991.6	2991.5	0.25	-0.36	0	0	0.997	2.21E+01	1.06E+01	120	7	7
26.57831	6.82	3018.2	3018	0.23	-0.9	0	0	0.997	2.22E+01	1.06E+01	120	7	7
26.93908	0	3088.6	3088.5	0	-0.1	0	0	0.997	2.25E+01	1.08E+01	120	-99	7
27.01124	0	3055.4	3055.4	0	-0.01	0	0	0.997	2.25E+01	1.08E+01	120	-99	7
27.07617	0	3033.7	3033.6	0	-0.24	0	0	0.997	2.26E+01	1.08E+01	120	-99	7
27.13951	0	2928.6	2928.6	0	-0.31	0	0	0.997	2.26E+01	1.09E+01	120	-99	7

Electric Cone Penetrometer Data

Cone_TAP v 2.90

Test Id: HD-11 Date: 4-Nov-03

Site: SUNNYSIDE Cone Id: 108.034XXX

Location: QUEENS NY

Project: ROUX Soil Density(pcf): 120

Client: ROUX

Depth (ft)	Sleeve Stress (psi)	Tip Stress UNC (psi)	Tip Stress COR (psi)	Ratio COR (%)	Pore Pressure (psi)	LFFD (V)	HFFD (V)	Excitation (Vdc)	Overburden (psi)	Eff. Overburden (psi)	Wet Density (pcf)	Class. FR (Rob. 1990)	Class. PP (Rob. 1990)
0	0	0	0	0	0	0	0	NM	0.00E+00	0.00E+00	120	-99	-99
0.19429	0	339.5	339.5	0	0.08	0.1037	0.0437	NM	1.62E-01	7.77E-02	120	-99	-99
0.24889	0	368.8	368.8	0	0.08	0.103	0.0429	NM	2.07E-01	9.96E-02	120	-99	-99
0.30349	-0.02	396.1	396.2	0	0.13	0.1035	0.0435	NM	2.53E-01	1.21E-01	120	-99	-99
0.36049	-0.03	393.7	393.8	-0.01	0.13	0.1024	0.0431	NM	3.00E-01	1.44E-01	120	-99	-99
0.4191	-0.01	437.7	437.8	0	0.13	0.1001	0.0421	NM	3.49E-01	1.68E-01	120	-99	-99
0.48252	0.02	486.1	486.2	0	0.18	0.0991	0.0418	NM	4.02E-01	1.93E-01	120	-99	-99
0.54716	0.01	434.8	434.8	0	0.13	0.0994	0.0418	NM	4.56E-01	2.19E-01	120	-99	-99
0.6158	-0.02	395.2	395.3	0	0.38	0.0984	0.0418	NM	5.13E-01	2.46E-01	120	-99	-99
0.68405	-0.04	376.1	376.2	-0.01	0.38	0.0981	0.0416	NM	5.70E-01	2.74E-01	120	-99	-99
0.75269	0.01	384.9	385	0	0.38	0.0963	0.0411	NM	6.27E-01	3.01E-01	120	-99	-99
0.82334	0.07	360	360.1	0.02	0.63	0.0949	0.0405	NM	6.86E-01	3.29E-01	120	-99	-99
0.89279	0.02	295.5	295.6	0.01	0.38	0.097	0.041	NM	7.44E-01	3.57E-01	120	-99	7
0.96264	-0.04	241.2	241.3	-0.02	0.28	0.0969	0.0407	NM	8.02E-01	3.85E-01	120	-99	7
1.0345	0.01	165	165	0.01	0.33	0.0929	0.0399	NM	8.62E-01	4.14E-01	120	-99	7
1.10354	0	129.8	129.8	0	0.28	0.0902	0.039	NM	9.20E-01	4.41E-01	120	-99	7
1.1742	0.04	128.3	128.4	0.03	0.28	0.1043	0.0395	NM	9.79E-01	4.70E-01	120	-99	7
1.24003	0.01	128.3	128.4	0.01	0.28	0.0932	0.0391	NM	1.03E+00	4.96E-01	120	-99	7
1.31109	-0.01	131.2	131.3	0	0.28	0.1008	0.04	NM	1.09E+00	5.24E-01	120	-99	7
1.38013	0.03	159.1	159.2	0.02	0.23	0.1193	0.0403	NM	1.15E+00	5.52E-01	120	-99	7
1.43995	0.08	169.4	169.4	0.04	0.23	0.2885	0.0426	NM	1.20E+00	5.76E-01	120	-99	7
1.50416	0.08	125.4	125.4	0.06	0.23	0.2156	0.0406	NM	1.25E+00	6.02E-01	120	-99	7
1.57159	0.02	107.8	107.8	0.02	0.28	0.1131	0.0388	NM	1.31E+00	6.29E-01	120	-99	7
1.63741	0.07	121	121	0.06	0.23	0.0868	0.0378	NM	1.37E+00	6.55E-01	120	-99	7
1.70603	0.05	71.1	71.2	0.07	0.18	0.0868	0.038	NM	1.42E+00	6.82E-01	120	-99	6
1.77908	0.02	0.7	0.8	2.19	0.23	0.0872	0.0386	NM	1.48E+00	7.12E-01	120	-99	-99
1.85132	0.07	24.2	24.2	0.3	0.18	0.0935	0.0425	NM	1.54E+00	7.41E-01	120	5	6
1.92276	0.02	27.1	27.2	0.07	0.18	0.124	0.0534	NM	1.60E+00	7.69E-01	120	-99	6
1.99099	0.07	60.9	60.9	0.11	0.13	0.119	0.0569	NM	1.66E+00	7.96E-01	120	6	6
2.06042	0.08	47.7	47.7	0.16	0.18	0.0972	0.0559	NM	1.72E+00	8.24E-01	120	6	6
2.13065	0.08	8.1	8.1	0.94	0.08	0.0968	0.0498	NM	1.78E+00	8.52E-01	120	4	-99
2.20129	0.05	-3.7	-3.6	-1.34	0.13	0.0939	0.0432	NM	1.83E+00	8.81E-01	120	-99	-99
2.27393	0.02	0.7	0.8	2.27	0.13	0.0991	0.0565	NM	1.90E+00	9.10E-01	120	-99	-99
2.34737	0.07	15.4	15.4	0.47	0.13	0.1046	0.0577	NM	1.96E+00	9.39E-01	120	5	5
2.416	0.05	21.3	21.3	0.23	0.18	0.1049	0.0503	NM	2.01E+00	9.66E-01	120	5	5
2.48664	0.02	18.3	18.4	0.1	0.23	0.1058	0.0509	NM	2.07E+00	9.95E-01	120	5	5
2.55607	0.04	40.3	40.4	0.1	0.13	0.1067	0.0516	NM	2.13E+00	1.02E+00	120	6	6
2.6259	0.07	107.8	107.8	0.07	0.18	0.1076	0.0522	NM	2.19E+00	1.05E+00	120	-99	6
2.69854	0.08	194.3	194.3	0.04	0.18	0.104	0.0507	NM	2.25E+00	1.08E+00	120	-99	7

2.77279	0.1	223.6	223.7	0.05	0.18	0.1048	0.0513	NM	2.31E+00	1.11E+00	120	-99	7
2.84062	0.05	272	272.1	0.02	0.18	0.1105	0.0526	NM	2.37E+00	1.14E+00	120	-99	7
2.91246	0.05	297	297	0.02	0.18	0.1192	0.0561	NM	2.43E+00	1.17E+00	120	-99	7
2.98109	0.05	272	272.1	0.02	0.23	0.1188	0.0578	NM	2.48E+00	1.19E+00	120	-99	7
3.05132	0.07	257.4	257.4	0.03	0.23	0.1286	0.0651	NM	2.54E+00	1.22E+00	120	-99	7
3.12276	0.02	285.2	285.3	0.01	0.23	0.1315	0.0663	NM	2.60E+00	1.25E+00	120	-99	7
3.1954	0.02	330.7	330.5	0	-0.88	0.1514	0.0724	NM	2.66E+00	1.28E+00	120	-99	7
3.26483	0.07	339.5	339.3	0.02	-1.06	0.152	0.0772	NM	2.72E+00	1.31E+00	120	-99	7
3.33667	0.02	395.2	395	0	-1.01	0.1575	0.0807	NM	2.78E+00	1.34E+00	120	-99	7
3.4061	0.02	492	491.7	0	-1.36	0.2559	0.1479	NM	2.84E+00	1.36E+00	120	-99	7
3.47634	0.04	603.4	602.9	0.01	-2.96	0.2124	0.1226	NM	2.90E+00	1.39E+00	120	-99	7
3.54858	0.02	555	554.3	0	-3.61	0.1736	0.1214	NM	2.96E+00	1.42E+00	120	-99	7
3.61881	0.07	474.4	474.2	0.02	-0.76	0.3145	0.2023	NM	3.02E+00	1.45E+00	120	-99	7
3.68905	-0.01	417.2	417	0	-1.01	0.5501	0.3934	NM	3.07E+00	1.48E+00	120	-99	7
3.75607	0.01	354.1	354	0	-0.96	0.7051	0.4571	NM	3.13E+00	1.50E+00	120	-99	7
3.82631	0.07	320.4	320.5	0.02	0.33	0.7683	0.5518	NM	3.19E+00	1.53E+00	120	-99	7
3.89734	0.05	297	297	0.02	0.28	0.7356	0.5538	NM	3.25E+00	1.56E+00	120	-99	7
3.96878	0.02	270.6	270.6	0.01	-0.02	0.6773	0.4333	NM	3.31E+00	1.59E+00	120	-99	7
4.03982	0.04	244.2	244.2	0.02	-0.06	0.3876	0.238	NM	3.37E+00	1.62E+00	120	-99	6
4.11085	0.05	217.8	217.8	0.02	0.04	0.285	0.1556	NM	3.43E+00	1.64E+00	120	-99	6
4.1831	0.1	214.8	214.8	0.05	0.08	0.3463	0.2407	NM	3.49E+00	1.67E+00	120	-99	6
4.25293	0.05	188.4	188.4	0.03	-0.02	0.3358	0.2128	NM	3.54E+00	1.70E+00	120	-99	6
4.32396	-0.01	144.4	144.4	-0.01	-0.06	0.3945	0.2487	NM	3.60E+00	1.73E+00	120	-99	6
4.395	0.04	176.7	176.7	0.02	-0.02	0.3264	0.203	NM	3.66E+00	1.76E+00	120	-99	6
4.46524	0.26	269.1	269.1	0.1	-0.06	0.3813	0.218	NM	3.72E+00	1.79E+00	120	-99	6
4.53627	0.49	289.6	289.6	0.17	-0.11	0.3537	0.2288	NM	3.78E+00	1.82E+00	120	6	6
4.60771	0.72	365.9	365.9	0.2	-0.06	0.5562	0.3645	NM	3.84E+00	1.84E+00	120	7	7
4.67754	0.84	509.6	509.6	0.17	-0.06	0.5115	0.3017	NM	3.90E+00	1.87E+00	120	7	7
4.74697	0.76	615.2	615.1	0.12	-0.11	0.4967	0.3176	NM	3.96E+00	1.90E+00	120	7	7
5.00053	2.61	646.2	646.4	0.4	1	0.1215	0.0661	NM	4.17E+00	2.00E+00	120	7	7
5.07434	2.15	675.5	675.7	0.32	1	0.1068	0.0567	NM	4.23E+00	2.03E+00	120	7	7
5.14574	2.14	652	652.2	0.33	1	0.1048	0.0573	NM	4.29E+00	2.06E+00	120	7	7
5.21273	2.04	668.2	668.4	0.31	1.1	0.1038	0.0588	NM	4.34E+00	2.09E+00	120	7	7
5.28374	2.54	830.9	831.1	0.31	1.05	0.1027	0.0604	NM	4.40E+00	2.11E+00	120	7	7
5.35474	2.5	921.8	922	0.27	1	0.1096	0.0632	NM	4.46E+00	2.14E+00	120	7	7
5.42614	2.79	1009.7	1009.9	0.28	1.05	0.1369	0.0748	NM	4.52E+00	2.17E+00	120	7	7
5.49955	3.64	1015.6	1015.8	0.36	1	0.1314	0.0715	NM	4.58E+00	2.20E+00	120	7	7
5.57336	3.48	964.3	964.5	0.36	1.05	0.1318	0.071	NM	4.64E+00	2.23E+00	120	7	7
5.64156	3.24	936.4	936.6	0.35	1	0.1317	0.0692	NM	4.70E+00	2.26E+00	120	7	7
5.71336	4.43	892.5	892.7	0.5	1	0.1305	0.0681	NM	4.76E+00	2.29E+00	120	7	7
5.78316	4.07	877.8	878	0.46	0.95	0.1304	0.0688	NM	4.82E+00	2.31E+00	120	7	7
5.85296	6.62	879.3	879.5	0.75	1	0.1384	0.0735	NM	4.88E+00	2.34E+00	120	6	7
5.92557	8.81	905.7	905.9	0.97	1.3	0.1475	0.0782	NM	4.94E+00	2.37E+00	120	6	7
5.99938	8.53	920.3	920.6	0.93	1.25	0.1717	0.0885	NM	5.00E+00	2.40E+00	120	6	7
6.07038	7.68	914.5	914.7	0.84	1.25	0.1948	0.0974	NM	5.06E+00	2.43E+00	120	6	7
6.1462	7.28	968.7	968.9	0.75	1.15	0.2111	0.0952	NM	5.12E+00	2.46E+00	120	6	7
6.2144	7.74	908.6	908.9	0.85	1.45	0.1963	0.0826	NM	5.18E+00	2.49E+00	120	6	7
6.2846	6.6	855.8	856.1	0.77	1.69	0.1256	0.059	NM	5.24E+00	2.51E+00	120	6	7
6.3564	5.95	845.6	845.9	0.7	1.69	0.1096	0.0595	NM	5.30E+00	2.54E+00	120	6	7
6.42941	4.34	867.5	867.9	0.5	1.69	0.107	0.0574	NM	5.36E+00	2.57E+00	120	7	7
6.49841	3.63	883.7	884	0.41	1.64	0.093	0.0478	NM	5.42E+00	2.60E+00	120	7	7
6.57061	3.48	886.6	886.9	0.39	1.59	0.1043	0.0701	NM	5.48E+00	2.63E+00	120	7	7

6.64001	3.24	898.3	898.6	0.36	1.54	0.1054	0.07	NM	5.53E+00	2.66E+00	120	7	7
6.71021	3.2	936.4	936.7	0.34	1.49	0.1027	0.054	NM	5.59E+00	2.68E+00	120	7	7
6.78122	3.26	984.8	985.1	0.33	1.49	0.1081	0.064	NM	5.65E+00	2.71E+00	120	7	7
6.85222	3.32	1040.5	1040.8	0.32	1.54	0.1842	0.1028	NM	5.71E+00	2.74E+00	120	7	7
6.92081	3.59	1124.1	1124.4	0.32	1.49	0.2466	0.153	NM	5.77E+00	2.77E+00	120	7	7
6.98941	3.71	1217.9	1218.2	0.3	1.49	0.1791	0.1273	NM	5.83E+00	2.80E+00	120	7	7
7.05881	3.97	1297.1	1297.4	0.31	1.45	0.1542	0.0933	NM	5.88E+00	2.82E+00	120	7	7
7.12901	24.52	1373.3	1373.6	1.79	1.54	0.1648	0.1032	NM	5.94E+00	2.85E+00	120	6	7
7.20001	43.11	1458.4	1458.7	2.96	1.54	0.1367	0.077	NM	6.00E+00	2.88E+00	120	8	7
7.27101	61.7	1590.3	1590.7	3.88	1.79	0.1918	0.1056	NM	6.06E+00	2.91E+00	120	8	7
7.34041	77.51	1885.9	1886.3	4.15	1.79	0.2725	0.148	NM	6.12E+00	2.94E+00	120	8	7
7.41182	50.66	2491.9	2492.3	2.03	1.84	0.3316	0.2091	NM	6.18E+00	2.97E+00	120	8	7
7.4752	33.1	6324.2	6324.7	0.52	2.29	0.336	0.2296	NM	6.23E+00	2.99E+00	120	-99	-99
7.68179	87.43	5431.4	5431.7	1.61	1.39	0.1976	0.1005	NM	6.40E+00	3.07E+00	120	-99	-99
7.72311	90.41	5947.4	5947.8	1.52	1.79	0.177	0.083	NM	6.44E+00	3.09E+00	120	-99	-99
7.79371	72.5	8187.6	8187.9	0.89	1.54	0.184	0.097	NM	6.50E+00	3.12E+00	120	-99	-99
7.84746	59.66	8296.4	8296.6	0.95	1.15	0.2009	0.0984	NM	6.54E+00	3.14E+00	120	-99	-99
7.91766	60.46	4205.8	4206.1	1.44	1.69	0.18	0.0668	NM	6.60E+00	3.17E+00	120	-99	-99
7.98907	60.84	2003.7	2004	3.04	1.15	0.1987	0.0348	NM	6.66E+00	3.20E+00	120	8	7
8.05925	59.55	1600.6	1601	3.72	1.68	0.4515	0.1965	NM	6.72E+00	3.22E+00	120	8	7
8.12463	53.84	1568.3	1568.7	4.07	1.78	0.4085	0.1662	NM	6.77E+00	3.25E+00	120	8	7
8.19401	14.81	1563.9	1564.4	0.95	2.23	0.324	0.125	NM	6.83E+00	3.28E+00	120	6	7
8.2658	10.29	1643.1	1643.5	0.83	2.13	0.3188	0.1127	NM	6.89E+00	3.31E+00	120	7	7
8.33999	12.16	1786.8	1787.3	0.68	2.18	0.4256	0.1866	NM	6.95E+00	3.34E+00	120	7	7
8.40937	15.82	1936.4	1936.8	0.82	2.18	0.4442	0.1832	NM	7.01E+00	3.36E+00	120	6	7
8.47835	23.41	2053.7	2054.2	1.14	2.23	0.4362	0.1674	NM	7.07E+00	3.39E+00	120	8	7
8.54814	21.19	2176.9	2177.3	0.97	2.23	0.4604	0.2155	NM	7.12E+00	3.42E+00	120	6	7
8.61752	21.68	2317.7	2318.1	0.94	2.18	0.4273	0.1946	NM	7.18E+00	3.45E+00	120	6	7
8.6885	23.04	2509.8	2510.2	0.92	2.18	0.4298	0.1668	NM	7.24E+00	3.48E+00	120	6	7
8.7619	22.23	2527.4	2527.8	0.88	1.93	0.3984	0.168	NM	7.30E+00	3.51E+00	120	7	7
8.83408	18.18	2267.8	2268.5	0.8	3.63	0.4821	0.2118	NM	7.36E+00	3.53E+00	120	7	7
8.90427	22.65	2294.2	2294.9	0.99	3.43	0.4708	0.2004	NM	7.42E+00	3.56E+00	120	6	7
8.97365	40.46	2402.7	2403.4	1.68	3.28	0.4431	0.1803	NM	7.48E+00	3.59E+00	120	8	7
9.04504	40.04	2609.5	2610.1	1.53	3.28	0.4146	0.1596	NM	7.54E+00	3.62E+00	120	8	7
9.11442	35.92	2873.5	2874.1	1.25	3.18	0.2804	0.098	NM	7.60E+00	3.65E+00	120	6	7
9.18701	39.16	3289.9	3290.5	1.19	3.13	0.2354	0.0787	NM	7.66E+00	3.68E+00	120	6	7
9.2604	39.61	2525.9	2526.4	1.57	2.78	0.1763	0.0536	NM	7.72E+00	3.70E+00	120	6	7
9.32858	33.47	2624.2	2624.7	1.28	2.58	0.1328	0.0602	NM	7.77E+00	3.73E+00	120	6	7
9.39956	31.19	2578.7	2579.2	1.21	2.58	0.125	0.0623	NM	7.83E+00	3.76E+00	120	6	7
9.46895	32.2	2960	2960.5	1.09	2.68	0.1106	0.0527	NM	7.89E+00	3.79E+00	120	6	7
9.53472	32.87	4112.6	4113.2	0.8	3.08	0.1051	0.0504	NM	7.95E+00	3.81E+00	120	-99	-99
9.60651	33.81	5794.8	5795.3	0.58	3.78	0.1029	0.05	NM	8.01E+00	3.84E+00	120	-99	-99
9.67388	34.3	7736.1	7736.8	0.44	3.73	0.1047	0.0525	NM	8.06E+00	3.87E+00	120	-99	-99
9.74246	34.82	7167.1	7167.5	0.49	1.73	0.1051	0.0533	NM	8.12E+00	3.90E+00	120	-99	-99
9.81425	34.98	6859.2	6859.8	0.51	1.88	0.1114	0.0584	NM	8.18E+00	3.93E+00	120	-99	-99
10.08336	37.32	1971.6	1971.9	1.89	1.73	0.1368	0.0857	NM	8.40E+00	4.03E+00	120	8	7
10.15274	28.97	2386.8	2386.9	1.21	1.48	0.1425	0.0732	NM	8.46E+00	4.06E+00	120	6	7
10.21971	35.63	2370.5	2370.8	1.5	1.58	0.1525	0.0766	NM	8.52E+00	4.09E+00	120	8	7
10.2903	33.07	2452.6	2453	1.35	1.98	0.1619	0.0815	NM	8.58E+00	4.12E+00	120	8	7
10.36048	27.17	2484.9	2485.3	1.09	2.18	0.1592	0.083	NM	8.63E+00	4.14E+00	120	8	7
10.43187	24.1	2596.3	2596.6	0.93	1.53	0.1565	0.0844	NM	8.69E+00	4.17E+00	120	8	7
10.50286	21.95	2707.8	2708.2	0.81	2.13	0.1538	0.0858	NM	8.75E+00	4.20E+00	120	7	7

10.57464	20.08	2423.3	2423.7	0.83	2.23	0.1154	0.0743	NM	8.81E+00	4.23E+00	120	6	7
10.64683	17.82	2336.7	2337.4	0.75	3.48	0.0411	0.0299	NM	8.87E+00	4.26E+00	120	7	7
10.71662	17	2272.2	2272.9	0.75	3.28	0.0186	0.012	NM	8.93E+00	4.29E+00	120	7	7
10.7892	16.64	2297.1	2297.7	0.72	3.08	0.0051	0.004	NM	8.99E+00	4.32E+00	120	7	7
10.85859	15.17	2379.3	2379.8	0.64	2.98	0.002	0.0018	NM	9.05E+00	4.34E+00	120	7	7
10.93078	14.42	2521.5	2522.1	0.57	2.98	0.0003	0.0004	NM	9.11E+00	4.37E+00	120	7	7
11.00056	13.79	2672.6	2673.1	0.52	2.93	0	0.0006	NM	9.17E+00	4.40E+00	120	7	7
11.07235	13.14	2819.2	2819.8	0.47	2.98	0	0.0005	NM	9.23E+00	4.43E+00	120	7	7
11.14253	11.32	2971.7	2972.3	0.38	2.98	0.0056	0.0047	NM	9.29E+00	4.46E+00	120	7	7
11.21312	12.41	3103.7	3104.3	0.4	2.98	0.0327	0.0201	NM	9.34E+00	4.49E+00	120	7	7
11.43013	18.91	3041.3	3041.8	0.56	2.6	0.0682	0.0935	NM	9.53E+00	4.57E+00	120	7	7
11.50033	16.66	3121.9	3122.4	0.53	2.56	0.0771	0.0921	NM	9.58E+00	4.60E+00	120	7	7
11.57253	16.22	3187.9	3188.4	0.51	2.6	0.0863	0.0905	NM	9.64E+00	4.63E+00	120	7	7
11.64715	18.44	3146.8	3147.3	0.52	2.56	0.0814	0.0773	NM	9.71E+00	4.66E+00	120	7	7
11.71494	15	3224.5	3224.9	0.47	1.86	0.0637	0.0577	NM	9.76E+00	4.69E+00	120	7	7
11.78514	22.52	3284.6	3285	0.69	2.11	0.0542	0.0492	NM	9.82E+00	4.71E+00	120	7	7
11.85534	43.41	3401.9	3402.2	1.28	1.81	0.0518	0.0462	NM	9.88E+00	4.74E+00	120	6	7
11.92394	51.71	3608.5	3608.9	1.43	1.86	0.05	0.0458	NM	9.94E+00	4.77E+00	120	6	7
11.99575	65.45	3683.3	3683.6	1.78	1.78	0.0465	0.0447	NM	1.00E+01	4.80E+00	120	8	7
12.06996	51.03	3939.8	3940.1	1.3	1.71	0.0508	0.0457	NM	1.01E+01	4.83E+00	120	6	7
12.14337	35.15	3737.5	3737.9	0.94	1.71	0.0558	0.0483	NM	1.01E+01	4.86E+00	120	6	7
12.20916	22.94	4765	4765.4	0.48	2.16	0.057	0.0514	NM	1.02E+01	4.88E+00	120	7	7
12.27735	20.55	4744.5	4744.9	0.43	2.16	0.0582	0.0546	NM	1.02E+01	4.91E+00	120	7	7
12.35036	27.1	4297.4	4297.8	0.63	1.96	0.0597	0.0581	NM	1.03E+01	4.94E+00	120	7	7
12.41855	35.77	4743	4743.4	0.75	1.91	0.0598	0.0592	NM	1.04E+01	4.97E+00	120	7	7
12.49397	45.35	4982.8	4983.2	0.91	1.81	0.0564	0.0513	NM	1.04E+01	5.00E+00	120	7	7
12.56256	30.66	5459.7	5460.1	0.56	1.88	0.0655	0.0526	NM	1.05E+01	5.03E+00	120	-99	-99
12.64319	18.24	4284.2	4284.6	0.43	1.86	0.0674	0.0548	NM	1.05E+01	5.06E+00	120	7	7
12.87466	57.51	5149	5149.3	1.12	1.51	0.0577	0.0485	NM	1.07E+01	5.15E+00	120	6	7
12.9609	59.1	3758	3758.3	1.57	1.36	0.0569	0.0482	NM	1.08E+01	5.18E+00	120	8	7
13.01987	56.7	4020.4	4020.8	1.41	2.06	0.0568	0.0485	NM	1.09E+01	5.21E+00	120	6	7
13.09689	54.48	3696.5	3696.9	1.47	1.96	0.0565	0.0489	NM	1.09E+01	5.24E+00	120	6	7
13.16388	34.14	2909.4	2909.8	1.17	1.91	0.057	0.0487	NM	1.10E+01	5.27E+00	120	6	7
13.26016	10.65	3308.1	3308.5	0.32	2.01	0.0555	0.0472	NM	1.11E+01	5.30E+00	120	7	7
13.33477	4.73	3470.8	3471.2	0.14	2.06	0.0552	0.0467	NM	1.11E+01	5.33E+00	120	7	7
13.40457	4.86	3478.1	3478.2	0.14	0.66	0.0553	0.0474	NM	1.12E+01	5.36E+00	120	7	7
13.47798	6.85	4507	4507.3	0.15	1.61	0.0533	0.0478	NM	1.12E+01	5.39E+00	120	7	7
13.54618	8.86	6380.2	6380.5	0.14	1.91	0.0569	0.0476	NM	1.13E+01	5.42E+00	120	-99	-99
13.60996	10.36	8058.4	8058.7	0.13	1.36	0.0606	0.0469	NM	1.13E+01	5.44E+00	120	-99	-99
13.76239	31.22	6119.3	6119.4	0.51	0.66	0.0614	0.0469	NM	1.15E+01	5.51E+00	120	-99	-99
13.98463	44.51	4382.4	4382.8	1.02	1.01	0.0614	0.047	NM	1.17E+01	5.59E+00	120	6	7
14.05724	48.53	3069.2	3069.3	1.58	0.96	0.0607	0.0474	NM	1.17E+01	5.62E+00	120	6	7
14.12864	49.09	2699.8	2700.1	1.82	1.26	0.0615	0.0472	NM	1.18E+01	5.65E+00	120	6	7
14.20165	42.09	2972.4	2972.8	1.42	1.76	0.0609	0.0474	NM	1.18E+01	5.68E+00	120	6	7
14.27065	34.57	2946	2946.4	1.17	1.81	0.0604	0.0478	NM	1.19E+01	5.71E+00	120	6	7
14.34245	26.74	3039.9	3040.1	0.88	1.51	0.0587	0.0477	NM	1.20E+01	5.74E+00	120	6	7
14.41345	22.52	2949	2949.2	0.76	1.36	0.0548	0.0477	NM	1.20E+01	5.77E+00	120	6	7
14.48446	24.93	2809.7	2810	0.89	1.31	0.0559	0.048	NM	1.21E+01	5.79E+00	120	6	7
14.70657	33.76	3661.5	3661.7	0.92	1.42	0.0616	0.0479	NM	1.23E+01	5.88E+00	120	6	7
14.77551	33.03	3950.4	3950.7	0.84	1.42	0.0623	0.0481	NM	1.23E+01	5.91E+00	120	7	7
14.84486	38.32	4405.1	4405.4	0.87	1.42	0.0609	0.0482	NM	1.24E+01	5.94E+00	120	7	7
14.91742	27.52	4270.2	4270.5	0.64	1.57	0.059	0.0477	NM	1.24E+01	5.97E+00	120	7	7

14.99238	45.34	4054.6	4054.9	1.12	1.47	0.0587	0.0478	NM	1.25E+01	6.00E+00	120	6	7
15.06052	40.51	3976.8	3977.1	1.02	1.42	0.0589	0.0479	NM	1.26E+01	6.02E+00	120	6	7
15.13027	39.29	4130.8	4131.1	0.95	1.27	0.0595	0.0488	NM	1.26E+01	6.05E+00	120	6	7
15.19922	31.98	4597.3	4597.5	0.7	1.07	0.0607	0.0501	NM	1.27E+01	6.08E+00	120	7	7
15.27178	42.03	4707.3	4707.5	0.89	1.22	0.0629	0.0511	NM	1.27E+01	6.11E+00	120	7	7
15.34554	51.33	3648.3	3648.5	1.41	0.97	0.0645	0.0505	NM	1.28E+01	6.14E+00	120	6	7
15.41809	49.38	4224.7	4224.9	1.17	1.12	0.0629	0.0491	NM	1.29E+01	6.17E+00	120	6	7
15.48744	47.6	4660.4	4660.6	1.02	1.12	0	0	NM	1.29E+01	6.20E+00	120	6	7
15.55879	47.72	4824.8	4824.9	0.99	1.22	0	0	NM	1.30E+01	6.22E+00	120	6	7
15.62814	34.66	4827.6	4827.8	0.72	1.17	0	0	NM	1.30E+01	6.25E+00	120	7	7
15.69669	49.78	5241.2	5241.4	0.95	1.17	0	0	NM	1.31E+01	6.28E+00	120	6	7
15.78964	40.23	4408.1	4408.3	0.91	1.17	0	0	NM	1.31E+01	6.31E+00	120	6	7
15.8422	35.34	4917	4917.3	0.72	1.22	0	0	NM	1.32E+01	6.34E+00	120	7	7
15.91876	39.22	4996.2	4996.5	0.78	1.17	0	0	NM	1.33E+01	6.37E+00	120	7	7
15.98611	36.89	4051.6	4051.8	0.91	1.02	0	0	NM	1.33E+01	6.39E+00	120	6	7
16.05385	31.25	4259.9	4260.1	0.73	1.02	0	0	NM	1.34E+01	6.42E+00	120	7	7
16.124	39.85	4506.3	4506.6	0.88	1.27	0	0	NM	1.34E+01	6.45E+00	120	6	7
16.19495	38.96	4655.9	4656.2	0.84	1.17	0	0	NM	1.35E+01	6.48E+00	120	7	7
16.26751	31.51	4902.4	4902.6	0.64	1.22	0	0	NM	1.36E+01	6.51E+00	120	7	7
16.33726	34.54	5075.4	5075.7	0.68	1.32	0	0	NM	1.36E+01	6.54E+00	120	7	7
16.40941	21.22	4799.7	4799.9	0.44	1.32	0	0	NM	1.37E+01	6.56E+00	120	7	7
16.47836	22.65	5147.3	5147.6	0.44	1.27	0	0	NM	1.37E+01	6.59E+00	120	7	7
16.54931	28.67	5364.4	5364.6	0.53	1.27	0	0	NM	1.38E+01	6.62E+00	120	7	7
16.61786	24.06	6373.5	6373.8	0.38	1.42	0	0	NM	1.39E+01	6.65E+00	120	7	7
16.69002	25.31	5839.6	5839.8	0.43	0.97	0	0	NM	1.39E+01	6.68E+00	120	7	7
16.76457	28.95	4188	4188.3	0.69	1.12	0	0	NM	1.40E+01	6.71E+00	120	7	7
16.83152	41.18	4402.2	4402.5	0.94	1.57	0	0	NM	1.40E+01	6.73E+00	120	6	7
16.89966	38.37	4343.5	4343.8	0.88	1.52	0	0	NM	1.41E+01	6.76E+00	120	6	7
16.97422	31.18	4386.1	4386.3	0.71	1.42	0	0	NM	1.42E+01	6.79E+00	120	7	7
17.04518	41.31	4609	4609.3	0.9	1.52	0	0	NM	1.42E+01	6.82E+00	120	6	7
17.11813	63.62	4920	4920.2	1.29	1.37	0	0	NM	1.43E+01	6.85E+00	120	6	7
17.18748	86.57	4713.2	4713.4	1.84	1.37	0	0	NM	1.43E+01	6.88E+00	120	6	7
17.25923	70	5047.6	5047.9	1.39	1.42	0	0	NM	1.44E+01	6.90E+00	120	6	7
17.32858	47.19	5142.9	5143.2	0.92	1.27	0	0	NM	1.44E+01	6.93E+00	120	6	7
17.39713	45.63	5401.1	5401.4	0.84	1.52	0	0	NM	1.45E+01	6.96E+00	120	7	7
17.46648	0	5235.3	5235.7	0	1.82	0	0	NM	1.46E+01	6.99E+00	120	-99	7
17.53683	0	4685.3	4685.6	0	1.92	0	0	NM	1.46E+01	7.02E+00	120	-99	7
17.60838	0	4365.5	4365.7	0	1.12	0	0	NM	1.47E+01	7.04E+00	120	-99	7
17.67893	0	4855.4	4855.7	0	1.52	0	0	NM	1.47E+01	7.07E+00	120	-99	7
17.74868	0	5795.6	5795.9	0	1.52	0	0	NM	1.48E+01	7.10E+00	120	-99	7
17.81362	0	7389.5	7389.8	0	1.57	0	0	NM	1.48E+01	7.13E+00	120	-99	-99

Electric Cone Penetrometer Data

Cone_TAP v 2.90

Test Id: HD-12 Date: 4-Nov-03

Site: SUNNYSIDE Cone Id: 108.034XXX

Location: QUEENS NY

Project: ROUX Soil Density(pcf): 120

Client: ROUX

Depth (ft)	Sleeve Stress (psi)	Tip Stress UNC (psi)	Tip Stress COR (psi)	Ratio COR (%)	Pore Pressure (psi)	LFFD (V)	HFFD (V)	Excitation (Vdc)	Overburden (psi)	Eff. Overburden (psi)	Wet Density (pcf)	Class. FR (Rob. 1990)	Class. PP (Rob. 1990)
0	0	0	0	0	0	0	0	NM	0.00E+00	0.00E+00	120	-99	-99
0.14821	0	1465.7	1465.8	0	0.78	0.1321	0.0538	NM	1.24E-01	5.93E-02	120	-99	-99
0.18867	0	1719.5	1719.6	0	0.68	0.1327	0.0541	NM	1.58E-01	7.47E-02	120	-99	-99
0.22592	0	1986.5	1986.7	0	0.73	0.1359	0.0536	NM	1.88E-01	9.04E-02	120	-99	-99
0.26358	0	2058.4	2058.6	0	0.98	0.1171	0.0517	NM	2.20E-01	1.05E-01	120	-99	-99
0.30163	-0.04	1892.6	1892.8	0	0.93	0.0848	0.0489	NM	2.51E-01	1.21E-01	120	-99	-99
0.33888	-0.02	1944	1944.2	0	0.93	0.08	0.0485	NM	2.82E-01	1.36E-01	120	-99	-99
0.37814	-0.04	1892.8	1892.8	0	0.88	0.0781	0.0486	NM	3.15E-01	1.51E-01	120	-99	-99
0.4178	-0.05	1817.8	1818	0	1.03	0.0808	0.0493	NM	3.48E-01	1.67E-01	120	-99	-99
0.45545	-0.06	1756.2	1756.4	0	1.08	0.0803	0.0499	NM	3.80E-01	1.82E-01	120	-99	-99
0.4919	-0.04	1958.6	1958.9	0	1.08	0.0794	0.0502	NM	4.10E-01	1.97E-01	120	-99	-99
0.52996	0.77	2062.8	2063.1	0.04	1.38	0.079	0.0495	NM	4.42E-01	2.12E-01	120	-99	-99
0.56641	2.81	2219.8	2220.1	0.13	1.48	0.0794	0.049	NM	4.72E-01	2.27E-01	120	-99	-99
0.60647	4.11	2378.2	2378.8	0.17	2.73	0.0802	0.0485	NM	5.05E-01	2.43E-01	120	-99	-99
0.64412	4.21	2558.7	2559	0.16	1.28	0.0799	0.0481	NM	5.37E-01	2.58E-01	120	-99	-99
0.67977	4.71	2759.7	2759.9	0.17	0.78	0.0797	0.0479	NM	5.67E-01	2.72E-01	120	-99	-99
0.71943	7.95	2928.4	2928.6	0.27	0.83	0.0801	0.0479	NM	6.00E-01	2.88E-01	120	-99	-99
0.75588	15.13	3218.9	3219.1	0.47	1.08	0.0808	0.0493	NM	6.30E-01	3.02E-01	120	-99	-99
0.79233	20.19	3620.9	3621.2	0.56	1.33	0.0817	0.0515	NM	6.60E-01	3.17E-01	120	-99	-99
0.82918	19.21	4284.1	4284.3	0.45	1.38	0.088	0.0507	NM	6.91E-01	3.32E-01	120	-99	-99
0.86523	19.21	5416.7	5417.3	0.35	2.98	0.0952	0.0503	NM	7.21E-01	3.46E-01	120	-99	-99
0.89868	21.29	6809.5	6810.1	0.32	3.18	0.103	0.0512	NM	7.50E-01	3.60E-01	120	-99	-99
0.93493	23.82	7460.5	7460.9	0.32	2.43	0.101	0.0508	NM	7.79E-01	3.74E-01	120	-99	-99
0.97058	27.24	7627.7	7628.6	0.36	4.58	0.0877	0.0482	NM	8.09E-01	3.88E-01	120	-99	-99
1.01746	35.5	6911.9	6912.6	0.51	3.89	0.0915	0.0501	NM	8.48E-01	4.07E-01	120	-99	-99
1.05033	38.72	6908.9	6910.3	0.56	7.33	0.0978	0.0521	NM	8.75E-01	4.20E-01	120	-99	-99
1.08519	42.41	6350.1	6350.8	0.67	3.74	0.0862	0.0486	NM	9.04E-01	4.34E-01	120	-99	-99
1.11966	46.68	6018.6	6019	0.78	2.09	0.0773	0.0459	NM	9.33E-01	4.48E-01	120	-99	-99
1.15693	43.71	5924.7	5924.9	0.74	0.7	0.0788	0.0465	NM	9.64E-01	4.63E-01	120	-99	-99
1.1938	43.53	5751.6	5751.9	0.76	1.25	0.1076	0.0488	NM	9.95E-01	4.78E-01	120	-99	-99
1.23027	46.94	5668	5668.3	0.83	1.65	0.1685	0.0534	NM	1.03E+00	4.92E-01	120	-99	-99
1.26754	52.36	5577.1	5577.7	0.94	3.14	0.1443	0.0508	NM	1.06E+00	5.07E-01	120	-99	-99
1.30721	48.97	5393.7	5394.3	0.91	2.89	0.0741	0.0445	NM	1.09E+00	5.23E-01	120	-99	-99
1.34729	42.92	5050.5	5051.1	0.85	3.09	0.0754	0.0504	NM	1.12E+00	5.39E-01	120	-99	-99
1.38536	40.6	4950.8	4952	0.82	6.39	0.0784	0.0534	NM	1.15E+00	5.54E-01	120	-99	-99
1.42223	41.76	5003.6	5004.7	0.83	6.04	0.0817	0.0501	NM	1.19E+00	5.69E-01	120	-99	-99
1.4587	41.13	4911.2	4912.5	0.84	6.93	0.0815	0.0499	NM	1.22E+00	5.84E-01	120	-99	-99
1.49638	40.43	5060.8	5062.3	0.8	8.08	0.0786	0.052	NM	1.25E+00	5.99E-01	120	-99	-99
1.53325	43.87	5225.1	5227.7	0.84	13.87	0.074	0.0534	NM	1.28E+00	6.13E-01	120	-99	-99

1.56891	44.69	5342.4	5344.1	0.84	8.73	0.0703	0.0548	NM	1.31E+00	6.28E-01	120	-99	-99
1.60739	44.75	5125.3	5126.8	0.87	6.89	0.0838	0.0597	NM	1.34E+00	6.43E-01	120	-99	-99
1.64426	46.75	5097.4	5098.5	0.92	5.59	0.1138	0.088	NM	1.37E+00	6.58E-01	120	-99	-99
1.68193	49.31	5563.9	5564.7	0.89	4.14	0.1809	0.1672	NM	1.40E+00	6.73E-01	120	-99	-99
1.7188	49.61	5668	5669.2	0.88	5.99	0.1847	0.1723	NM	1.43E+00	6.88E-01	120	-99	-99
1.75847	49.85	5889.5	5890.1	0.85	3.14	0.1475	0.1292	NM	1.47E+00	7.03E-01	120	-99	-99
1.80256	50.83	6401.4	6401.8	0.79	1.05	0.1502	0.1323	NM	1.50E+00	7.21E-01	120	-99	-99
1.84784	51.66	6634.6	6635	0.78	1.94	0.1407	0.1257	NM	1.54E+00	7.39E-01	120	-99	-99
1.89433	51.98	6488	6488.6	0.8	3.19	0.1066	0.0965	NM	1.58E+00	7.58E-01	120	-99	-99
1.94002	49.23	6250.3	6250.6	0.79	1.1	0.1165	0.1039	NM	1.62E+00	7.76E-01	120	-99	-99
1.98811	45.09	5424.5	5424.7	0.83	0.75	0.2652	0.1984	NM	1.66E+00	7.94E-01	120	-99	-99
2.03781	39.77	5132.7	5133.9	0.77	6.84	0.3019	0.1545	NM	1.70E+00	8.15E-01	120	-99	-99
2.0867	31.95	4873	4879.2	0.65	32.13	0.22	0.1089	NM	1.74E+00	8.35E-01	120	-99	-99
2.14	27.46	4356.7	4369.2	0.63	64.42	0.147	0.1415	NM	1.78E+00	8.56E-01	120	-99	-99
2.19771	19.44	3467.9	3469.4	0.56	7.98	0.2525	0.25	NM	1.83E+00	8.79E-01	120	-99	-99
2.25782	11.24	2642	2642	0.43	0	0.2685	0.1292	NM	1.88E+00	9.03E-01	120	-99	-99
2.31473	7.45	2671.4	2671.4	0.28	0.3	0.2865	0.1293	NM	1.93E+00	9.26E-01	120	-99	-99
2.37164	7.63	2361.9	2361.9	0.32	-0.05	0.2514	0.1251	NM	1.98E+00	9.49E-01	120	-99	-99
2.42935	7.88	1822.1	1822.4	0.43	1.55	0.2028	0.1091	NM	2.02E+00	9.72E-01	120	-99	-99
2.48786	5.4	1267.7	1267.7	0.43	0.15	0.1678	0.0963	NM	2.07E+00	9.95E-01	120	-99	-99
2.54677	1.66	865.8	865.9	0.19	0.55	0.1273	0.0889	NM	2.12E+00	1.02E+00	120	7	7
2.61009	0.28	786.6	786.5	0.04	-0.15	0.0961	0.0896	NM	2.18E+00	1.04E+00	120	-99	7
2.67261	4.7	474.1	474.1	0.99	-0.3	0.0904	0.0859	NM	2.23E+00	1.07E+00	120	6	7
2.73433	6.9	703	702.9	0.98	-0.3	0.0842	0.0721	NM	2.28E+00	1.09E+00	120	6	7
2.79244	8.19	1011	1011	0.81	-0.1	0.0835	0.0714	NM	2.33E+00	1.12E+00	120	7	7
2.85416	9.79	1666.6	1666.7	0.59	0.1	0.0829	0.0699	NM	2.38E+00	1.14E+00	120	-99	-99
2.91467	8.19	1955.6	1955.6	0.42	0.2	0.0872	0.0783	NM	2.43E+00	1.17E+00	120	-99	-99
2.97719	7.74	1393.8	1393.8	0.56	0	0.0969	0.0857	NM	2.48E+00	1.19E+00	120	-99	-99
3.03891	11.13	1613.8	1614.3	0.69	2.34	0.0942	0.0825	NM	2.53E+00	1.22E+00	120	-99	-99
3.10343	14.15	1778.6	1778.8	0.8	0.95	0.0923	0.0777	NM	2.59E+00	1.24E+00	120	-99	-99
3.16475	15.3	1916	1916.1	0.8	0.85	0.0834	0.0688	NM	2.64E+00	1.27E+00	120	-99	-99
3.22328	14.92	1948.3	1948.4	0.77	0.85	0.0775	0.0633	NM	2.69E+00	1.29E+00	120	-99	-99
3.28819	12.87	2009.9	2009.8	0.64	-0.25	0.082	0.0655	NM	2.74E+00	1.32E+00	120	-99	-99
3.35351	12.34	1584.5	1584.5	0.78	-0.1	0.0828	0.068	NM	2.80E+00	1.34E+00	120	-99	-99
3.41683	11.68	1329.3	1329.3	0.88	0.1	0.0837	0.0707	NM	2.85E+00	1.37E+00	120	7	7
3.48255	11.69	1270.6	1270.9	0.92	1.75	0.0903	0.0798	NM	2.90E+00	1.39E+00	120	7	7
3.54708	11.49	1160.8	1160.7	0.99	0.65	0.0937	0.0865	NM	2.96E+00	1.42E+00	120	6	7
3.6124	10.98	984.6	984.7	1.11	0.75	0.1034	0.0974	NM	3.01E+00	1.45E+00	120	6	7
3.67813	10.88	810	810.2	1.34	0.85	0.1436	0.1362	NM	3.07E+00	1.47E+00	120	6	7
3.74345	10.66	808.6	808.9	1.32	1.9	0.1828	0.1722	NM	3.12E+00	1.50E+00	120	6	7
3.80757	10.33	748.4	748.9	1.38	2.24	0.1841	0.1679	NM	3.17E+00	1.52E+00	120	6	7
3.8729	9.31	629.6	630.2	1.48	3.04	0.1695	0.1442	NM	3.23E+00	1.55E+00	120	6	7
3.93662	5.98	578.3	578.8	1.03	2.79	0.1626	0.136	NM	3.28E+00	1.58E+00	120	6	7
4.00234	4.09	491.7	492.3	0.83	3.09	0.1728	0.1464	NM	3.34E+00	1.60E+00	120	6	7
4.06606	5.63	433.1	433.6	1.3	2.64	0.1585	0.1457	NM	3.39E+00	1.63E+00	120	6	7
4.13379	6.01	378.8	379.5	1.58	3.64	0.1375	0.1284	NM	3.45E+00	1.65E+00	120	6	7
4.19832	5.22	392	392.9	1.33	4.69	0.1182	0.1077	NM	3.50E+00	1.68E+00	120	6	7
4.26324	4.84	359.7	360.7	1.29	5.09	0.0981	0.0874	NM	3.55E+00	1.71E+00	120	6	7
4.30336	4.4	410.5	411.2	1.07	3.32	0.0882	0.0769	NM	3.59E+00	1.72E+00	120	6	7
4.36475	4.08	344.5	345	1.18	2.42	0.0864	0.0691	NM	3.64E+00	1.75E+00	120	6	7
4.42975	5.5	387.1	387.4	1.42	1.57	0.0805	0.061	NM	3.69E+00	1.77E+00	120	6	7
4.49194	9.09	431.1	430.9	2.11	-1.08	0.077	0.0579	NM	3.74E+00	1.80E+00	120	6	7

4.55654	8.28	417.9	417.5	1.98	-1.73	0.0739	0.0562	NM	3.80E+00	1.82E+00	120	6	7
4.62475	6.89	395.9	395.4	1.74	-2.23	0.0758	0.059	NM	3.85E+00	1.85E+00	120	6	7
4.69337	6.42	338.6	338.2	1.9	-2.23	0.08	0.0642	NM	3.91E+00	1.88E+00	120	6	7
4.75717	6.59	210.9	210.5	3.13	-2.08	0.0801	0.0651	NM	3.96E+00	1.90E+00	120	5	6
4.82136	7.25	118.5	118.2	6.14	-1.68	0.076	0.0609	NM	4.02E+00	1.93E+00	120	3	6
4.88516	7.56	111.2	110.9	6.82	-1.38	0.0695	0.0564	NM	4.07E+00	1.95E+00	120	3	6
4.94976	8.13	97.9	97.7	8.32	-1.18	0.0596	0.0487	NM	4.13E+00	1.98E+00	120	3	6
5.01637	6.1	105.3	105.1	5.81	-0.98	0.0576	0.0459	NM	4.18E+00	2.01E+00	120	3	6
5.08257	6.17	118.5	118.3	5.21	-0.78	0.0837	0.0581	NM	4.24E+00	2.03E+00	120	4	6
5.15119	6.48	142	141.8	4.57	-0.83	0.0882	0.0572	NM	4.29E+00	2.06E+00	120	4	6
5.21458	6.81	156.6	156.5	4.35	-0.88	0.0933	0.0589	NM	4.35E+00	2.09E+00	120	4	6
5.28079	6.78	164	163.8	4.14	-1.03	0.0933	0.0717	NM	4.40E+00	2.11E+00	120	4	6
5.34659	6.92	136.1	135.9	5.09	-1.03	0.077	0.0552	NM	4.46E+00	2.14E+00	120	4	6
5.41159	7.06	140.5	140.3	5.03	-0.83	0.0741	0.0475	NM	4.51E+00	2.17E+00	120	4	6
5.4786	7.18	136.1	136	5.28	-0.73	0.0916	0.0532	NM	4.57E+00	2.19E+00	120	4	6
5.54721	7.12	180.1	180.1	3.95	-0.28	0.1017	0.0566	NM	4.62E+00	2.22E+00	120	4	6
5.61181	7.37	253.5	253.5	2.91	-0.13	0.097	0.0546	NM	4.68E+00	2.25E+00	120	5	6
5.67681	8.41	281.4	281.3	2.99	-0.73	0.1223	0.0587	NM	4.73E+00	2.27E+00	120	5	6
5.74101	9.26	290.2	289.9	3.19	-1.33	0.2626	0.0868	NM	4.78E+00	2.30E+00	120	5	6
5.80641	8.77	332.8	332.5	2.64	-1.43	0.9721	0.2952	NM	4.84E+00	2.32E+00	120	5	6
5.86981	6.43	450.2	449.9	1.43	-1.43	0.799	0.2146	NM	4.89E+00	2.35E+00	120	6	7
5.93882	8.32	665.9	665.6	1.25	-1.53	1.2406	0.3825	NM	4.95E+00	2.38E+00	120	6	7
6.01305	14.68	944.7	944.3	1.55	-2.18	1.3591	0.4143	NM	5.01E+00	2.41E+00	120	6	7
6.08498	18.43	1210.3	1209.8	1.36	-2.52	0.8388	0.2791	NM	5.07E+00	2.43E+00	120	6	7
6.1583	17.24	1492.1	1491.7	1.16	-2.18	0.5219	0.1977	NM	5.13E+00	2.46E+00	120	6	7
6.23093	21.71	2018.9	2018.5	1.08	-2.03	0.7861	0.258	NM	5.19E+00	2.49E+00	120	6	7
6.30115	26.33	2129	2128.6	1.24	-1.78	0.8925	0.2762	NM	5.25E+00	2.52E+00	120	6	7
6.37738	37.66	2206.8	2206.4	1.71	-1.93	0.8539	0.2566	NM	5.31E+00	2.55E+00	120	8	7
6.45001	50.84	2459.2	2458.8	2.06	-1.78	0.8171	0.2379	NM	5.38E+00	2.58E+00	120	8	7
6.52183	51.69	2732.1	2731.9	1.89	-1.48	0.9101	0.2673	NM	5.44E+00	2.61E+00	120	-99	-99
6.59205	66.27	3082.9	3082.7	2.15	-0.98	1.1943	0.3626	NM	5.49E+00	2.64E+00	120	-99	-99
6.66347	64.18	3881.2	3881.2	1.65	-0.23	1.4438	0.4368	NM	5.55E+00	2.67E+00	120	-99	-99
6.74332	49.45	3327.9	3327.9	1.49	-0.28	1.4572	0.4289	NM	5.62E+00	2.70E+00	120	-99	-99
6.81112	43.18	3988.3	3988.3	1.08	-0.28	1.4139	0.4104	NM	5.68E+00	2.72E+00	120	-99	-99
6.88616	40.84	2966.9	2966.6	1.38	-1.58	1.356	0.3873	NM	5.74E+00	2.75E+00	120	-99	-99
6.95798	38.72	2836.3	2836.1	1.37	-1.08	1.1991	0.3341	NM	5.80E+00	2.78E+00	120	-99	-99
7.03101	49.19	2890.6	2890.4	1.7	-1.18	1.1868	0.342	NM	5.86E+00	2.81E+00	120	-99	-99
7.10524	35.36	2826.1	2825.9	1.25	-0.63	1.173	0.3132	NM	5.92E+00	2.84E+00	120	6	7
7.17706	29.99	2834.9	2834.7	1.06	-0.63	1.0326	0.2527	NM	5.98E+00	2.87E+00	120	6	7
7.25089	2.59	2887.7	2887.6	0.09	-0.63	0.8527	0.1959	NM	6.04E+00	2.90E+00	120	-99	7
7.32431	11	2961.1	2961	0.37	-0.58	0.6768	0.1432	NM	6.10E+00	2.93E+00	120	-99	-99
7.39734	10.39	3072.6	3072.6	0.34	0.07	0.8785	0.2768	NM	6.16E+00	2.96E+00	120	-99	-99
7.47077	11.28	3043.3	3043.3	0.37	0.17	1.0496	0.382	NM	6.23E+00	2.99E+00	120	-99	-99
7.545	13.41	2702.8	2702.8	0.5	0.12	0.8144	0.3053	NM	6.29E+00	3.02E+00	120	7	7
7.66742	14.84	2583.9	2584	0.57	0.37	0.1074	0.0499	NM	6.39E+00	3.07E+00	120	7	7
7.73807	11.13	2608.9	2608.9	0.43	0.32	0.1341	0.02	NM	6.45E+00	3.10E+00	120	7	7
7.81033	11.16	2561.9	2562	0.44	0.47	0.1393	0.0192	NM	6.51E+00	3.12E+00	120	7	7
7.887	26.95	2537	2537	1.06	0.47	0.1694	0.0204	NM	6.57E+00	3.16E+00	120	6	7
7.96388	45.76	2548.7	2548.8	1.8	0.57	0.3056	0.0694	NM	6.64E+00	3.19E+00	120	8	7
8.03313	40.48	2592.7	2592.8	1.56	0.47	0.3978	0.1214	NM	6.69E+00	3.21E+00	120	8	7
8.10538	29.92	2742.4	2742.5	1.09	0.62	0.4295	0.1975	NM	6.75E+00	3.24E+00	120	8	7
8.17804	18.72	2983.1	2983.2	0.63	0.62	0.3903	0.1043	NM	6.82E+00	3.27E+00	120	7	7

8.2499	30.27	3260.4	3260.8	0.93	2.07	0.359	0.0377	NM	6.88E+00	3.30E+00	120	7	7
8.32338	34.93	3824	3824.1	0.91	0.92	0.2062	0.0142	NM	6.94E+00	3.33E+00	120	-99	-99
8.41048	28.06	3922.3	3922.5	0.72	1.17	0.1466	0.0141	NM	7.01E+00	3.36E+00	120	-99	-99
8.4743	23.02	4818.9	4819.2	0.48	1.22	0.1407	0.0134	NM	7.06E+00	3.39E+00	120	-99	-99
8.54977	20.93	2645.5	2645.7	0.79	0.72	0.2605	0.0624	NM	7.13E+00	3.42E+00	120	7	7
8.62324	22.56	2086.4	2086.6	1.08	0.62	0.3702	0.0785	NM	7.19E+00	3.45E+00	120	8	7
8.86048	11.8	1999.8	2000.6	0.59	3.92	0.4856	0.1195	NM	7.38E+00	3.54E+00	120	7	7
8.93314	7.88	2073.2	2073.9	0.38	3.72	0.544	0.1591	NM	7.44E+00	3.57E+00	120	7	7
9.00741	7.76	2104	2104.8	0.37	4.06	0.6725	0.2038	NM	7.51E+00	3.60E+00	120	7	7
9.07886	9.08	2143.7	2144.5	0.42	4.38	0.6542	0.1759	NM	7.57E+00	3.63E+00	120	7	7
9.15152	10.26	2151	2151.8	0.48	4.31	0.6437	0.163	NM	7.63E+00	3.66E+00	120	7	7
9.22699	10.05	2145.1	2146	0.47	4.56	0.5406	0.1389	NM	7.69E+00	3.69E+00	120	7	7
9.30086	9.76	2170.1	2170.9	0.45	4.51	0.5411	0.1424	NM	7.75E+00	3.72E+00	120	7	7
9.37271	9.32	2228.8	2229.7	0.42	4.66	0.6318	0.177	NM	7.81E+00	3.75E+00	120	7	7
9.44738	9.09	2224.4	2225.4	0.41	5.36	0.6161	0.1694	NM	7.87E+00	3.78E+00	120	7	7
9.52044	9.28	2243.5	2244.4	0.41	5.11	0.6803	0.2112	NM	7.93E+00	3.81E+00	120	7	7
9.5931	9.81	2306.6	2307.5	0.43	4.96	0.664	0.1858	NM	7.99E+00	3.84E+00	120	7	7
9.66777	9.76	2325.6	2326.6	0.42	5.06	0.704	0.1955	NM	8.06E+00	3.87E+00	120	7	7
9.74183	8.1	2372.6	2373.6	0.34	5.06	0.8653	0.266	NM	8.12E+00	3.90E+00	120	7	7
9.81028	9.4	2428.4	2429.3	0.39	5.11	0.8912	0.2599	NM	8.18E+00	3.92E+00	120	7	7
9.88454	13.49	2446	2446.9	0.55	4.91	1.2558	0.3724	NM	8.24E+00	3.95E+00	120	7	7
9.9572	14.93	2492.9	2493.8	0.6	4.76	1.0111	0.3091	NM	8.30E+00	3.98E+00	120	7	7
10.03066	16.14	2453.3	2454.3	0.66	4.98	0.4269	0.1408	NM	8.36E+00	4.01E+00	120	7	7
10.10413	16.73	2510.5	2511.6	0.67	5.21	0.2146	0.0553	NM	8.42E+00	4.04E+00	120	7	7
10.17759	16.43	2607.4	2608.4	0.63	5.11	0.2338	0.0665	NM	8.48E+00	4.07E+00	120	7	7
10.25105	13.33	2520.8	2521.8	0.53	5.26	0.2151	0.0529	NM	8.54E+00	4.10E+00	120	7	7
10.32411	18.32	2520.8	2521.8	0.73	5.01	0.2124	0.0501	NM	8.60E+00	4.13E+00	120	7	7
10.39637	18.56	2523.7	2524.8	0.74	5.26	0.385	0.1236	NM	8.66E+00	4.16E+00	120	7	7
10.47184	15.54	2156.9	2157.6	0.72	3.92	0.4423	0.1456	NM	8.73E+00	4.19E+00	120	7	7
10.54651	12.85	2237.6	2238.3	0.57	3.57	0.3749	0.1131	NM	8.79E+00	4.22E+00	120	7	7
10.61997	15.08	2444.5	2445.2	0.62	3.47	0.4415	0.1543	NM	8.85E+00	4.25E+00	120	7	7
10.69183	13.61	2149.5	2150.3	0.63	4.21	0.4595	0.1664	NM	8.91E+00	4.28E+00	120	7	7
10.76449	12.69	2076.2	2077.1	0.61	4.66	0.4303	0.1631	NM	8.97E+00	4.31E+00	120	7	7
10.83674	12.29	2101.1	2102	0.58	4.56	0.4519	0.1715	NM	9.03E+00	4.34E+00	120	7	7
10.88369	11.15	2015.7	2016.8	0.55	5.89	0.5358	0.2096	NM	9.07E+00	4.35E+00	120	7	7
10.95348	10.27	2108.1	2109.1	0.49	5.19	0.6406	0.2649	NM	9.13E+00	4.38E+00	120	7	7
11.02286	9.34	2127.2	2128.1	0.44	4.79	0.5102	0.2132	NM	9.19E+00	4.41E+00	120	7	7
11.09465	8.92	2184.4	2185.3	0.41	4.54	0.4869	0.2302	NM	9.25E+00	4.44E+00	120	7	7
11.17245	11.38	2111.1	2112.5	0.54	7.23	0.2554	0.136	NM	9.31E+00	4.47E+00	120	7	7
11.24745	10.12	2163.9	2164.6	0.47	3.79	0.2247	0.1225	NM	9.37E+00	4.50E+00	120	7	7
11.31803	12.56	2212.3	2212.9	0.57	3.44	0.1904	0.1028	NM	9.43E+00	4.53E+00	120	7	7
11.39102	34.34	2297.4	2298	1.49	3.39	0.1248	0.0704	NM	9.49E+00	4.56E+00	120	6	7
11.46281	52.5	2548.2	2548.8	2.06	3.39	0.1179	0.0669	NM	9.55E+00	4.59E+00	120	6	7
11.5358	39.53	2866.5	2867.2	1.38	3.94	0.1277	0.0695	NM	9.61E+00	4.61E+00	120	6	7
11.61842	35.75	2017.2	2017.7	1.77	2.54	0.1267	0.0703	NM	9.68E+00	4.65E+00	120	6	7
11.69462	33.63	1332.2	1332.5	2.52	1.4	0.1498	0.0797	NM	9.75E+00	4.68E+00	120	8	7
11.76039	32.08	1631.4	1631.8	1.97	0.7	0.1483	0.0781	NM	9.80E+00	4.70E+00	120	6	7
11.83459	27.96	2087.6	2087.8	1.34	1.05	0.1075	0.0626	NM	9.86E+00	4.73E+00	120	6	7
11.90758	26.44	1387.9	1388.1	1.9	0.7	0.1009	0.0602	NM	9.92E+00	4.76E+00	120	6	7
11.96017	18.83	1610.9	1611.1	1.17	0.85	0.0931	0.057	NM	9.98E+00	4.79E+00	120	6	7
12.05516	14.19	1635.8	1636	0.87	1	0.0876	0.0533	NM	1.01E+01	4.82E+00	120	6	7
12.13056	8.82	1643.2	1643.4	0.54	1.15	0.0833	0.051	NM	1.01E+01	4.85E+00	120	6	7

12.20195	6.01	1694.5	1694.7	0.35	1.2	0.0786	0.0487	NM	1.02E+01	4.88E+00	120	7	7
12.27815	5.59	1719.4	1719.7	0.33	1.2	0.0744	0.0469	NM	1.02E+01	4.91E+00	120	7	7
12.34873	5.46	1731.2	1731.4	0.32	1.2	0.0717	0.0455	NM	1.03E+01	4.94E+00	120	7	7
12.42333	5.24	1754.6	1754.9	0.3	1.3	0.0708	0.0448	NM	1.04E+01	4.97E+00	120	7	7
12.49953	5.02	1763.4	1763.7	0.28	1.25	0.068	0.0433	NM	1.04E+01	5.00E+00	120	7	7
12.57332	5.01	1811.8	1812.1	0.28	1.5	0.0682	0.0432	NM	1.05E+01	5.03E+00	120	7	7
12.64551	6.14	1829.5	1829.7	0.34	1.5	0.0682	0.0427	NM	1.05E+01	5.06E+00	120	7	7
12.7197	6.05	1866.1	1866.4	0.32	1.7	0.0664	0.0427	NM	1.06E+01	5.09E+00	120	7	7
12.7927	5.76	1948.3	1948.6	0.3	1.85	0.0674	0.043	NM	1.07E+01	5.12E+00	120	7	7
12.86649	5.63	2090.5	2090.8	0.27	1.6	0.0684	0.0444	NM	1.07E+01	5.15E+00	120	7	7
12.94148	5.77	2168.3	2168.6	0.27	1.55	0.066	0.042	NM	1.08E+01	5.18E+00	120	7	7
13.01448	5.91	2133.1	2133.5	0.28	2.24	0.0652	0.0421	NM	1.09E+01	5.21E+00	120	7	7
13.08386	5.74	2174.1	2174.6	0.26	2.14	0.0654	0.041	NM	1.09E+01	5.23E+00	120	7	7
13.15765	6.78	2187.3	2187.7	0.31	1.99	0.0665	0.0414	NM	1.10E+01	5.26E+00	120	7	7
13.23144	7.36	2206.4	2206.8	0.33	2.04	0.065	0.041	NM	1.10E+01	5.29E+00	120	7	7
13.30363	10.28	2256.3	2256.7	0.46	1.99	0.065	0.0405	NM	1.11E+01	5.32E+00	120	7	7
13.37703	10.98	2265.1	2265.4	0.48	1.8	0.0651	0.0406	NM	1.12E+01	5.35E+00	120	7	7
13.45202	11.31	2275.4	2275.6	0.5	1.4	0.0702	0.0408	NM	1.12E+01	5.38E+00	120	7	7
13.52501	10.73	2309.1	2309.4	0.46	1.4	0.0647	0.0397	NM	1.13E+01	5.41E+00	120	7	7
13.60001	9.5	2209.3	2209.5	0.43	1	0.0644	0.0391	NM	1.13E+01	5.44E+00	120	7	7
13.6734	8.38	1993.7	1993.9	0.42	0.9	0.0629	0.0386	NM	1.14E+01	5.47E+00	120	7	7
13.7508	8.23	1982	1982.2	0.42	0.85	0.0623	0.0375	NM	1.15E+01	5.50E+00	120	7	7
13.81938	6.49	1958.5	1958.7	0.33	0.75	0.0618	0.0378	NM	1.15E+01	5.53E+00	120	7	7
13.89398	5.36	1967.3	1967.5	0.27	0.7	0.0625	0.0391	NM	1.16E+01	5.56E+00	120	7	7
13.96657	5.12	2050.9	2051.1	0.25	0.8	0.0629	0.0382	NM	1.16E+01	5.59E+00	120	7	7
14.04036	5.99	2160.9	2161.1	0.28	0.85	0.064	0.0391	NM	1.17E+01	5.62E+00	120	7	7
14.11215	5.92	2218.1	2218.3	0.27	0.9	0.0618	0.0382	NM	1.18E+01	5.65E+00	120	7	7
14.19762	8.18	2262.7	2263	0.36	1.56	0.0593	0.034	NM	1.18E+01	5.68E+00	120	7	7
14.27267	9.67	2302.3	2302.6	0.42	1.41	0.0584	0.0339	NM	1.19E+01	5.71E+00	120	7	7
14.34331	8.89	2347.9	2348.1	0.38	1.46	0.0597	0.034	NM	1.20E+01	5.74E+00	120	7	7
14.41515	8.45	2344.9	2345.2	0.36	1.51	0.0597	0.034	NM	1.20E+01	5.77E+00	120	7	7
14.491	8.09	2406.6	2406.8	0.34	1.41	0.0608	0.0347	NM	1.21E+01	5.80E+00	120	7	7
14.56886	8.07	2466.7	2467	0.33	1.41	0.0598	0.0343	NM	1.21E+01	5.83E+00	120	7	7
14.6395	8.22	2569.5	2569.7	0.32	1.21	0.0583	0.0318	NM	1.22E+01	5.86E+00	120	7	7
14.71174	8.11	2626.7	2627	0.31	1.11	0.058	0.0317	NM	1.23E+01	5.89E+00	120	7	7
14.78358	7.37	2629.7	2629.8	0.28	0.56	0.0606	0.0321	NM	1.23E+01	5.91E+00	120	7	7
14.85783	6.87	2613.5	2613.6	0.26	0.06	0.0603	0.0316	NM	1.24E+01	5.94E+00	120	7	7
14.93247	6.71	2557.8	2557.7	0.26	-0.24	0.0616	0.0329	NM	1.24E+01	5.97E+00	120	7	7
15.01033	6.58	2535.7	2535.7	0.26	-0.19	0.0615	0.0328	NM	1.25E+01	6.00E+00	120	7	7
15.08177	6.21	2529.9	2529.8	0.25	-0.14	0.0548	0.0269	NM	1.26E+01	6.03E+00	120	7	7
15.15642	5.98	2516.7	2516.6	0.24	-0.14	0.0262	0.0026	NM	1.26E+01	6.06E+00	120	7	7
15.23027	5.84	2499	2499	0.23	-0.14	0.026	0.0017	NM	1.27E+01	6.09E+00	120	7	7
15.30251	5.69	2446.2	2446.2	0.23	-0.19	0.0251	0.0015	NM	1.28E+01	6.12E+00	120	7	7
15.37756	4.96	2441.8	2441.8	0.2	-0.14	0.0252	0.0011	NM	1.28E+01	6.15E+00	120	7	7
15.45462	4.47	2438.9	2438.8	0.18	-0.19	0.0258	0.0009	NM	1.29E+01	6.18E+00	120	7	7
15.52525	4.17	2406.6	2406.5	0.17	-0.24	0.0245	0.0018	NM	1.29E+01	6.21E+00	120	7	7
15.6003	4.02	2391.9	2391.9	0.17	-0.19	0.0263	0.0011	NM	1.30E+01	6.24E+00	120	7	7
15.67214	3.96	2336.1	2336.1	0.17	-0.24	0.0271	0.0015	NM	1.31E+01	6.27E+00	120	7	7
15.74519	4.02	2243.6	2243.6	0.18	-0.24	0.0277	0.0007	NM	1.31E+01	6.30E+00	120	7	7
15.82104	3.84	2182	2182	0.18	-0.19	0.0296	0.0007	NM	1.32E+01	6.33E+00	120	7	7
15.89609	3.83	2098.3	2098.3	0.17	-0.19	0.0282	0.0007	NM	1.33E+01	6.36E+00	120	7	7
15.96833	3.62	2000	1999.9	0.18	-0.24	0.0284	0.0009	NM	1.33E+01	6.39E+00	120	7	7

16.04378	3.57	1929.5	1929.5	0.18	-0.24	0.0289	0.0019	NM	1.34E+01	6.42E+00	120	7	7
16.11642	3.61	1891.3	1891.3	0.19	-0.24	0.0322	0.0017	NM	1.34E+01	6.45E+00	120	7	7
16.18907	3.73	1867.9	1867.8	0.2	-0.19	0.0314	0.0011	NM	1.35E+01	6.48E+00	120	7	7
16.26492	3.85	1832.6	1832.6	0.21	-0.24	0.0362	0.0048	NM	1.36E+01	6.51E+00	120	7	7
16.33917	4.3	1820.9	1820.8	0.24	-0.24	0.0486	0.0177	NM	1.36E+01	6.54E+00	120	7	7
16.4082	4.57	1822.4	1822.3	0.25	-0.24	0.054	0.0246	NM	1.37E+01	6.56E+00	120	7	7
16.48285	4.57	1835.6	1835.5	0.25	-0.34	0.0651	0.0394	NM	1.37E+01	6.59E+00	120	7	7
16.55589	4.38	1876.7	1876.6	0.23	-0.19	0.0674	0.041	NM	1.38E+01	6.62E+00	120	7	7
16.62893	4.81	1913.4	1913.3	0.25	-0.24	0.0667	0.04	NM	1.39E+01	6.65E+00	120	7	7
16.70436	5.21	1957.4	1957.3	0.27	-0.34	0.0684	0.0409	NM	1.39E+01	6.68E+00	120	7	7
16.77783	5.65	2086.6	2086.5	0.27	-0.34	0.0682	0.0412	NM	1.40E+01	6.71E+00	120	7	7
16.85127	6.34	2258.3	2258.3	0.28	-0.34	0.0682	0.0412	NM	1.40E+01	6.74E+00	120	7	7
16.92512	6.75	2430.1	2430	0.28	-0.34	0.069	0.0415	NM	1.41E+01	6.77E+00	120	7	7
16.99816	7.21	2528.4	2528.3	0.29	-0.34	0.0651	0.0363	NM	1.42E+01	6.80E+00	120	7	7
17.07281	7.21	2619.4	2619.3	0.28	-0.39	0.0665	0.038	NM	1.42E+01	6.83E+00	120	7	7
17.14465	7.24	2695.7	2695.7	0.27	-0.44	0.0654	0.0384	NM	1.43E+01	6.86E+00	120	7	7
17.2193	7.41	2745.7	2745.6	0.27	-0.44	0.0652	0.0373	NM	1.44E+01	6.89E+00	120	7	7
17.29235	7.93	2773.5	2773.4	0.29	-0.49	0.0647	0.0369	NM	1.44E+01	6.92E+00	120	7	7
17.36659	8.25	2791.2	2791.1	0.3	-0.44	0.0638	0.0356	NM	1.45E+01	6.95E+00	120	7	7
17.43843	8.86	2783.8	2783.7	0.32	-0.49	0.0649	0.0358	NM	1.45E+01	6.98E+00	120	7	7
17.51463	8.91	2794.1	2794.2	0.32	0.36	0.0647	0.0356	NM	1.46E+01	7.01E+00	120	7	7
17.5856	9.56	2822	2822	0.34	0.26	0.0643	0.0357	NM	1.47E+01	7.03E+00	120	7	7
17.65817	10.42	2852.8	2852.8	0.37	0.21	0.0647	0.0362	NM	1.47E+01	7.06E+00	120	7	7
17.73436	10.45	2913	2913	0.36	0.26	0.0654	0.0363	NM	1.48E+01	7.09E+00	120	7	7
17.81054	11.03	2967.3	2967.3	0.37	0.26	0.0663	0.037	NM	1.48E+01	7.12E+00	120	7	7
17.88271	11.59	3045.1	3045.2	0.38	0.31	0.0648	0.0345	NM	1.49E+01	7.15E+00	120	7	7
17.95448	11.38	3115.6	3115.6	0.37	0.31	0.0647	0.0339	NM	1.50E+01	7.18E+00	120	7	7
18.02705	11.16	3218.3	3218.4	0.35	0.36	0.0647	0.0342	NM	1.50E+01	7.21E+00	120	7	7
18.09842	11.17	3353.3	3353.4	0.33	0.36	0.0125	0.0128	NM	1.51E+01	7.24E+00	120	7	7
18.17541	11.85	3438.5	3438.6	0.34	0.36	0.008	0.0018	NM	1.52E+01	7.27E+00	120	7	7
18.25159	14.75	3489.9	3489.9	0.42	0.41	0.0083	0.0011	NM	1.52E+01	7.30E+00	120	7	7
18.32576	28.29	3572.1	3572.2	0.79	0.46	0.0127	0.0019	NM	1.53E+01	7.33E+00	120	6	7
18.39794	32.7	3748.2	3748.3	0.87	0.56	0.0517	0.0277	NM	1.53E+01	7.36E+00	120	6	7
18.47131	28.55	3999.2	3999.3	0.71	0.56	0.0726	0.0435	NM	1.54E+01	7.39E+00	120	7	7
18.54228	20.87	4379.4	4379.5	0.48	0.66	0.0727	0.0433	NM	1.55E+01	7.42E+00	120	7	7
18.61605	21.33	5197	5197.2	0.41	0.86	0.0727	0.0435	NM	1.55E+01	7.45E+00	120	7	7
18.69184	34.8	5891.3	5891.4	0.59	0.61	0.0736	0.0436	NM	1.56E+01	7.48E+00	120	7	7
18.7632	50.6	6425.6	6425.7	0.79	0.61	0.0745	0.0439	NM	1.56E+01	7.51E+00	120	7	7
18.83537	47.58	7318.1	7318.2	0.65	0.71	0.0768	0.0438	NM	1.57E+01	7.53E+00	120	7	7
18.89953	52.66	8084.3	8084.3	0.65	0.01	0.0775	0.044	NM	1.58E+01	7.56E+00	120	-99	-99
18.94443	50.8	7780.5	7780.7	0.65	1.26	0.0782	0.0439	NM	1.58E+01	7.58E+00	120	-99	-99
18.98293	48.18	7912.6	7912.8	0.61	1.16	0.0797	0.0437	NM	1.58E+01	7.59E+00	120	-99	-99
19.02062	49.48	7497.2	7497.6	0.66	2.3	0.084	0.0454	NM	1.59E+01	7.61E+00	120	7	7
19.05871	57.61	7279.9	7282.4	0.79	13.04	0.0759	0.0384	NM	1.59E+01	7.62E+00	120	7	7
19.0964	58.62	6851.3	6852.7	0.86	7.45	0.0715	0.0324	NM	1.59E+01	7.64E+00	120	7	7
19.13248	66.05	6504.9	6506.1	1.02	6.05	0.0775	0.0314	NM	1.59E+01	7.65E+00	120	6	7
19.16817	72.54	6287.6	6287.8	1.15	0.91	0.0729	0.029	NM	1.60E+01	7.67E+00	120	6	7
19.20385	75.28	6390.4	6390.5	1.18	0.81	0.0595	0.0225	NM	1.60E+01	7.68E+00	120	6	7
19.23874	89.2	6521	6521.2	1.37	1.01	0.0382	0.0123	NM	1.60E+01	7.70E+00	120	6	7
19.27602	82.15	6653.1	6653.3	1.23	1.06	0.0328	0.0067	NM	1.61E+01	7.71E+00	120	6	7
19.30971	71.86	6820.5	6820.7	1.05	1.11	0.0311	0.0036	NM	1.61E+01	7.72E+00	120	6	7
19.34459	66.93	6717.7	6718.2	1	2.5	0.0297	0.0017	NM	1.61E+01	7.74E+00	120	6	7

19.37987	73.28	6728	6728.8	1.09	3.9	0.032	0.0018	NM	1.62E+01	7.75E+00	120	6	7
19.41515	69.89	6331.7	6333.3	1.1	8.45	0.0237	0.0013	NM	1.62E+01	7.77E+00	120	6	7
19.44843	81.27	6319.9	6320.9	1.29	5	0.0099	0.0004	NM	1.62E+01	7.78E+00	120	6	7
19.48572	76.81	6184.9	6185.6	1.24	3.55	0.0148	0.0015	NM	1.62E+01	7.79E+00	120	6	7
19.5202	74.97	6214.2	6214.5	1.21	1.21	0.0142	0.0012	NM	1.63E+01	7.81E+00	120	6	7
19.55589	74.5	6110	6110.4	1.22	2.05	0.011	0.0002	NM	1.63E+01	7.82E+00	120	6	7
19.58877	69.54	6127.6	6128.3	1.13	3.65	0.0091	0.0006	NM	1.63E+01	7.84E+00	120	6	7
19.62325	67.31	6312.6	6313.2	1.07	3.2	0.0083	0.0008	NM	1.64E+01	7.85E+00	120	6	7
19.65573	70.53	6449.1	6449.4	1.09	1.8	0.0083	0.0009	NM	1.64E+01	7.86E+00	120	6	7
19.6874	89	6224.5	6224.9	1.11	2	0.0086	0.001	NM	1.64E+01	7.88E+00	120	6	7
19.72429	65.82	5895.7	5896.2	1.12	2.65	0.0082	0.0012	NM	1.64E+01	7.89E+00	120	6	7
19.75877	61.33	5314.4	5314.8	1.15	0.81	0.0065	0.0013	NM	1.65E+01	7.90E+00	120	6	7
19.79406	57.28	5204.3	5204.8	1.1	2.5	0.0058	0.0007	NM	1.65E+01	7.92E+00	120	6	7
19.82934	53.51	5122.1	5123	1.04	4.4	0.0053	0.0002	NM	1.65E+01	7.93E+00	120	6	7
19.86422	52.01	5069.3	5069.7	1.03	2.3	0.0046	0.0004	NM	1.66E+01	7.95E+00	120	6	7
19.90031	56.21	5160.3	5160.6	1.09	1.76	0.0064	0.0007	NM	1.66E+01	7.96E+00	120	6	7
19.93559	54.55	5091.3	5091.8	1.07	1.56	0.0072	0.0009	NM	1.66E+01	7.97E+00	120	6	7
19.97208	48.59	4966.6	4966.8	0.98	1.11	0.005	0.0009	NM	1.66E+01	7.99E+00	120	6	7
20.00696	38.53	4969.5	4969.8	0.78	1.56	0.0022	0.0007	NM	1.67E+01	8.00E+00	120	7	7
20.04345	37.98	4943.1	4943.3	0.77	1.46	0.0004	0.0008	NM	1.67E+01	8.02E+00	120	7	7
20.07673	37.62	5020.9	5021.4	0.75	2.9	0.0019	0.0014	NM	1.67E+01	8.03E+00	120	7	7
20.11322	35.75	5097.2	5097.7	0.7	2.45	0.0048	0.0016	NM	1.68E+01	8.05E+00	120	7	7
20.15011	33.46	4819.8	4820.4	0.69	3.15	0.0069	0.0014	NM	1.68E+01	8.06E+00	120	7	7
20.18499	32.86	4659.8	4660.6	0.71	4.6	0.0049	0.0011	NM	1.68E+01	8.07E+00	120	7	7
20.22027	32.01	4521.8	4522.8	0.71	5.15	0.0049	0.0011	NM	1.69E+01	8.09E+00	120	7	7
20.25636	33.74	4480.7	4481	0.75	1.9	0.0062	0.0015	NM	1.69E+01	8.10E+00	120	7	7
20.29124	38.63	4377.9	4378.6	0.88	3.55	0.0253	0.0015	NM	1.69E+01	8.12E+00	120	6	7
20.32813	49.75	4351.5	4352.1	1.14	2.95	0.0317	0.0015	NM	1.69E+01	8.13E+00	120	6	7
20.36381	61.55	4297.2	4297.8	1.43	3	0.0114	0.0015	NM	1.70E+01	8.15E+00	120	6	7
20.3999	69.45	4223.8	4224.4	1.64	3.1	0.005	0.0014	NM	1.70E+01	8.16E+00	120	6	7
20.43599	77.23	4212.1	4212.8	1.83	3.8	0.0054	0.0013	NM	1.70E+01	8.17E+00	120	6	7
20.47247	77.69	4216.5	4217.4	1.84	4.8	0.0056	0.0015	NM	1.71E+01	8.19E+00	120	6	7
20.50735	71.05	4231.1	4232	1.68	4.4	0.0058	0.0017	NM	1.71E+01	8.20E+00	120	6	7
20.54424	65.1	4298.7	4299.6	1.51	4.75	0.0058	0.0017	NM	1.71E+01	8.22E+00	120	6	7
20.57873	60.17	4391.1	4392.1	1.37	5.05	0.0059	0.0017	NM	1.72E+01	8.23E+00	120	6	7
20.61321	55.52	4539.4	4540.4	1.22	5.45	0.0061	0.0014	NM	1.72E+01	8.25E+00	120	6	7
20.64609	51.26	4742	4743.1	1.08	6.05	0.0063	0.0013	NM	1.72E+01	8.26E+00	120	6	7
20.68097	47.75	4982.7	4984	0.98	6.9	0.0065	0.0011	NM	1.72E+01	8.27E+00	120	6	7
20.71224	45.55	5191.1	5192.5	0.88	7.3	0.0067	0.0009	NM	1.73E+01	8.29E+00	120	6	7
20.8016	86.02	5983.4	5986.1	1.44	13.98	0.0073	0.0003	NM	1.73E+01	8.32E+00	120	6	7
20.86891	90.48	5879.2	5880.3	1.54	5.79	0.0077	0.0001	NM	1.74E+01	8.35E+00	120	6	7
20.94023	73.43	6058.3	6060.4	1.21	11.03	0.0095	0	NM	1.75E+01	8.38E+00	120	6	7
21.01115	62.43	6675	6676.1	0.94	6.09	0.0112	0.0003	NM	1.75E+01	8.40E+00	120	6	7
21.07385	57.82	6175.8	6175.7	0.94	-0.36	0.0132	0.0006	NM	1.76E+01	8.43E+00	120	6	7
21.11252	55.77	4650.3	4650.4	1.2	0.64	0.0159	0.0008	NM	1.76E+01	8.45E+00	120	6	7
21.15178	48.47	4472.6	4472.7	1.08	0.89	0.0178	0.0009	NM	1.76E+01	8.46E+00	120	6	7
21.20026	39.56	4563.6	4563.7	0.87	0.49	0.0189	0.0013	NM	1.77E+01	8.48E+00	120	6	7
21.24914	34.62	4779.5	4779.8	0.72	0.74	0.0165	0.0012	NM	1.77E+01	8.50E+00	120	7	7
21.29963	42.15	4901.3	4901.5	0.86	0.84	0.0155	0.0008	NM	1.78E+01	8.52E+00	120	6	7
21.34851	37.27	5034.9	5035.1	0.74	0.84	0.0155	0.0005	NM	1.78E+01	8.54E+00	120	7	7
21.3998	29.33	4717.8	4717.9	0.62	0.59	0.0172	0.0013	NM	1.78E+01	8.56E+00	120	7	7
21.45088	28.28	4648.8	4649	0.61	0.99	0.0152	0.0007	NM	1.79E+01	8.58E+00	120	7	7

21.50397	30.02	4650.3	4650.5	0.65	1.04	0.0138	0.0005	NM	1.79E+01	8.60E+00	120	7	7
21.55606	28.06	4791.2	4791.4	0.59	1.04	0.0159	0.0017	NM	1.80E+01	8.62E+00	120	7	7
21.61415	25.06	4572.4	4572.7	0.55	1.14	0.014	0.0007	NM	1.80E+01	8.65E+00	120	7	7
21.66343	24.57	4478.5	4478.7	0.55	1.24	0.0135	0.0008	NM	1.81E+01	8.67E+00	120	7	7
21.71392	24.85	4615	4615.3	0.53	1.39	0.0135	0.0009	NM	1.81E+01	8.69E+00	120	7	7
21.7648	24.59	4678.2	4678.4	0.53	1.39	0.0135	0.0011	NM	1.81E+01	8.71E+00	120	7	7
21.81609	25.31	4369.8	4370.2	0.58	2.04	0.0134	0.0014	NM	1.82E+01	8.73E+00	120	7	7
21.86737	26.52	4383	4383.5	0.6	2.49	0.0191	0.0055	NM	1.82E+01	8.75E+00	120	7	7
21.92066	25.05	4419.7	4420.2	0.57	2.44	0.0648	0.0363	NM	1.83E+01	8.77E+00	120	7	7
21.97475	23.49	4472.8	4473	0.53	2.24	0.0748	0.0428	NM	1.83E+01	8.79E+00	120	7	7
22.03044	24.14	4554.8	4555.3	0.53	2.44	0.0754	0.043	NM	1.84E+01	8.81E+00	120	7	7
22.08173	22.87	4620.9	4621.4	0.49	2.49	0.0762	0.0432	NM	1.84E+01	8.83E+00	120	7	7
22.13462	20.02	4631.2	4631.6	0.43	2.19	0.0819	0.0447	NM	1.85E+01	8.85E+00	120	7	7
22.18911	17.85	4590.1	4590.5	0.39	2.29	0.0919	0.046	NM	1.85E+01	8.88E+00	120	7	7
22.24119	16.79	4566.6	4567	0.37	2.04	0.0976	0.0463	NM	1.85E+01	8.90E+00	120	7	7
22.29448	16.47	4330.2	4330.4	0.38	1.34	0.0878	0.0446	NM	1.86E+01	8.92E+00	120	7	7
22.34737	16.34	4359.5	4359.9	0.37	1.69	0.0937	0.0452	NM	1.86E+01	8.94E+00	120	7	7
22.40306	16.06	4300.8	4301.1	0.37	1.54	0.091	0.0451	NM	1.87E+01	8.96E+00	120	7	7
22.45996	18.14	4330.2	4330.5	0.42	1.84	0.0827	0.0444	NM	1.87E+01	8.98E+00	120	7	7
22.51285	15.59	4371.3	4371.7	0.36	1.94	0.0793	0.0439	NM	1.88E+01	9.01E+00	120	7	7
22.56854	15.02	4421.2	4421.6	0.34	2.04	0.0785	0.0439	NM	1.88E+01	9.03E+00	120	7	7
22.62704	14.77	4455	4455.4	0.33	2.04	0.0785	0.0436	NM	1.89E+01	9.05E+00	120	7	7
22.68553	14.09	4456.5	4456.8	0.32	1.84	0.0782	0.0432	NM	1.89E+01	9.07E+00	120	7	7
22.74563	13.38	4419.7	4420.1	0.3	1.74	0.0776	0.0431	NM	1.90E+01	9.10E+00	120	7	7
22.81094	12.62	4365.4	4365.7	0.29	1.44	0.0781	0.0432	NM	1.90E+01	9.12E+00	120	7	7
22.87425	12.03	4311.1	4311.4	0.28	1.64	0.0779	0.0432	NM	1.91E+01	9.15E+00	120	7	7
22.94196	11.56	4292	4292.3	0.27	1.64	0.0778	0.0434	NM	1.91E+01	9.18E+00	120	7	7
23.19839	9.77	4098.2	4098.4	0.24	1.24	0.0777	0.0429	NM	1.93E+01	9.28E+00	120	7	7
23.27211	10.06	4121.7	4121.9	0.24	1.24	0.0782	0.0428	NM	1.94E+01	9.31E+00	120	7	7
23.34463	10.03	4143.7	4144	0.24	1.24	0.0763	0.0429	NM	1.95E+01	9.34E+00	120	7	7
23.41755	10.23	4139.3	4139.5	0.25	1.19	0.0738	0.0423	NM	1.95E+01	9.37E+00	120	7	7
23.49127	10.21	4123.2	4123.4	0.25	1.14	0.0734	0.0424	NM	1.96E+01	9.40E+00	120	7	7
23.5642	9.8	4108.5	4108.7	0.24	1.14	0.0729	0.0427	NM	1.96E+01	9.43E+00	120	7	7
23.63471	10.06	4093.8	4094	0.25	1.09	0.0712	0.0426	NM	1.97E+01	9.45E+00	120	7	7
23.71004	10.24	4054.2	4054.4	0.25	1.04	0.0714	0.0426	NM	1.98E+01	9.48E+00	120	7	7
23.78256	10.31	4083.5	4083.7	0.25	1.14	0.072	0.0428	NM	1.98E+01	9.51E+00	120	7	7
23.85468	10.39	4134.9	4135.1	0.25	1.14	0.0734	0.0427	NM	1.99E+01	9.54E+00	120	7	7
23.9268	10.45	4212.7	4213	0.25	1.19	0.0743	0.0429	NM	1.99E+01	9.57E+00	120	7	7
23.99932	11.41	4228.9	4229.1	0.27	1.09	0.0749	0.0431	NM	2.00E+01	9.60E+00	120	7	7
24.23075	12.74	4414.6	4414.8	0.29	1.28	0.0745	0.043	NM	2.02E+01	9.69E+00	120	7	7
24.30177	12.51	4474.8	4474.9	0.28	0.68	0.0747	0.0432	NM	2.03E+01	9.72E+00	120	7	7
24.376	14.58	4521.8	4521.9	0.32	0.53	0.0752	0.0432	NM	2.03E+01	9.75E+00	120	7	7
24.45384	18.41	4577.6	4577.7	0.4	0.63	0.0759	0.0431	NM	2.04E+01	9.78E+00	120	7	7
24.52446	25.61	4452.8	4452.8	0.58	0.23	0.0761	0.0428	NM	2.04E+01	9.81E+00	120	7	7
24.59868	31.87	4621.7	4621.9	0.69	1.13	0.076	0.0429	NM	2.05E+01	9.84E+00	120	7	7
24.66609	31.33	4775.9	4776.1	0.68	0.93	0.0772	0.0431	NM	2.06E+01	9.87E+00	120	7	7
24.74113	31.46	4862.5	4862.7	0.65	0.73	0	0	NM	2.06E+01	9.90E+00	120	7	7
24.81576	27.87	5314.9	5315.2	0.52	2.03	0	0	NM	2.07E+01	9.93E+00	120	7	7
24.8932	28.79	5693.7	5694.5	0.51	3.83	0	0	NM	2.07E+01	9.96E+00	120	7	7
24.96181	31.86	5169.5	5169.6	0.62	0.48	0	0	NM	2.08E+01	9.99E+00	120	7	7
25.03644	37	5253.2	5253.3	0.7	0.63	0	0	NM	2.09E+01	1.00E+01	120	7	7
25.10887	41.54	5104.8	5104.9	0.81	0.48	0	0	NM	2.09E+01	1.00E+01	120	6	7

25.18249	32.51	5213.5	5213.8	0.62	0.43	0	0	NM	2.10E+01	1.01E+01	120	7	7
25.25672	38.32	5497	5497.3	0.7	1.93	0	0	NM	2.11E+01	1.01E+01	120	7	7
25.33216	44.3	5125.4	5125.5	0.86	0.48	0	0	NM	2.11E+01	1.01E+01	120	6	7
25.40197	38.74	4984.4	4984.5	0.78	0.33	0	0	NM	2.12E+01	1.02E+01	120	6	7
25.4766	41.25	5038.8	5038.9	0.82	0.63	0	0	NM	2.12E+01	1.02E+01	120	6	7
25.54843	44.05	5368.2	5369.3	0.82	0.68	0	0	NM	2.13E+01	1.02E+01	120	6	7
25.62266	37.71	4770	4770.1	0.79	0.43	0	0	NM	2.14E+01	1.03E+01	120	6	7
25.69689	31.34	4620.2	4620.7	0.68	2.63	0	0	NM	2.14E+01	1.03E+01	120	6	7
25.77232	28.76	4749.4	4749.6	0.61	0.78	0	0	NM	2.15E+01	1.03E+01	120	7	7
25.84294	23.58	4184	4184.1	0.56	0.63	0	0	NM	2.15E+01	1.03E+01	120	7	7
25.91837	19.26	4275.1	4275.2	0.45	0.78	0	0	NM	2.16E+01	1.04E+01	120	7	7
25.9906	16.85	4317.7	4318.2	0.39	2.93	0	0	NM	2.17E+01	1.04E+01	120	7	7
26.06362	17.86	4673.1	4673.6	0.38	3.73	0	0	NM	2.17E+01	1.04E+01	120	7	7
26.13705	21.41	5019.7	5020.6	0.43	4.73	0	0	NM	2.18E+01	1.05E+01	120	7	7
26.21128	24.71	5378	5379.1	0.46	5.77	0	0	NM	2.18E+01	1.05E+01	120	7	7
26.27909	28.55	5529.3	5530.4	0.48	5.67	0	0	NM	2.19E+01	1.05E+01	120	7	7
26.35171	25.28	5679.1	5680.1	0.44	5.28	0	0	NM	2.20E+01	1.05E+01	120	7	7
26.42434	23.97	5595.4	5596.3	0.43	4.78	0	0	NM	2.20E+01	1.06E+01	120	7	7
26.49817	28.86	5467.6	5467.9	0.53	1.73	0	0	NM	2.21E+01	1.06E+01	120	7	7
26.57119	37.77	5395.6	5396.3	0.7	3.58	0	0	NM	2.21E+01	1.06E+01	120	7	7
26.64422	38.1	5392.7	5393.3	0.71	2.98	0	0	NM	2.22E+01	1.07E+01	120	7	7
26.71765	0	5358.9	5359.6	0	3.48	0	0	NM	2.23E+01	1.07E+01	120	-99	7
26.79148	0	5429.4	5429.9	0	2.83	0	0	NM	2.23E+01	1.07E+01	120	-99	7
26.8645	0	4937.4	4937.8	0	2.03	0	0	NM	2.24E+01	1.08E+01	120	-99	7
26.93913	0	5104.8	5105.2	0	2.08	0	0	NM	2.25E+01	1.08E+01	120	-99	7
27.01015	0	5099	5099.7	0	3.98	0	0	NM	2.25E+01	1.08E+01	120	-99	7
27.06231	0	3897.6	3897.7	0	0.13	0	0	NM	2.26E+01	1.08E+01	120	-99	7

Electric Cone Penetrometer Data

Cone_TAP v 2.90

Test Id: HD-13 Date: 3-Nov-03

Site: SUNNYSIDE Cone Id: 108.021XXX

Location: QUEENS NY

Project: ROUX Soil Density(pcf): 120

Client: ROUX

Depth (ft)	Sleeve Stress (psi)	Tip Stress UNC (psi)	Tip Stress COR (psi)	Ratio COR (%)	Pore Pressure (psi)	LFFD (V)	HFFD (V)	Excitation (Vdc)	Overburden (psi)	Eff. Overburden (psi)	Wet Density (pcf)	Class. FR (Rob. 1990)	Class. PP (Rob. 1990)
0	0	0	0	0	0	0	0	0.997	0.00E+00	0.00E+00	120	-99	-99
0.16587	0	-120.9	-120.9	0	-0.04	0.0506	0.0091	0.997	1.38E-01	6.64E-02	120	-99	-99
0.22077	0	-122.3	-122.3	0	-0.04	0.0441	0.0072	0.997	1.84E-01	8.83E-02	120	-99	-99
0.27325	-0.26	-121.6	-121.6	0.22	-0.02	0.0389	0.0057	0.998	2.28E-01	1.09E-01	120	-99	-99
0.32775	-0.24	-121.6	-121.6	0.2	-0.02	0.034	0.0046	0.998	2.73E-01	1.31E-01	120	-99	-99
0.38183	-0.23	-119.5	-119.5	0.19	-0.04	0.0293	0.0046	0.997	3.18E-01	1.53E-01	120	-99	-99
0.43673	-0.24	-121.6	-121.6	0.2	-0.07	0.0277	0.0041	0.998	3.64E-01	1.75E-01	120	-99	-99
0.49122	-0.21	-118.8	-118.8	0.18	-0.02	0.0275	0.0039	0.997	4.09E-01	1.97E-01	120	-99	-99
0.54731	-0.24	-119.5	-119.5	0.2	-0.04	0.0272	0.0039	0.997	4.56E-01	2.19E-01	120	-99	-99
0.60501	-0.23	-120.2	-120.2	0.19	-0.02	0.0239	0.002	0.997	5.04E-01	2.42E-01	120	-99	-99
0.65829	-0.24	-119.5	-119.5	0.2	-0.04	0.0242	0.0025	0.997	5.49E-01	2.63E-01	120	-99	-99
0.71359	-0.26	-118.1	-118.1	0.22	-0.04	0.0235	0.0031	0.997	5.95E-01	2.85E-01	120	-99	-99
0.76727	-0.25	-119.5	-119.5	0.21	-0.04	0.0214	0.0032	0.997	6.39E-01	3.07E-01	120	-99	-99
0.82417	-0.25	-121.6	-121.6	0.21	-0.07	0.0175	0.0026	0.998	6.87E-01	3.30E-01	120	-99	-99
0.87586	-0.23	-120.2	-120.2	0.19	-0.07	0.0172	0.0023	0.998	7.30E-01	3.50E-01	120	-99	-99
0.93195	-0.08	-120.9	-120.9	0.07	-0.04	0.0158	0.0026	0.997	7.77E-01	3.73E-01	120	-99	-99
0.98804	0.13	-121.6	-121.6	-0.11	-0.07	0.0116	0.0018	0.998	8.23E-01	3.95E-01	120	-99	-99
1.04534	0.91	-122.3	-122.3	-0.74	-0.04	0.0041	0.0008	0.997	8.71E-01	4.18E-01	120	-99	-99
1.09943	0.49	-119.5	-119.5	-0.41	-0.04	0.004	0.0018	0.997	9.16E-01	4.40E-01	120	-99	-99
1.15552	0.28	-116.8	-116.8	-0.24	0	0.0032	0.0016	0.997	9.63E-01	4.62E-01	120	-99	-99
1.21081	-0.05	-114.7	-114.7	0.05	-0.07	0.0028	0.0016	0.998	1.01E+00	4.84E-01	120	-99	-99
1.26811	0	-95.4	-95.4	0	-0.07	0.0037	0.0022	0.998	1.06E+00	5.07E-01	120	-99	-99
1.3242	0.71	-106.4	-106.4	-0.66	-0.03	0.0033	0.0016	0.998	1.10E+00	5.30E-01	120	-99	-99
1.3827	0.58	-120.9	-120.9	-0.48	0.09	0.0031	0.0017	0.997	1.15E+00	5.53E-01	120	-99	-99
1.43879	3.56	-93.9	-93.9	-3.79	0.12	0.0032	0.0021	0.997	1.20E+00	5.76E-01	120	-99	-99
1.49368	2.97	-24.2	-24.2	-12.26	0.04	0.0037	0.0024	0.998	1.25E+00	5.98E-01	120	-99	-99
1.54817	2.2	108.5	108.5	2.03	0	0.0033	0.0019	0.997	1.29E+00	6.19E-01	120	6	7
1.60867	1.19	100.2	100.1	1.19	-0.13	0.0038	0.002	0.997	1.34E+00	6.44E-01	120	6	6
1.66116	0.26	51.1	51.1	0.51	0.07	0.004	0.0024	0.998	1.38E+00	6.65E-01	120	6	6
1.71966	1.27	86.4	86.4	1.48	-0.04	0.0032	0.0028	0.997	1.43E+00	6.88E-01	120	6	6
1.78897	1.53	63.6	63.6	2.41	0.12	0.0063	0.003	0.997	1.49E+00	7.16E-01	120	5	6
1.86791	3.67	82.1	82.1	4.46	0.04	0.0053	0.003	0.998	1.56E+00	7.47E-01	120	9	6
1.94203	3.16	35.2	35.3	8.96	0.09	0.0045	0.0025	0.997	1.62E+00	7.77E-01	120	3	6
2.00734	2.22	49.7	49.7	4.46	0.11	0.0053	0.0029	0.998	1.67E+00	8.03E-01	120	4	6
2.07064	0.99	98.8	98.8	1	0.14	0.0076	0.0038	0.997	1.73E+00	8.28E-01	120	6	6
2.14317	0.71	103.6	103.6	0.68	0.07	0.0075	0.0043	0.998	1.79E+00	8.57E-01	120	6	6
2.21088	0.82	24.8	24.8	3.31	0.07	0.0073	0.0046	0.998	1.84E+00	8.84E-01	120	4	5
2.27819	1.69	31.8	31.9	5.3	0.21	0.0077	0.0043	0.997	1.90E+00	9.11E-01	120	3	6
2.3435	0.96	117.4	117.4	0.82	0.16	0.0078	0.0039	0.998	1.95E+00	9.37E-01	120	6	6

2.41041	1.29	54.6	54.6	2.37	0.14	0.0078	0.0046	0.997	2.01E+00	9.64E-01	120	5	6
2.47652	5	26.2	26.3	19.06	0.2	0.0079	0.0062	0.998	2.06E+00	9.91E-01	120	-99	5
2.54664	8.14	72.8	72.8	11.19	0.68	0.0097	0.0044	0.997	2.12E+00	1.02E+00	120	9	6
2.61715	8.89	-47	-46.9	-18.95	0.25	0.0081	0.0049	0.997	2.18E+00	1.05E+00	120	-99	-99
2.68408	9.75	74.7	74.7	13.05	0.39	0.0067	0.004	0.997	2.25E+00	1.08E+00	120	9	6
2.7654	9.98	202.3	202.3	4.94	-0.18	0.0089	0.0031	0.998	2.31E+00	1.11E+00	120	9	7
2.83672	14.35	301.9	301.9	4.75	-0.08	0.0067	0.0034	0.997	2.36E+00	1.14E+00	120	9	7
2.90884	17.26	351.7	351.7	4.91	0.09	0.0073	0.0042	0.997	2.42E+00	1.16E+00	120	9	7
2.98336	16.5	386.8	386.9	4.27	0.47	0.0073	0.0037	0.998	2.49E+00	1.19E+00	120	8	7
3.04867	9.52	352.2	352.3	2.7	0.07	0.0072	0.0029	0.998	2.54E+00	1.22E+00	120	8	7
3.12365	3.81	416.4	416.4	0.91	0.18	0.0072	0.0022	0.997	2.60E+00	1.25E+00	120	6	7
3.19502	1.19	208.6	208.7	0.57	0.69	0.0087	0.0025	0.997	2.66E+00	1.28E+00	120	6	6
3.23752	1.17	107.6	107.8	1.08	0.91	0.009	0.0025	0.997	2.70E+00	1.30E+00	120	6	6
3.28804	2.16	-33.9	-33.6	-6.44	1.56	0.0133	0.0023	0.997	2.74E+00	1.32E+00	120	-99	-99
3.34097	4.51	-105	-104.5	-4.31	2.34	0.0139	0.0024	0.997	2.78E+00	1.34E+00	120	-99	-99
3.41795	5.25	-35.2	-34.4	-15.27	4.27	0.0103	0.0016	0.997	2.85E+00	1.37E+00	120	-99	-99
3.48491	2.9	24.9	25.7	11.28	4.03	0.0107	0.0019	0.997	2.90E+00	1.39E+00	120	3	4
3.55748	1.3	63.5	63.9	2.04	1.76	0.0111	0.0019	0.997	2.97E+00	1.42E+00	120	5	6
3.63286	1.1	150.7	150.8	0.73	-0.5	0.0116	0.0018	0.997	3.03E+00	1.45E+00	120	6	6
3.70904	0.99	214.2	214.1	0.46	-0.68	0.0121	0.0017	0.997	3.09E+00	1.48E+00	120	6	6
3.78402	0.87	243.7	243.5	0.36	-1.38	0.012	0.0019	0.997	3.15E+00	1.51E+00	120	6	6
3.8602	0.82	256.2	255.9	0.32	-1.33	0.015	0.0017	0.997	3.22E+00	1.54E+00	120	6	6
3.93639	0.78	256.9	256.7	0.3	-1.13	0.0177	0.0019	0.997	3.28E+00	1.58E+00	120	6	6
4.01177	0.67	243	242.7	0.28	-1.31	0.019	0.0017	0.997	3.34E+00	1.61E+00	120	6	6
4.08594	0.62	243.9	243.6	0.25	-1.2	0.0149	0.0017	0.997	3.41E+00	1.63E+00	120	6	6
4.16413	0.69	239.7	239.5	0.29	-1.11	0.0135	0.0023	0.997	3.47E+00	1.67E+00	120	6	6
4.2383	0.51	224.4	224.2	0.23	-1.07	0.0132	0.0022	0.997	3.53E+00	1.70E+00	120	6	6
4.31408	0.43	200.4	200.5	0.21	0.18	0.014	0.0026	0.997	3.60E+00	1.73E+00	120	6	6
4.38946	0.57	197.7	197.8	0.29	0.56	0.0153	0.0026	0.997	3.66E+00	1.76E+00	120	6	6
4.46524	0.33	180.3	180.4	0.18	0.67	0.0133	0.0025	0.997	3.72E+00	1.79E+00	120	6	6
4.53942	0.18	164.5	164.6	0.11	0.7	0.0167	0.0032	0.997	3.78E+00	1.82E+00	120	6	6
4.61034	0.2	136.7	136.8	0.15	0.56	0.0114	0.0027	0.997	3.84E+00	1.84E+00	120	6	6
4.68607	0.13	118	118.2	0.11	0.67	0.0139	0.0027	0.997	3.91E+00	1.87E+00	120	6	6
4.75899	0.07	98	98.1	0.07	0.68	0.0116	0.003	0.997	3.97E+00	1.90E+00	120	-99	6
4.83912	0.11	82.2	82.4	0.14	0.8	0.0146	0.0029	0.996	4.03E+00	1.94E+00	120	6	6
4.91525	0.18	65	65.2	0.28	0.92	0.014	0.0028	0.996	4.10E+00	1.97E+00	120	5	6
4.99138	0.2	41.3	41.5	0.49	0.86	0.0102	0.0017	0.997	4.16E+00	2.00E+00	120	5	5
5.0635	0.35	25.6	25.8	1.35	0.94	0.0099	0.0023	0.996	4.22E+00	2.03E+00	120	4	4
5.13782	0.35	-2.9	-2.7	-12.87	0.86	0.0095	0.0016	0.997	4.28E+00	2.06E+00	120	-99	-99
5.21134	0.4	-24.2	-24	-1.68	0.98	0.0095	0.002	0.996	4.34E+00	2.09E+00	120	-99	-99
5.28907	0.39	-44.9	-44.7	-0.87	1.12	0.0102	0.0025	0.996	4.41E+00	2.12E+00	120	-99	-99
5.49101	0.55	-68.4	-68.1	-0.8	1.57	0.0117	0.0026	0.996	4.58E+00	2.20E+00	120	-99	-99
5.52186	0.56	-73.2	-72.7	-0.77	2.61	0.012	0.0025	0.996	4.60E+00	2.21E+00	120	-99	-99
5.55191	0.6	-74.6	-73.9	-0.81	3.85	0.0122	0.0023	0.996	4.63E+00	2.22E+00	120	-99	-99
5.58396	0.58	-80.2	-79.3	-0.73	4.6	0.0124	0.0019	0.997	4.65E+00	2.23E+00	120	-99	-99
5.61441	0.64	-80.2	-79.1	-0.81	5.67	0.0132	0.0023	0.997	4.68E+00	2.25E+00	120	-99	-99
5.67612	0.73	-83.6	-82.2	-0.89	7.03	0.0138	0.0019	0.996	4.73E+00	2.27E+00	120	-99	-99
5.70737	0.75	-84.3	-83	-0.9	6.74	0.0132	0.0019	0.997	4.76E+00	2.28E+00	120	-99	-99
5.73902	0.8	-83.6	-82.5	-0.97	5.87	0.0123	0.0022	0.996	4.78E+00	2.30E+00	120	-99	-99
5.78947	0.81	-84.3	-83	-0.98	8.61	0.0095	0.002	0.996	4.81E+00	2.31E+00	120	-99	-99
5.80152	0.81	-84.3	-83.1	-0.98	8.03	0.0074	0.0021	0.996	4.84E+00	2.32E+00	120	-99	-99
5.86242	0.8	-87.7	-86.5	-0.92	6.28	0.0064	0.0022	0.996	4.89E+00	2.35E+00	120	-99	-99

6.08199	0.99	-91.8	-91.1	-1.08	3.79	0.0039	0.0017	0.996	5.07E+00	2.43E+00	120	-99	-99
6.12286	1	-94	-93.1	-1.07	4.29	0.0041	0.0021	0.997	5.10E+00	2.45E+00	120	-99	-99
6.16733	1.1	-95.4	-94.4	-1.16	5	0.0041	0.0017	0.997	5.14E+00	2.47E+00	120	-99	-99
6.21181	1.14	-93.3	-92.2	-1.23	5.47	0.0031	0.0015	0.996	5.18E+00	2.49E+00	120	-99	-99
6.25788	1.13	-94	-92.9	-1.22	5.97	0.0022	0.0016	0.997	5.22E+00	2.50E+00	120	-99	-99
6.30156	1.21	-93.3	-91.9	-1.32	6.81	0.0027	0.0016	0.996	5.25E+00	2.52E+00	120	-99	-99
6.34803	1.27	-90.5	-89.1	-1.42	7.35	0.0036	0.002	0.996	5.29E+00	2.54E+00	120	-99	-99
6.39171	1.24	-92.6	-91.2	-1.36	7.27	0.0041	0.0014	0.997	5.33E+00	2.56E+00	120	-99	-99
6.43498	1.28	-89.8	-88.4	-1.45	7.1	0.0039	0.0014	0.996	5.36E+00	2.57E+00	120	-99	-99
6.47945	1.35	-89.8	-88.4	-1.52	6.88	0.0036	0.0017	0.996	5.40E+00	2.59E+00	120	-99	-99
6.52513	1.21	-92.6	-91.4	-1.32	6.55	0.0034	0.002	0.997	5.44E+00	2.61E+00	120	-99	-99
6.57281	1.14	-91.2	-89.9	-1.26	6.56	0.0034	0.0024	0.997	5.48E+00	2.63E+00	120	-99	-99
6.62129	1.05	-91.2	-90	-1.17	6.11	0.0042	0.002	0.997	5.52E+00	2.65E+00	120	-99	-99
6.66817	1.05	-89.1	-88	-1.2	5.67	0.0045	0.0022	0.996	5.56E+00	2.67E+00	120	-99	-99
6.72025	0.95	-91.9	-90.9	-1.05	5.29	0.0045	0.0024	0.996	5.60E+00	2.69E+00	120	-99	-99
6.76713	0.84	-94.7	-93.8	-0.9	4.49	0.0043	0.0024	0.997	5.64E+00	2.71E+00	120	-99	-99
6.81401	0.83	-93.9	-93.1	-0.9	4.52	0.0036	0.0023	0.996	5.68E+00	2.73E+00	120	-99	-99
6.86169	0.78	-95.3	-94.4	-0.83	4.74	0.0038	0.0013	0.996	5.72E+00	2.75E+00	120	-99	-99
6.91257	0.71	-97.4	-96.1	-0.74	6.54	0.0031	0.0019	0.996	5.76E+00	2.77E+00	120	-99	-99
6.95945	0.73	-96.7	-95.4	-0.76	6.4	0.0026	0.0018	0.996	5.80E+00	2.78E+00	120	-99	-99
7.00953	0.64	-100.2	-99	-0.64	6.13	0.0018	0.0014	0.997	5.84E+00	2.80E+00	120	-99	-99
7.05922	0.68	-101.6	-100.5	-0.68	5.82	0.0008	0.0017	0.997	5.88E+00	2.82E+00	120	-99	-99
7.1085	0.54	-100.9	-99.8	-0.54	5.67	0.0011	0.0019	0.997	5.92E+00	2.84E+00	120	-99	-99
7.15618	0.69	-100.8	-99.7	-0.7	6.03	0.001	0.0009	0.996	5.96E+00	2.86E+00	120	-99	-99
7.20826	0.64	-102.3	-101	-0.64	6.29	0.0012	0.0002	0.997	6.01E+00	2.88E+00	120	-99	-99
7.25594	0.64	-103.6	-102.4	-0.62	6.47	0.0009	0.0014	0.997	6.05E+00	2.90E+00	120	-99	-99
7.30483	0.63	-104.3	-103.1	-0.61	6.22	0.0011	0.0006	0.997	6.09E+00	2.92E+00	120	-99	-99
7.35371	0.65	-104.3	-103.2	-0.63	6.04	0.0018	0.002	0.997	6.13E+00	2.94E+00	120	-99	-99
7.39257	0.73	-100.8	-99.6	-0.73	6.43	0.0018	0.0022	0.996	6.16E+00	2.96E+00	120	-99	-99
7.44105	0.74	-105.7	-104.6	-0.7	5.82	0.0017	0.0021	0.997	6.20E+00	2.98E+00	120	-99	-99
7.49594	0.84	-99.5	-98.5	-0.85	5.23	0.0014	0.0021	0.996	6.25E+00	3.00E+00	120	-99	-99
7.56886	0.9	-102.9	-101.8	-0.88	5.65	0.0022	0.0023	0.996	6.31E+00	3.03E+00	120	-99	-99
7.63738	0.81	-105.1	-104	-0.78	5.53	0.0004	0.0022	0.997	6.36E+00	3.06E+00	120	-99	-99
7.7071	0.81	-104.3	-103.2	-0.79	5.92	0.0003	0.0022	0.996	6.42E+00	3.08E+00	120	-99	-99
7.91475	1.09	-102.9	-101.6	-1.07	6.86	0.0009	0.0022	0.997	6.60E+00	3.17E+00	120	-99	-99
7.95845	1.08	-104.3	-102.9	-1.05	7.16	0.0005	0.0021	0.997	6.63E+00	3.18E+00	120	-99	-99
8.00578	1.05	-104.4	-102.9	-1.02	7.33	0.0003	0.0021	0.997	6.67E+00	3.20E+00	120	-99	-99
8.05668	1.11	-103	-101.7	-1.09	6.75	0.0013	0.0022	0.997	6.71E+00	3.22E+00	120	-99	-99
8.1056	1.15	-100.9	-99.7	-1.16	6.29	0.0026	0.0024	0.997	6.76E+00	3.24E+00	120	-99	-99
8.15532	1.18	-99.5	-98.3	-1.2	6.02	0.0042	0.0022	0.997	6.80E+00	3.26E+00	120	-99	-99
8.20303	1.15	-98.1	-96.9	-1.19	6.42	0.0057	0.0029	0.997	6.84E+00	3.28E+00	120	-99	-99
8.24954	1.05	-97.4	-96.1	-1.09	6.89	0.0079	0.0029	0.997	6.88E+00	3.30E+00	120	-99	-99
8.30006	1	-87	-85.5	-1.17	7.99	0.0098	0.003	0.997	6.92E+00	3.32E+00	120	-99	-99
8.35099	0.88	-76.7	-75.3	-1.17	7.25	0.0101	0.0022	0.997	6.96E+00	3.34E+00	120	-99	-99
8.40271	0.84	-54.5	-53.5	-1.58	5.17	0.0117	0.0029	0.997	7.00E+00	3.36E+00	120	-99	-99
8.45162	0.81	-46.3	-45.9	-1.77	2.27	0.0127	0.0022	0.997	7.04E+00	3.38E+00	120	-99	-99
8.50495	0.85	-44.9	-44.7	-1.91	0.85	0.0131	0.002	0.997	7.09E+00	3.40E+00	120	-99	-99
8.55748	0.74	-48.4	-48.3	-1.54	0.56	0.0132	0.0023	0.997	7.13E+00	3.42E+00	120	-99	-99
8.6084	0.56	-49.8	-49.7	-1.12	0.68	0.0134	0.0024	0.997	7.17E+00	3.44E+00	120	-99	-99
8.65772	0.42	-44.2	-44	-0.95	1	0.0132	0.0024	0.997	7.22E+00	3.46E+00	120	-99	-99
8.71305	0.38	-31.1	-31	-1.21	0.72	0.0124	0.0022	0.997	7.26E+00	3.49E+00	120	-99	-99
8.76798	0.26	-13.9	-13.8	-1.9	0.33	0.012	0.0026	0.997	7.31E+00	3.51E+00	120	-99	-99

8.82411	0.16	-7.7	-7.6	-2.11	0.44	0.0128	0.0029	0.997	7.35E+00	3.53E+00	120	-99	-99
8.88265	0.21	15.8	15.8	1.31	-0.36	0.0151	0.0027	0.997	7.40E+00	3.55E+00	120	3	-99
8.94881	0.34	46.4	46.3	0.73	-0.43	0.0156	0.002	0.997	7.46E+00	3.58E+00	120	4	4
9.00775	0.4	63.6	63.5	0.63	-0.42	0.0177	0.0025	0.997	7.51E+00	3.60E+00	120	5	5
9.06709	0.2	66.9	66.9	0.3	-0.31	0.0178	0.0031	0.997	7.56E+00	3.63E+00	120	5	5
9.12643	0.53	69.1	69.2	0.77	0.07	0.0168	0.0034	0.997	7.61E+00	3.65E+00	120	5	5
9.18497	0.78	55.2	55.3	1.41	0.42	0.0153	0.0032	0.997	7.65E+00	3.67E+00	120	4	4
9.24311	1.7	60.1	60.3	2.81	0.98	0.0123	0.0039	0.997	7.70E+00	3.70E+00	120	3	5
9.30205	1.35	72.6	72.9	1.85	1.57	0.0138	0.0039	0.997	7.75E+00	3.72E+00	120	4	5
9.36219	1.39	75.2	75.6	1.84	2.22	0.0143	0.0038	0.997	7.80E+00	3.75E+00	120	4	5
9.42434	1.5	130.5	131	1.14	2.89	0.0141	0.0036	0.997	7.85E+00	3.77E+00	120	5	6
9.48208	1.74	299.9	300.3	0.58	2.03	0.0148	0.0032	0.997	7.90E+00	3.79E+00	120	6	6
9.53861	4.67	450.3	450.6	1.04	1.49	0.0217	0.0054	0.997	7.95E+00	3.82E+00	120	6	6
9.60116	5.02	623.9	623.7	0.81	-0.71	0.024	0.0055	0.997	8.00E+00	3.84E+00	120	6	6
9.63484	5.9	638.8	638.8	0.92	-0.89	0.0235	0.0047	0.997	8.03E+00	3.85E+00	120	6	6
9.67373	9.32	760.8	760.9	1.22	0.2	0.0222	0.0043	0.997	8.06E+00	3.87E+00	120	6	7
9.70621	14.3	851.3	851.6	1.68	1.27	0.021	0.004	0.997	8.09E+00	3.88E+00	120	6	7
9.74591	10.57	970.3	970.5	1.09	1.38	0.0205	0.0035	0.997	8.12E+00	3.90E+00	120	6	7
9.7848	11.57	795.4	795.7	1.45	1.48	0.0201	0.003	0.997	8.15E+00	3.91E+00	120	6	7
9.83171	11.98	807.8	808.2	1.48	1.93	0.0201	0.0031	0.997	8.19E+00	3.93E+00	120	6	7
9.8702	9.88	846	846.3	1.17	1.73	0.02	0.0032	0.997	8.23E+00	3.95E+00	120	6	7
9.9119	9.37	936.6	936.9	1	1.31	0.0198	0.0032	0.997	8.26E+00	3.97E+00	120	6	7
9.96002	8.6	959.7	960	0.9	1.66	0.0196	0.003	0.997	8.30E+00	3.98E+00	120	6	7
10.00572	8.7	949.1	949.4	0.92	1.71	0.0194	0.0027	0.997	8.34E+00	4.00E+00	120	6	7
10.05183	9.05	956.5	956.8	0.95	0.53	0.0192	0.0031	0.997	8.38E+00	4.02E+00	120	6	7
10.10115	7.55	950.1	950.4	0.79	1.71	0.019	0.0037	0.997	8.42E+00	4.04E+00	120	6	7
10.15287	7.05	883.8	884.1	0.8	1.84	0.0197	0.0034	0.997	8.46E+00	4.06E+00	120	6	7
10.18295	6.85	879.1	879.5	0.78	2	0.0199	0.0033	0.997	8.49E+00	4.07E+00	120	6	7
10.21462	7.01	881.9	882.4	0.79	2.84	0.0201	0.0033	0.997	8.51E+00	4.09E+00	120	6	7
10.2455	4.74	886.5	887	0.53	2.24	0.0202	0.0033	0.997	8.54E+00	4.10E+00	120	6	7
10.27958	4.24	872.6	872.9	0.49	1.74	0.0196	0.0028	0.997	8.57E+00	4.11E+00	120	6	7
10.31246	4.71	875	875.3	0.54	1.69	0.0189	0.0023	0.997	8.59E+00	4.13E+00	120	6	7
10.34974	4.23	875.8	876.1	0.48	1.49	0.0196	0.0027	0.997	8.63E+00	4.14E+00	120	6	7
10.38503	3.46	876.9	877.2	0.39	1.84	0.0206	0.0033	0.997	8.65E+00	4.15E+00	120	6	7
10.42352	2.87	900.1	900.4	0.32	1.59	0.0202	0.0031	0.998	8.69E+00	4.17E+00	120	6	7
10.4576	2.33	866.5	866.9	0.27	1.9	0.0191	0.0024	0.997	8.72E+00	4.18E+00	120	6	7
10.49589	1.69	865.8	866.1	0.19	1.44	0.0176	0.0019	0.997	8.75E+00	4.20E+00	120	7	7
10.52977	1.94	856.9	857.1	0.23	1.1	0.0161	0.0016	0.997	8.78E+00	4.21E+00	120	7	7
10.56425	2.14	840.4	840.9	0.25	2.49	0.0153	0.0015	0.997	8.80E+00	4.23E+00	120	6	7
10.59833	2.47	842.9	843.2	0.29	1.57	0.0155	0.0017	0.998	8.83E+00	4.24E+00	120	6	7
10.63482	2.72	842	842.3	0.32	1.68	0.0157	0.002	0.998	8.86E+00	4.25E+00	120	6	7
10.66971	2.65	833	833.5	0.32	2.34	0.0155	0.0024	0.997	8.89E+00	4.27E+00	120	6	7
10.711	2.31	844.4	844.7	0.27	1.23	0.015	0.0027	0.997	8.93E+00	4.28E+00	120	6	7
10.76232	1.84	839.6	839.8	0.22	1.35	0.0133	0.0023	0.997	8.97E+00	4.31E+00	120	7	7
10.84492	1.73	811.2	811.7	0.21	2.25	0.0166	0.0036	0.997	9.04E+00	4.34E+00	120	6	7
10.92311	1.92	803	803.2	0.24	1.36	0.0175	0.0028	0.997	9.10E+00	4.37E+00	120	6	7
11.00089	1.92	771.4	771.7	0.25	1.91	0.0202	0.0026	0.997	9.17E+00	4.40E+00	120	6	7
11.06784	1.84	724.4	724.8	0.25	1.95	0.0191	0.0028	0.996	9.25E+00	4.44E+00	120	6	6
11.18993	1.87	727.7	728	0.28	1.44	0.0199	0.0029	0.997	9.31E+00	4.47E+00	120	6	6
11.24522	2.06	724.2	724.7	0.28	2.83	0.0211	0.0028	0.996	9.37E+00	4.50E+00	120	6	6
11.3173	1.92	722.8	723.3	0.27	2.52	0.0214	0.003	0.996	9.43E+00	4.53E+00	120	6	6
11.3978	1.66	709.5	710	0.23	2.36	0.0223	0.0028	0.996	9.50E+00	4.56E+00	120	6	6

11.47228	1.51	696.2	696.7	0.22	2.56	0.023	0.0022	0.996	9.56E+00	4.59E+00	120	6	6
11.54637	1.52	680.5	680.9	0.22	2.18	0.0234	0.0029	0.996	9.62E+00	4.62E+00	120	6	6
11.61806	1.52	639.3	639.7	0.24	2.24	0.0235	0.0025	0.997	9.68E+00	4.65E+00	120	6	6
11.69735	1.52	616.4	616.8	0.25	2.12	0.0236	0.0035	0.998	9.75E+00	4.68E+00	120	6	6
11.77224	1.39	561.1	561.5	0.25	1.81	0.0212	0.0029	0.996	9.81E+00	4.71E+00	120	6	6
11.85634	1.23	510.3	510.7	0.24	2	0.0213	0.0021	0.996	9.88E+00	4.74E+00	120	6	6
11.93003	1.21	491.8	492.1	0.25	1.89	0.0211	0.0026	0.996	9.94E+00	4.77E+00	120	6	6
12.00932	1.2	465.8	466.2	0.26	2.21	0.0201	0.0032	0.996	1.00E+01	4.80E+00	120	6	6
12.08221	1.17	438.7	439.1	0.27	2.23	0.0192	0.0029	0.996	1.01E+01	4.83E+00	120	6	6
12.1571	1.14	415.2	415.7	0.27	2.32	0.019	0.0029	0.996	1.01E+01	4.86E+00	120	6	6
12.23319	1.06	399.2	399.6	0.27	2.2	0.0188	0.0026	0.996	1.02E+01	4.89E+00	120	6	6
12.31408	1.04	397	397.4	0.26	1.82	0.0184	0.0025	0.996	1.03E+01	4.93E+00	120	6	6
12.38697	0.9	387.4	387.7	0.23	1.78	0.0184	0.0026	0.996	1.03E+01	4.96E+00	120	6	6
12.46706	0.8	399.2	399.6	0.2	2.07	0.0175	0.0021	0.996	1.04E+01	4.99E+00	120	6	6
12.54035	0.76	400	400.4	0.19	1.83	0.0167	0.002	0.996	1.05E+01	5.02E+00	120	6	6
12.61484	0.68	397	397.5	0.17	2.22	0.0161	0.0025	0.996	1.05E+01	5.05E+00	120	6	6
12.69093	0.71	416.4	416.8	0.17	2	0.016	0.0026	0.996	1.06E+01	5.08E+00	120	6	6
12.77103	0.75	437.9	438.3	0.17	1.85	0.0171	0.0026	0.996	1.06E+01	5.11E+00	120	6	6
12.84391	0.84	445.6	446.1	0.19	2.67	0.0174	0.0032	0.996	1.07E+01	5.14E+00	120	6	6
12.9208	0.98	451.7	452.1	0.22	2.2	0.0176	0.0031	0.996	1.08E+01	5.17E+00	120	6	6
12.99489	1.14	445.4	445.8	0.26	2.13	0.0185	0.0025	0.996	1.08E+01	5.20E+00	120	6	6
13.07058	1.39	428.2	428.6	0.32	1.8	0.0185	0.0027	0.996	1.09E+01	5.23E+00	120	6	6
13.14467	1.59	393.7	394.1	0.4	1.89	0.0183	0.0032	0.996	1.10E+01	5.26E+00	120	6	6
13.22036	1.99	373.8	374.2	0.53	2.09	0.0181	0.0034	0.996	1.10E+01	5.29E+00	120	6	6
13.29044	2.13	351.5	351.9	0.61	2.4	0.0168	0.0028	0.996	1.11E+01	5.32E+00	120	6	6
13.36653	2.25	311.6	312.1	0.72	2.89	0.0134	0.0023	0.996	1.11E+01	5.35E+00	120	6	6
13.43942	2.21	310.2	310.6	0.71	1.87	0.0123	0.0019	0.996	1.12E+01	5.38E+00	120	6	6
13.52031	2.55	290.7	291	0.88	1.69	0.0128	0.0025	0.996	1.13E+01	5.41E+00	120	5	6
13.5948	2.58	287.3	287.7	0.9	2.07	0.0133	0.0027	0.996	1.13E+01	5.44E+00	120	5	6
13.67289	3.81	267.4	267.6	1.42	1.34	0.0136	0.0028	0.996	1.14E+01	5.47E+00	120	5	6
13.75019	5.16	307.9	308.2	1.67	1.66	0.0131	0.0032	0.997	1.15E+01	5.50E+00	120	5	6
13.82948	5.25	354.2	354.5	1.48	1.33	0.0127	0.0033	0.996	1.15E+01	5.53E+00	120	5	6
13.90197	5.27	386.8	386.9	1.36	0.33	0.0137	0.0033	0.996	1.16E+01	5.56E+00	120	5	6
13.98326	5.11	427.4	427.6	1.2	0.62	0.0158	0.0036	0.996	1.17E+01	5.59E+00	120	5	6
14.05735	7.23	388.2	388.4	1.86	1.31	0.0164	0.0034	0.996	1.17E+01	5.62E+00	120	5	6
14.13344	7.04	364.1	364.6	1.93	2.41	0.0171	0.0036	0.996	1.18E+01	5.65E+00	120	5	6
14.20753	5.49	392.3	392.8	1.4	1.36	0.0181	0.0033	0.996	1.18E+01	5.68E+00	120	5	6
14.28642	5.51	419.9	420.4	1.31	2.29	0.0197	0.0039	0.996	1.19E+01	5.72E+00	120	5	6
14.34816	5.64	565.8	566.2	1	1.96	0.0196	0.0042	0.996	1.20E+01	5.74E+00	120	6	6
14.42076	5.81	550.4	550.8	0.89	2.28	0.0207	0.0042	0.997	1.20E+01	5.77E+00	120	6	6
14.49538	6.7	769.5	769.5	0.87	0.38	0.0195	0.0038	0.997	1.21E+01	5.80E+00	120	6	6
14.5724	7.81	867	867	0.9	0.05	0.022	0.0033	0.996	1.21E+01	5.83E+00	120	6	6
14.64821	6.97	950.9	950.8	0.73	-0.93	0.0252	0.0031	0.997	1.22E+01	5.86E+00	120	6	6
14.73205	5.3	982	982.1	0.55	0.35	0.0258	0.0038	0.997	1.23E+01	5.89E+00	120	6	6
14.80266	4.88	1012.1	1011.9	0.48	-1.33	0.0238	0.0035	0.996	1.23E+01	5.92E+00	120	6	7
14.88088	4.6	988.6	988.5	0.47	-0.8	0.0254	0.0037	0.996	1.24E+01	5.95E+00	120	6	6
14.95469	4.33	927	927.1	0.47	0.82	0.0279	0.0048	0.997	1.25E+01	5.98E+00	120	6	6
15.03011	3.9	969.3	969.2	0.4	-0.31	0.0287	0.0053	0.996	1.25E+01	6.01E+00	120	6	6
15.10672	3.24	970.3	970.2	0.33	-0.31	0.028	0.0052	0.997	1.26E+01	6.04E+00	120	6	6
15.18575	2.99	993.3	993.2	0.3	-0.11	0.0293	0.0054	0.997	1.27E+01	6.07E+00	120	6	6
15.25796	2.67	993.3	993.3	0.27	0.02	0.0289	0.0056	0.997	1.27E+01	6.10E+00	120	6	6
15.33417	2.82	1014.5	1014.4	0.28	-0.27	0.0286	0.0058	0.997	1.28E+01	6.13E+00	120	6	6

15.40798	2.82	1037.5	1037.4	0.27	-0.55	0.0282	0.0061	0.997	1.28E+01	6.16E+00	120	6	6
15.4834	2.61	1049.4	1049.3	0.25	-0.66	0.0264	0.0058	0.996	1.29E+01	6.19E+00	120	6	6
15.56002	3.65	1104.7	1104.5	0.33	-1	0.0253	0.0065	0.997	1.30E+01	6.22E+00	120	6	7
15.63784	4.83	1150.3	1150.1	0.42	-1.11	0.0257	0.0065	0.996	1.30E+01	6.26E+00	120	6	7
15.71005	4.87	1190.4	1190.1	0.41	-1.24	0.026	0.0059	0.996	1.31E+01	6.28E+00	120	6	7
15.78948	4.86	1249.8	1249.6	0.39	-1.2	0.0258	0.0066	0.996	1.32E+01	6.32E+00	120	6	7
15.86248	6.26	1309.2	1309	0.48	-1.2	0.0262	0.0062	0.996	1.32E+01	6.35E+00	120	6	7
15.9387	9.19	1268.2	1268	0.72	-1.18	0.0262	0.0067	0.997	1.33E+01	6.38E+00	120	6	7
16.01492	8.79	1369	1368.8	0.64	-1.44	0.028	0.007	0.997	1.34E+01	6.41E+00	120	6	7
16.09835	7.21	1453.3	1453.1	0.5	-1.18	0.0279	0.0068	0.997	1.34E+01	6.44E+00	120	6	7
16.17177	6.56	1439.1	1438.9	0.46	-1.11	0.0282	0.0055	0.996	1.35E+01	6.47E+00	120	6	7
16.25119	5.33	1291.2	1291.2	0.41	-0.31	0.0281	0.0051	0.996	1.35E+01	6.50E+00	120	6	7
16.3238	4.58	1245.1	1245.2	0.37	0.35	0.0274	0.005	0.997	1.36E+01	6.53E+00	120	6	7
16.40243	5.05	1328	1328	0.38	0.09	0.0273	0.0046	0.997	1.37E+01	6.56E+00	120	6	7
16.47544	4.44	1275.5	1275.6	0.35	0.13	0.0281	0.0051	0.997	1.37E+01	6.59E+00	120	6	7
16.55446	4.02	1278.8	1278.8	0.31	0.05	0.0281	0.0052	0.996	1.38E+01	6.62E+00	120	6	7
16.62627	3.9	1279.2	1279.2	0.31	-0.07	0.0261	0.0049	0.997	1.39E+01	6.65E+00	120	6	7
16.70569	3.7	1292.1	1292.1	0.29	0.09	0.0263	0.0048	0.997	1.39E+01	6.68E+00	120	6	7
16.7775	3.41	1304.1	1304.1	0.26	0.18	0.0254	0.0058	0.997	1.40E+01	6.71E+00	120	6	7
16.85853	2.78	1322.1	1322.1	0.21	0.02	0.0238	0.0069	0.997	1.41E+01	6.74E+00	120	7	7
16.93314	3.28	1324.8	1324.8	0.25	0.07	0.0201	0.0074	0.997	1.41E+01	6.77E+00	120	6	7
17.01297	4.34	1347.9	1347.8	0.32	-0.4	0.0135	0.0065	0.996	1.42E+01	6.81E+00	120	6	7
17.08638	5.19	1375.4	1375.4	0.38	-0.2	0.0131	0.0056	0.997	1.42E+01	6.84E+00	120	6	7
17.16501	6.13	1408.7	1408.8	0.44	0.63	0.0136	0.0058	0.996	1.43E+01	6.87E+00	120	6	7
17.24002	6.64	1461.6	1461.7	0.45	0.42	0.0163	0.0065	0.997	1.44E+01	6.90E+00	120	6	7
17.31985	6.95	1539	1539	0.45	0.38	0.0108	0.0064	0.997	1.44E+01	6.93E+00	120	6	7
17.39567	7.23	1620.9	1620.9	0.45	0	0.0107	0.0063	0.997	1.45E+01	6.96E+00	120	6	7
17.47549	7.82	1660.5	1660.4	0.47	-0.6	0.011	0.0063	0.997	1.46E+01	6.99E+00	120	6	7
17.55091	8.59	1944.1	1943.9	0.44	-0.85	0.0111	0.0063	0.997	1.46E+01	7.02E+00	120	6	7
17.80009	10.01	2035.5	2035.5	0.49	-0.07	0.0098	0.0061	0.997	1.48E+01	7.12E+00	120	6	7
17.88707	10.01	2046	2046.2	0.49	1.45	0.0088	0.0065	0.998	1.49E+01	7.16E+00	120	6	7
17.96965	14.25	2105.4	2105.4	0.68	0.16	0.0078	0.0064	0.996	1.50E+01	7.19E+00	120	6	7
18.05503	14	2006.5	2006.5	0.7	-0.12	0.0088	0.0067	0.997	1.51E+01	7.22E+00	120	6	7
18.13881	10.81	2025.2	2025.3	0.53	0.25	0.0109	0.0075	0.996	1.51E+01	7.26E+00	120	6	7
18.23301	19.04	2156.5	2156.6	0.88	0.6	0.0089	0.005	0.996	1.52E+01	7.29E+00	120	6	7
18.31479	21.12	2231.7	2231.8	0.95	1	0.0086	0.0041	0.997	1.53E+01	7.33E+00	120	6	7
18.40298	19.88	2279.4	2279.6	0.87	0.65	0.0094	0.0037	0.996	1.53E+01	7.36E+00	120	6	7
18.48676	21.3	2304.3	2304.3	0.92	0.02	0.0101	0.0034	0.998	1.54E+01	7.40E+00	120	6	7
18.57374	18.27	2140.2	2140.1	0.85	-0.62	0.0086	0.004	0.997	1.55E+01	7.43E+00	120	6	7
18.65953	16.63	2147.1	2147.7	0.77	3.15	0.0068	0.0044	0.997	1.56E+01	7.46E+00	120	6	7
18.74771	18.4	2217.8	2218.2	0.83	2.11	0.0075	0.005	0.997	1.56E+01	7.50E+00	120	6	7
18.83069	34.29	2084.3	2084.6	1.64	1.12	0.0099	0.0067	0.996	1.57E+01	7.53E+00	120	6	7
18.91968	24.98	2246.8	2247	1.11	0.55	0.0128	0.0046	0.997	1.58E+01	7.57E+00	120	6	7
18.99986	24.48	2409.6	2409.8	1.02	0.04	0.0116	0.0065	0.997	1.58E+01	7.60E+00	120	6	7
19.09526	30.07	2518.2	2518	1.19	-0.93	0.0086	0.0052	0.996	1.59E+01	7.64E+00	120	6	7
19.18104	23.71	2712.2	2712.2	0.87	-0.03	0.0099	0.0058	0.997	1.60E+01	7.67E+00	120	6	7
19.27565	18.57	3047.4	3047.5	0.61	0.27	0.0218	0.0055	0.996	1.61E+01	7.71E+00	120	6	7
19.36825	20.19	1985.8	1985.8	1.02	-0.03	0.0243	0.0076	0.997	1.61E+01	7.75E+00	120	6	7
19.45603	19.93	2120.9	2120.8	0.94	-0.13	0.0184	0.0062	0.997	1.62E+01	7.78E+00	120	6	7
19.54021	22.08	2026.3	2026.7	1.09	2.14	0.0215	0.0062	0.996	1.63E+01	7.82E+00	120	6	7
19.6284	14.5	1994.1	1994.7	0.73	3.04	0.0209	0.0058	0.997	1.64E+01	7.85E+00	120	6	7
19.70857	14.47	1872.6	1873	0.77	2.11	0.0174	0.0049	0.997	1.64E+01	7.88E+00	120	6	7

19.79476	14.35	1904.7	1905	0.75	1.34	0.0176	0.0047	0.996	1.65E+01	7.92E+00	120	6	7
19.87853	14.19	1983.5	1983.8	0.72	1.65	0.0147	0.0043	0.996	1.66E+01	7.95E+00	120	6	7
19.96713	14	2069.1	2069.3	0.68	0.85	0.015	0.0047	0.996	1.68E+01	7.99E+00	120	6	7
20.05011	13.42	2156.8	2157	0.62	1.24	0.0153	0.005	0.997	1.67E+01	8.02E+00	120	6	7
20.30866	6.85	2054.6	2054.5	0.33	-0.4	0.0115	0.0049	0.997	1.69E+01	8.12E+00	120	7	7
20.39083	6.51	1990.4	1990.5	0.33	0.36	0.0111	0.0043	0.996	1.70E+01	8.16E+00	120	7	7
20.48343	6.1	2034.6	2034.9	0.3	1.69	0.012	0.0048	0.996	1.71E+01	8.19E+00	120	7	7
20.56841	5.96	1947.6	1948	0.31	2.23	0.0123	0.0049	0.996	1.71E+01	8.23E+00	120	7	7
20.6554	6.42	1915.4	1915.8	0.34	2.03	0.0125	0.0053	0.996	1.72E+01	8.26E+00	120	6	7
20.88341	16.52	1874	1874.5	0.88	2.68	0.0142	0.0053	0.997	1.74E+01	8.35E+00	120	6	7
20.97195	14.53	1928.5	1929	0.75	2.11	0.0156	0.006	0.996	1.75E+01	8.39E+00	120	6	7
21.0573	14.07	1964.9	1965.2	0.72	1.57	0.017	0.0042	0.996	1.76E+01	8.42E+00	120	6	7
21.15105	13.4	2074.2	2074.4	0.65	1	0.0151	0.0042	0.997	1.76E+01	8.46E+00	120	6	7
21.23279	13.53	2017.6	2017.9	0.67	1.4	0.0135	0.0042	0.997	1.77E+01	8.49E+00	120	6	7
21.27606	14.07	2105.7	2105.7	0.67	0.18	0.0128	0.0042	0.996	1.77E+01	8.51E+00	120	6	7
21.357	14.96	2268.9	2269.1	0.66	0.91	0.0144	0.0055	0.997	1.78E+01	8.54E+00	120	6	7
21.44594	13.13	2194.1	2194.3	0.6	1.29	0	0	0.996	1.79E+01	8.58E+00	120	6	7
21.53088	13.38	2291.3	2291.4	0.58	0.39	0	0	0.996	1.79E+01	8.61E+00	120	6	7
21.62344	14.06	2146	2146.2	0.66	1.13	0	0	0.997	1.80E+01	8.65E+00	120	6	7
21.70477	10.62	2231.4	2231.1	0.48	-1.2	0	0	0.996	1.81E+01	8.68E+00	120	6	7
21.74965	9.97	2101.2	2101	0.47	-1	0	0	0.996	1.81E+01	8.70E+00	120	6	7
21.81736	11.81	2393.2	2393.3	0.49	0.55	0	0	0.997	1.82E+01	8.73E+00	120	6	7
21.88548	10.99	2500.7	2500.9	0.44	1.15	0	0	0.996	1.82E+01	8.75E+00	120	6	7
21.9604	10.76	2527.4	2527.8	0.43	0.75	0	0	0.997	1.83E+01	8.78E+00	120	7	7
22.02611	10.61	2560.3	2560.3	0.41	-0.12	0	0	0.997	1.84E+01	8.81E+00	120	7	7
22.09422	10.41	2586.8	2586.7	0.4	-0.58	0	0	0.997	1.84E+01	8.84E+00	120	7	7
22.15713	10.85	2637.7	2637.7	0.41	-0.07	0	0	0.997	1.85E+01	8.86E+00	120	7	7
22.21923	12.48	2735.9	2735.8	0.46	-0.41	0	0	0.997	1.85E+01	8.89E+00	120	7	7
22.44641	16.26	3151.2	3151.1	0.52	-0.29	0	0	0.996	1.87E+01	8.98E+00	120	7	7
22.5029	18.62	3105.8	3105.7	0.6	0.87	0	0	0.996	1.88E+01	9.00E+00	120	6	7
22.71726	15.54	2940.1	2940.2	0.53	0.2	0	0	0.997	1.89E+01	9.09E+00	120	6	7
22.77856	16.99	3210.6	3210.7	0.53	0.65	0	0	0.996	1.90E+01	9.11E+00	120	7	7
22.83886	17.83	3038.2	3038.3	0.59	0.46	0	0	0.997	1.90E+01	9.14E+00	120	6	7
23.03138	14.18	3125.2	3125.7	0.45	2.88	0	0	0.997	1.92E+01	9.21E+00	120	7	7
23.08226	11.16	3304.3	3304.7	0.34	1.81	0	0	0.996	1.92E+01	9.23E+00	120	7	7
23.13996	14.6	3474.4	3474.4	0.42	0.23	0	0	0.996	1.93E+01	9.26E+00	120	7	7
23.19445	17.83	3478.7	3478.6	0.51	-0.05	0	0	0.996	1.93E+01	9.28E+00	120	7	7
23.25415	21.43	3382.5	3383	0.64	2.8	0	0	0.996	1.94E+01	9.30E+00	120	6	7
23.30824	24.55	3250.9	3251.4	0.76	3.04	0	0	0.997	1.94E+01	9.32E+00	120	6	7
23.36514	25.93	3286.5	3286.6	0.79	0.54	0	0	0.996	1.95E+01	9.35E+00	120	6	7
23.41642	23.24	3156.8	3157	0.74	1.07	0	0	0.996	1.95E+01	9.37E+00	120	6	7
23.6412	0	2884.9	2885	0	0.6	0	0	0.997	1.97E+01	9.46E+00	120	-99	7
23.69649	0	3012.9	3012.8	0	-0.26	0	0	0.996	1.98E+01	9.48E+00	120	-99	7
23.75689	0	2864.2	2864.2	0	-0.07	0	0	0.997	1.98E+01	9.50E+00	120	-99	7
23.81428	0	2642.8	2644.3	0	7.87	0	0	0.996	1.99E+01	9.53E+00	120	-99	7

Electric Cone Penetrometer Data

Cone_TAP v 2.90

Test Id: HD-14 Date: 5-Nov-03

Site: SUNNYSIDE Cone Id: 108.034XXX

Location: QUEENS NY

Project: ROUX Soil Density(pcf): 120

Client: ROUX

Depth (ft)	Sleeve Stress (psi)	Tip Stress UNC (psi)	Tip Stress COR (psi)	Ratio COR (%)	Pore Pressure (psi)	LFFD (V)	HFFD (V)	Excitation (Vdc)	Overburden (psi)	Eff. Overburden (psi)	Wet Density (pcf)	Class. FR (Rob. 1990)	Class. PP (Rob. 1990)
0	0	0	0	0	0	0	0	NM	0.00E+00	0.00E+00	120	-99	-99
0.15264	0	107.7	107.7	0	-0.04	0.0301	0.0248	NM	1.27E-01	8.11E-02	120	-99	-99
0.18478	0	1891.7	1891.8	0	0.3	0.0303	0.0249	NM	1.54E-01	7.39E-02	120	-99	-99
0.22053	0	3621.6	3621.7	0	0.5	0.0302	0.0249	NM	1.84E-01	8.82E-02	120	-99	-99
0.25065	0	6235.4	6235.5	0	0.25	0.03	0.0249	NM	2.09E-01	1.00E-01	120	-99	-99
0.28359	2.06	7328.7	7328.7	0.03	0.15	0.0299	0.0251	NM	2.36E-01	1.13E-01	120	-99	-99
0.31894	2.48	7245.3	7245.3	0.03	0.15	0.0299	0.0252	NM	2.66E-01	1.28E-01	120	-99	-99
0.35228	2.8	7338.9	7338.9	0.04	0.05	0.0301	0.025	NM	2.94E-01	1.41E-01	120	-99	-99
0.38602	2.47	7245.3	7245.3	0.03	0.05	0.0302	0.0251	NM	3.22E-01	1.54E-01	120	-99	-99
0.42057	1.34	7046.2	7046.2	0.02	0.01	0.0302	0.0254	NM	3.51E-01	1.68E-01	120	-99	-99
0.45431	0.69	6913.1	6913	0.01	-0.04	0.0303	0.0252	NM	3.79E-01	1.82E-01	120	-99	-99
0.49608	0.19	3945	3945.1	0	0.1	0.0303	0.025	NM	4.13E-01	1.98E-01	120	-99	-99
0.53224	5.45	3621.6	3621.6	0.15	0.1	0.03	0.0252	NM	4.44E-01	2.13E-01	120	-99	-99
0.5704	2.27	2837.2	2837.2	0.08	0.1	0.03	0.0252	NM	4.75E-01	2.28E-01	120	-99	-99
0.60976	1.56	1345.8	1345.9	0.12	0.15	0.0298	0.025	NM	5.08E-01	2.44E-01	120	-99	-99
0.64792	1.17	773.6	773.6	0.15	0.05	0.0299	0.0249	NM	5.40E-01	2.59E-01	120	-99	-99
0.68648	1.94	797	797	0.24	0.1	0.0299	0.0253	NM	5.72E-01	2.75E-01	120	-99	-99
0.72545	2.1	1010.7	1010.7	0.21	-0.14	0.0304	0.0252	NM	6.05E-01	2.90E-01	120	-99	-99
0.76602	6.14	1000.5	1000.4	0.61	-0.09	0.031	0.0244	NM	6.38E-01	3.06E-01	120	-99	-99
0.80337	6.12	931.7	931.7	0.66	-0.04	0.0324	0.0229	NM	6.70E-01	3.21E-01	120	-99	-99
0.84555	5.54	494.1	494.1	1.12	-0.14	0.0314	0.0218	NM	7.05E-01	3.38E-01	120	-99	-99
0.88452	5.01	524.8	524.8	0.95	0.05	0.03	0.0209	NM	7.37E-01	3.54E-01	120	-99	-99
0.92348	4.48	855.1	855.1	0.68	0.01	0.0286	0.02	NM	7.70E-01	3.69E-01	120	-99	-99
0.96084	3.96	807.3	807.3	0.49	0.01	0.0273	0.0192	NM	8.01E-01	3.84E-01	120	-99	-99
1.00101	3.92	955.1	955.1	0.41	0.05	0.0259	0.0182	NM	8.34E-01	4.00E-01	120	-99	-99
1.03916	5.16	953.6	953.6	0.54	0.01	0.0245	0.0174	NM	8.66E-01	4.16E-01	120	-99	-99
1.07893	5.5	715.1	715.1	0.77	0.2	0.0243	0.0173	NM	8.99E-01	4.32E-01	120	-99	-99
1.11709	5.05	622.9	623	0.81	0.45	0.0233	0.017	NM	9.31E-01	4.47E-01	120	-99	-99
1.30943	3.13	423.8	423.8	0.74	0.01	0.014	0.0119	NM	1.09E+00	5.24E-01	120	7	7
1.34636	3.93	464.8	464.8	0.85	-0.09	0.0116	0.011	NM	1.12E+00	5.39E-01	120	7	7
1.38571	3.54	483.8	483.9	0.73	0.1	0.0101	0.0102	NM	1.16E+00	5.54E-01	120	7	7
1.43229	2.84	466.3	466.3	0.61	0.15	0.009	0.0098	NM	1.19E+00	5.73E-01	120	7	7
1.48448	1.78	470.7	470.7	0.38	-0.04	0.0089	0.0099	NM	1.24E+00	5.94E-01	120	7	7
1.53748	0.6	480.9	480.9	0.12	0.05	0.0119	0.0115	NM	1.28E+00	6.15E-01	120	7	7
1.58688	0.23	542.4	542.4	0.04	-0.04	0.0112	0.0107	NM	1.32E+00	6.35E-01	120	-99	7
1.64267	0.35	960.9	960.9	0.04	-0.04	0.01	0.0097	NM	1.37E+00	6.57E-01	120	-99	-99
1.69727	0.58	860	859.9	0.07	-0.19	0.0078	0.0084	NM	1.41E+00	6.79E-01	120	-99	-99
1.75549	0.1	751.7	751.6	0.01	-0.09	0.0064	0.0064	NM	1.46E+00	7.02E-01	120	-99	-99
1.8125	0.96	552.6	552.6	0.17	-0.09	0.0433	0.0522	NM	1.51E+00	7.25E-01	120	7	7

1.87393	2.8	368.2	368.2	0.76	-0.09	0.0358	0.0555	NM	1.56E+00	7.50E-01	120	6	7
1.93375	1.68	401.9	401.9	0.42	-0.09	0.0124	0.0293	NM	1.61E+00	7.74E-01	120	7	7
1.99076	3.33	429.7	429.7	0.77	-0.04	0.0055	0.0084	NM	1.66E+00	7.96E-01	120	6	7
2.04657	2.1	401.9	401.9	0.52	0.01	0.0049	0.0043	NM	1.71E+00	8.19E-01	120	7	7
2.10479	2.31	445.8	445.8	0.52	-0.04	0.0043	0.0035	NM	1.75E+00	8.42E-01	120	7	7
2.1634	2.59	467.7	467.7	0.55	-0.04	0.0039	0.0033	NM	1.80E+00	8.65E-01	120	7	7
2.21961	2.26	475.1	475.1	0.47	0.01	0.0036	0.0037	NM	1.85E+00	8.88E-01	120	7	7
2.27904	3.22	501.4	501.4	0.64	-0.09	0.003	0.0038	NM	1.90E+00	9.12E-01	120	7	7
2.33966	2.63	517.5	517.4	0.51	-0.59	0.0021	0.0033	NM	1.95E+00	9.36E-01	120	7	7
2.39748	3.5	581.9	581.8	0.6	-0.54	0.0013	0.0027	NM	2.00E+00	9.59E-01	120	7	7
2.45409	3.91	757.5	757.3	0.52	-1.29	0.0014	0.0018	NM	2.05E+00	9.82E-01	120	7	7
2.5107	5.48	960.9	960.7	0.57	-1.04	0.0027	0.0024	NM	2.09E+00	1.00E+00	120	7	7
2.56691	7.65	1132.2	1132.1	0.68	-0.19	0.0034	0.0025	NM	2.14E+00	1.03E+00	120	-99	-99
2.62392	11.48	1225.8	1225.9	0.94	0.1	0.0043	0.003	NM	2.19E+00	1.05E+00	120	-99	-99
2.68093	19.1	1263.9	1263.9	1.51	0.01	0.009	0.0071	NM	2.23E+00	1.07E+00	120	-99	-99
2.73915	37.82	1344.4	1344.3	2.81	-0.59	0.0138	0.0116	NM	2.28E+00	1.10E+00	120	-99	-99
2.79737	54.58	1501	1500.6	3.64	-1.99	0.0149	0.0124	NM	2.33E+00	1.12E+00	120	-99	-99
2.85317	38.69	1743.9	1743.4	2.22	-2.73	0.0243	0.0183	NM	2.38E+00	1.14E+00	120	-99	-99
2.90778	28.54	2140.5	2140	1.33	-2.98	0.0276	0.0204	NM	2.42E+00	1.16E+00	120	-99	-99
2.96599	17.72	2639.6	2639	0.67	-2.98	0.0239	0.0175	NM	2.47E+00	1.19E+00	120	-99	-99
3.0214	7.41	3601.1	3600.6	0.21	-2.78	0.023	0.0161	NM	2.52E+00	1.21E+00	120	-99	-99
3.07399	0.1	6001.3	6001.4	0	0.5	0.0207	0.0148	NM	2.56E+00	1.23E+00	120	-99	-99
3.1286	0.05	8076.5	8076.7	0	0.8	0.0237	0.0166	NM	2.61E+00	1.25E+00	120	-99	-99
3.18079	0.1	10097.7	10097.8	0	0.85	0.0296	0.0201	NM	2.65E+00	1.27E+00	120	-99	-99
3.40804	0.14	11.1	11.2	1.23	0.6	0.0361	0.0237	NM	2.84E+00	1.36E+00	120	3	4
3.47027	0	11.1	11.3	0	0.7	0.0313	0.0217	NM	2.89E+00	1.39E+00	120	-99	4
3.53371	-0.05	11.1	11.3	-0.46	0.7	0.0347	0.0236	NM	2.95E+00	1.41E+00	120	-99	4
3.59955	0.45	11.1	11.3	4.03	0.75	0.0301	0.0201	NM	3.00E+00	1.44E+00	120	3	4
3.66218	0.57	14.1	14.2	3.98	0.75	0.0119	0.0081	NM	3.05E+00	1.47E+00	120	3	4
3.72562	0.56	129.7	129.9	0.43	0.95	0.0007	0.0011	NM	3.11E+00	1.49E+00	120	6	6
3.78745	1.24	694.6	694.8	0.18	0.9	0.0007	0.001	NM	3.16E+00	1.52E+00	120	7	7
3.85209	7.8	55	55.2	14.13	0.75	0.0006	0.0007	NM	3.21E+00	1.54E+00	120	3	6
3.91392	4.97	239.4	239.6	2.07	0.7	0.0006	0.0004	NM	3.26E+00	1.57E+00	120	5	6
3.97455	5.75	1010.7	1010.9	0.57	1.05	0.0005	0.0006	NM	3.31E+00	1.59E+00	120	7	7
4.03397	7.14	3200.1	3200.3	0.22	1	0.0007	0.001	NM	3.36E+00	1.61E+00	120	-99	-99
4.07532	6.41	1496.8	1496.7	0.43	0.8	0.0002	0.0006	NM	3.40E+00	1.63E+00	120	7	7
4.13876	6.77	1181.9	1182.1	0.57	1.05	0.0009	0.0007	NM	3.45E+00	1.66E+00	120	7	7
4.20019	7.72	1075.1	1075.3	0.72	0.95	0.0006	0.0021	NM	3.50E+00	1.68E+00	120	7	7
4.26362	8.05	972.7	972.8	0.83	1	0.0011	0.002	NM	3.55E+00	1.71E+00	120	6	7
4.32465	7.81	602.4	602.7	1.3	1.4	0.001	0.0016	NM	3.60E+00	1.73E+00	120	6	7
4.37203	7.48	576	576.3	1.3	1.1	0.0013	0.001	NM	3.64E+00	1.75E+00	120	6	7
4.44348	6.65	542.6	542.5	1.23	-0.73	0.0019	0.0011	NM	3.70E+00	1.78E+00	120	6	7
4.50165	5.15	485.6	485.1	1.06	-2.42	0.0022	0.0011	NM	3.75E+00	1.80E+00	120	6	7
4.56265	3.92	465.1	464.4	0.84	-3.42	0.0012	0.0015	NM	3.80E+00	1.83E+00	120	6	7
4.61923	3.46	459.2	458.4	0.75	-4.41	0.0018	0.0009	NM	3.85E+00	1.85E+00	120	6	7
4.68103	2.95	469.5	468.6	0.63	-4.86	0.0009	0.0011	NM	3.90E+00	1.87E+00	120	6	7
4.74685	2.29	468	467	0.49	-5.16	0.0026	0.0008	NM	3.96E+00	1.90E+00	120	6	7
4.81186	1.68	462.1	461	0.36	-6.05	0.0011	0.0013	NM	4.01E+00	1.93E+00	120	6	7
4.87125	1.27	460.7	459.5	0.28	-6.05	0.0013	0.0003	NM	4.06E+00	1.95E+00	120	7	7
4.93265	1.01	456.3	455.1	0.22	-6.3	0.0003	0.0004	NM	4.11E+00	1.97E+00	120	7	7
4.99365	1.21	441.7	440.5	0.28	-6.15	0	0.0004	NM	4.16E+00	2.00E+00	120	7	7
5.05625	1.85	429.9	428.7	0.43	-6.2	0.001	0.0007	NM	4.21E+00	2.02E+00	120	6	7

5.11925	2.54	410.9	409.8	0.62	-5.61	0.0015	0.0006	NM	4.27E+00	2.05E+00	120	6	7
5.18427	3.35	383.1	382.2	0.86	-4.96	0.002	0.0009	NM	4.32E+00	2.07E+00	120	6	7
5.24968	4.3	367	366.3	1.17	-3.72	0.0019	0.0015	NM	4.38E+00	2.10E+00	120	6	7
5.31188	5.03	318.7	318.4	1.58	-1.77	0.0017	0.0009	NM	4.43E+00	2.13E+00	120	6	6
5.37408	5.29	269	268.9	1.97	-0.73	0.0011	0.0008	NM	4.48E+00	2.15E+00	120	5	6
5.43668	5.19	222.2	222.3	2.34	0.52	0.0005	0.0011	NM	4.53E+00	2.18E+00	120	5	6
5.49808	4.88	192.9	193.2	2.53	1.28	0.0007	0.0018	NM	4.58E+00	2.20E+00	120	5	6
5.56229	4.05	173.9	174.3	2.32	2.06	0.0001	0.001	NM	4.64E+00	2.23E+00	120	5	6
5.6269	3.49	219.3	219.7	1.59	2.41	0.0004	0.0011	NM	4.69E+00	2.25E+00	120	5	6
5.69151	3.23	320.2	320.2	1.01	-0.03	0.0009	0.002	NM	4.74E+00	2.28E+00	120	6	6
5.75251	3.21	324.6	324.3	0.99	-1.43	0.0035	0.0017	NM	4.79E+00	2.30E+00	120	6	6
5.81551	3.62	307	306.2	1.18	-4.31	0.0026	0.0017	NM	4.85E+00	2.33E+00	120	6	6
5.87651	3.66	302.7	301.6	1.21	-5.66	0.0005	0.0012	NM	4.90E+00	2.35E+00	120	6	6
5.93951	3.6	326.1	325	1.11	-5.41	0.0023	0.0018	NM	4.95E+00	2.38E+00	120	6	6
6.00051	3.79	391.9	390.9	0.97	-5.41	0.0026	0.0012	NM	5.00E+00	2.40E+00	120	6	6
6.06633	4.01	331.9	330.6	1.21	-6.75	0.0026	0.002	NM	5.06E+00	2.43E+00	120	6	6
6.12853	4.25	206.1	205.8	2.07	-1.38	0.0022	0.0019	NM	5.11E+00	2.45E+00	120	5	6
6.19033	4.73	144.6	145.1	3.26	2.16	0.0022	0.0021	NM	5.16E+00	2.48E+00	120	4	6
6.25454	5.39	159.3	159.8	3.37	2.66	0.0036	0.0025	NM	5.21E+00	2.50E+00	120	4	6
6.31634	5.35	166.6	167.2	3.2	3.15	0.0064	0.0027	NM	5.26E+00	2.53E+00	120	5	6
6.38055	4.62	171	171.8	2.69	4.5	0.0085	0.0038	NM	5.32E+00	2.55E+00	120	5	6
6.44235	4.49	178.3	179	2.51	3.5	0.0118	0.0073	NM	5.37E+00	2.58E+00	120	5	6
6.50495	5.11	184.1	184.5	2.77	2.06	0.0181	0.0068	NM	5.42E+00	2.60E+00	120	5	6
6.56755	5.71	200.2	200.6	2.85	1.86	0.0195	0.0071	NM	5.47E+00	2.63E+00	120	5	6
6.62775	5.72	209	209.2	2.74	1.21	0.0205	0.0072	NM	5.52E+00	2.65E+00	120	5	6
6.68955	5.45	213.4	213.5	2.55	0.57	0.0201	0.0077	NM	5.58E+00	2.68E+00	120	5	6
6.75014	5.23	220.7	220.8	2.37	0.32	0.019	0.0076	NM	5.63E+00	2.70E+00	120	5	6
6.81275	4.84	260.2	260.3	1.86	0.47	0.0194	0.0076	NM	5.68E+00	2.73E+00	120	5	6
6.87495	4.97	394.8	395	1.26	0.68	0.0196	0.0076	NM	5.73E+00	2.75E+00	120	6	6
6.93755	9.05	601.1	601	1.51	-0.78	0.019	0.0073	NM	5.78E+00	2.78E+00	120	6	7
6.99935	10.84	693.3	693.1	1.56	-1.13	0.0191	0.007	NM	5.83E+00	2.80E+00	120	6	7
7.06155	9.76	820.6	820	1.19	-3.27	0.0188	0.007	NM	5.89E+00	2.83E+00	120	6	7
7.12496	9.49	906.9	906.3	1.05	-3.42	0.0186	0.0069	NM	5.94E+00	2.85E+00	120	6	7
7.18596	9.59	1019.6	1018.5	0.94	-5.61	0.0186	0.0068	NM	5.99E+00	2.87E+00	120	6	7
7.24655	9.62	939.1	938.2	1.03	-4.91	0.0189	0.0067	NM	6.04E+00	2.90E+00	120	6	7
7.31156	9.65	882.1	880.9	1.1	-6.1	0.0192	0.0071	NM	6.09E+00	2.93E+00	120	6	7
7.37176	7.92	1045.9	1044.5	0.76	-7.7	0.0197	0.0074	NM	6.14E+00	2.95E+00	120	6	7
7.43436	7.76	1145.4	1143.9	0.68	-8	0.0196	0.0074	NM	6.20E+00	2.97E+00	120	6	7
7.49616	9.15	1268.3	1266.9	0.72	-7.5	0.0194	0.0073	NM	6.25E+00	3.00E+00	120	6	7
7.55877	8	1344.4	1342.8	0.6	-8.64	0.02	0.0074	NM	6.30E+00	3.02E+00	120	7	7
7.61936	8.36	1464.4	1462.8	0.57	-8.34	0.0201	0.0075	NM	6.35E+00	3.05E+00	120	7	7
7.68036	7.39	1572.7	1571	0.47	-8.64	0.0195	0.0076	NM	6.40E+00	3.07E+00	120	7	7
7.75948	5.36	1688.4	1686.9	0.32	-7.54	0.0197	0.0077	NM	6.47E+00	3.10E+00	120	7	7
7.81653	4.8	1716.2	1714.7	0.28	-7.59	0.0198	0.0079	NM	6.51E+00	3.13E+00	120	7	7
7.876	9.15	1830.4	1829.2	0.5	-6.55	0.0192	0.007	NM	6.56E+00	3.15E+00	120	7	7
7.93548	13.33	1817.3	1816.2	0.73	-5.4	0.0192	0.0076	NM	6.61E+00	3.17E+00	120	7	7
7.99653	14.43	1889	1888.1	0.76	-4.7	0.0191	0.008	NM	6.66E+00	3.20E+00	120	7	7
8.0576	12.76	1952	1951.2	0.65	-3.76	0.0193	0.0077	NM	6.72E+00	3.22E+00	120	7	7
8.1235	13.75	2063.2	2062.7	0.67	-2.81	0.0188	0.0077	NM	6.77E+00	3.25E+00	120	7	7
8.18497	15.14	2246.3	2245.8	0.67	-2.28	0.0185	0.0076	NM	6.82E+00	3.27E+00	120	7	7
8.24323	32.83	2404.4	2403.8	1.37	-3.06	0.0183	0.0077	NM	6.87E+00	3.30E+00	120	6	7
8.30229	45.16	2533.3	2532.9	1.78	-1.96	0.0183	0.0078	NM	6.92E+00	3.32E+00	120	8	7

8.36416	48.44	2641.6	2640.7	1.83	-4.8	0.019	0.0079	NM	6.97E+00	3.35E+00	120	8	7
8.42403	53.39	2408.8	2408.1	2.22	-3.86	0.0158	0.0076	NM	7.02E+00	3.37E+00	120	8	7
8.48671	52.71	2490.8	2489.7	2.12	-5.95	0.0135	0.0068	NM	7.07E+00	3.40E+00	120	8	7
8.55059	40.33	2769	2767.9	1.46	-5.85	0.0163	0.0069	NM	7.13E+00	3.42E+00	120	6	7
8.61207	39.74	2776.3	2775.5	1.43	-4.3	0.0187	0.0071	NM	7.18E+00	3.45E+00	120	6	7
8.67153	38.66	2821.7	2820.5	1.37	-6.1	0.0182	0.007	NM	7.23E+00	3.47E+00	120	6	7
8.733	29.89	2905.2	2904.1	1.03	-5.4	0.0172	0.0068	NM	7.28E+00	3.49E+00	120	6	7
8.79287	27.08	2730.9	2730.1	0.99	-4.16	0.0163	0.0067	NM	7.33E+00	3.52E+00	120	6	7
8.85354	23.9	2350.2	2349.7	1.02	-3.06	0.0158	0.0065	NM	7.38E+00	3.54E+00	120	6	7
8.91742	21.81	1912.4	1912.1	1.13	-1.66	0.0158	0.0066	NM	7.43E+00	3.57E+00	120	6	7
8.97849	20.2	1512.7	1512.7	1.34	0.08	0.0162	0.0071	NM	7.48E+00	3.59E+00	120	6	7
9.03956	16.26	1768.9	1769.2	0.92	1.52	0.0158	0.0069	NM	7.53E+00	3.62E+00	120	6	7
9.09782	17.96	1930	1930.3	0.93	1.37	0.0152	0.007	NM	7.58E+00	3.64E+00	120	6	7
9.1605	10.38	1916.8	1917.1	0.54	1.52	0.0162	0.0065	NM	7.63E+00	3.66E+00	120	7	7
9.22157	6.56	1843.6	1843.9	0.36	1.52	0.0153	0.0068	NM	7.69E+00	3.69E+00	120	7	7
9.28184	6.93	1730.9	1731.2	0.4	1.67	0.0159	0.0069	NM	7.74E+00	3.71E+00	120	7	7
9.34251	6.55	1629.8	1630.2	0.4	1.82	0.0161	0.0071	NM	7.79E+00	3.74E+00	120	7	7
9.40599	5.83	1607.9	1608.2	0.36	1.57	0.0176	0.0073	NM	7.84E+00	3.76E+00	120	7	7
9.46746	5.44	1575.7	1576	0.35	1.67	0.0164	0.0074	NM	7.89E+00	3.79E+00	120	7	7
9.52812	5.3	1556.6	1557	0.34	1.82	0.0178	0.0072	NM	7.94E+00	3.81E+00	120	7	7
9.59001	5.3	1531.7	1532.1	0.35	1.87	0.0171	0.0067	NM	7.99E+00	3.84E+00	120	7	7
9.65028	5.37	1492.2	1492.5	0.36	1.47	0.0183	0.0072	NM	8.04E+00	3.86E+00	120	7	7
9.71215	5.86	1433.6	1433.9	0.41	1.37	0.0184	0.0075	NM	8.09E+00	3.89E+00	120	7	7
9.77161	5.95	1379.5	1379.7	0.43	1.47	0.0187	0.0077	NM	8.14E+00	3.91E+00	120	7	7
9.83469	6.24	1332.6	1332.9	0.47	1.62	0.0176	0.0076	NM	8.20E+00	3.93E+00	120	7	7
9.89657	6.42	1306.2	1306.6	0.49	1.67	0.0176	0.0074	NM	8.25E+00	3.96E+00	120	7	7
9.95523	6.31	1277	1277.3	0.49	1.72	0.0189	0.0075	NM	8.30E+00	3.98E+00	120	7	7
10.01389	6.3	1260.8	1261.2	0.5	1.77	0.0191	0.0073	NM	8.35E+00	4.01E+00	120	6	7
10.07496	6.3	1241.8	1242.1	0.51	1.72	0.0188	0.0074	NM	8.40E+00	4.03E+00	120	6	7
10.13443	6.05	1236	1236.3	0.49	1.77	0.0187	0.0076	NM	8.45E+00	4.05E+00	120	6	7
10.19871	5.82	1227.2	1227.5	0.47	1.87	0.0188	0.0077	NM	8.50E+00	4.08E+00	120	6	7
10.25938	5.87	1238.9	1239.2	0.47	1.87	0.0186	0.0079	NM	8.55E+00	4.10E+00	120	6	7
10.32125	5.63	1241.8	1242.2	0.45	1.97	0.018	0.0078	NM	8.60E+00	4.13E+00	120	7	7
10.38152	5.43	1250.6	1251	0.43	2.02	0.0182	0.0076	NM	8.65E+00	4.15E+00	120	7	7
10.4446	5.33	1250.6	1251	0.43	2.07	0.0182	0.0078	NM	8.70E+00	4.18E+00	120	7	7
10.50608	5.31	1240.3	1240.7	0.43	2.07	0.0178	0.0079	NM	8.76E+00	4.20E+00	120	7	7
10.56715	5.3	1236	1236.3	0.43	2.02	0.0179	0.0077	NM	8.81E+00	4.23E+00	120	7	7
10.62862	5.41	1268.2	1268.6	0.43	2.07	0.0179	0.0078	NM	8.86E+00	4.25E+00	120	7	7
10.68929	5.51	1291.6	1292	0.43	2.12	0.0175	0.008	NM	8.91E+00	4.28E+00	120	7	7
10.74996	5.6	1313.6	1314	0.43	2.32	0.0173	0.0079	NM	8.96E+00	4.30E+00	120	7	7
10.80902	5.68	1307.7	1308.2	0.43	2.37	0.0172	0.0077	NM	9.01E+00	4.32E+00	120	7	7
10.87009	5.95	1318	1318.5	0.45	2.57	0.0173	0.0077	NM	9.06E+00	4.35E+00	120	7	7
10.93036	6.2	1331.1	1331.6	0.47	2.67	0.0176	0.0079	NM	9.11E+00	4.37E+00	120	7	7
10.99083	6.2	1344.3	1344.8	0.46	2.67	0.0181	0.0081	NM	9.16E+00	4.40E+00	120	7	7
11.17789	6.58	1410.2	1410.7	0.47	2.37	0.0182	0.0078	NM	9.32E+00	4.47E+00	120	7	7
11.23416	6.73	1445.3	1445.9	0.47	2.87	0.019	0.0078	NM	9.36E+00	4.49E+00	120	7	7
11.29564	6.97	1470.2	1470.6	0.47	2.87	0.0186	0.0078	NM	9.41E+00	4.52E+00	120	7	7
11.35914	7.11	1471.7	1472.2	0.48	2.72	0.0183	0.0079	NM	9.47E+00	4.54E+00	120	7	7
11.42264	7.14	1448.3	1448.8	0.49	2.52	0.0189	0.0081	NM	9.52E+00	4.57E+00	120	6	7
11.4781	7.16	1410.2	1410.7	0.51	2.42	0.0185	0.0083	NM	9.57E+00	4.59E+00	120	6	7
11.53959	7.15	1385.3	1385.8	0.52	2.37	0.0185	0.0082	NM	9.62E+00	4.62E+00	120	6	7
11.60067	7.06	1385.3	1385.8	0.51	2.42	0.018	0.0084	NM	9.67E+00	4.64E+00	120	6	7

11.66055	6.93	1392.6	1393.1	0.5	2.67	0.0188	0.0068	NM	9.72E+00	4.66E+00	120	6	7
11.72285	6.79	1391.2	1391.7	0.49	2.87	0.0193	0.0083	NM	9.77E+00	4.69E+00	120	6	7
11.78674	6.65	1386.8	1387.3	0.48	2.87	0.0192	0.0084	NM	9.82E+00	4.72E+00	120	6	7
11.85064	6.42	1385.3	1385.9	0.46	2.97	0.0185	0.0086	NM	9.86E+00	4.74E+00	120	6	7
11.91133	6.23	1379.5	1380	0.45	2.92	0.0188	0.0089	NM	9.93E+00	4.77E+00	120	6	7
11.97201	6.12	1389.2	1389.8	0.45	3.07	0.019	0.0093	NM	9.98E+00	4.79E+00	120	6	7
12.0339	6.03	1354.6	1355.1	0.44	3.07	0.0188	0.0093	NM	1.00E+01	4.81E+00	120	6	7
12.09458	5.94	1328.2	1328.8	0.45	3.17	0.0188	0.0093	NM	1.01E+01	4.84E+00	120	6	7
12.15688	5.83	1294.5	1295.1	0.45	3.12	0.0195	0.0094	NM	1.01E+01	4.86E+00	120	6	7
12.22078	5.67	1263.8	1264.4	0.45	3.12	0.0192	0.0094	NM	1.02E+01	4.89E+00	120	6	7
12.28508	5.46	1240.3	1240.9	0.44	3.12	0.0189	0.0094	NM	1.02E+01	4.91E+00	120	6	7
12.34415	5.3	1216.9	1217.5	0.44	3.27	0.0188	0.0094	NM	1.03E+01	4.94E+00	120	6	7
12.40886	5.12	1197.9	1198.5	0.43	3.32	0.0191	0.0091	NM	1.03E+01	4.96E+00	120	6	7
12.46914	5.02	1177.4	1178	0.43	3.37	0.0188	0.0093	NM	1.04E+01	4.99E+00	120	6	7
12.53063	4.91	1159.8	1160.5	0.42	3.47	0.0195	0.0097	NM	1.04E+01	5.01E+00	120	6	7
12.59211	4.71	1139.3	1140.1	0.41	4.11	0.0192	0.0096	NM	1.05E+01	5.04E+00	120	6	7
12.65681	4.53	1117.4	1118	0.4	3.32	0.0189	0.0097	NM	1.06E+01	5.06E+00	120	6	7
12.71911	4.44	1093.9	1094.6	0.41	3.37	0.0184	0.0096	NM	1.06E+01	5.09E+00	120	6	7
12.78019	4.33	1066.1	1066.8	0.41	3.67	0.019	0.0095	NM	1.07E+01	5.11E+00	120	6	7
12.84409	4.25	1033.9	1034.6	0.41	3.57	0.0198	0.0093	NM	1.07E+01	5.14E+00	120	6	7
12.90638	4.19	1001.7	1002.4	0.42	3.52	0.0193	0.0094	NM	1.08E+01	5.16E+00	120	6	7
12.96787	4.09	973.9	974.5	0.42	3.47	0.0197	0.0094	NM	1.08E+01	5.19E+00	120	6	7
13.03056	3.97	962.1	962.8	0.41	3.52	0.0205	0.0094	NM	1.09E+01	5.21E+00	120	6	7
13.09245	3.93	959.2	959.9	0.41	3.47	0.0191	0.0095	NM	1.09E+01	5.24E+00	120	6	7
13.15595	4.47	963.6	964.3	0.46	3.57	0.0194	0.0095	NM	1.10E+01	5.26E+00	120	6	7
13.21503	5.18	973.9	974.6	0.53	3.72	0.0189	0.0094	NM	1.10E+01	5.29E+00	120	6	7
13.27531	9.31	984.1	984.9	0.95	4.11	0.0192	0.0095	NM	1.11E+01	5.31E+00	120	6	7
13.33599	11.15	997.3	998.1	1.12	4.01	0.0197	0.0094	NM	1.11E+01	5.33E+00	120	6	7
13.39828	10.19	1019.2	1020	1	3.96	0.0191	0.0092	NM	1.12E+01	5.36E+00	120	6	7
13.46017	9.67	1047.1	1047.8	0.92	4.01	0.0188	0.0096	NM	1.12E+01	5.38E+00	120	6	7
13.52327	9.44	1110	1110.8	0.85	4.01	0.0188	0.0095	NM	1.13E+01	5.41E+00	120	6	7
13.58516	9.21	1066.1	1066.8	0.86	3.47	0.0189	0.0094	NM	1.13E+01	5.43E+00	120	6	7
13.64504	8.85	1025.1	1025.8	0.86	3.72	0.0185	0.0094	NM	1.14E+01	5.46E+00	120	6	7
13.71014	7.96	1054.4	1055.2	0.75	4.11	0.0195	0.0095	NM	1.14E+01	5.48E+00	120	6	7
13.77123	7.65	1083.7	1084.5	0.71	4.31	0.0194	0.0096	NM	1.15E+01	5.51E+00	120	6	7
13.83312	6.25	1107.1	1107.9	0.56	4.11	0.0189	0.0095	NM	1.15E+01	5.53E+00	120	6	7
13.89621	5.29	1121.7	1122.5	0.47	3.81	0.0188	0.0094	NM	1.16E+01	5.56E+00	120	6	7
13.9565	4.69	1127.6	1128.4	0.42	4.11	0.019	0.0095	NM	1.16E+01	5.58E+00	120	6	7
14.01879	5.04	1113	1113.8	0.45	4.16	0.0194	0.0095	NM	1.17E+01	5.61E+00	120	6	7
14.07867	4.55	1148.6	1147.5	0.4	4.31	0.0191	0.0094	NM	1.17E+01	5.63E+00	120	6	7
14.14257	4.43	1180.3	1181.2	0.38	4.36	0.0196	0.0095	NM	1.18E+01	5.66E+00	120	6	7
14.20285	4.57	1209.6	1210.4	0.38	4.21	0.0198	0.0095	NM	1.18E+01	5.68E+00	120	6	7
14.26474	4.77	1231.6	1232.4	0.39	4.31	0.0198	0.0096	NM	1.19E+01	5.71E+00	120	6	7
14.32291	4.9	1178.5	1179.5	0.42	5.06	0.0197	0.0097	NM	1.19E+01	5.72E+00	120	6	7
14.38117	4.99	1194.6	1195.5	0.42	4.86	0.0188	0.0096	NM	1.20E+01	5.74E+00	120	6	7
14.42064	5	1202	1202.9	0.42	4.81	0.0187	0.0097	NM	1.20E+01	5.77E+00	120	6	7
14.48131	4.85	1202	1202.9	0.4	4.71	0.0197	0.0103	NM	1.21E+01	5.79E+00	120	6	7
14.53857	4.62	1215.2	1216.1	0.38	4.96	0.0189	0.0099	NM	1.21E+01	5.82E+00	120	6	7
14.60305	4.52	1222.5	1223.4	0.37	4.91	0.0192	0.0094	NM	1.22E+01	5.84E+00	120	6	7
14.66974	4.52	1247.4	1248.4	0.36	5.16	0.0196	0.0098	NM	1.22E+01	5.87E+00	120	6	7
14.73363	4.4	1284.1	1285.1	0.34	5.21	0.0196	0.01	NM	1.23E+01	5.89E+00	120	6	7
14.79269	4.34	1344.2	1345.1	0.32	5.11	0.0203	0.0101	NM	1.23E+01	5.92E+00	120	6	7

14.85416	4.49	1413	1414	0.32	5.11	0.0194	0.0099	NM	1.24E+01	5.94E+00	120	7	7
14.91724	4.66	1487.8	1488.8	0.31	5.06	0.0208	0.0096	NM	1.24E+01	5.97E+00	120	7	7
14.97791	4.65	1553.7	1554.7	0.3	5.06	0.019	0.0098	NM	1.25E+01	5.99E+00	120	7	7
15.0422	4.67	1616.8	1617.7	0.29	4.86	0.0198	0.0096	NM	1.25E+01	6.02E+00	120	7	7
15.10728	4.75	1675.4	1676.7	0.28	6.51	0.0197	0.0097	NM	1.26E+01	6.04E+00	120	7	7
15.17117	4.9	1735.5	1736.4	0.28	4.96	0.0204	0.01	NM	1.26E+01	6.07E+00	120	7	7
15.22983	5.11	1764.8	1765.9	0.29	5.81	0.019	0.0101	NM	1.27E+01	6.09E+00	120	7	7
15.29371	5.13	1795.6	1796.5	0.29	4.61	0.0191	0.0098	NM	1.27E+01	6.12E+00	120	7	7
15.35599	5.56	1846.9	1847.9	0.3	5.26	0.0194	0.0095	NM	1.28E+01	6.14E+00	120	7	7
15.41787	9.86	1921.6	1922.6	0.51	5.16	0.0187	0.0095	NM	1.29E+01	6.17E+00	120	6	7
15.48094	11.76	1992	1993	0.59	5.26	0.0194	0.0098	NM	1.29E+01	6.19E+00	120	6	7
15.54603	10.83	2012.5	2013.4	0.54	4.61	0.0206	0.0096	NM	1.30E+01	6.22E+00	120	6	7
15.60711	11.04	1994.9	1995.6	0.55	3.72	0.0208	0.01	NM	1.30E+01	6.24E+00	120	6	7
15.66858	10.92	1959.7	1960.5	0.56	4.02	0.0206	0.0102	NM	1.31E+01	6.27E+00	120	6	7
15.73045	11.29	1989.1	1989.7	0.57	3.42	0.0204	0.0102	NM	1.31E+01	6.29E+00	120	6	7
15.79353	11.89	1909.9	1910.4	0.62	2.42	0.0209	0.0104	NM	1.32E+01	6.32E+00	120	6	7
15.8534	13.11	1885	1885.8	0.69	4.07	0.0204	0.0103	NM	1.32E+01	6.34E+00	120	6	7
15.91809	13.43	1981.7	1982.9	0.68	5.86	0.0199	0.0104	NM	1.33E+01	6.37E+00	120	6	7
15.98157	13.68	1989.1	1990.3	0.69	6.51	0.02	0.0102	NM	1.33E+01	6.39E+00	120	6	7
16.04264	13.19	2016.9	2018.3	0.65	7.36	0.0209	0.0101	NM	1.34E+01	6.42E+00	120	6	7
16.10331	12.84	2034.5	2035.7	0.63	6.26	0.0204	0.0101	NM	1.34E+01	6.44E+00	120	6	7
16.16679	13.75	2068.2	2069.1	0.66	4.41	0.0202	0.0103	NM	1.35E+01	6.47E+00	120	6	7
16.22786	13.96	2052.1	2053.1	0.68	5.31	0.0213	0.0105	NM	1.35E+01	6.49E+00	120	6	7
16.28853	13.82	2046.2	2047	0.68	4.02	0.0209	0.0107	NM	1.36E+01	6.52E+00	120	6	7
16.35242	14.18	2041.8	2042.3	0.69	2.57	0.0201	0.0107	NM	1.36E+01	6.54E+00	120	6	7
16.41469	14.64	2014	2014.7	0.73	3.72	0.0194	0.0105	NM	1.37E+01	6.57E+00	120	6	7
16.47536	14.94	1990.5	1990.9	0.75	1.92	0.0209	0.0105	NM	1.37E+01	6.59E+00	120	6	7
16.53482	15.22	1978.8	1979	0.77	1.12	0.021	0.0106	NM	1.38E+01	6.61E+00	120	6	7
16.5959	15.65	1948	1948.2	0.8	0.82	0.0208	0.0112	NM	1.38E+01	6.64E+00	120	6	7
16.65697	15.92	1911.4	1911.5	0.83	0.78	0.0209	0.0114	NM	1.39E+01	6.66E+00	120	6	7
16.71804	16.11	1880.6	1880.7	0.86	0.73	0.0209	0.0116	NM	1.39E+01	6.69E+00	120	6	7
16.78152	16.45	1842.5	1842.6	0.89	0.82	0.021	0.0117	NM	1.40E+01	6.71E+00	120	6	7
16.8446	16.81	1824.9	1825	0.92	0.78	0	0	NM	1.40E+01	6.74E+00	120	6	7
16.90648	17.02	1805.8	1806	0.94	0.87	0	0	NM	1.41E+01	6.76E+00	120	6	7
16.96835	17.3	1795.6	1795.8	0.96	0.87	0	0	NM	1.41E+01	6.79E+00	120	6	7
17.03223	17.44	1797.1	1797.2	0.97	1.02	0	0	NM	1.42E+01	6.81E+00	120	6	7
17.0925	17.25	1797.1	1797.3	0.96	1.32	0	0	NM	1.42E+01	6.84E+00	120	6	7
17.15317	17.06	1795.6	1795.9	0.95	1.57	0	0	NM	1.43E+01	6.86E+00	120	6	7
17.21826	17.15	1800	1800.3	0.95	1.82	0	0	NM	1.44E+01	6.89E+00	120	6	7
17.27893	15.24	1802.9	1803.3	0.85	1.82	0	0	NM	1.44E+01	6.91E+00	120	6	7
17.34121	13.78	1810.2	1810.6	0.76	2.02	0	0	NM	1.45E+01	6.94E+00	120	6	7
17.40388	13.27	1833.7	1834.1	0.72	1.92	0	0	NM	1.45E+01	6.96E+00	120	6	7
17.46495	14.42	1860.1	1860.5	0.77	2.07	0	0	NM	1.46E+01	6.99E+00	120	6	7
17.52643	14.41	1880.6	1880.9	0.77	1.67	0	0	NM	1.46E+01	7.01E+00	120	6	7
17.58589	14	1918.7	1919	0.73	1.67	0	0	NM	1.47E+01	7.03E+00	120	6	7
17.65215	14.26	1952.4	1953.2	0.73	3.87	0	0	NM	1.47E+01	7.06E+00	120	6	7
17.7132	14.74	2062.3	2062.9	0.71	3.02	0	0	NM	1.48E+01	7.09E+00	120	6	7
17.77143	14.98	2135.6	2136.2	0.7	2.92	0	0	NM	1.48E+01	7.11E+00	120	6	7
17.83126	15.08	2163.5	2164.7	0.7	6.51	0	0	NM	1.49E+01	7.13E+00	120	6	7
17.89271	15.42	2324.7	2325.5	0.66	4.37	0	0	NM	1.49E+01	7.16E+00	120	6	7
17.95777	16.84	2458.1	2459	0.66	4.66	0	0	NM	1.50E+01	7.18E+00	120	6	7
18.02082	16.28	2569.5	2570.7	0.63	6.36	0	0	NM	1.50E+01	7.21E+00	120	6	7

18.08025	15.59	2698.5	2699.7	0.58	6.56	0	0	NM	1.51E+01	7.23E+00	120	7	7
18.14009	15.35	2837.7	2838.8	0.54	5.96	0	0	NM	1.51E+01	7.26E+00	120	7	7
18.20033	15.31	3023.8	3024.9	0.51	5.36	0	0	NM	1.52E+01	7.28E+00	120	7	7
18.25936	15.22	3226.1	3227	0.47	4.71	0	0	NM	1.52E+01	7.30E+00	120	7	7
18.32201	15.34	3333.1	3335	0.46	9.9	0	0	NM	1.53E+01	7.33E+00	120	7	7
18.38305	16.09	3495.8	3496.9	0.46	5.81	0	0	NM	1.53E+01	7.35E+00	120	7	7
18.44731	25.85	3659.9	3661.4	0.71	7.31	0	0	NM	1.54E+01	7.38E+00	120	7	7
18.50554	42.18	3871	3872.3	1.09	6.61	0	0	NM	1.54E+01	7.40E+00	120	6	7
18.56457	41.77	4130.4	4131.9	1.01	7.56	0	0	NM	1.55E+01	7.43E+00	120	6	7
18.622	45.49	4542.3	4543.5	1	6.11	0	0	NM	1.55E+01	7.45E+00	120	6	7
18.68063	78.12	5119.8	5121.1	1.53	6.61	0	0	NM	1.56E+01	7.47E+00	120	6	7
18.73726	109.63	5667.9	5670	1.93	10.45	0	0	NM	1.56E+01	7.50E+00	120	8	7
18.79589	142.26	6444.8	6445.5	2.21	3.77	0	0	NM	1.57E+01	7.52E+00	120	8	7
18.85412	177.64	6820	6820.1	2.8	0.53	0	0	NM	1.57E+01	7.54E+00	120	8	7
18.90873	0	6968	6967.9	0	-0.47	0	0	NM	1.58E+01	7.56E+00	120	-99	7
18.96174	0	7670.1	7670	0	-0.22	0	0	NM	1.58E+01	7.59E+00	120	-99	-99
19.16535	0	6802.4	6802.8	0	2.12	0	0	NM	1.60E+01	7.67E+00	120	-99	7
19.21033	0	7851.8	7851.8	0	-0.37	0	0	NM	1.60E+01	7.68E+00	120	-99	-99

Electric Cone Penetrometer Data

Cone_TAP v 2.90

Test Id: HD-15 Date: 5-Nov-03

Site: SUNNYSIDE Cone Id: 108.034XXX

Location: QUEENS NY

Project: ROUX Soil Density(pcf): 120

Client: ROUX

Depth (ft)	Sleeve Stress (psi)	Tip Stress UNC (psi)	Tip Stress COR (psi)	Ratio COR (%)	Pore Pressure (psi)	LFFD (V)	HFFD (V)	Excitation (Vdc)	Overburden (psi)	Eff. Overburden (psi)	Wet Density (pcf)	Class. FR (Rob. 1990)	Class. PP (Rob. 1990)
0	0	0	0	0	0	0	0	NM	0.00E+00	0.00E+00	120	-99	-99
0.1482	0	212.1	212.1	0	0.07	0.0542	0.0209	NM	1.24E-01	5.93E-02	120	-99	-99
0.20282	0	220.9	220.9	0	0.22	0.0554	0.0217	NM	1.69E-01	8.11E-02	120	-99	-99
0.25624	0	288.3	288.3	0	0.12	0.0568	0.0222	NM	2.14E-01	1.03E-01	120	-99	-99
0.31008	1.71	304.4	304.4	0.56	0.03	0.0557	0.0217	NM	2.58E-01	1.24E-01	120	-99	-99
0.36227	2.17	327.9	327.9	0.66	0.22	0.0552	0.0214	NM	3.02E-01	1.45E-01	120	-99	-99
0.41368	2.34	367.5	367.5	0.64	0.22	0.0562	0.0222	NM	3.45E-01	1.68E-01	120	-99	-99
0.46709	2.35	418.7	418.9	0.56	0.62	0.0564	0.0225	NM	3.89E-01	1.87E-01	120	-99	-99
0.52854	3.57	451	451.1	0.79	0.77	0.0555	0.022	NM	4.41E-01	2.11E-01	120	-99	-99
0.55987	2.95	478.8	479	0.62	0.57	0.0548	0.0214	NM	4.67E-01	2.24E-01	120	-99	-99
0.592	3.03	483.2	483.3	0.63	0.37	0.0546	0.0212	NM	4.93E-01	2.37E-01	120	-99	-99
0.62373	3.81	478.8	478.9	0.79	0.27	0.0552	0.0212	NM	5.20E-01	2.50E-01	120	-99	-99
0.65545	3.71	502.3	502.3	0.74	0.07	0.0558	0.023	NM	5.46E-01	2.62E-01	120	-99	-99
0.68759	3.56	509.6	509.6	0.7	-0.07	0.0565	0.0251	NM	5.73E-01	2.75E-01	120	-99	-99
0.72012	3.89	518.4	518.5	0.75	0.42	0.0566	0.0239	NM	6.00E-01	2.88E-01	120	-99	-99
0.75144	3.95	527.2	527.2	0.75	0.07	0.0568	0.0222	NM	6.26E-01	3.01E-01	120	-99	-99
0.78237	5.1	533.1	533.2	0.96	0.72	0.0568	0.0222	NM	6.52E-01	3.13E-01	120	-99	-99
0.8149	3.52	547.7	547.8	0.64	0.22	0.0571	0.0222	NM	6.79E-01	3.26E-01	120	-99	-99
0.84743	3.53	578.5	578.7	0.61	0.77	0.0572	0.0222	NM	7.06E-01	3.39E-01	120	-99	-99
0.87916	3.5	591.7	591.9	0.59	0.97	0.0573	0.0222	NM	7.33E-01	3.52E-01	120	-99	-99
0.90968	3.44	587.3	587.4	0.59	0.57	0.0571	0.0222	NM	7.58E-01	3.64E-01	120	-99	-99
0.94181	3.46	572.7	572.7	0.6	0.47	0.0568	0.0221	NM	7.85E-01	3.77E-01	120	-99	-99
0.97314	3.41	531.6	531.8	0.64	1.12	0.0564	0.0219	NM	8.11E-01	3.89E-01	120	-99	-99
1.00407	3.38	515.5	515.6	0.66	0.52	0.056	0.0217	NM	8.37E-01	4.02E-01	120	-99	-99
1.0366	3.35	481.8	481.8	0.69	0.17	0.0555	0.0214	NM	8.64E-01	4.15E-01	120	-99	-99
1.07074	3.1	470.1	470.1	0.66	0.42	0.0551	0.0212	NM	8.92E-01	4.28E-01	120	-99	-99
1.10086	2.86	443.7	443.7	0.65	0.42	0.0548	0.0211	NM	9.17E-01	4.40E-01	120	-99	-99
1.13138	2.63	411.4	411.4	0.64	0.03	0.055	0.0211	NM	9.43E-01	4.53E-01	120	7	7
1.16391	2.37	376.2	376.2	0.63	-0.32	0.0557	0.0213	NM	9.70E-01	4.66E-01	120	7	7
1.19524	2.13	345.5	345.5	0.62	0.32	0.0561	0.0214	NM	9.96E-01	4.78E-01	120	7	7
1.22697	1.88	325	325	0.58	0.07	0.0562	0.0214	NM	1.02E+00	4.91E-01	120	7	7
1.2599	1.7	303	303	0.56	0.03	0.0557	0.0216	NM	1.05E+00	5.04E-01	120	7	7
1.29203	1.85	294.2	294.2	0.63	0.07	0.0549	0.022	NM	1.08E+00	5.17E-01	120	7	7
1.32456	3.11	275.1	275.1	1.13	-0.07	0.0543	0.0215	NM	1.10E+00	5.30E-01	120	8	7
1.38682	5.58	232.6	232.6	2.4	0.12	0.0533	0.0203	NM	1.16E+00	5.55E-01	120	8	7
1.59424	2.36	161.6	161.6	1.46	-0.05	0.0528	0.0217	NM	1.33E+00	6.38E-01	120	6	7
1.63034	2.34	174.8	174.8	1.34	0	0.0522	0.0201	NM	1.36E+00	6.52E-01	120	6	7
1.66563	2.3	223.2	223.2	1.03	0.15	0.0521	0.0211	NM	1.39E+00	6.66E-01	120	6	7
1.70815	2.55	76.5	76.5	3.33	-0.1	0.0522	0.0212	NM	1.42E+00	6.83E-01	120	5	6

1.74748	4.21	64.8	64.9	6.49	0.3	0.0526	0.0206	NM	1.46E+00	6.99E-01	120	9	6
1.79078	5.89	88.3	88.3	6.67	0.2	0.0553	0.021	NM	1.49E+00	7.16E-01	120	9	6
1.8337	6.82	79.5	79.5	8.58	0.1	0.0568	0.0212	NM	1.53E+00	7.34E-01	120	9	6
1.87702	7.03	111.7	111.8	6.29	0.1	0.0561	0.0207	NM	1.56E+00	7.51E-01	120	9	6
1.91954	7.4	120.5	120.6	6.14	0.25	0.049	0.0207	NM	1.60E+00	7.68E-01	120	9	6
1.96526	5.53	145.5	145.5	3.8	0.35	0.043	0.0197	NM	1.64E+00	7.86E-01	120	8	7
2.013	4.61	204.1	204.2	2.26	0.2	0.043	0.0165	NM	1.68E+00	8.05E-01	120	6	7
2.06233	4.92	252.5	252.5	1.95	0.2	0.0429	0.016	NM	1.72E+00	8.25E-01	120	6	7
2.11127	6.4	613.2	613.2	1.04	-0.4	0.043	0.0176	NM	1.76E+00	8.45E-01	120	6	7
2.16461	8	1070.8	1070.8	0.75	-0.05	0.0433	0.019	NM	1.80E+00	8.66E-01	120	-99	-99
2.21676	8.6	1396.3	1396.3	0.62	0.1	0.0434	0.016	NM	1.85E+00	8.87E-01	120	-99	-99
2.27211	9.47	1658.8	1658.9	0.57	0.65	0.0419	0.0161	NM	1.89E+00	9.09E-01	120	-99	-99
2.32586	10.54	2025.4	2025.7	0.52	1.35	0.0412	0.0157	NM	1.94E+00	9.30E-01	120	-99	-99
2.38322	11.13	2406.7	2407.1	0.46	2.29	0.0415	0.0157	NM	1.99E+00	9.53E-01	120	-99	-99
2.43456	12.14	2516.7	2517	0.48	1.89	0.0419	0.0159	NM	2.03E+00	9.74E-01	120	-99	-99
2.48911	13.28	2554.8	2555.1	0.52	1.79	0.0402	0.0151	NM	2.07E+00	9.96E-01	120	-99	-99
2.54246	13.71	2610.5	2610.8	0.53	1.69	0.0397	0.0152	NM	2.12E+00	1.02E+00	120	-99	-99
2.59821	13.88	2635.4	2635.8	0.53	2.04	0.0397	0.0153	NM	2.17E+00	1.04E+00	120	-99	-99
2.65437	14.04	2660.4	2660.8	0.53	2.04	0.0399	0.0156	NM	2.21E+00	1.06E+00	120	-99	-99
2.71052	14.99	2796.8	2797.2	0.54	2.14	0.0403	0.016	NM	2.26E+00	1.08E+00	120	-99	-99
2.76427	15.35	2815.8	2816.2	0.54	1.99	0.0398	0.0158	NM	2.30E+00	1.11E+00	120	-99	-99
2.82484	15.34	2598.8	2599.1	0.59	1.54	0.0395	0.0154	NM	2.35E+00	1.13E+00	120	-99	-99
2.88099	14.9	2264.4	2264.7	0.66	1.4	0.0396	0.0156	NM	2.40E+00	1.15E+00	120	-99	-99
2.94116	14.14	1890.5	1890.8	0.75	1.3	0.0405	0.0157	NM	2.45E+00	1.18E+00	120	-99	-99
2.99892	13.43	1565	1565.2	0.86	1.1	0.0408	0.0154	NM	2.50E+00	1.20E+00	120	-99	-99
3.06149	13.93	1237.9	1238.2	1.13	1.2	0.0408	0.0154	NM	2.55E+00	1.23E+00	120	-99	-99
3.12246	14.95	1009.2	1009.3	1.48	0.75	0.0407	0.0154	NM	2.60E+00	1.25E+00	120	6	7
3.18223	18.58	806.8	807	2.3	0.95	0.0406	0.0169	NM	2.65E+00	1.27E+00	120	8	7
3.24199	17.75	667.5	667.7	2.66	1	0.0406	0.0194	NM	2.70E+00	1.30E+00	120	8	7
3.30216	16.25	586.9	587.1	2.77	1.05	0.0407	0.0159	NM	2.75E+00	1.32E+00	120	8	7
3.36313	25.83	479.8	480	5.38	1.1	0.0408	0.0155	NM	2.80E+00	1.35E+00	120	9	7
3.42449	33.64	359.8	359.7	9.35	1	0.0425	0.016	NM	2.85E+00	1.37E+00	120	9	7
3.48586	32.18	342	342.2	9.4	1.4	0.0432	0.0161	NM	2.91E+00	1.39E+00	120	9	7
3.54683	28.89	1045.8	1046	2.76	0.75	0.0441	0.0211	NM	2.96E+00	1.42E+00	120	8	7
3.6074	27.46	971.1	971.2	2.83	0.6	0.0446	0.018	NM	3.01E+00	1.44E+00	120	8	7
3.66836	26.39	844.9	845.2	3.12	1.15	0.0462	0.0171	NM	3.05E+00	1.47E+00	120	8	7
3.72894	24.46	284.8	284.8	8.59	0.2	0.0457	0.0174	NM	3.11E+00	1.49E+00	120	9	7
3.79391	21.5	223.2	223.2	9.63	0.15	0.0473	0.0181	NM	3.16E+00	1.52E+00	120	9	6
3.85849	18.09	278.9	279.1	6.48	0.8	0.0494	0.0188	NM	3.21E+00	1.54E+00	120	9	7
3.92347	13.59	248.1	248.3	5.47	1.15	0.0484	0.0179	NM	3.27E+00	1.57E+00	120	9	6
3.98925	5.8	199.7	200	2.9	1.25	0.047	0.0207	NM	3.32E+00	1.60E+00	120	5	6
4.05423	5.22	163.1	163.3	3.2	1.35	0.0471	0.0197	NM	3.38E+00	1.62E+00	120	5	6
4.12162	5.55	138.1	138.4	4.01	1.59	0.0484	0.0173	NM	3.44E+00	1.65E+00	120	4	6
4.187	6.63	141.1	141.4	4.69	1.79	0.0454	0.0173	NM	3.49E+00	1.68E+00	120	9	6
4.25238	7.19	168.9	169.3	4.25	1.94	0.0454	0.0173	NM	3.54E+00	1.70E+00	120	9	6
4.32097	6.97	167.5	167.9	4.15	2.09	0.0443	0.0155	NM	3.60E+00	1.73E+00	120	9	6
4.38475	6.66	167.5	167.8	3.97	1.99	0.0245	0.0009	NM	3.65E+00	1.75E+00	120	9	6
4.45293	6	314.1	314.5	1.91	2.04	0.0076	0.0103	NM	3.71E+00	1.78E+00	120	6	7
4.51872	7.75	224.6	225	3.44	1.94	0.0093	0.0068	NM	3.77E+00	1.81E+00	120	8	6
4.5857	8.48	188	188.3	4.5	1.84	0.0077	0.0062	NM	3.82E+00	1.83E+00	120	9	6
4.65108	9.96	193.9	194	5.14	0.95	0.0082	0.0063	NM	3.88E+00	1.86E+00	120	9	6
4.71727	11.66	220.2	220.6	5.29	1.74	0.0103	0.0067	NM	3.93E+00	1.89E+00	120	9	6

4.79869	14.11	316.7	317.2	4.45	2.48	0.0126	0.0079	NM	4.00E+00	1.92E+00	120	9	6
4.86527	17.82	425.3	425.8	4.18	2.78	0.0112	0.0073	NM	4.05E+00	1.95E+00	120	8	7
4.92865	21.98	673.2	673.9	3.26	3.98	0.0097	0.0064	NM	4.11E+00	1.97E+00	120	8	7
4.99884	24.82	1026.7	1027.4	2.42	3.63	0.0097	0.0061	NM	4.16E+00	2.00E+00	120	8	7
5.06663	24.27	1367	1367.5	1.77	2.73	0.005	0.0067	NM	4.22E+00	2.03E+00	120	8	7
5.13181	22.72	1578.2	1578.4	1.44	1.33	0.0008	0.0068	NM	4.28E+00	2.05E+00	120	6	7
5.19538	26.11	1768.9	1769	1.48	0.93	0.001	0.0066	NM	4.33E+00	2.08E+00	120	8	7
5.26117	31.97	1950.7	1950.7	1.84	-0.21	0.0671	0.0781	NM	4.38E+00	2.10E+00	120	8	7
5.32655	32.64	2079.8	2079.9	1.57	0.33	0.1098	0.1278	NM	4.44E+00	2.13E+00	120	8	7
5.39313	29.62	2336.5	2336.8	1.27	0.48	0.0835	0.1001	NM	4.49E+00	2.16E+00	120	-99	-99
5.46132	32.13	2811.7	2811.9	1.14	0.58	0.1081	0.1469	NM	4.55E+00	2.19E+00	120	-99	-99
5.53151	50.33	3039.1	3039.2	1.66	0.68	0.1222	0.1802	NM	4.61E+00	2.21E+00	120	-99	-99
5.59529	48.15	3050.8	3051	1.61	1.08	0.1105	0.1676	NM	4.66E+00	2.24E+00	120	-99	-99
5.66228	48.77	3360.3	3360.4	1.45	0.53	0.0954	0.1481	NM	4.72E+00	2.27E+00	120	-99	-99
5.72806	49.28	3735.8	3736	1.32	0.93	0.0807	0.1289	NM	4.77E+00	2.29E+00	120	-99	-99
5.79464	47.97	3991	3991.3	1.2	1.33	0.0984	0.1613	NM	4.83E+00	2.32E+00	120	-99	-99
5.85962	45.98	3935.3	3935.5	1.17	1.08	0.104	0.1686	NM	4.88E+00	2.34E+00	120	-99	-99
5.92901	45.63	4197.9	4198.1	1.09	1.33	0.0995	0.1476	NM	4.94E+00	2.37E+00	120	-99	-99
5.99399	45.97	4442.8	4443.1	1.03	1.38	0.098	0.127	NM	5.00E+00	2.40E+00	120	-99	-99
6.05937	47.25	4652.6	4652.8	1.02	1.38	0.0964	0.1063	NM	5.05E+00	2.42E+00	120	-99	-99
6.12596	45.66	4923.9	4924.2	0.93	1.33	0.109	0.1148	NM	5.11E+00	2.45E+00	120	-99	-99
6.19013	54.46	5240.7	5241	1.04	1.38	0.1283	0.1162	NM	5.16E+00	2.48E+00	120	-99	-99
6.25391	73.65	5758.5	5758.8	1.28	1.73	0.1517	0.1155	NM	5.21E+00	2.50E+00	120	-99	-99
6.3213	105.08	6502.2	6502.5	1.62	1.78	0.1433	0.1015	NM	5.27E+00	2.53E+00	120	-99	-99
6.38708	132.33	7476.1	7476.5	1.77	2.13	0.138	0.1241	NM	5.32E+00	2.56E+00	120	-99	-99
6.45366	142.21	6732.5	6732.9	2.11	2.08	0.1287	0.1404	NM	5.38E+00	2.58E+00	120	-99	-99
6.52025	180.16	5968.3	5968.8	3.02	2.73	0.1009	0.1238	NM	5.43E+00	2.61E+00	120	-99	-99
6.58523	154.63	5993.2	5993.6	2.58	1.88	0.0737	0.1076	NM	5.49E+00	2.63E+00	120	-99	-99
6.649	118.77	6461.1	6461.4	1.84	1.58	0.0529	0.0998	NM	5.54E+00	2.66E+00	120	-99	-99
6.722	84.9	6120.8	6121	1.39	1.23	0.0758	0.1515	NM	5.60E+00	2.69E+00	120	-99	-99
6.7569	77.27	5490.1	5490.3	1.41	1.18	0.0826	0.1639	NM	5.63E+00	2.70E+00	120	-99	-99
6.79821	70.74	4178.8	4179.1	1.69	1.83	0.0867	0.1677	NM	5.67E+00	2.72E+00	120	-99	-99
6.83271	69.18	3194.6	3195	2.17	2.08	0.0879	0.1645	NM	5.69E+00	2.73E+00	120	-99	-99
6.89127	80.96	3872.2	3872.7	1.57	2.53	0.0911	0.1709	NM	5.74E+00	2.76E+00	120	-99	-99
6.95505	57.01	4338.7	4339.2	1.31	2.88	0.061	0.1148	NM	5.80E+00	2.78E+00	120	-99	-99
6.99756	53.58	4937.1	4937.6	1.09	2.78	0.0638	0.1189	NM	5.83E+00	2.80E+00	120	-99	-99
7.06575	42.88	4460.4	4460.9	0.96	2.38	0.1034	0.1909	NM	5.89E+00	2.83E+00	120	-99	-99
7.13113	41.51	4329.9	4330.4	0.96	2.83	0.1126	0.2104	NM	5.94E+00	2.85E+00	120	-99	-99
7.19692	42.95	4362.1	4362.6	0.98	3.48	0.091	0.1688	NM	6.00E+00	2.88E+00	120	-99	-99
7.2635	37.53	4299.1	4299.6	0.87	3.73	0.0852	0.1496	NM	6.05E+00	2.91E+00	120	-99	-99
7.32607	28.75	4513.2	4513.8	0.59	2.83	0.0755	0.1315	NM	6.11E+00	2.93E+00	120	-99	-99
7.39506	25.78	4395.9	4396.4	0.59	2.93	0.0626	0.116	NM	6.16E+00	2.96E+00	120	-99	-99
7.45844	24.88	4463.3	4463.9	0.56	3.08	0.0781	0.1547	NM	6.22E+00	2.98E+00	120	-99	-99
7.52181	24.8	4555.7	4556.4	0.54	3.28	0.0897	0.1743	NM	6.27E+00	3.01E+00	120	-99	-99
7.588	26.25	4354.8	4355.4	0.6	3.28	0.087	0.1596	NM	6.32E+00	3.04E+00	120	-99	-99
7.65378	25.02	4472.1	4472.9	0.56	3.73	0.0794	0.1487	NM	6.38E+00	3.06E+00	120	-99	-99
7.71876	23.81	4461.9	4462.5	0.53	3.33	0.0662	0.1276	NM	6.43E+00	3.09E+00	120	-99	-99
7.78534	23.83	4271.2	4271.8	0.56	3.03	0.0692	0.1338	NM	6.49E+00	3.11E+00	120	-99	-99
7.85032	30.68	4099.6	4100.9	0.75	7.07	0.0716	0.1398	NM	6.54E+00	3.14E+00	120	-99	-99
7.9157	34.58	4104	4104.8	0.84	4.33	0.0614	0.1192	NM	6.60E+00	3.17E+00	120	-99	-99
8.12311	33.99	3786.6	3787.3	0.9	3.59	0.0593	0.1211	NM	6.77E+00	3.25E+00	120	-99	-99
8.1853	34.07	3516.8	3517.3	0.97	3.04	0.0585	0.116	NM	6.82E+00	3.27E+00	120	-99	-99

8.25511	32.95	3490.4	3490.9	0.94	2.69	0.0588	0.1238	NM	6.88E+00	3.30E+00	120	-99	-99
8.44969	29.09	3559.3	3559.8	0.82	2.84	0.0736	0.116	NM	7.04E+00	3.38E+00	120	-99	-99
8.5175	26.64	3626.7	3627.2	0.73	2.59	0.0784	0.094	NM	7.10E+00	3.41E+00	120	-99	-99
8.5857	24.18	3739.7	3740.2	0.65	2.84	0.0881	0.1164	NM	7.16E+00	3.43E+00	120	-99	-99
8.6519	21.79	3782.2	3782.7	0.58	2.69	0.0857	0.1139	NM	7.21E+00	3.46E+00	120	-99	-99
8.7173	21.57	4062.3	4062.8	0.53	2.49	0.0976	0.134	NM	7.26E+00	3.49E+00	120	-99	-99
8.78751	22.91	4104.8	4105.4	0.56	3.24	0.0985	0.1346	NM	7.32E+00	3.52E+00	120	-99	-99
9.01138	23.36	4477.3	4477.9	0.52	3.04	0.1016	0.1728	NM	7.51E+00	3.61E+00	120	-99	-99
9.07678	27.13	4464.1	4464.6	0.61	2.94	0.1031	0.1771	NM	7.56E+00	3.63E+00	120	-99	-99
9.14378	30.94	4541.8	4542.3	0.68	2.49	0.1108	0.1709	NM	7.62E+00	3.66E+00	120	-99	-99
9.21278	29.84	4465.5	4466	0.68	2.64	0.1508	0.2572	NM	7.68E+00	3.69E+00	120	-99	-99
9.27817	28.7	4464.1	4464.6	0.64	2.59	0.1185	0.2135	NM	7.73E+00	3.71E+00	120	-99	-99
9.34317	27.62	4659.1	4659.7	0.59	2.94	0.0587	0.1155	NM	7.79E+00	3.74E+00	120	-99	-99
9.40697	28.11	4679.6	4680.6	0.6	5.04	0.0693	0.1346	NM	7.84E+00	3.76E+00	120	-99	-99
9.47276	31.69	4657.8	4658.3	0.68	3.24	0.0891	0.1383	NM	7.89E+00	3.79E+00	120	-99	-99
9.53615	29.79	4970	4970.5	0.6	2.74	0.1017	0.1263	NM	7.95E+00	3.81E+00	120	-99	-99
9.60516	25.75	5058	5058.6	0.51	3.39	0.1193	0.1221	NM	8.00E+00	3.84E+00	120	-99	-99
9.66936	25.54	5332.2	5332.8	0.48	3.04	0.1356	0.1183	NM	8.06E+00	3.87E+00	120	-99	-99
9.73355	27.24	5687.1	5687.5	0.48	2.29	0.1519	0.1144	NM	8.11E+00	3.89E+00	120	-99	-99
9.80095	28.91	5077	5077.5	0.57	2.34	0.1372	0.0988	NM	8.17E+00	3.92E+00	120	-99	-99
9.86635	30.96	5024.2	5024.8	0.62	2.99	0	0	NM	8.22E+00	3.95E+00	120	-99	-99
9.93014	31.85	5050.6	5051.4	0.63	3.74	0	0	NM	8.28E+00	3.97E+00	120	-99	-99
9.99714	31.29	5143	5143.7	0.61	3.29	0	0	NM	8.33E+00	4.00E+00	120	-99	-99
10.06374	31.37	5085.8	5086.4	0.62	2.99	0	0	NM	8.39E+00	4.03E+00	120	-99	-99
10.12793	31.44	5223.7	5224.2	0.6	2.49	0	0	NM	8.44E+00	4.05E+00	120	-99	-99
10.18891	30.5	5272.1	5272.6	0.58	2.54	0	0	NM	8.49E+00	4.08E+00	120	-99	-99
10.25712	37.29	4912.8	4913.2	0.76	1.94	0	0	NM	8.55E+00	4.10E+00	120	-99	-99
10.32171	50.52	4884.9	4885.4	1.03	2.24	0	0	NM	8.60E+00	4.13E+00	120	-99	-99
10.38711	51.9	4871.7	4872.2	1.07	2.49	0	0	NM	8.66E+00	4.16E+00	120	-99	-99
10.45291	69.53	4983.2	4983.7	1.4	2.49	0	0	NM	8.71E+00	4.18E+00	120	-99	-99
10.51911	107.11	5336.6	5337	2.01	2.29	0	0	NM	8.77E+00	4.21E+00	120	-99	-99
10.5817	99.14	5902.6	5903.1	1.68	2.24	0	0	NM	8.82E+00	4.23E+00	120	-99	-99
10.65391	89.55	6391	6390.8	1.4	-0.85	0	0	NM	8.88E+00	4.26E+00	120	-99	-99
10.7165	84.9	7567	7567.3	1.12	1.54	0	0	NM	8.93E+00	4.29E+00	120	-99	-99
10.78872	86.13	3641.4	3641.3	2.37	-0.7	0	0	NM	8.99E+00	4.32E+00	120	8	7
10.8497	80.65	2591.4	2591.8	3.11	1.94	0	0	NM	9.04E+00	4.34E+00	120	8	7
10.91389	64.29	3010.8	3011.2	2.13	1.64	0	0	NM	9.10E+00	4.37E+00	120	8	7
10.97969	47.51	3280.7	3280.9	1.45	1.25	0	0	NM	9.15E+00	4.39E+00	120	6	7
11.04428	31.04	3585.7	3586	0.87	1.69	0	0	NM	9.20E+00	4.42E+00	120	7	7
11.10888	27.67	3409.7	3410.1	0.81	2.04	0	0	NM	9.26E+00	4.44E+00	120	7	7
11.17427	24.41	3639.9	3640.5	0.67	3.04	0	0	NM	9.31E+00	4.47E+00	120	7	7
11.40974	28.53	3720.8	3719.9	0.77	-4.78	0	0	NM	9.51E+00	4.56E+00	120	7	7
11.47431	26.77	3670.9	3670.7	0.73	-0.84	0	0	NM	9.56E+00	4.59E+00	120	7	7
11.5409	36.12	3770.7	3770.4	0.96	-1.54	0	0	NM	9.62E+00	4.62E+00	120	6	7
11.60989	37.11	3827.9	3827.9	0.97	-0.29	0	0	NM	9.68E+00	4.64E+00	120	6	7
11.68329	38.17	3628.3	3628.4	1.05	0.26	0	0	NM	9.74E+00	4.67E+00	120	6	7
11.74426	39.05	4313.7	4313.5	0.91	-0.59	0	0	NM	9.79E+00	4.70E+00	120	7	7
11.81004	44.39	5544.9	5543.6	0.8	-6.93	0	0	NM	9.84E+00	4.72E+00	120	-99	-99
11.88064	0	5467.1	5465.4	0	-8.73	0	0	NM	9.90E+00	4.75E+00	120	-99	-99
12.13454	0	4783.3	4783.6	0	1.61	0	0	NM	1.01E+01	4.85E+00	120	-99	7
12.19591	0	7357.3	7357.2	0	-0.14	0	0	NM	1.02E+01	4.88E+00	120	-99	-99

Electric Cone Penetrometer Data

Cone_TAP v 2.90

Test Id: HD-15A Date: 5-Nov-03

Site: SUNNYSIDE Cone Id: 108.034XXX

Location: QUEENS NY

Project: ROUX Soil Density(pcf): 120

Client: ROUX

Depth (ft)	Sleeve Stress (psi)	Tip Stress UNC (psi)	Tip Stress COR (psi)	Ratio COR (%)	Pore Pressure (psi)	LFFD (V)	HFFD (V)	Excitation (Vdc)	Overburden (psi)	Eff. Overburden (psi)	Wet Density (pcf)	Class. FR (Rob. 1990)	Class. PP (Rob. 1990)
0	0	0	0	0	0	0	0	NM	0.00E+00	0.00E+00	120	-99	-99
0.1839	0	369.1	368.7	0	-1.68	0.0139	0.011	NM	1.53E-01	7.36E-02	120	-99	-99
0.22727	0	364.7	364.5	0	-0.98	0.0144	0.0115	NM	1.89E-01	9.09E-02	120	-99	-99
0.26943	0	391.1	390.8	0	-1.33	0.0147	0.0117	NM	2.25E-01	1.08E-01	120	-99	-99
0.31239	2.86	408.7	408.4	0.7	-1.48	0.0144	0.0111	NM	2.60E-01	1.25E-01	120	-99	-99
0.35375	3.99	420.4	420.2	0.95	-1.03	0.0122	0.0088	NM	2.95E-01	1.42E-01	120	-99	-99
0.3943	3.23	443.9	443.6	0.73	-1.23	0.0105	0.0078	NM	3.29E-01	1.58E-01	120	-99	-99
0.43687	3.49	468.8	468.6	0.75	-1.33	0.0092	0.0081	NM	3.64E-01	1.75E-01	120	-99	-99
0.47983	3.27	479.1	478.9	0.68	-1.23	0.0089	0.0111	NM	4.00E-01	1.92E-01	120	-99	-99
0.52159	3.21	512.8	512.6	0.63	-1.13	0.0089	0.0091	NM	4.35E-01	2.09E-01	120	-99	-99
0.56495	4.05	546.6	546.3	0.74	-1.28	0.0083	0.0079	NM	4.71E-01	2.26E-01	120	-99	-99
0.60832	3.79	562.7	562.5	0.67	-1.38	0.0081	0.0102	NM	5.07E-01	2.43E-01	120	-99	-99
0.65249	3.96	595	594.7	0.67	-1.43	0.0058	0.0071	NM	5.44E-01	2.61E-01	120	-99	-99
0.69505	4.23	597.9	597.7	0.71	-0.98	0.0055	0.0047	NM	5.79E-01	2.78E-01	120	-99	-99
0.73882	5.34	589.1	588.9	0.91	-0.98	0.0045	0.0047	NM	6.16E-01	2.96E-01	120	-99	-99
0.78058	4.38	595	594.7	0.74	-1.38	0.004	0.0066	NM	6.51E-01	3.12E-01	120	-99	-99
0.82555	4.46	595	594.7	0.75	-1.38	0.0041	0.0074	NM	6.88E-01	3.30E-01	120	-99	-99
0.86891	4.23	595	594.8	0.71	-0.88	0.0051	0.0056	NM	7.24E-01	3.48E-01	120	-99	-99
0.91107	6.49	600.9	600.6	1.08	-1.18	0.0048	0.0053	NM	7.59E-01	3.64E-01	120	-99	-99
0.95444	9.56	595	594.7	1.61	-1.58	0.0047	0.0053	NM	7.95E-01	3.82E-01	120	-99	-99
0.9966	7.11	630.2	629.9	1.13	-1.58	0.0052	0.0056	NM	8.31E-01	3.99E-01	120	-99	-99
1.04157	5.84	580.3	580.1	0.97	-1.13	0.0058	0.0056	NM	8.68E-01	4.17E-01	120	-99	-99
1.08413	6.1	520.2	519.9	1.17	-1.53	0.0063	0.0055	NM	9.03E-01	4.34E-01	120	-99	-99
1.13111	4.67	551	550.7	0.85	-1.58	0.0068	0.0054	NM	9.43E-01	4.52E-01	120	-99	-99
1.17287	4.77	640.5	640.2	0.74	-1.53	0.0059	0.0078	NM	9.77E-01	4.69E-01	120	-99	-99
1.21583	4.6	691.8	691.5	0.67	-1.83	0.0054	0.0077	NM	1.01E+00	4.86E-01	120	-99	-99
1.2584	4.55	693.3	693.1	0.66	-1.08	0.0052	0.0046	NM	1.05E+00	5.03E-01	120	-99	-99
1.30098	5.12	622.9	622.4	0.82	-2.28	0.0039	0.0033	NM	1.08E+00	5.20E-01	120	-99	-99
1.34432	5.39	688.9	688.4	0.78	-2.43	0.0027	0.0025	NM	1.12E+00	5.38E-01	120	-99	-99
1.3901	5.8	740.2	740.1	0.78	-0.98	0.0019	0.0024	NM	1.16E+00	5.56E-01	120	-99	-99
1.43306	6.78	818	817.7	0.83	-1.73	0.0024	0.0018	NM	1.19E+00	5.73E-01	120	-99	-99
1.49248	9.14	979.5	979.4	0.93	-0.62	0.0025	0.0055	NM	1.24E+00	5.97E-01	120	-99	-99
1.53382	11.96	1211.3	1211.1	0.99	-1.02	0.0022	0.0058	NM	1.28E+00	6.14E-01	120	-99	-99
1.57678	14.73	1419.6	1419.3	1.04	-1.62	0.0015	0.0021	NM	1.31E+00	6.31E-01	120	-99	-99
1.61732	16.03	1578.5	1578.3	1.02	-1.02	0.0012	0.001	NM	1.35E+00	6.47E-01	120	-99	-99
1.65987	17.48	1695.3	1695.1	1.03	-1.07	0.0009	0.0005	NM	1.38E+00	6.64E-01	120	-99	-99
1.70604	18.82	1837.6	1837.5	1.01	-0.52	0.0008	0.0005	NM	1.42E+00	6.82E-01	120	-99	-99
1.7526	19.47	2050.3	2050.2	0.95	-0.47	0.0024	0.0021	NM	1.46E+00	7.01E-01	120	-99	-99
1.79636	20.96	2389.1	2389.1	0.88	-0.32	0.0038	0.0033	NM	1.50E+00	7.19E-01	120	-99	-99

1.84012	22.45	2861.4	2861.4	0.78	-0.12	0.0047	0.0041	NM	1.53E+00	7.36E-01	120	-99	-99
1.88668	22.82	3355.7	3355.7	0.68	-0.37	0.0051	0.0042	NM	1.57E+00	7.55E-01	120	-99	-99
1.93325	23.27	3688.7	3688.6	0.63	-0.47	0.0056	0.0043	NM	1.61E+00	7.73E-01	120	-99	-99
1.98182	21.97	4024.6	4024.6	0.55	0.13	0.0059	0.0044	NM	1.65E+00	7.93E-01	120	-99	-99
2.02879	21.15	4271	4271	0.5	0.13	0.0055	0.0046	NM	1.69E+00	8.12E-01	120	-99	-99
2.07616	22.82	4268.1	4268.1	0.53	0.28	0.0048	0.004	NM	1.73E+00	8.31E-01	120	-99	-99
2.12473	25.34	4215.3	4215.5	0.6	1.08	0.0039	0.0025	NM	1.77E+00	8.50E-01	120	-99	-99
2.17572	27.41	4203.5	4203.7	0.65	1.08	0.0028	0.0011	NM	1.81E+00	8.70E-01	120	-99	-99
2.2255	28.85	4359	4359.2	0.66	0.93	0.0016	0.0005	NM	1.86E+00	8.90E-01	120	-99	-99
2.27929	30.08	4394.2	4394.4	0.66	1.18	0.0007	0.0003	NM	1.90E+00	9.12E-01	120	-99	-99
2.33268	30.49	4306.2	4306.3	0.71	0.68	0.001	0.0003	NM	1.94E+00	9.33E-01	120	-99	-99
2.38888	31.06	4213.8	4213.9	0.74	0.28	0.0014	0.0003	NM	1.99E+00	9.56E-01	120	-99	-99
2.44307	29.86	4119.9	4119.9	0.72	-0.32	0.0019	0.0002	NM	2.04E+00	9.77E-01	120	-99	-99
2.49847	29.07	4150.7	4150.7	0.7	-0.37	0.0024	0.0002	NM	2.08E+00	9.99E-01	120	-99	-99
2.55748	28.58	4249	4249	0.67	-0.12	0.0025	0.0001	NM	2.13E+00	1.02E+00	120	-99	-99
2.6193	29.26	4439.7	4439.7	0.66	-0.02	0.0029	0.0002	NM	2.18E+00	1.05E+00	120	-99	-99
2.67671	30.14	4561.4	4561.5	0.66	0.58	0.0026	0.0002	NM	2.23E+00	1.07E+00	120	-99	-99
2.73652	30.58	4439.7	4439.6	0.69	-0.22	0.002	0.0023	NM	2.28E+00	1.10E+00	120	-99	-99
2.79794	29.51	4196.2	4196.2	0.7	0.13	0.0019	0.0044	NM	2.33E+00	1.12E+00	120	-99	-99
2.85775	27.2	3929.3	3929.2	0.69	-0.37	0.0026	0.0017	NM	2.38E+00	1.14E+00	120	-99	-99
2.91917	26.26	3647.6	3647.5	0.72	-0.52	0.0043	0.0026	NM	2.43E+00	1.17E+00	120	-99	-99
2.98421	26.89	3294.1	3294.2	0.82	0.18	0.0056	0.0043	NM	2.49E+00	1.19E+00	120	-99	-99
3.05084	25.56	2970	2969.8	0.86	-0.87	0.0049	0.0033	NM	2.54E+00	1.22E+00	120	-99	-99
3.11467	26.79	2547.5	2547.3	1.05	-1.07	0.0033	0.0013	NM	2.60E+00	1.25E+00	120	-99	-99
3.1785	27.6	2155.9	2155.7	1.28	-0.92	0.0035	0.0022	NM	2.65E+00	1.27E+00	120	-99	-99
3.24514	25.16	2110.4	2110.2	1.19	-1.17	0.0053	0.0048	NM	2.70E+00	1.30E+00	120	-99	-99
3.30776	24.49	1878.7	1878.4	1.3	-1.62	0.0064	0.0065	NM	2.76E+00	1.32E+00	120	-99	-99
3.37239	24.9	1554.5	1554.5	1.6	-0.32	0.0095	0.0068	NM	2.81E+00	1.35E+00	120	-99	-99
3.43863	23.97	1353.6	1353.6	1.77	0.23	0.0095	0.008	NM	2.87E+00	1.38E+00	120	8	7
3.50326	22.98	1088.1	1087.9	2.11	-0.72	0.0087	0.012	NM	2.92E+00	1.40E+00	120	8	7
3.56669	21.84	904.7	904.6	2.41	-0.92	0.0061	0.0082	NM	2.97E+00	1.43E+00	120	8	7
3.6277	19.74	741.9	741.7	2.66	-1.37	0.0048	0.0019	NM	3.02E+00	1.45E+00	120	8	7
3.68233	17.74	560	559.8	3.17	-1.12	0.0092	0.0003	NM	3.08E+00	1.48E+00	120	8	7
3.75697	16.58	451.5	451.3	3.67	-1.17	0.0092	0	NM	3.13E+00	1.50E+00	120	8	7
3.81999	16.33	385.5	385.4	4.24	-0.82	0.0103	0.0003	NM	3.18E+00	1.53E+00	120	8	7
3.88502	15.52	347.4	347.2	4.47	-1.02	0.0108	0.0018	NM	3.24E+00	1.55E+00	120	8	7
3.94966	14.12	323.9	323.7	4.36	-0.82	0.0118	0.0021	NM	3.29E+00	1.58E+00	120	8	7
4.01268	13.24	301.9	301.8	4.39	-0.62	0.017	0.005	NM	3.34E+00	1.61E+00	120	8	7
4.07852	12.06	296	295.9	4.08	-0.57	0.0209	0.0015	NM	3.40E+00	1.63E+00	120	8	7
4.14234	10.41	299	298.9	3.48	-0.37	0.0306	0.002	NM	3.45E+00	1.66E+00	120	8	7
4.20617	9.22	297.5	297.4	3.1	-0.47	0.0335	0.0034	NM	3.51E+00	1.68E+00	120	8	7
4.27161	8.93	291.6	291.6	3.06	-0.32	0.0337	0.0038	NM	3.56E+00	1.71E+00	120	8	7
4.33503	9.2	301.9	301.9	3.05	-0.12	0.0342	0.0046	NM	3.61E+00	1.73E+00	120	8	7
4.39966	10.13	301.9	301.9	3.36	-0.12	0.0352	0.0098	NM	3.67E+00	1.76E+00	120	8	7
4.46309	11.04	299	299	3.89	0.13	0.0376	0.005	NM	3.72E+00	1.79E+00	120	8	6
4.52812	11.98	307.8	307.8	3.89	0.43	0.0428	0.0066	NM	3.77E+00	1.81E+00	120	8	7
4.59115	12.51	306.3	306.5	4.08	0.93	0.0428	0.0068	NM	3.83E+00	1.84E+00	120	8	6
4.65417	12.67	389.9	390.3	3.25	1.97	0.0389	0.0057	NM	3.88E+00	1.86E+00	120	8	7
4.88323	17.56	2382	2381.7	0.74	-1.28	0.0385	0.0051	NM	4.07E+00	1.95E+00	120	-99	-99
4.94661	17.25	2583	2582.7	0.67	-1.53	0.0425	0.0089	NM	4.12E+00	1.98E+00	120	-99	-99
5.01399	17.06	2662.2	2661.9	0.64	-1.38	0.0753	0.0262	NM	4.18E+00	2.01E+00	120	-99	-99
5.08258	18.54	2729.7	2729.4	0.68	-1.48	0.1161	0.0604	NM	4.24E+00	2.03E+00	120	-99	-99

5.14596	20.28	2754.6	2754.3	0.74	-1.58	0.1296	0.0656	NM	4.29E+00	2.06E+00	120	-99	-99
5.20893	22.08	2760.5	2760.2	0.8	-1.68	0.1977	0.0908	NM	4.34E+00	2.08E+00	120	-99	-99
5.27311	22.75	2842.7	2842.4	0.8	-1.48	0.2681	0.1279	NM	4.39E+00	2.11E+00	120	-99	-99
5.33608	25.01	2955.6	2955.4	0.85	-1.38	0.2925	0.1419	NM	4.45E+00	2.13E+00	120	-99	-99
5.40146	35.46	3002.6	3002.4	1.16	-1.08	0.3188	0.1497	NM	4.50E+00	2.16E+00	120	-99	-99
5.46805	40.85	3249.1	3248.8	1.26	-1.38	0.3378	0.1511	NM	4.56E+00	2.19E+00	120	-99	-99
5.53624	33.74	3413.4	3413.1	0.99	-1.33	0.7185	0.3731	NM	4.61E+00	2.21E+00	120	-99	-99
5.59961	38.82	3705.4	3705.2	0.99	-0.98	0.7785	0.4241	NM	4.67E+00	2.24E+00	120	-99	-99
5.66499	46.94	4267.3	4267.2	1.1	-0.48	0.7965	0.4529	NM	4.72E+00	2.27E+00	120	-99	-99
5.72877	48.8	5081	5081.2	0.96	1.21	0.8142	0.4809	NM	4.77E+00	2.29E+00	120	-99	-99
5.79054	46.43	6487.1	6487.6	0.72	2.91	0.8314	0.508	NM	4.83E+00	2.32E+00	120	-99	-99
5.86073	49.81	6870	6869.8	0.73	-0.83	0.8865	0.5149	NM	4.88E+00	2.34E+00	120	-99	-99
5.92772	65.88	6635.2	6635.5	0.99	1.51	0.7868	0.4593	NM	4.94E+00	2.37E+00	120	-99	-99
5.99069	67.25	6630.8	6631.1	1.01	1.26	0.801	0.4855	NM	4.99E+00	2.40E+00	120	-99	-99
6.05387	59.93	6448.9	6448.7	0.93	-1.08	0.8073	0.4815	NM	5.05E+00	2.42E+00	120	-99	-99
6.11824	62.66	7025.5	7025.2	0.89	-1.63	0.7066	0.4193	NM	5.10E+00	2.45E+00	120	-99	-99
6.18122	79.01	7443.7	7443.3	1.06	-1.58	0.2557	0.1304	NM	5.15E+00	2.47E+00	120	-99	-99
6.24339	128.47	6704.2	6703.9	1.92	-1.78	0.2887	0.1378	NM	5.20E+00	2.50E+00	120	-99	-99
6.30917	116.01	7122.3	7121.9	1.63	-2.23	0.9548	0.5568	NM	5.26E+00	2.52E+00	120	-99	-99
6.37535	94.88	8093.6	8093.3	1.17	-1.78	0.8678	0.5211	NM	5.31E+00	2.55E+00	120	-99	-99
6.44274	90.03	7600.6	7600.3	1.18	-1.63	0.5675	0.2979	NM	5.37E+00	2.58E+00	120	-99	-99
6.50933	88.89	5929.6	5931.4	1.5	9.35	0.5233	0.2595	NM	5.42E+00	2.60E+00	120	-99	-99
6.56949	82.69	4832.1	4833.7	1.71	8.05	0.4565	0.2187	NM	5.48E+00	2.63E+00	120	-99	-99
6.63246	83.24	4706	4707	1.77	5.21	0.4322	0.212	NM	5.53E+00	2.65E+00	120	-99	-99
6.69704	64.85	4620.9	4621.1	1.4	1.11	0.3883	0.1741	NM	5.58E+00	2.68E+00	120	-99	-99
6.76283	33.94	4245.3	4246.3	0.8	15.94	0.4031	0.1813	NM	5.64E+00	2.71E+00	120	-99	-99
6.8274	29.52	3998.8	4001	0.74	11.45	0.3439	0.1492	NM	5.69E+00	2.73E+00	120	-99	-99
6.88797	28.47	3812.5	3815.5	0.75	15.59	0.3138	0.1346	NM	5.74E+00	2.76E+00	120	-99	-99
6.95054	27.06	3733.2	3735.3	0.72	10.75	0.2728	0.1176	NM	5.79E+00	2.78E+00	120	-99	-99
7.01392	24.82	3774.3	3776	0.65	8.6	0.288	0.1196	NM	5.85E+00	2.81E+00	120	-99	-99
7.07689	22.81	3696.6	3698.5	0.62	10.2	0.4109	0.177	NM	5.90E+00	2.83E+00	120	-99	-99
7.14308	22.49	3665.7	3667.3	0.61	8.2	0.3932	0.1723	NM	5.95E+00	2.86E+00	120	-99	-99
7.20806	22.93	3699.5	3700.9	0.62	7.35	0.3691	0.1556	NM	6.01E+00	2.88E+00	120	-99	-99
7.27143	23.57	3686.3	3687.5	0.64	6.4	0.3265	0.1354	NM	6.06E+00	2.91E+00	120	-99	-99
7.33521	23.89	3824.7	3826.1	0.66	7.25	0.3059	0.1362	NM	6.11E+00	2.93E+00	120	-99	-99
7.40139	23.57	3607.1	3607.9	0.65	4.46	0.3147	0.146	NM	6.17E+00	2.96E+00	120	-99	-99
7.46517	21.94	3564.5	3565.8	0.62	6.65	0.279	0.1164	NM	6.22E+00	2.99E+00	120	-99	-99
7.52734	19.99	3586.5	3587.3	0.56	3.81	0.6084	0.3325	NM	6.27E+00	3.01E+00	120	-99	-99
7.59352	21.23	3592.4	3593.1	0.59	3.96	0.899	0.5039	NM	6.33E+00	3.04E+00	120	-99	-99
7.65609	21.49	3536.6	3540.6	0.61	20.58	0.9518	0.5441	NM	6.38E+00	3.06E+00	120	-99	-99
7.72228	21.75	3560.1	3562.2	0.61	10.65	0.6798	0.3805	NM	6.44E+00	3.09E+00	120	-99	-99
7.78485	22.01	3573.3	3574.6	0.62	8.45	0.5611	0.2965	NM	6.49E+00	3.11E+00	120	-99	-99
7.85023	22.06	3725.9	3726.9	0.59	5.41	0.3877	0.1987	NM	6.54E+00	3.14E+00	120	-99	-99
7.9128	22.6	3775.8	3776.8	0.6	4.16	0.2414	0.1051	NM	6.59E+00	3.17E+00	120	-99	-99
8.16024	21.48	3170.9	3174.2	0.68	17.09	0.441	0.2223	NM	6.80E+00	3.26E+00	120	7	7
8.22961	20.3	3008.1	3009.5	0.67	7.16	0.4018	0.2137	NM	6.86E+00	3.29E+00	120	7	7
8.29498	18.35	2915.7	2916.3	0.63	2.97	0.4585	0.2441	NM	6.91E+00	3.32E+00	120	7	7
8.36275	17.91	2952.4	2952.9	0.61	2.87	0.4931	0.2619	NM	6.97E+00	3.35E+00	120	7	7
8.41969	17.62	3099	3099.3	0.57	1.43	0.6184	0.3449	NM	7.02E+00	3.37E+00	120	7	7
8.48506	17.16	2838	2838.7	0.6	3.72	0.6052	0.3799	NM	7.07E+00	3.39E+00	120	7	7
8.54581	16.3	2776.4	2776.8	0.59	2.22	0.7972	0.525	NM	7.12E+00	3.42E+00	120	7	7
8.60937	18.86	2848.2	2848.4	0.68	0.93	0.6752	0.515	NM	7.17E+00	3.44E+00	120	7	7

8.67634	21.47	2820.4	2820.4	0.76	0.43	0	0	NM	7.23E+00	3.47E+00	120	7	7
8.74611	16.04	2840.9	2841.1	0.56	0.88	0	0	NM	7.29E+00	3.50E+00	120	7	7
8.80907	13.54	3080	3080.2	0.44	0.68	0	0	NM	7.34E+00	3.52E+00	120	7	7
8.87083	12.5	3160.6	3161	0.4	1.87	0	0	NM	7.39E+00	3.55E+00	120	7	7
8.93579	12.05	2857	2857.1	0.42	0.43	0	0	NM	7.45E+00	3.57E+00	120	7	7
9.00036	12.55	2949.4	2949.5	0.43	0.43	0	0	NM	7.50E+00	3.60E+00	120	7	7
9.06291	14.51	2980.2	2980.7	0.49	2.32	0	0	NM	7.55E+00	3.63E+00	120	7	7
9.13069	15.74	3003.7	3004.1	0.52	2.22	0	0	NM	7.61E+00	3.65E+00	120	7	7
9.19766	15.11	3128.4	3128.8	0.48	0.93	0	0	NM	7.67E+00	3.68E+00	120	7	7
9.26302	16.27	3163.6	3163.7	0.51	0.58	0	0	NM	7.72E+00	3.71E+00	120	7	7
9.32478	17.19	3194.4	3194.7	0.54	1.38	0	0	NM	7.77E+00	3.73E+00	120	7	7
9.38894	17.75	3229.6	3230.1	0.55	2.62	0	0	NM	7.82E+00	3.76E+00	120	7	7
9.4527	17.21	3160.6	3160.8	0.54	0.88	0	0	NM	7.88E+00	3.78E+00	120	7	7
9.51646	16.44	3238.4	3238.5	0.51	0.63	0	0	NM	7.93E+00	3.81E+00	120	7	7
9.58343	15.74	3272.1	3272.2	0.48	0.43	0	0	NM	7.99E+00	3.83E+00	120	7	7
9.65	15.24	3327.9	3328	0.48	0.48	0	0	NM	8.04E+00	3.86E+00	120	7	7
9.71255	15.72	3411.5	3411.3	0.48	-0.77	0	0	NM	8.09E+00	3.89E+00	120	7	7
9.78032	21.42	3456.9	3456.8	0.62	-0.92	0	0	NM	8.15E+00	3.91E+00	120	7	7
9.84369	32.84	3685.8	3685.7	0.89	-0.32	0	0	NM	8.20E+00	3.94E+00	120	7	7
9.90825	36.99	3589	3589.6	1.03	3.17	0	0	NM	8.26E+00	3.96E+00	120	6	7
9.97201	33.56	3635.9	3636.2	0.92	1.73	0	0	NM	8.31E+00	3.99E+00	120	7	7
10.03858	39.79	3674	3674.6	1.08	2.92	0	0	NM	8.37E+00	4.02E+00	120	6	7
10.10234	49.41	3917.5	3918.2	1.26	3.82	0	0	NM	8.42E+00	4.04E+00	120	6	7
10.1653	51.18	4097.9	4101.4	1.25	17.79	0	0	NM	8.47E+00	4.07E+00	120	-99	-99
10.22625	53.17	4683.2	4683.8	1.14	3.07	0	0	NM	8.52E+00	4.09E+00	120	-99	-99
10.29041	63.9	5366.7	5366.9	1.19	0.83	0	0	NM	8.58E+00	4.12E+00	120	-99	-99
10.35257	69.34	4978	4977.8	1.39	-1.17	0	0	NM	8.63E+00	4.14E+00	120	-99	-99
10.41753	67.77	5740.7	5740.2	1.18	-2.72	0	0	NM	8.68E+00	4.17E+00	120	-99	-99
10.48169	73.84	6324.5	6324	1.16	-2.52	0	0	NM	8.74E+00	4.19E+00	120	-99	-99
10.54826	78.19	5613.1	5613.2	1.39	0.48	0	0	NM	8.79E+00	4.22E+00	120	-99	-99
10.61202	68.15	5701.1	5701.5	1.2	2.02	0	0	NM	8.84E+00	4.25E+00	120	-99	-99
10.67699	0	5802.3	5802.6	0	1.48	0	0	NM	8.90E+00	4.27E+00	120	-99	-99
10.73995	0	5976.9	5977.4	0	2.52	0	0	NM	8.95E+00	4.30E+00	120	-99	-99
10.80371	0	6095.7	6095.7	0	-0.02	0	0	NM	9.00E+00	4.32E+00	120	-99	-99
10.86827	0	6472.7	6472.7	0	0.43	0	0	NM	9.06E+00	4.35E+00	120	-99	-99
10.93083	0	7417.3	7418.2	0	4.97	0	0	NM	9.11E+00	4.37E+00	120	-99	-99
10.98456	0	8401.5	8402.8	0	7.01	0	0	NM	9.15E+00	4.39E+00	120	-99	-99

Electric Cone Penetrometer Data

Cone_TAP v 2.90

Test Id: HD-15B Date: 5-Nov-03

Site: SUNNYSIDE Cone Id: 108.034XXX

Location: QUEENS NY

Project: ROUX Soil Density(pcf): 120

Client: ROUX

Depth (ft)	Sleeve Stress (psi)	Tip Stress UNC (psi)	Tip Stress COR (psi)	Ratio COR (%)	Pore Pressure (psi)	LFFD (V)	HFFD (V)	Excitation (Vdc)	Overburden (psi)	Eff. Overburden (psi)	Wet Density (pcf)	Class. FR (Rob. 1990)	Class. PP (Rob. 1990)
0	0	0	0	0	0	0	0	NM	0.00E+00	0.00E+00	120	-99	-99
0.14958	0	306.8	306.9	0	0.43	0.0585	0.0342	NM	1.25E-01	5.98E-02	120	-99	-99
0.21334	0	342	342	0	0.38	0.0507	0.0331	NM	1.78E-01	8.53E-02	120	-99	-99
0.27269	3.54	334.6	334.7	1.06	0.48	0.04	0.0233	NM	2.27E-01	1.09E-01	120	-99	-99
0.33444	3.71	359.6	359.7	1.03	0.48	0.0296	0.016	NM	2.79E-01	1.34E-01	120	-99	-99
0.39339	4.12	344.9	345.1	1.19	0.78	0.0199	0.0107	NM	3.28E-01	1.57E-01	120	-99	-99
0.45314	4	374.2	374.3	1.07	0.58	0.0129	0.0068	NM	3.78E-01	1.81E-01	120	-99	-99
0.51169	4.04	397.7	397.8	1.01	0.43	0.0126	0.0064	NM	4.26E-01	2.05E-01	120	-99	-99
0.57385	4.2	391.8	392	1.07	0.93	0.0121	0.0064	NM	4.78E-01	2.30E-01	120	-99	-99
0.6352	4.47	387.4	387.5	1.15	0.53	0.0116	0.0055	NM	5.29E-01	2.54E-01	120	-99	-99
0.69455	4.86	434.4	434.6	1.12	1.48	0.0109	0.0054	NM	5.79E-01	2.78E-01	120	-99	-99
0.7539	4.43	459.3	459.5	0.96	0.98	0.01	0.0055	NM	6.28E-01	3.02E-01	120	-99	-99
0.81686	3.8	495.9	496.1	0.77	0.93	0.0085	0.0055	NM	6.81E-01	3.27E-01	120	-99	-99
0.87701	3.67	500.3	500.5	0.73	0.93	0.0069	0.0052	NM	7.31E-01	3.51E-01	120	-99	-99
0.93676	3.65	510.8	510.8	0.71	0.93	0.0066	0.0047	NM	7.81E-01	3.75E-01	120	-99	-99
0.99772	3.92	523.8	524	0.75	0.98	0.0082	0.0047	NM	8.31E-01	3.99E-01	120	-99	-99
1.05827	4.18	528.2	528.5	0.79	1.28	0.0074	0.0065	NM	8.82E-01	4.23E-01	120	-99	-99
1.11842	4.35	566.3	566.6	0.77	1.13	0.0069	0.005	NM	9.32E-01	4.47E-01	120	-99	-99
1.17857	4.52	589.8	590	0.77	1.13	0.0065	0.0031	NM	9.82E-01	4.71E-01	120	-99	-99
1.24193	4.8	647	647.2	0.74	1.28	0.0063	0.0032	NM	1.04E+00	4.97E-01	120	-99	-99
1.30369	5.7	711.5	711.7	0.8	1.18	0.0064	0.0033	NM	1.09E+00	5.22E-01	120	-99	-99
1.36584	5.91	861.1	861.4	0.69	1.63	0.0063	0.0035	NM	1.14E+00	5.46E-01	120	-99	-99
1.58106	8.05	1412.5	1412.9	0.57	2.16	0.0007	0	NM	1.32E+00	6.32E-01	120	-99	-99
1.65415	8.71	1525.4	1525.7	0.57	1.78	0.0021	0.0001	NM	1.38E+00	6.62E-01	120	-99	-99
1.72725	9.27	1671.9	1672.4	0.55	2.25	0.002	0.0013	NM	1.44E+00	6.91E-01	120	-99	-99
1.79593	11.8	1743.7	1744.3	0.68	2.75	0.0012	0.0011	NM	1.50E+00	7.18E-01	120	-99	-99
1.86662	11.77	1726.2	1726.8	0.68	3.25	0.0016	0.0008	NM	1.56E+00	7.47E-01	120	-99	-99
1.9385	11.88	1759.9	1760.4	0.67	2.8	0.0004	0.0038	NM	1.61E+00	7.75E-01	120	-99	-99
2.00758	11.29	1762.8	1763.4	0.64	2.85	0.0009	0	NM	1.67E+00	8.03E-01	120	-99	-99
2.08068	11.01	1800.9	1801.4	0.61	2.75	0.0012	0.001	NM	1.73E+00	8.32E-01	120	-99	-99
2.1586	10.35	1633.8	1634.5	0.63	3.5	0.0031	0.0056	NM	1.80E+00	8.63E-01	120	-99	-99
2.2329	10.83	1649.9	1650.6	0.64	3.35	0.0001	0.0022	NM	1.86E+00	8.93E-01	120	-99	-99
2.30399	10.68	1737.9	1738.8	0.61	3.6	0.0032	0.0027	NM	1.92E+00	9.22E-01	120	-99	-99
2.37507	10.95	1906.4	1907.2	0.57	3.7	0.0036	0.0025	NM	1.98E+00	9.50E-01	120	-99	-99
2.44536	14.19	2067.7	2068.5	0.69	4.1	0.0023	0.0012	NM	2.04E+00	9.78E-01	120	-99	-99
2.51765	16.43	2193.7	2194.5	0.75	3.9	0.0029	0.0023	NM	2.10E+00	1.01E+00	120	-99	-99
2.59155	17.33	2256.7	2257.5	0.77	3.95	0.0039	0.0024	NM	2.16E+00	1.04E+00	120	-99	-99
2.66183	14.17	2076.5	2077.2	0.68	4	0.0012	0.0015	NM	2.22E+00	1.07E+00	120	-99	-99
2.73483	14.59	1765.7	1766.5	0.83	3.75	0.0015	0.0011	NM	2.28E+00	1.09E+00	120	-99	-99

2.80361	15.1	1458.5	1457.1	1.04	3.25	0.001	0.0012	NM	2.34E+00	1.12E+00	120	-99	-99
2.8751	13.54	1135.5	1136.1	1.19	3.1	0.0011	0.0045	NM	2.40E+00	1.15E+00	120	8	7
2.9486	12.44	901	901.4	1.38	2.11	0.0012	0.0023	NM	2.46E+00	1.18E+00	120	8	7
3.02169	10.62	1032.9	1033.3	1.03	2.31	0.0027	0.002	NM	2.52E+00	1.21E+00	120	6	7
3.09198	8.65	854.7	855.2	1.32	2.31	0.0058	0.0051	NM	2.58E+00	1.24E+00	120	8	7
3.16547	7.24	291.2	291.7	2.48	2.36	0.0101	0.0063	NM	2.64E+00	1.27E+00	120	6	7
3.23455	6.42	269.3	269.8	2.38	2.85	0.0173	0.0074	NM	2.70E+00	1.29E+00	120	5	7
3.30644	5.88	242.9	243.8	2.41	3.7	0.0251	0.0102	NM	2.76E+00	1.32E+00	120	5	7
3.37793	5.52	278.1	278.9	1.98	4.65	0.0357	0.017	NM	2.82E+00	1.35E+00	120	8	7
3.45103	5.13	276.8	277.5	1.85	4.8	0.0453	0.0239	NM	2.88E+00	1.38E+00	120	6	7
3.52051	4.86	239.9	240.9	2.02	5	0.0538	0.0295	NM	2.93E+00	1.41E+00	120	6	6
3.58879	4.42	242.9	243.8	1.81	5	0.0551	0.0314	NM	2.99E+00	1.44E+00	120	8	6
3.65988	3.87	235.6	236.5	1.64	4.7	0.0545	0.0317	NM	3.05E+00	1.46E+00	120	8	6
3.73016	4.25	174	175	2.43	5.05	0.0619	0.0355	NM	3.11E+00	1.49E+00	120	5	6
3.80245	4.32	165.2	166.3	2.6	5.75	0.1395	0.0653	NM	3.17E+00	1.52E+00	120	5	6
3.87434	4.19	159.3	160.5	2.61	6.19	0.107	0.0604	NM	3.23E+00	1.55E+00	120	5	6
3.94583	4.35	147.6	148.9	2.92	6.79	0.0889	0.0587	NM	3.29E+00	1.58E+00	120	5	6
4.01973	4.43	152	153.5	2.89	7.49	0.0886	0.0605	NM	3.35E+00	1.61E+00	120	5	6
4.08921	4.26	260.5	262	1.63	8.04	0.0986	0.0708	NM	3.41E+00	1.64E+00	120	6	6
4.16151	3.97	283.9	285.6	1.39	8.89	0.0949	0.0707	NM	3.47E+00	1.67E+00	120	8	6
4.233	3.79	275.1	276.6	1.37	7.74	0.1101	0.0717	NM	3.53E+00	1.69E+00	120	6	6
4.30368	3.31	153.5	155	2.14	7.79	0.1527	0.1071	NM	3.59E+00	1.72E+00	120	5	6
4.37557	4.42	127.1	128.7	3.44	8.24	0.2211	0.1448	NM	3.65E+00	1.75E+00	120	4	6
4.44787	7.16	119.8	121.5	5.89	9.19	0.1992	0.1191	NM	3.71E+00	1.78E+00	120	9	6
4.51815	11.14	131.5	133.5	8.35	10.33	0.2646	0.167	NM	3.77E+00	1.81E+00	120	9	6
4.58924	12.74	197.4	199.7	6.38	11.78	0.2726	0.1448	NM	3.82E+00	1.84E+00	120	9	6
4.62018	12.31	187.2	189.7	6.49	12.93	0.2589	0.1212	NM	3.85E+00	1.85E+00	120	9	6
4.68923	15.72	663.3	668.9	2.35	28.78	0.217	0.0838	NM	3.91E+00	1.88E+00	120	8	7
4.75909	17.18	1337.7	1342.1	1.28	22.69	0.1927	0.1072	NM	3.97E+00	1.90E+00	120	6	7
4.82856	22.82	1952	1955	1.17	15.61	0.0614	0.0363	NM	4.02E+00	1.93E+00	120	-99	-99
4.90083	26.45	2642.5	2644.5	1	10.37	0.1115	0.0416	NM	4.08E+00	1.96E+00	120	-99	-99
4.97872	23.73	3294.9	3296.5	0.72	8.13	0.1355	0.0609	NM	4.15E+00	1.99E+00	120	-99	-99
5.04538	25.22	3913.6	3913.5	0.64	-0.2	0.1271	0.0616	NM	4.20E+00	2.02E+00	120	-99	-99
5.11445	27.92	3970.8	3970.5	0.7	-1.15	0.1442	0.0624	NM	4.26E+00	2.05E+00	120	-99	-99
5.18632	28.27	4118.8	4118.7	0.69	-0.7	0.3809	0.1832	NM	4.32E+00	2.08E+00	120	-99	-99
5.25579	29.65	4269.8	4269.6	0.69	-1.15	0.6244	0.3504	NM	4.38E+00	2.10E+00	120	-99	-99
5.32846	27.84	4491.2	4491	0.62	-0.95	0.6702	0.3996	NM	4.44E+00	2.13E+00	120	-99	-99
5.40275	25.03	4664.2	4664	0.54	-0.9	0.6694	0.3923	NM	4.50E+00	2.16E+00	120	-99	-99
5.47462	22.13	4857.7	4857.7	0.46	-0.35	0.5473	0.3058	NM	4.56E+00	2.19E+00	120	-99	-99
5.54529	20.26	4824	4823.9	0.42	-0.3	0.5827	0.3414	NM	4.62E+00	2.22E+00	120	-99	-99
5.61716	19.89	4733.1	4732.9	0.42	-0.9	0.6188	0.3776	NM	4.68E+00	2.25E+00	120	-99	-99
5.68743	20.19	4586.5	4586.3	0.44	-0.9	0.6539	0.413	NM	4.74E+00	2.28E+00	120	-99	-99
5.75971	18.51	4480.9	4481.1	0.41	0.7	0.6734	0.4119	NM	4.80E+00	2.30E+00	120	-99	-99
5.83439	17.07	4388.6	4388.8	0.39	0.95	0.6698	0.4172	NM	4.86E+00	2.33E+00	120	-99	-99
5.90667	15.95	4390	4390.1	0.36	0.4	0.6658	0.4103	NM	4.92E+00	2.36E+00	120	-99	-99
5.97734	14.79	4425.2	4425.4	0.33	0.85	0.6489	0.3867	NM	4.98E+00	2.39E+00	120	-99	-99
6.04841	14.38	4429.6	4429.8	0.32	0.9	0.6143	0.3871	NM	5.04E+00	2.42E+00	120	-99	-99
6.11908	15.01	4489.7	4490	0.33	1.49	0.6155	0.4144	NM	5.10E+00	2.45E+00	120	-99	-99
6.19095	13.74	4491.2	4491.5	0.31	1.34	0.569	0.396	NM	5.16E+00	2.48E+00	120	-99	-99
6.26483	14.17	4495.6	4495.9	0.32	1.44	0.5472	0.3689	NM	5.22E+00	2.51E+00	120	-99	-99
6.3359	15.05	4589.4	4589.8	0.33	1.69	0.5184	0.3571	NM	5.28E+00	2.53E+00	120	-99	-99
6.40738	14.74	4473.6	4473.9	0.33	1.74	0.4732	0.3249	NM	5.34E+00	2.56E+00	120	-99	-99

6.47925	14.75	4480.9	4481.3	0.33	1.94	0.464	0.3313	NM	5.40E+00	2.59E+00	120	-99	-99
6.55032	15.66	4425.2	4425.7	0.35	2.29	0.4517	0.3294	NM	5.46E+00	2.62E+00	120	-99	-99
6.62139	15.38	4376.9	4377.3	0.35	2.39	0.462	0.3522	NM	5.52E+00	2.65E+00	120	-99	-99
6.69407	14.44	4385.6	4386	0.33	1.94	0.4435	0.3454	NM	5.58E+00	2.68E+00	120	-99	-99
6.76514	13.07	4307.9	4308.4	0.3	2.19	0.3985	0.3328	NM	5.64E+00	2.71E+00	120	-99	-99
6.8342	13.44	4278.6	4279.1	0.31	2.59	0.408	0.3431	NM	5.70E+00	2.73E+00	120	-99	-99
6.90648	13.05	4143.8	4144.1	0.31	2.04	0.3913	0.2938	NM	5.76E+00	2.76E+00	120	-99	-99
6.98036	11.92	4038.2	4038.9	0.3	3.79	0.4082	0.296	NM	5.82E+00	2.79E+00	120	-99	-99
7.05103	11.5	3986.9	3987.5	0.29	3.04	0.2039	0.1914	NM	5.88E+00	2.82E+00	120	-99	-99
7.12371	11.08	3932.6	3933.1	0.28	2.64	0.1984	0.1716	NM	5.94E+00	2.85E+00	120	-99	-99
7.19478	10.95	3702.5	3703.2	0.3	3.74	0.1892	0.1555	NM	6.00E+00	2.88E+00	120	-99	-99
7.26545	10.92	3638	3638.4	0.3	2.29	0.1936	0.1535	NM	6.06E+00	2.91E+00	120	-99	-99
7.33772	10.67	3541.2	3541.8	0.3	3.24	0.179	0.1357	NM	6.12E+00	2.94E+00	120	-99	-99
7.40839	10.54	3469.4	3469.9	0.3	2.64	0.1748	0.1334	NM	6.17E+00	2.96E+00	120	-99	-99
7.47866	10.92	3466.4	3466.9	0.32	2.69	0.1718	0.1332	NM	6.23E+00	2.99E+00	120	-99	-99
7.55053	11.07	3382.9	3383.4	0.33	2.69	0.1726	0.1353	NM	6.29E+00	3.02E+00	120	-99	-99
7.62843	11.12	3265.6	3266.1	0.34	2.74	0.1775	0.1372	NM	6.36E+00	3.05E+00	120	-99	-99
7.6999	11.16	3121.9	3122.4	0.36	2.59	0.1677	0.1268	NM	6.42E+00	3.08E+00	120	-99	-99
7.77138	17.34	3031	3031.5	0.57	2.34	0.14	0.1144	NM	6.48E+00	3.11E+00	120	7	7
7.84124	23.04	2858	2858.5	0.81	2.74	0.1243	0.1006	NM	6.53E+00	3.14E+00	120	7	7
8.06778	48.91	2811.8	2812.3	1.74	3.02	0.1976	0.1565	NM	6.72E+00	3.23E+00	120	8	7
8.13709	45.33	2832.3	2832.8	1.6	2.87	0.1761	0.1429	NM	6.78E+00	3.26E+00	120	8	7
8.21123	32.66	3253.3	3254	1	3.78	0.1481	0.1264	NM	6.84E+00	3.28E+00	120	7	7
8.29218	38.62	3163.8	3164.2	1.16	2.37	0.1168	0.0972	NM	6.91E+00	3.32E+00	120	8	7
8.36432	45.64	2565.3	2565.5	1.78	0.77	0.0969	0.0828	NM	6.97E+00	3.35E+00	120	8	7
8.42584	44.45	2361.4	2361.8	1.88	1.57	0.1017	0.086	NM	7.02E+00	3.37E+00	120	8	7
8.49697	43.04	2654.8	2655.1	1.62	1.72	0.1551	0.1109	NM	7.08E+00	3.40E+00	120	8	7
8.56911	40.9	2788.3	2788.5	1.47	1.27	0.5267	0.4108	NM	7.14E+00	3.43E+00	120	6	7
8.64245	37.55	2817.6	2817.8	1.33	0.72	0.7139	0.5451	NM	7.20E+00	3.46E+00	120	6	7
8.71459	46.22	3027.4	3027.3	1.53	-0.18	0.725	0.5136	NM	7.26E+00	3.49E+00	120	8	7
8.79033	45.72	3617	3617	1.26	-0.13	0.5464	0.3411	NM	7.33E+00	3.52E+00	120	-99	-99
8.85806	44.39	2974.6	2974.6	1.49	0.32	0.4769	0.2991	NM	7.38E+00	3.54E+00	120	8	7
8.929	43.39	2827.9	2828.3	1.53	2.17	0.4103	0.2176	NM	7.44E+00	3.57E+00	120	8	7
8.99833	42.03	2971.6	2971.9	1.41	1.52	0.3626	0.1774	NM	7.50E+00	3.60E+00	120	6	7
9.07367	41.8	2816.2	2816.7	1.48	2.62	0.3628	0.1861	NM	7.56E+00	3.63E+00	120	6	7
9.14621	36.45	2373.2	2373.5	1.54	1.62	0.4009	0.215	NM	7.62E+00	3.66E+00	120	6	7
9.21674	37.04	2371.7	2372	1.56	1.42	0.3985	0.2145	NM	7.68E+00	3.69E+00	120	6	7
9.28688	32.07	2252.9	2253.2	1.42	1.67	0.3871	0.201	NM	7.74E+00	3.72E+00	120	6	7
9.35701	28.48	2496.4	2496.7	1.14	1.82	0.3751	0.1873	NM	7.80E+00	3.74E+00	120	6	7
9.42554	25.81	2756	2756.5	0.94	2.72	0.3724	0.1766	NM	7.86E+00	3.77E+00	120	6	7
9.50369	22.87	2192.8	2193.3	1.04	2.87	0.4116	0.2053	NM	7.92E+00	3.80E+00	120	6	7
9.57382	24.42	2112.1	2112.5	1.16	2.17	0.3851	0.1884	NM	7.98E+00	3.83E+00	120	6	7
9.64476	36.57	2226.5	2226.9	1.64	2.07	0.3705	0.1681	NM	8.04E+00	3.86E+00	120	6	7
9.71529	41.48	2487.6	2488.1	1.67	2.52	0.3632	0.1586	NM	8.10E+00	3.89E+00	120	8	7
9.90165	45.46	3405.8	3406.4	1.33	3.12	0.3546	0.1568	NM	8.25E+00	3.96E+00	120	8	7
9.97218	40.46	4337.2	4338.2	0.93	5.21	0.3659	0.1699	NM	8.31E+00	3.99E+00	120	-99	-99
10.04031	113.02	5347.8	5348.8	2.11	5.06	0.3562	0.1668	NM	8.37E+00	4.02E+00	120	-99	-99
10.10804	118.03	5594.2	5595	2.11	3.86	0.3558	0.1647	NM	8.42E+00	4.04E+00	120	-99	-99
10.17496	93.97	6399.5	6400.2	1.47	3.66	0.3572	0.1657	NM	8.48E+00	4.07E+00	120	-99	-99
10.26073	78.18	3175.5	3175.7	2.46	0.97	0.3572	0.1657	NM	8.55E+00	4.10E+00	120	8	7
10.33808	72.41	1293.6	1293.8	5.6	0.72	0.3586	0.17	NM	8.62E+00	4.14E+00	120	9	7
10.39779	67.81	1411	1411.1	4.79	0.47	0.3602	0.1714	NM	8.67E+00	4.16E+00	120	9	7

10.46752	48.79	1968.4	1968.5	2.48	0.52	0.3643	0.1738	NM	8.72E+00	4.19E+00	120	8	7
10.53846	38.83	2492	2492.1	1.56	0.52	0.3703	0.1787	NM	8.78E+00	4.22E+00	120	6	7
10.611	16.69	2731.1	2731.2	0.61	0.47	0.3815	0.185	NM	8.84E+00	4.24E+00	120	7	7
10.68073	14.45	2741.3	2741.5	0.53	0.62	0.3738	0.1818	NM	8.90E+00	4.27E+00	120	7	7
10.75086	18.92	2908.6	2908.7	0.58	0.67	0.3808	0.1865	NM	8.96E+00	4.30E+00	120	7	7
10.823	2.94	2921.8	2921.9	0.1	0.57	0.385	0.1884	NM	9.02E+00	4.33E+00	120	7	7
10.89554	11.89	2980.4	2980.5	0.4	0.52	0.3825	0.187	NM	9.08E+00	4.36E+00	120	7	7
10.96447	15.6	3083.1	3083.2	0.51	0.57	0.3788	0.1846	NM	9.14E+00	4.39E+00	120	7	7
11.03781	19.77	3223.9	3224	0.61	0.42	0.3852	0.1965	NM	9.20E+00	4.42E+00	120	7	7
11.10634	19.88	3109.5	3109.6	0.64	0.72	0.3854	0.1984	NM	9.26E+00	4.44E+00	120	7	7
11.21739	17.74	3204.2	3204.3	0.55	0.49	0.3866	0.2022	NM	9.35E+00	4.49E+00	120	7	7
11.26069	17.53	3333.4	3333.4	0.53	0.34	0.3873	0.2021	NM	9.38E+00	4.50E+00	120	7	7
11.31283	27.14	3359.8	3359.8	0.81	0.24	0.3861	0.2006	NM	9.43E+00	4.53E+00	120	7	7
11.3838	30.2	3659.2	3659.2	0.83	0.34	0.3855	0.2002	NM	9.49E+00	4.55E+00	120	7	7
11.45679	39.64	3786.8	3786.9	1.05	0.54	0.3869	0.1972	NM	9.55E+00	4.58E+00	120	6	7
11.53138	40.69	4180.1	4180.2	0.97	0.24	0.3882	0.1977	NM	9.61E+00	4.61E+00	120	6	7
11.60637	40.22	4413.5	4413.5	0.91	0.09	0.3877	0.1972	NM	9.67E+00	4.64E+00	120	7	7
11.67494	37.03	4476.6	4476.5	0.83	-0.11	0.3948	0.1978	NM	9.73E+00	4.67E+00	120	7	7
11.74432	45.66	4782.7	4782.8	0.96	0.49	0.3917	0.1959	NM	9.79E+00	4.70E+00	120	-99	-99
11.81489	46.04	4594	4594.1	1	0.64	0.3901	0.196	NM	9.85E+00	4.73E+00	120	6	7
11.88547	41.78	4450.1	4450.3	0.94	0.54	0.3918	0.1973	NM	9.91E+00	4.75E+00	120	7	7
11.96247	35.89	4301.9	4301.9	0.83	0.09	0.3999	0.1994	NM	9.97E+00	4.79E+00	120	7	7
12.03585	29.8	4233	4233	0.7	0.04	0.4071	0.2074	NM	1.00E+01	4.81E+00	120	7	7
12.10883	25.15	3910.1	3910.1	0.64	0.14	0.4143	0.2153	NM	1.01E+01	4.84E+00	120	7	7
12.18021	23.03	3734	3734	0.62	0.04	0.4162	0.2224	NM	1.02E+01	4.87E+00	120	7	7
12.254	22.17	3493.3	3493.2	0.63	-0.85	0.4155	0.2293	NM	1.02E+01	4.90E+00	120	7	7
12.32739	19.77	3488.9	3488.7	0.57	-0.95	0.4148	0.2361	NM	1.03E+01	4.93E+00	120	7	7
12.40238	17.62	3556.4	3556.4	0.5	-0.36	0.4149	0.2422	NM	1.03E+01	4.96E+00	120	7	7
12.47055	15.02	3600.5	3600.4	0.42	-0.36	0.4186	0.2441	NM	1.04E+01	4.99E+00	120	7	7
12.54152	14.48	3609.3	3609.2	0.4	-0.5	0.4199	0.2503	NM	1.05E+01	5.02E+00	120	7	7
12.6121	13.95	3585.8	3585.7	0.39	-0.6	0.4203	0.2504	NM	1.05E+01	5.05E+00	120	7	7
12.68469	15.29	3575.5	3575.4	0.43	-0.46	0.4231	0.2512	NM	1.06E+01	5.07E+00	120	7	7
12.75448	16.74	3582.8	3582.8	0.47	-0.46	0.4227	0.2511	NM	1.06E+01	5.10E+00	120	7	7
12.82985	18.27	3609.3	3609.2	0.51	-0.36	0.4247	0.2549	NM	1.07E+01	5.13E+00	120	7	7
12.90204	21.05	3618.1	3618	0.58	-0.46	0.4331	0.2566	NM	1.08E+01	5.16E+00	120	7	7
12.97261	22.11	3619.5	3619.5	0.61	-0.4	0.4498	0.2545	NM	1.08E+01	5.19E+00	120	7	7
13.04399	23.65	3596.1	3596	0.66	-0.46	0.4513	0.2558	NM	1.09E+01	5.22E+00	120	7	7
13.11698	23.63	3635.7	3635.6	0.65	-0.31	0.4584	0.2581	NM	1.09E+01	5.25E+00	120	7	7
13.18875	25.14	3731.1	3731	0.67	-0.16	0.4612	0.261	NM	1.10E+01	5.28E+00	120	7	7
13.26094	22.43	3487.5	3487.4	0.64	-0.4	0.4669	0.2636	NM	1.11E+01	5.30E+00	120	7	7
13.33432	25.87	3422.9	3422.7	0.76	-0.9	0.4614	0.2651	NM	1.11E+01	5.33E+00	120	7	7
13.4037	25.72	3491.9	3491.8	0.74	-1.4	0.4423	0.2728	NM	1.12E+01	5.36E+00	120	7	7
13.47308	19.31	3530	3529.8	0.55	-1.25	0.4465	0.2751	NM	1.12E+01	5.39E+00	120	7	7
13.54446	20.5	3637.1	3636.9	0.56	-1	0.4493	0.2766	NM	1.13E+01	5.42E+00	120	7	7
13.61343	19.09	3883.7	3883.5	0.49	-1.05	0.4471	0.2783	NM	1.13E+01	5.45E+00	120	7	7
13.68601	18.21	3964.4	3964.2	0.46	-1.1	0.4529	0.2854	NM	1.14E+01	5.47E+00	120	7	7
13.75739	18.94	4272.5	4272.4	0.44	-0.8	0.4571	0.2857	NM	1.15E+01	5.50E+00	120	7	7
13.82757	22.62	4538.2	4538	0.5	-1.05	0.4519	0.2841	NM	1.15E+01	5.53E+00	120	7	7
13.90098	35.48	4638	4637.7	0.77	-1.35	0	0	NM	1.16E+01	5.56E+00	120	7	7
13.97234	58.08	4660	4659.8	1.25	-1.15	0	0	NM	1.16E+01	5.59E+00	120	8	7
14.04251	70.3	4692.3	4692.2	1.5	-0.65	0	0	NM	1.17E+01	5.62E+00	120	8	7
14.1167	82.47	4834.6	4834.5	1.71	-0.6	0	0	NM	1.18E+01	5.65E+00	120	8	7

14.18688	87.03	5107.6	5107.5	1.7	-0.55	0	0	NM	1.16E+01	5.68E+00	120	8	7
14.25545	82.88	5655	5654.8	1.47	-0.85	0	0	NM	1.19E+01	5.70E+00	120	8	7
14.32402	78.73	6928.8	6928.6	1.14	-0.85	0	0	NM	1.19E+01	5.73E+00	120	-99	-99
14.50329	99.64	8758.1	8757.8	1.14	-1.58	0	0	NM	1.21E+01	5.80E+00	120	-99	-99
14.76086	50.78	5576.6	5576.4	0.91	-1.28	0	0	NM	1.23E+01	5.90E+00	120	7	7
14.83067	54.41	4822.7	4822.7	1.13	-0.03	0	0	NM	1.24E+01	5.93E+00	120	6	7
14.89807	71.21	4947.4	4947.4	1.44	0.17	0	0	NM	1.24E+01	5.96E+00	120	6	7
14.96668	66.94	5186.5	5186.6	1.29	0.52	0	0	NM	1.25E+01	5.99E+00	120	6	7
15.03809	50.54	5161.5	5161.6	0.98	0.22	0	0	NM	1.25E+01	6.02E+00	120	6	7
15.11071	36.56	5146.9	5147	0.71	0.42	0	0	NM	1.26E+01	6.04E+00	120	7	7
15.18052	27.05	5057.4	5057.3	0.53	-0.43	0	0	NM	1.27E+01	6.07E+00	120	7	7
15.25514	29.46	4727.4	4727.5	0.62	0.67	0	0	NM	1.27E+01	6.10E+00	120	7	7
15.32937	39.1	4225.7	4225.9	0.93	0.62	0	0	NM	1.28E+01	6.13E+00	120	6	7
15.40038	37.17	4128.9	4128.9	0.9	-0.18	0	0	NM	1.28E+01	6.16E+00	120	6	7
15.473	34.38	4332.8	4332.7	0.79	-0.48	0	0	NM	1.29E+01	6.19E+00	120	7	7
15.54521	35.85	4564.6	4564.5	0.79	-0.53	0	0	NM	1.30E+01	6.22E+00	120	7	7
15.61502	35.49	4947.4	4947.2	0.72	-0.98	0	0	NM	1.30E+01	6.25E+00	120	7	7
15.68804	38	5603	5602.8	0.68	-1.08	0	0	NM	1.31E+01	6.28E+00	120	7	7
15.76387	35.02	4850.6	4850.6	0.72	-0.18	0	0	NM	1.31E+01	6.31E+00	120	7	7
15.83529	36.65	3910.4	3910.4	0.94	0.27	0	0	NM	1.32E+01	6.33E+00	120	6	7
15.9079	44.45	3763.7	3763.8	1.18	0.62	0	0	NM	1.33E+01	6.36E+00	120	6	7
15.97892	0	3568.6	3568.8	0	0.92	0	0	NM	1.33E+01	6.39E+00	120	-99	7
16.04792	0	3746.1	3746.1	0	-0.08	0	0	NM	1.34E+01	6.42E+00	120	-99	7
16.12255	0	4024.8	4024.8	0	0.07	0	0	NM	1.34E+01	6.45E+00	120	-99	7
16.19477	0	4346	4346.3	0	1.47	0	0	NM	1.35E+01	6.48E+00	120	-99	7
16.26417	0	5438.8	5438.7	0	-0.28	0	0	NM	1.36E+01	6.51E+00	120	-99	7

Electric Cone Penetrometer Data

Cone_TAP v 2.90

Test Id: HD-15C Date: 5-Nov-03

Site: SUNNYSIDE Cone Id: 108.034XXX

Location: QUEENS NY

Project: ROUX Soil Density(pcf): 120

Client: ROUX

Depth (ft)	Sleeve Stress (psi)	Stress UNC (psi)	p Stress COR (psi)	Ratio COR (%)	Pore Pressure (psi)	LFFD (V)	HFFD (V)	Excitation (Vdc)	Overburden (psi)	Eff. Overburden (psi)	Wet Density (pcf)	Class. FR (Rob. 1990)	Class. PP (Rob. 1990)
0	0	0	0	0	0	0	0	NM	0.00E+00	0.00E+00	120	-99	-99
0.15599	0	219.1	219.3	0	0.79	0.0916	0.0386	NM	1.30E-01	6.24E-02	120	-99	-99
0.20291	0	230.8	231	0	0.59	0.0885	0.039	NM	1.69E-01	8.12E-02	120	-99	-99
0.26387	0	233.8	233.9	0	0.54	0.0878	0.0384	NM	2.20E-01	1.06E-01	120	-99	-99
0.31119	1.51	252.9	253	0.59	0.69	0.0891	0.0375	NM	2.59E-01	1.25E-01	120	-99	-99
0.3569	1.54	286.6	286.8	0.54	0.84	0.0879	0.0368	NM	2.97E-01	1.43E-01	120	-99	-99
0.40783	1.48	318.9	319.1	0.46	1.04	0.0857	0.0361	NM	3.40E-01	1.63E-01	120	-99	-99
0.45394	1.53	345.3	345.5	0.44	0.99	0.0853	0.0359	NM	3.78E-01	1.82E-01	120	-99	-99
0.50086	1.71	358.5	358.8	0.48	1.24	0.0881	0.0343	NM	4.17E-01	2.00E-01	120	-99	-99
0.54698	1.82	380.5	380.8	0.48	1.44	0.0858	0.0341	NM	4.56E-01	2.19E-01	120	-99	-99
0.5943	2.19	401.1	401.2	0.55	0.89	0.0866	0.0349	NM	4.95E-01	2.38E-01	120	-99	-99
0.62639	3.22	394.9	395.1	0.81	1.18	0.086	0.0348	NM	5.22E-01	2.51E-01	120	-99	-99
0.67415	2.96	416.9	417.2	0.71	1.23	0.0858	0.0344	NM	5.62E-01	2.70E-01	120	-99	-99
0.72392	3.14	453.6	453.9	0.69	1.13	0.0858	0.0337	NM	6.03E-01	2.90E-01	120	-99	-99
0.77529	4.58	455.1	455.4	1	1.33	0.0846	0.0332	NM	6.46E-01	3.10E-01	120	-99	-99
0.82506	7.22	478.6	478.8	1.51	1.08	0.0845	0.0331	NM	6.88E-01	3.30E-01	120	-99	-99
0.87723	8.27	530	530.2	1.56	1.03	0.0842	0.033	NM	7.31E-01	3.51E-01	120	-99	-99
0.927	8.89	647.4	647.8	1.37	1.23	0.0838	0.033	NM	7.73E-01	3.71E-01	120	-99	-99
0.97636	9.33	684.1	684.3	1.36	1.13	0.0844	0.0326	NM	8.14E-01	3.91E-01	120	-99	-99
1.02492	9.82	750.1	750.4	1.31	1.13	0.084	0.0323	NM	8.54E-01	4.10E-01	120	-99	-99
1.07469	9.43	1056.9	1057.2	0.89	1.43	0.0851	0.0321	NM	8.96E-01	4.30E-01	120	-99	-99
1.12365	11.48	1570.7	1571	0.73	1.58	0.0868	0.036	NM	9.36E-01	4.50E-01	120	-99	-99
1.17181	12.13	2066.8	2067.2	0.59	1.68	0.0899	0.0338	NM	9.77E-01	4.69E-01	120	-99	-99
1.228	12.32	2527.7	2528.1	0.49	1.68	0.0908	0.0351	NM	1.02E+00	4.91E-01	120	-99	-99
1.27817	14.41	2790.5	2790.8	0.52	1.58	0.0961	0.0382	NM	1.07E+00	5.11E-01	120	-99	-99
1.32713	15.7	2849.2	2849.5	0.55	1.43	0.1266	0.0494	NM	1.11E+00	5.31E-01	120	-99	-99
1.37529	15.96	3376.2	3376.5	0.47	1.58	0.0724	0.0261	NM	1.15E+00	5.50E-01	120	-99	-99
1.42546	15.01	3173.6	3173.9	0.47	1.58	0.028	0.0132	NM	1.19E+00	5.70E-01	120	-99	-99
1.47322	15.42	3713.8	3714.1	0.42	1.63	0.0149	0.0099	NM	1.23E+00	5.89E-01	120	-99	-99
1.52338	21.44	4725.2	4725.5	0.45	1.73	0.0178	0.0114	NM	1.27E+00	6.09E-01	120	-99	-99
1.56873	24.97	5698.4	5698.9	0.44	2.58	0.0179	0.0115	NM	1.31E+00	6.28E-01	120	-99	-99
1.6185	25.54	5491.4	5491.9	0.47	2.48	0.017	0.0108	NM	1.35E+00	6.47E-01	120	-99	-99
1.66987	30.37	5347.5	5348.1	0.57	2.73	0.0152	0.0102	NM	1.39E+00	6.68E-01	120	-99	-99
1.72205	36.49	5589.7	5590.5	0.65	3.78	0.011	0.0086	NM	1.44E+00	6.89E-01	120	-99	-99
1.77181	38.59	5846.6	5847.9	0.66	6.87	0.0095	0.008	NM	1.48E+00	7.09E-01	120	-99	-99
1.82198	36.45	6240	6242	0.58	10.12	0.0094	0.0072	NM	1.52E+00	7.29E-01	120	-99	-99
1.87415	33.45	6303.1	6305	0.53	9.67	0.0102	0.0066	NM	1.56E+00	7.50E-01	120	-99	-99
1.92472	32.11	6392.7	6394.4	0.5	8.92	0.0155	0.0105	NM	1.60E+00	7.70E-01	120	-99	-99
1.97589	32.64	6354.5	6356.2	0.51	8.77	0.0153	0.0105	NM	1.65E+00	7.90E-01	120	-99	-99

2.02666	32.4	6385.3	6387.1	0.51	9.17	0.0133	0.009	NM	1.69E+00	8.11E-01	120	-99	-99
2.07924	33.15	6135.8	6137.4	0.54	8.17	0.0124	0.0076	NM	1.73E+00	8.32E-01	120	-99	-99
2.13462	33.95	5523.7	5525.2	0.61	8.02	0.0098	0.0057	NM	1.78E+00	8.54E-01	120	-99	-99
2.186	33.89	4993.8	4995.1	0.68	6.77	0.0011	0.0037	NM	1.82E+00	8.74E-01	120	-99	-99
2.23777	31.96	4528.5	4529.6	0.71	5.77	0.0003	0.0019	NM	1.87E+00	8.95E-01	120	-99	-99
2.29074	29.16	4195.3	4196.2	0.69	4.92	0.0017	0.0028	NM	1.91E+00	9.16E-01	120	-99	-99
2.34131	26.54	3826.8	3827.9	0.69	5.47	0.0017	0.0038	NM	1.95E+00	9.37E-01	120	-99	-99
2.39389	24.4	3558.2	3559.1	0.69	4.63	0.0022	0.0022	NM	2.00E+00	9.58E-01	120	-99	-99
2.44566	22.63	3279.3	3280.2	0.7	4.66	0.0027	0.0017	NM	2.04E+00	9.78E-01	120	-99	-99
2.50064	21.65	3091.4	3092.4	0.7	5.07	0.0038	0.0032	NM	2.08E+00	1.00E+00	120	-99	-99
2.55683	19.81	2847.7	2848.9	0.7	5.82	0.0032	0.0044	NM	2.13E+00	1.02E+00	120	-99	-99
2.60901	18.27	2626.1	2627.1	0.7	5.02	0.0033	0.0046	NM	2.17E+00	1.04E+00	120	-99	-99
2.66078	16.89	2419.1	2420.1	0.69	4.92	0.0041	0.0046	NM	2.22E+00	1.06E+00	120	-99	-99
2.70854	15.11	2278.2	2279	0.66	4.13	0.0042	0.0049	NM	2.26E+00	1.08E+00	120	-99	-99
2.76071	13.55	2124.1	2124.8	0.64	3.98	0.0049	0.0046	NM	2.30E+00	1.10E+00	120	-99	-99
2.81288	13.24	2024.3	2025	0.65	3.88	0.0035	0.0047	NM	2.34E+00	1.13E+00	120	-99	-99
2.86506	13.17	1939.1	1939.9	0.68	3.83	0.0036	0.0055	NM	2.39E+00	1.15E+00	120	-99	-99
2.91763	13	1945	1945.7	0.67	3.63	0.0061	0.007	NM	2.43E+00	1.17E+00	120	-99	-99
2.97021	13.29	2040.4	2041.1	0.65	3.63	0.0089	0.0083	NM	2.48E+00	1.19E+00	120	-99	-99
3.02198	13.57	2159.3	2160	0.63	3.38	0.0074	0.0072	NM	2.52E+00	1.21E+00	120	-99	-99
3.07456	14.23	2196	2196.7	0.65	3.58	0.0057	0.0058	NM	2.56E+00	1.23E+00	120	-99	-99
3.12633	14.76	2049.2	2049.9	0.72	3.33	0.0048	0.0048	NM	2.61E+00	1.25E+00	120	-99	-99
3.18011	14.99	1832	1832.7	0.82	3.88	0.0047	0.0043	NM	2.65E+00	1.27E+00	120	-99	-99
3.23108	15.31	1601.5	1602.2	0.96	3.48	0.0045	0.0049	NM	2.69E+00	1.29E+00	120	-99	-99
3.28366	15.76	1412.2	1412.8	1.12	3.28	0.0051	0.0056	NM	2.74E+00	1.31E+00	120	-99	-99
3.33623	16.04	1218.4	1219.1	1.32	3.78	0.0059	0.0066	NM	2.78E+00	1.33E+00	120	6	7
3.38921	15.51	1052.5	1053.2	1.47	3.38	0.0061	0.0072	NM	2.82E+00	1.36E+00	120	6	7
3.43937	12.32	866.1	866.8	1.42	3.63	0.0053	0.007	NM	2.87E+00	1.38E+00	120	6	7
3.49315	9.96	688.5	689.2	1.45	3.38	0.0077	0.0087	NM	2.91E+00	1.40E+00	120	6	7
3.54292	9.59	563.7	564.3	1.7	3.08	0.01	0.0096	NM	2.95E+00	1.42E+00	120	6	7
3.5967	8.95	474.2	474.7	1.89	2.83	0.0101	0.0101	NM	3.00E+00	1.44E+00	120	6	7
3.64787	8.16	397.9	398.3	2.05	2.38	0.0084	0.0104	NM	3.04E+00	1.46E+00	120	6	7
3.70105	7.32	334.7	335.2	2.18	2.33	0.0092	0.0113	NM	3.08E+00	1.48E+00	120	6	7
3.75242	6.78	287.8	288.2	2.35	2.03	0.0091	0.0106	NM	3.13E+00	1.50E+00	120	5	7
3.81058	6.78	238.8	239.1	2.84	1.52	0.0081	0.0109	NM	3.18E+00	1.52E+00	120	5	6
3.86192	7	199.2	199.5	3.51	1.72	0.0078	0.0113	NM	3.22E+00	1.55E+00	120	8	6
3.90964	7.07	190.4	190.7	3.7	1.67	0.0084	0.0118	NM	3.26E+00	1.56E+00	120	8	6
3.96018	6.94	194.8	195.1	3.55	1.77	0.0101	0.0146	NM	3.30E+00	1.58E+00	120	8	6
4.01191	6.8	210.9	211.2	3.12	1.62	0.0098	0.0132	NM	3.34E+00	1.61E+00	120	5	6
4.06324	6.21	216.8	217.1	2.86	1.47	0.0105	0.0129	NM	3.39E+00	1.63E+00	120	5	6
4.11739	6.04	194.8	195.1	3.09	1.42	0.0129	0.0151	NM	3.43E+00	1.65E+00	120	5	6
4.17313	5.95	155.2	155.5	3.83	1.62	0.0124	0.0144	NM	3.48E+00	1.67E+00	120	4	6
4.22647	5.82	147.9	148.2	3.92	1.92	0.012	0.0132	NM	3.52E+00	1.69E+00	120	4	6
4.28142	5.55	134.7	135.1	4.11	2.12	0.0126	0.0138	NM	3.57E+00	1.71E+00	120	4	6
4.33556	5.18	121.5	121.9	4.25	2.27	0.014	0.0153	NM	3.61E+00	1.73E+00	120	4	6
4.38569	4.87	99.5	99.9	4.87	2.52	0.0154	0.0161	NM	3.66E+00	1.75E+00	120	4	6
4.43823	4.51	87.7	88.3	5.11	2.87	0.0165	0.0146	NM	3.70E+00	1.78E+00	120	4	6
4.48916	4.06	80.4	81	5.01	3.22	0.0137	0.0181	NM	3.74E+00	1.80E+00	120	4	6
4.5425	3.86	76	76.8	5.03	4.21	0.043	0.0142	NM	3.79E+00	1.82E+00	120	3	6
4.59785	3.7	71.6	72.5	5.11	4.76	0.0945	0.0484	NM	3.83E+00	1.84E+00	120	3	6
4.65359	3.34	64.3	65.3	5.11	5.36	0.0887	0.0639	NM	3.88E+00	1.86E+00	120	3	5
4.71014	3.1	62.8	63.9	4.84	5.86	0.1099	0.0619	NM	3.93E+00	1.88E+00	120	3	5

4.76709	2.99	67.2	68.4	4.37	6.46	0.115	0.0635	NM	3.97E+00	1.91E+00	120	4	5
4.82925	3.15	81.9	83.2	3.79	6.96	0.1473	0.0701	NM	4.02E+00	1.93E+00	120	4	6
4.8874	3.56	95.1	96.5	3.89	7.56	0.165	0.0721	NM	4.07E+00	1.96E+00	120	4	6
4.94957	3.83	106.8	108.3	3.53	7.86	0.1672	0.0697	NM	4.13E+00	1.98E+00	120	4	6
5.01173	3.64	124.4	125.9	2.89	7.81	0.1677	0.0741	NM	4.18E+00	2.01E+00	120	5	6
5.0767	3.23	150.8	152.3	2.12	7.66	0.1692	0.0755	NM	4.23E+00	2.03E+00	120	5	6
5.14007	2.94	234.4	236	1.25	8.26	0.1698	0.0753	NM	4.28E+00	2.06E+00	120	6	6
5.20463	3.06	391.3	392.9	0.78	8.26	0.1711	0.0739	NM	4.34E+00	2.08E+00	120	6	7
5.2668	3.47	554.2	555.3	0.63	5.66	0.169	0.0722	NM	4.39E+00	2.11E+00	120	6	7
5.33177	3.8	661.2	661.8	0.57	3.12	0.1728	0.0733	NM	4.44E+00	2.13E+00	120	6	7
5.39914	4.07	739	739.5	0.55	2.62	0.1958	0.0859	NM	4.50E+00	2.16E+00	120	6	7
5.47013	5.84	818.2	818.7	0.71	2.47	0.224	0.0987	NM	4.56E+00	2.19E+00	120	6	7
5.5371	8.47	928.2	928.7	0.91	2.72	0.2311	0.1023	NM	4.61E+00	2.22E+00	120	6	7
5.60408	10.21	1118.9	1119.5	0.91	3.22	0.2487	0.1099	NM	4.67E+00	2.24E+00	120	6	7
5.67186	8.18	1448.9	1449.6	0.56	3.62	0.2592	0.1191	NM	4.73E+00	2.27E+00	120	7	7
5.74004	10.72	1805.3	1806.1	0.59	4.11	0.3013	0.1452	NM	4.78E+00	2.30E+00	120	7	7
5.80541	16.06	2276.2	2277	0.71	4.06	0.3203	0.1523	NM	4.84E+00	2.32E+00	120	7	7
5.87479	17.13	2402.3	2402.9	0.71	3.07	0.3133	0.1406	NM	4.90E+00	2.35E+00	120	-99	-99
5.94217	16.07	2751.4	2751.9	0.58	2.62	0.3124	0.1455	NM	4.95E+00	2.38E+00	120	-99	-99
6.00754	19.39	3125.4	3126.1	0.62	3.66	0.3113	0.1506	NM	5.01E+00	2.40E+00	120	-99	-99
6.07251	22.6	3379.2	3380.2	0.67	5.01	0.3343	0.1727	NM	5.06E+00	2.43E+00	120	-99	-99
6.13988	24.78	3426.1	3428	0.72	9.5	0.3416	0.1927	NM	5.12E+00	2.46E+00	120	-99	-99
6.20586	27.28	3649.1	3650.1	0.75	5.36	0.3691	0.2117	NM	5.17E+00	2.48E+00	120	-99	-99
6.27424	29.26	3976.2	3977.1	0.74	4.86	0.3892	0.2129	NM	5.23E+00	2.51E+00	120	-99	-99
6.34201	23.52	4171.3	4172.2	0.56	4.71	0.3485	0.2083	NM	5.29E+00	2.54E+00	120	-99	-99
6.41019	30.39	4472	4473.1	0.68	5.76	0.3371	0.1803	NM	5.34E+00	2.56E+00	120	-99	-99
6.47717	64.08	4656.8	4658.2	1.38	7.61	0.3338	0.1741	NM	5.40E+00	2.59E+00	120	-99	-99
6.54535	135.61	4819.6	4820.8	2.81	6.26	0.3337	0.1839	NM	5.45E+00	2.62E+00	120	-99	-99
6.61232	195.31	4709.6	4710.7	4.15	5.76	0.3373	0.1915	NM	5.51E+00	2.65E+00	120	-99	-99
6.67809	211.8	5016.1	5017.3	4.22	5.96	0.3402	0.2022	NM	5.57E+00	2.67E+00	120	-99	-99
6.74467	94.41	5605.8	5607.1	1.68	6.86	0.3152	0.1773	NM	5.62E+00	2.70E+00	120	-99	-99
6.81044	98.89	6449.2	6452.5	1.53	17.34	0.2868	0.1519	NM	5.68E+00	2.72E+00	120	-99	-99
6.87501	54.9	7206	7210.2	0.76	21.68	0.2612	0.142	NM	5.73E+00	2.75E+00	120	-99	-99
6.93918	41.54	7562.5	7566.2	0.55	19.28	0.2352	0.1252	NM	5.78E+00	2.78E+00	120	-99	-99
7.03944	51.55	6101.5	6103	0.84	7.61	0.2516	0.1309	NM	5.87E+00	2.82E+00	120	-99	-99
7.08719	57.14	8953.4	8955.1	0.64	8.89	0.2233	0.1216	NM	5.91E+00	2.84E+00	120	-99	-99
7.11729	69.11	8640.9	8642.3	0.8	7.3	0.2089	0.1169	NM	5.93E+00	2.85E+00	120	-99	-99
7.14979	82.05	8702.5	8704	0.94	7.65	0.2101	0.118	NM	5.96E+00	2.86E+00	120	-99	-99
7.18391	81.46	4433.1	4433.6	1.84	2.7	0.2116	0.1181	NM	5.99E+00	2.87E+00	120	-99	-99
7.21521	77.05	4606.2	4606.6	1.67	1.91	0.2136	0.1158	NM	6.01E+00	2.89E+00	120	-99	-99
7.25535	67.75	3906.4	3906.7	1.73	1.76	0.2177	0.1168	NM	6.05E+00	2.90E+00	120	-99	-99
7.29588	57.28	3969.4	3969.9	1.44	2.25	0.2246	0.1244	NM	6.08E+00	2.92E+00	120	-99	-99
7.34645	50.15	4400.8	4401.2	1.14	2.16	0.2124	0.1199	NM	6.12E+00	2.94E+00	120	-99	-99
7.40063	46.4	3388.5	3388.9	1.37	2.2	0.1978	0.1137	NM	6.17E+00	2.96E+00	120	-99	-99
7.43073	44.9	3309.2	3309.7	1.36	2.5	0.1964	0.1145	NM	6.19E+00	2.97E+00	120	-99	-99
7.50498	36.29	3007	3007.5	1.21	2.8	0.202	0.1184	NM	6.25E+00	3.00E+00	120	6	7
7.57361	36.18	2786.9	2787.3	1.3	1.81	0.203	0.1194	NM	6.31E+00	3.03E+00	120	6	7
7.64063	38.4	2632.9	2633.3	1.46	2.4	0.1926	0.1114	NM	6.37E+00	3.06E+00	120	6	7
7.70766	25.36	2610.9	2611.3	0.97	2.45	0.1894	0.1099	NM	6.42E+00	3.08E+00	120	6	7
7.77628	18.72	2439.2	2439.6	0.77	2.2	0.1832	0.1057	NM	6.48E+00	3.11E+00	120	7	7
7.84371	17.62	2540.4	2540.9	0.69	2.45	0.1893	0.1093	NM	6.54E+00	3.14E+00	120	7	7
7.91555	14.8	2531.6	2532.1	0.58	2.25	0.1971	0.1191	NM	6.60E+00	3.17E+00	120	7	7

7.98297	13.53	2456.8	2457.3	0.55	2.3	0.1775	0.1055	NM	6.65E+00	3.19E+00	120	7	7
8.0512	20.42	2404	2404.4	0.85	2.06	0.2288	0.1235	NM	6.71E+00	3.22E+00	120	7	7
8.12023	17.33	2339.5	2339.8	0.74	1.86	0.1774	0.0946	NM	6.77E+00	3.25E+00	120	7	7
8.18886	16.68	2373.2	2373.6	0.7	1.96	0.1658	0.0878	NM	6.82E+00	3.28E+00	120	7	7
8.25548	17.47	2449.5	2449.9	0.71	2.2	0.1775	0.1033	NM	6.88E+00	3.30E+00	120	7	7
8.32732	16.17	2584.5	2584.9	0.63	2.16	0.1821	0.1049	NM	6.94E+00	3.33E+00	120	7	7
8.39876	18.48	2486.2	2486.5	0.74	1.61	0.1998	0.112	NM	7.00E+00	3.36E+00	120	7	7
8.47261	23.11	2405.5	2405.8	0.96	0.71	0.1578	0.0863	NM	7.06E+00	3.39E+00	120	6	7
8.53602	26	2515.5	2515.8	1.03	0.41	0.1548	0.0853	NM	7.11E+00	3.41E+00	120	6	7
8.60304	29.02	2540.4	2540.5	1.14	0.51	0.1615	0.0904	NM	7.17E+00	3.44E+00	120	6	7
8.66806	24.56	2638.8	2638.8	0.93	0.26	0.1772	0.0967	NM	7.22E+00	3.47E+00	120	6	7
8.7387	22.88	2565.4	2565.6	0.89	1.31	0.1746	0.0975	NM	7.28E+00	3.50E+00	120	7	7
8.80732	25.42	2607.9	2608	0.97	0.46	0.1653	0.091	NM	7.34E+00	3.52E+00	120	6	7
8.87395	28.28	2718	2718.1	1.04	0.86	0.1624	0.0883	NM	7.40E+00	3.55E+00	120	6	7
8.94298	27.05	2766.4	2766.5	0.98	0.56	0.1523	0.0816	NM	7.45E+00	3.58E+00	120	6	7
9.01722	25.56	2258.8	2258.9	1.13	0.91	0.152	0.081	NM	7.51E+00	3.61E+00	120	6	7
9.07943	30.36	2357.1	2357.1	1.29	0.46	0.1548	0.0811	NM	7.57E+00	3.63E+00	120	6	7
9.14645	22.85	2318.9	2319	0.99	0.51	0.1547	0.0827	NM	7.62E+00	3.66E+00	120	6	7
9.21508	28.26	2411.3	2411.6	1.17	1.16	0.1545	0.0857	NM	7.68E+00	3.69E+00	120	6	7
9.28652	41.39	2759.1	2759.2	1.5	0.91	0.1817	0.0892	NM	7.74E+00	3.72E+00	120	6	7
9.34913	44.19	2813.3	2813.4	1.57	0.46	0.187	0.1034	NM	7.79E+00	3.74E+00	120	6	7
9.41294	42.77	2867.6	2867.8	1.49	0.71	0.1546	0.0836	NM	7.84E+00	3.77E+00	120	6	7
9.47957	15.52	3290.2	3290.4	0.47	1.26	0.1597	0.0873	NM	7.90E+00	3.79E+00	120	7	7
9.54378	68.45	4127.9	4128.1	1.66	0.81	0.1698	0.0943	NM	7.95E+00	3.82E+00	120	-99	-99
9.61	60.01	4943.6	4943.6	1.21	-0.14	0.1875	0.0996	NM	8.01E+00	3.84E+00	120	-99	-99
9.67903	55.69	5524.6	5524.7	1.01	0.16	0.1938	0.1146	NM	8.07E+00	3.87E+00	120	-99	-99
9.75248	53.31	6541.4	6541.4	0.82	0.06	0.1608	0.0874	NM	8.13E+00	3.90E+00	120	-99	-99
9.82592	48.26	3389.9	3389.8	1.45	-0.79	0.1636	0.0913	NM	8.19E+00	3.93E+00	120	8	7
9.88532	47.95	1368.2	1368.1	3.5	-0.34	0.1642	0.0913	NM	8.24E+00	3.95E+00	120	8	7
9.95274	52.21	1726.2	1726.2	3.02	0.11	0.2081	0.1061	NM	8.29E+00	3.98E+00	120	8	7
10.02137	31.01	2112	2112	1.47	-0.14	0.2094	0.1002	NM	8.35E+00	4.01E+00	120	6	7
10.08799	7.75	2305.7	2305.7	0.34	-0.04	0.1615	0.0861	NM	8.41E+00	4.04E+00	120	7	7
10.15582	6.9	2376.1	2376.1	0.29	0.11	0.1604	0.085	NM	8.46E+00	4.06E+00	120	7	7
10.22405	11.11	2408.4	2408.5	0.46	0.36	0.1515	0.0802	NM	8.52E+00	4.09E+00	120	7	7
10.29027	14.23	2443.6	2443.7	0.58	0.61	0.1484	0.0764	NM	8.58E+00	4.12E+00	120	7	7
10.35769	13.46	2225	2225.1	0.6	0.66	0.1434	0.0739	NM	8.63E+00	4.14E+00	120	7	7
10.42313	14.77	2078.7	2079.7	0.71	4.86	0.1435	0.0741	NM	8.69E+00	4.17E+00	120	7	7
10.48539	15.88	2271.1	2272	0.7	4.81	0.1416	0.0722	NM	8.74E+00	4.19E+00	120	7	7
10.55728	17.19	2080.2	2081.1	0.83	4.46	0.1449	0.0733	NM	8.80E+00	4.22E+00	120	6	7
10.61873	20.54	2022.9	2023.9	1.01	4.91	0.1392	0.0781	NM	8.85E+00	4.25E+00	120	6	7
10.68218	18.88	2285.7	2285.8	0.83	0.17	0.1385	0.0769	NM	8.90E+00	4.27E+00	120	6	7
10.75247	16.97	2368	2367.9	0.72	-0.33	0.1393	0.0471	NM	8.96E+00	4.30E+00	120	7	7
10.82436	16.42	2370.9	2370.9	0.69	-0.13	0.1293	0.0688	NM	9.02E+00	4.33E+00	120	7	7
10.89183	23.45	2575	2574.9	0.91	-0.33	0.1391	0.0764	NM	9.08E+00	4.36E+00	120	6	7
10.95649	22.74	2472.2	2472.2	0.92	-0.23	0.1375	0.0781	NM	9.13E+00	4.38E+00	120	6	7
11.02276	21.31	2630.8	2630.7	0.81	-0.18	0.1366	0.0787	NM	9.19E+00	4.41E+00	120	6	7
11.09425	17.4	2920	2920	0.6	-0.08	0.1363	0.0794	NM	9.25E+00	4.44E+00	120	7	7
11.16052	24.3	2972.9	2972.8	0.82	-0.23	0.1352	0.0793	NM	9.30E+00	4.46E+00	120	7	7
11.2292	17.97	2905.3	2905.2	0.62	-0.83	0.1443	0.0763	NM	9.36E+00	4.49E+00	120	7	7
11.29948	19.73	2986.1	2986.2	0.66	0.77	0.1581	0.0785	NM	9.42E+00	4.52E+00	120	7	7
11.36575	50.95	3225.4	3225.4	1.58	0.12	0.1516	0.0739	NM	9.47E+00	4.55E+00	120	8	7
11.44447	47.52	2696.8	2696.8	1.76	-0.08	0.1523	0.0593	NM	9.54E+00	4.58E+00	120	8	7

11.50632	48.55	3423.6	3423.6	1.42	0.12	0.1528	0.0554	NM	9.59E+00	4.60E+00	120	6	7
11.56938	49.71	3734.9	3734.9	1.33	0.27	0.1531	0.053	NM	9.64E+00	4.63E+00	120	6	7
11.64207	46.8	3426.6	3426.5	1.37	-0.13	0.1545	0.0531	NM	9.70E+00	4.66E+00	120	6	7
11.71235	45.81	3213.7	3213.5	1.43	-0.73	0.1489	0.0508	NM	9.76E+00	4.69E+00	120	6	7
11.77943	44.47	3752.5	3752.3	1.19	-1.18	0.1388	0.0447	NM	9.82E+00	4.71E+00	120	6	7
11.8465	47.18	3379.6	3379.4	1.4	-1.06	0.1327	0.0419	NM	9.87E+00	4.74E+00	120	6	7
11.91236	42.93	3554.3	3554	1.21	-1.48	0.131	0.0429	NM	9.93E+00	4.77E+00	120	6	7
11.97984	50.55	3720.2	3719.9	1.36	-1.83	0.1318	0.0442	NM	9.98E+00	4.79E+00	120	6	7
12.04651	52.17	3793.6	3793.3	1.38	-1.73	0.1324	0.047	NM	1.00E+01	4.82E+00	120	6	7
12.1184	62.8	3906.7	3906.4	1.61	-1.58	0.1347	0.0503	NM	1.01E+01	4.85E+00	120	8	7
12.18186	58.08	4206.2	4205.9	1.38	-1.53	0.1341	0.0527	NM	1.02E+01	4.87E+00	120	6	7
12.25696	61.36	4071.1	4070.9	1.51	-1.08	0.1347	0.0529	NM	1.02E+01	4.90E+00	120	8	7
12.32162	64.44	3745.2	3744.3	1.72	-4.58	0.1378	0.0546	NM	1.03E+01	4.93E+00	120	8	7
12.38548	68.12	3598.4	3597.4	1.89	-4.98	0.14	0.0564	NM	1.03E+01	4.95E+00	120	8	7
12.44974	68.95	3933.1	3932.2	1.75	-4.68	0.1401	0.0577	NM	1.04E+01	4.98E+00	120	8	7
12.52163	59.32	3991.8	3990.8	1.49	-5.18	0.1438	0.0627	NM	1.04E+01	5.01E+00	120	6	7
12.5883	60.53	4103.4	4102.5	1.48	-4.58	0.1494	0.0633	NM	1.05E+01	5.04E+00	120	6	7
12.65457	54.48	4501.3	4500.5	1.21	-3.98	0.1549	0.0638	NM	1.06E+01	5.06E+00	120	6	7
12.71803	52.65	4728.9	4728.1	1.11	-3.93	0.1603	0.0643	NM	1.06E+01	5.09E+00	120	6	7
12.7847	45.21	5003.5	5002.7	0.9	-3.68	0.1557	0.0682	NM	1.07E+01	5.11E+00	120	7	7
12.85016	41.68	5865.3	5864.6	0.71	-3.78	0.1486	0.067	NM	1.07E+01	5.14E+00	120	-99	-99
12.92607	76.67	5997.4	5996.9	1.28	-2.83	0.1438	0.0697	NM	1.08E+01	5.17E+00	120	-99	-99
12.98953	130.51	6427.6	6427.1	2.03	-2.93	0.1417	0.0707	NM	1.08E+01	5.20E+00	120	-99	-99
13.0566	120.6	6780	6779.5	1.78	-2.53	0.1405	0.0712	NM	1.09E+01	5.22E+00	120	-99	-99
13.12407	110.49	7478.9	7478.7	1.48	-1.33	0.1405	0.0741	NM	1.09E+01	5.25E+00	120	-99	-99
13.19235	106.3	6482	6481.8	1.64	-1.13	0.1393	0.0752	NM	1.10E+01	5.28E+00	120	-99	-99
13.26183	147.18	5592.2	5592.1	2.63	-0.73	0.1379	0.074	NM	1.11E+01	5.31E+00	120	-99	-99
13.3281	170.96	4802.3	4802.1	3.56	-0.88	0.1461	0.0832	NM	1.11E+01	5.33E+00	120	8	7
13.39758	138.28	4361.8	4361.7	3.17	-0.93	0.1574	0.0925	NM	1.12E+01	5.36E+00	120	8	7
13.46626	94.64	4126.9	4126.9	2.29	-0.28	0.1545	0.0909	NM	1.12E+01	5.39E+00	120	8	7
13.53253	78.81	4367.7	4367.6	1.8	-0.83	0.1568	0.0894	NM	1.13E+01	5.41E+00	120	8	7
13.59799	62.06	4935.9	4935.3	1.26	-3.08	0.1572	0.0859	NM	1.13E+01	5.44E+00	120	6	7
13.66346	49.22	4097.5	4097.4	1.2	-0.88	0.1517	0.0822	NM	1.14E+01	5.47E+00	120	6	7
13.72571	42.27	4709.8	4709.7	0.9	-0.58	0.1455	0.0794	NM	1.14E+01	5.49E+00	120	7	7
13.75699	38.49	4942.4	4942.5	0.78	0.48	0.1424	0.078	NM	1.15E+01	5.50E+00	120	7	7
13.82637	40.58	4405.2	4405.3	0.92	0.63	0.1358	0.0751	NM	1.15E+01	5.53E+00	120	7	7
13.88934	44.76	5108.3	5108.4	0.88	0.73	0.1305	0.0694	NM	1.16E+01	5.56E+00	120	7	7
13.95992	48.95	3671.2	3671.5	1.33	1.48	0.1245	0.0615	NM	1.16E+01	5.58E+00	120	6	7
13.9928	50.51	3448.1	3448.6	1.46	2.68	0.1216	0.0578	NM	1.17E+01	5.60E+00	120	6	7
14.05737	44.78	3768.1	3768.7	1.19	3.18	0.1193	0.0532	NM	1.17E+01	5.62E+00	120	6	7
14.12554	49.09	3879.7	3880.1	1.27	2.13	0.1171	0.0523	NM	1.18E+01	5.65E+00	120	6	7
14.19932	41.92	3572.9	3573.2	1.17	1.63	0.1173	0.0519	NM	1.18E+01	5.68E+00	120	6	7
14.26549	39.12	3671.2	3671.7	1.07	2.38	0.1172	0.0514	NM	1.19E+01	5.71E+00	120	6	7
14.33607	35.77	3608.1	3608.6	0.99	2.48	0.1145	0.0493	NM	1.20E+01	5.73E+00	120	6	7
14.39943	32.51	3822.4	3822.9	0.85	2.58	0.1152	0.0501	NM	1.20E+01	5.76E+00	120	7	7
14.47602	32.43	3801.9	3802	0.85	0.53	0.1171	0.052	NM	1.21E+01	5.79E+00	120	8	7
14.53417	37.62	3442.2	3442.3	1.09	0.23	0.1201	0.0551	NM	1.21E+01	5.81E+00	120	8	7
14.60194	39.89	3407	3407.1	1.17	0.48	0.1226	0.0571	NM	1.22E+01	5.84E+00	120	8	7
14.66931	42.15	3421.7	3421.8	1.23	0.58	0.1246	0.057	NM	1.22E+01	5.87E+00	120	8	7
14.74069	44.54	3487.7	3487.9	1.28	0.58	0.1255	0.0574	NM	1.23E+01	5.90E+00	120	8	7
14.80726	31.64	3732.9	3733	0.85	0.58	0.1288	0.0581	NM	1.23E+01	5.92E+00	120	6	7
14.87262	27.44	4088.1	4088.3	0.67	1.03	0.1328	0.0586	NM	1.24E+01	5.95E+00	120	7	7

15.08957	23.74	5061.3	5061.3	0.47	0.18	0.1294	0.0648	NM	1.26E+01	6.04E+00	120	7	7
15.14371	34.15	5551.6	5551.6	0.62	0.13	0.1249	0.0602	NM	1.26E+01	6.06E+00	120	7	7
15.1802	43.01	5246.3	5246.3	0.82	0.38	0.1205	0.0554	NM	1.27E+01	6.07E+00	120	7	7
15.25198	55.58	5272.7	5272.9	1.05	0.93	0.1151	0.0539	NM	1.27E+01	6.10E+00	120	6	7
15.32336	64.72	4619.5	4619.6	1.4	0.53	0.1096	0.0533	NM	1.28E+01	6.13E+00	120	6	7
15.39394	63.12	4080.8	4080.8	1.55	0.43	0.1076	0.0518	NM	1.28E+01	6.16E+00	120	6	7
15.4585	57.95	4061.7	4061.8	1.43	0.78	0.099	0.0479	NM	1.29E+01	6.18E+00	120	6	7
15.52347	54.38	4535.8	4536.1	1.2	1.53	0.0972	0.0486	NM	1.29E+01	6.21E+00	120	6	7
15.59244	58.86	4945.3	4945.7	1.19	1.63	0.0972	0.049	NM	1.30E+01	6.24E+00	120	6	7
15.65861	72.61	5293.2	5293.4	1.37	1.03	0.0852	0.0425	NM	1.31E+01	6.26E+00	120	6	7
15.72558	88.33	5316.7	5316.9	1.66	0.83	0.0781	0.0378	NM	1.31E+01	6.29E+00	120	8	7
15.79174	103.85	5514.9	5515.1	1.88	1.23	0.0736	0.0345	NM	1.32E+01	6.32E+00	120	8	7
15.85911	121.44	5745.3	5745.7	2.11	1.83	0.0675	0.0319	NM	1.32E+01	6.34E+00	120	8	7
15.92408	137.57	5920	5920.6	2.32	3.23	0.0677	0.0312	NM	1.33E+01	6.37E+00	120	8	7
15.99185	153.93	6521.8	6522.5	2.36	3.63	0.0661	0.031	NM	1.33E+01	6.40E+00	120	-99	-99
16.18193	109.66	6982.8	6983.4	1.57	3.58	0.068	0.0343	NM	1.35E+01	6.47E+00	120	-99	-99
16.21321	100.79	6927	6927.6	1.45	3.28	0.0696	0.0365	NM	1.35E+01	6.49E+00	120	-99	-99
16.40369	73.73	5991.9	5991.9	1.23	-0.42	0.0655	0.0334	NM	1.37E+01	6.56E+00	120	6	7
16.4502	66.71	5103.9	5103.8	1.31	-0.32	0.0699	0.0358	NM	1.37E+01	6.58E+00	120	6	7
16.49632	60.47	4830.8	4830.8	1.25	-0.47	0.07	0.0323	NM	1.38E+01	6.60E+00	120	6	7
16.53522	61.42	5215.4	5215.3	1.18	-0.57	0.0701	0.0329	NM	1.38E+01	6.61E+00	120	6	7
16.57612	61.21	5359.3	5359.2	1.14	-0.57	0.0706	0.0332	NM	1.38E+01	6.63E+00	120	6	7
16.63066	58.87	4907.2	4907.1	1.2	-0.47	0.0719	0.0334	NM	1.39E+01	6.65E+00	120	6	7
16.69883	58.89	3988.3	3988.2	1.47	-0.72	0.0695	0.0354	NM	1.39E+01	6.68E+00	120	6	7
16.7674	45.74	3778.4	3778.2	1.21	-0.72	0.0674	0.0342	NM	1.40E+01	6.71E+00	120	6	7
16.83678	35.74	3584.6	3584.5	1	-0.57	0.0654	0.0327	NM	1.40E+01	6.74E+00	120	6	7
16.90696	28.76	3376.2	3376.2	0.85	-0.12	0.0645	0.0345	NM	1.41E+01	6.76E+00	120	6	7
16.97232	26.89	3235.3	3235.2	0.83	-0.22	0.0642	0.0349	NM	1.41E+01	6.79E+00	120	6	7
17.0421	24.67	3135.5	3135.4	0.79	-0.32	0.0647	0.0372	NM	1.42E+01	6.82E+00	120	6	7
17.10947	20.03	3045.9	3045.9	0.66	-0.17	0.0667	0.038	NM	1.43E+01	6.84E+00	120	7	7
17.17523	16.11	3203	3202.9	0.5	-0.27	0.0673	0.0389	NM	1.43E+01	6.87E+00	120	7	7
17.22056	14.58	3067.3	3067.5	0.48	1.05	0.067	0.0386	NM	1.44E+01	6.89E+00	120	7	7
17.29757	19.95	3411.3	3411.3	0.58	0.15	0.0693	0.0388	NM	1.44E+01	6.92E+00	120	7	7
17.35533	23.86	3175.9	3175.9	0.75	0.15	0.07	0.0388	NM	1.45E+01	6.94E+00	120	6	7
17.42072	22.84	3055.5	3055.6	0.75	0.75	0.0709	0.0392	NM	1.45E+01	6.97E+00	120	6	7
17.48771	19.96	3001.1	3001.2	0.67	0.15	0.0721	0.0407	NM	1.46E+01	7.00E+00	120	6	7
17.55591	19.14	2822	2822	0.68	-0.1	0.0732	0.0419	NM	1.46E+01	7.02E+00	120	6	7
17.6225	17.97	2870.4	2870.5	0.63	0.25	0.0754	0.0425	NM	1.47E+01	7.05E+00	120	6	7
17.6931	17.5	2863.4	2863.4	0.66	0.3	0.0769	0.0435	NM	1.47E+01	7.08E+00	120	6	7
17.76531	16.63	2681	2681	0.62	0.1	0.077	0.0448	NM	1.48E+01	7.11E+00	120	6	7
17.82909	13.42	2870.7	2870.8	0.5	0.25	0.0792	0.0456	NM	1.49E+01	7.13E+00	120	7	7
17.89768	10.93	2863.4	2863.4	0.41	0.25	0.0818	0.0467	NM	1.49E+01	7.16E+00	120	7	7
17.96548	10.05	2588.5	2588.6	0.39	0.65	0.083	0.0484	NM	1.50E+01	7.19E+00	120	7	7
18.03327	10.19	2523.8	2523.9	0.4	0.25	0.0844	0.0496	NM	1.50E+01	7.21E+00	120	7	7
18.10187	10.02	2459.2	2459.3	0.41	0.3	0.0854	0.0498	NM	1.51E+01	7.24E+00	120	7	7
18.17327	9.72	2372.6	2372.6	0.41	0.25	0.0873	0.0501	NM	1.51E+01	7.27E+00	120	7	7
18.24108	9.06	2308	2308	0.39	0.2	0.0897	0.0528	NM	1.52E+01	7.30E+00	120	7	7
18.31046	8.9	2128.8	2128.8	0.42	0.15	0.0947	0.0558	NM	1.53E+01	7.32E+00	120	7	7
18.38307	9.72	2106.8	2106.8	0.46	0.2	0.0998	0.0589	NM	1.53E+01	7.35E+00	120	6	7
18.45167	8.82	1967.2	1967.3	0.45	0.1	0.1044	0.0617	NM	1.54E+01	7.38E+00	120	6	7
18.52267	11	1912.9	1912.9	0.57	0.1	0.1054	0.0628	NM	1.54E+01	7.41E+00	120	6	7
18.59528	12.08	1882.1	1882.1	0.64	0.05	0.108	0.063	NM	1.55E+01	7.44E+00	120	6	7

18.66147	13.31	1907	1907	0.7	0	0.1056	0.0637	NM	1.56E+01	7.47E+00	120	6	7
18.72846	25.42	1955.5	1955.6	1.3	0.35	0.1055	0.0629	NM	1.56E+01	7.49E+00	120	6	7
18.79745	22.16	1818.9	1818.9	1.22	-0.1	0.1063	0.0632	NM	1.57E+01	7.52E+00	120	6	7
18.86364	20.73	1976.1	1976.1	1.05	-0.05	0.1056	0.0641	NM	1.57E+01	7.55E+00	120	6	7
18.92943	20.78	2169.9	2169.9	0.96	0	0.1071	0.0635	NM	1.58E+01	7.57E+00	120	6	7
19.00645	21.89	1697	1697	1.29	-0.3	0.1078	0.0641	NM	1.58E+01	7.60E+00	120	6	7
19.07144	20.2	1589.8	1589.7	1.27	-0.4	0.1094	0.0648	NM	1.59E+01	7.63E+00	120	6	7
19.13863	18.1	1603	1603	1.13	-0.4	0.1094	0.0639	NM	1.60E+01	7.66E+00	120	6	7
19.20983	16.75	1595.7	1595.7	1.05	-0.15	0.1098	0.0637	NM	1.60E+01	7.68E+00	120	6	7
19.27783	11.05	1576.6	1576.6	0.7	-0.1	0.11	0.0642	NM	1.61E+01	7.71E+00	120	6	7
19.34382	10.76	1539.9	1539.9	0.7	-0.15	0.1084	0.0637	NM	1.61E+01	7.74E+00	120	6	7
19.41582	9.92	1484.1	1484	0.67	-0.15	0.1104	0.0581	NM	1.62E+01	7.77E+00	120	6	7
19.48382	9.68	1443	1442.9	0.68	-0.15	0.1111	0.061	NM	1.62E+01	7.79E+00	120	6	7
19.55201	10.03	1412.1	1412.1	0.71	-0.15	0.1108	0.0594	NM	1.63E+01	7.82E+00	120	6	7
19.6182	9.76	1363.7	1363.6	0.72	-0.2	0.1099	0.0588	NM	1.64E+01	7.85E+00	120	6	7
19.6876	9.01	1334.3	1334.2	0.68	-0.2	0.1093	0.0593	NM	1.64E+01	7.88E+00	120	6	6
19.75419	8.15	1313.7	1313.7	0.62	-0.25	0.1094	0.0594	NM	1.65E+01	7.90E+00	120	6	6
19.82479	8.09	1309.3	1309.3	0.62	-0.2	0.1054	0.0597	NM	1.65E+01	7.93E+00	120	6	6
19.89339	8.72	1308.4	1308.3	0.67	-0.2	0.0999	0.0599	NM	1.66E+01	7.96E+00	120	6	6
19.96439	9.04	1310.8	1310.7	0.69	-0.2	0.1006	0.0634	NM	1.66E+01	7.99E+00	120	6	6
20.03419	8.3	1313.7	1313.7	0.63	-0.25	0.1015	0.062	NM	1.67E+01	8.01E+00	120	6	6
20.10239	7.88	1294.6	1294.6	0.61	-0.25	0.1022	0.061	NM	1.68E+01	8.04E+00	120	6	6
20.17058	7.37	1231.5	1231.4	0.6	-0.3	0.1028	0.0623	NM	1.68E+01	8.07E+00	120	6	6
20.23998	6.95	1225.6	1225.5	0.57	-0.35	0.1025	0.0636	NM	1.69E+01	8.10E+00	120	6	6
20.30817	6.72	1193.3	1193.2	0.56	-0.25	0.1024	0.0646	NM	1.69E+01	8.12E+00	120	6	6
20.37918	6.49	1174.2	1174.1	0.55	-0.35	0.1023	0.0634	NM	1.70E+01	8.15E+00	120	6	6
20.44737	6.27	1161	1160.9	0.54	-0.25	0.1033	0.0637	NM	1.70E+01	8.18E+00	120	6	6
20.51717	6.15	1159.5	1159.5	0.53	-0.15	0.1034	0.0629	NM	1.71E+01	8.21E+00	120	6	6
20.58456	6.15	1161	1160.9	0.53	-0.2	0.1036	0.0628	NM	1.72E+01	8.23E+00	120	6	6
20.81614	7.13	1152.2	1152.2	0.62	0.25	0.1058	0.0623	NM	1.74E+01	8.33E+00	120	6	6
20.88519	7.29	1188.9	1188.9	0.61	0.25	0.1059	0.0617	NM	1.74E+01	8.35E+00	120	6	6
20.95946	7.49	1230	1230.1	0.61	0.25	0.1054	0.0606	NM	1.75E+01	8.38E+00	120	6	6
21.03011	8.1	1307.8	1307.9	0.62	0.3	0.1051	0.0583	NM	1.75E+01	8.41E+00	120	6	6
21.09795	8.4	1413.6	1413.7	0.59	0.45	0.1052	0.0576	NM	1.76E+01	8.44E+00	120	6	6
21.16379	8.11	1492.9	1493	0.54	0.4	0.1049	0.0573	NM	1.76E+01	8.47E+00	120	6	7
21.23323	7.93	1494.4	1494.4	0.53	0.4	0.1048	0.0581	NM	1.77E+01	8.49E+00	120	6	7
21.30067	8.34	1481.1	1481.2	0.56	0.35	0.1057	0.0594	NM	1.78E+01	8.52E+00	120	6	7
21.37213	23.59	1470.9	1470.9	1.6	0.25	0.1055	0.0604	NM	1.78E+01	8.55E+00	120	6	7
21.44238	23.88	1462	1462.1	1.63	0.15	0.1055	0.0602	NM	1.79E+01	8.58E+00	120	6	7
21.51263	19.18	1479.7	1479.7	1.3	0.15	0.1056	0.0601	NM	1.79E+01	8.61E+00	120	6	7
21.58047	14.54	1628	1628	0.89	0.2	0.1055	0.0593	NM	1.80E+01	8.63E+00	120	6	7
21.64992	24.26	1904.1	1904.2	1.27	0.35	0.1035	0.0583	NM	1.80E+01	8.66E+00	120	6	7
21.71737	19.07	2208.1	2208.2	0.86	0.3	0.1032	0.0617	NM	1.81E+01	8.69E+00	120	6	7
21.78842	24.21	2723.8	2723.9	0.89	1.5	0.1038	0.0578	NM	1.82E+01	8.72E+00	120	6	7
21.85827	29.89	3111.3	3111.5	0.96	1.3	0.1049	0.0591	NM	1.82E+01	8.74E+00	120	6	7
21.93012	30.9	2691.3	2691.3	1.15	0.25	0.1043	0.0629	NM	1.83E+01	8.77E+00	120	6	7
21.99596	34.14	3192.1	3192.1	1.07	0.2	0.1044	0.0609	NM	1.83E+01	8.80E+00	120	6	7
22.0646	48.94	3781	3781	1.29	0.05	0.1038	0.0642	NM	1.84E+01	8.83E+00	120	6	7
22.13184	54.35	4224.5	4224.4	1.29	-0.7	0.1034	0.0647	NM	1.84E+01	8.85E+00	120	6	7
22.19989	71.9	4773.7	4773.5	1.5	-1.2	0.1033	0.0616	NM	1.85E+01	8.88E+00	120	6	7
22.26894	71.39	5452.2	5452	1.31	-1.5	0.1027	0.0629	NM	1.86E+01	8.91E+00	120	6	7
22.34039	86.62	4803.1	4802.8	1.39	-1.4	0.1027	0.0634	NM	1.86E+01	8.94E+00	120	6	7

22.40462	62.63	5121.8	5121.5	1.22	-1.55	0.1027	0.0644	NM	1.87E+01	8.96E+00	120	6	7
22.47848	60.23	4436	4435.8	1.36	-1	0.1011	0.0648	NM	1.87E+01	8.99E+00	120	6	7
22.54472	51.32	4224.5	4224.2	1.21	-1.35	0.0994	0.0645	NM	1.88E+01	9.02E+00	120	6	7
22.61337	37.15	4259.7	4259.5	0.87	-1.2	0.0984	0.0629	NM	1.88E+01	9.05E+00	120	6	7
22.68241	28.28	4221.5	4221.3	0.67	-1.25	0.0983	0.0609	NM	1.89E+01	9.07E+00	120	7	7
22.75266	23.39	4236.2	4236	0.55	-1.2	0.0981	0.0595	NM	1.90E+01	9.10E+00	120	7	7
22.8197	20.84	4297.9	4297.7	0.48	-1.25	0.0974	0.0582	NM	1.90E+01	9.13E+00	120	7	7
22.88634	20.16	4186.3	4186.1	0.48	-1.15	0.0966	0.0571	NM	1.91E+01	9.16E+00	120	7	7
22.95498	19.87	4071.8	4071.5	0.49	-1.2	0.0952	0.0558	NM	1.91E+01	9.18E+00	120	7	7
23.02363	24.13	4080.6	4080.3	0.59	-1.25	0.0941	0.0548	NM	1.92E+01	9.21E+00	120	7	7
23.09308	24.39	3789.8	3789.6	0.64	-1.2	0.0937	0.0545	NM	1.92E+01	9.24E+00	120	6	7
23.16373	23.07	3888.2	3888	0.59	-1.1	0.0932	0.0549	NM	1.93E+01	9.27E+00	120	7	7
23.23117	24.44	4017.4	4017.2	0.61	-1.1	0.0923	0.0527	NM	1.94E+01	9.29E+00	120	7	7
23.30102	24.78	4180.4	4180.2	0.59	-1	0.0899	0.0479	NM	1.94E+01	9.32E+00	120	7	7
23.36967	25.78	4179	4178.8	0.62	-0.95	0.0867	0.0448	NM	1.95E+01	9.35E+00	120	7	7
23.43871	25.97	4336.1	4335.9	0.6	-0.95	0.0691	0.0246	NM	1.95E+01	9.38E+00	120	7	7
23.50616	26.16	4575.5	4575.3	0.57	-0.9	0.0627	0.0118	NM	1.96E+01	9.40E+00	120	7	7
23.5756	26.16	4969.1	4968.9	0.53	-0.9	0.0596	0.0057	NM	1.97E+01	9.43E+00	120	7	7
23.64184	29.9	5543.3	5543.1	0.54	-0.95	0.0589	0.0063	NM	1.97E+01	9.46E+00	120	7	7
23.70848	43.67	6202.7	6202.5	0.7	-0.9	0.0611	0.0145	NM	1.98E+01	9.48E+00	120	7	7
23.91881	61.45	7035.4	7035.1	0.87	3.55	0.0655	0.0232	NM	1.99E+01	9.57E+00	120	7	7
23.96174	58.98	7451	7452.2	0.79	5.9	0.0677	0.0257	NM	2.00E+01	9.59E+00	120	7	7
24.00387	54.72	6907.6	6908.3	0.79	3.25	0.0845	0.0318	NM	2.00E+01	9.60E+00	120	7	7
24.0456	51.04	6586	6586.8	0.77	3.15	0.1097	0.0389	NM	2.00E+01	9.62E+00	120	7	7
24.08934	57.24	6511.1	6511.5	0.88	1.9	0.1108	0.0389	NM	2.01E+01	9.64E+00	120	6	7
24.13227	65.71	6581.6	6581.9	1	1.6	0.1103	0.038	NM	2.01E+01	9.65E+00	120	6	7
24.17541	69.2	6787.2	6787.5	1.02	1.3	0.1084	0.036	NM	2.02E+01	9.67E+00	120	6	7
24.21974	64.34	6746.1	6746.7	0.95	3.05	0.1083	0.036	NM	2.02E+01	9.69E+00	120	6	7
24.26549	55.14	6813.6	6814.2	0.81	3.15	0.109	0.0369	NM	2.02E+01	9.71E+00	120	7	7
24.31083	50.99	6873.8	6874.2	0.74	1.75	0.1078	0.037	NM	2.03E+01	9.72E+00	120	7	7
24.35416	49.76	6939.9	6940.2	0.72	1.35	0.1068	0.0358	NM	2.03E+01	9.74E+00	120	7	7
24.40431	48.64	6722.6	6722.4	0.72	-1.1	0.1055	0.0333	NM	2.03E+01	9.76E+00	120	7	7
24.45487	47.52	5978	5978	0.79	-0.25	0.1025	0.0305	NM	2.04E+01	9.78E+00	120	7	7
24.50664	45.79	5866.4	5866.3	0.78	-0.65	0.0997	0.0272	NM	2.04E+01	9.80E+00	120	7	7
24.56762	43.63	5787.1	5787	0.75	-0.5	0.0986	0.0262	NM	2.05E+01	9.83E+00	120	7	7
24.59972	41.83	5891.6	5891.6	0.73	-0.35	0.0987	0.0266	NM	2.05E+01	9.84E+00	120	7	7
24.63383	38.81	5700.4	5700.3	0.68	-0.45	0.0988	0.0271	NM	2.05E+01	9.85E+00	120	7	7
24.66994	35.68	5682.8	5682.7	0.63	-0.35	0.0989	0.0275	NM	2.06E+01	9.87E+00	120	7	7
24.73213	32.24	5693.1	5693	0.57	-0.4	0.0991	0.0284	NM	2.06E+01	9.89E+00	120	7	7
24.79873	30.18	5700.4	5700.4	0.53	-0.4	0.0995	0.0294	NM	2.07E+01	9.92E+00	120	7	7
24.86855	28.03	5712.2	5712.1	0.49	-0.35	0.0999	0.0306	NM	2.07E+01	9.95E+00	120	7	7
24.93678	27.17	5685.7	5685.7	0.48	-0.4	0.1004	0.0317	NM	2.08E+01	9.98E+00	120	7	7
25.00417	26.8	5785.6	5785.5	0.46	-0.4	0.1008	0.0329	NM	2.08E+01	1.00E+01	120	7	7
25.07439	25.97	5856.1	5856	0.44	-0.35	0.1013	0.0341	NM	2.09E+01	1.00E+01	120	7	7
25.14581	26.41	5901.6	5901.8	0.45	-0.35	0.102	0.0357	NM	2.10E+01	1.01E+01	120	7	7
25.21282	27.13	5976.5	5976.5	0.45	-0.25	0.1037	0.0381	NM	2.10E+01	1.01E+01	120	7	7
25.28143	21.72	5931	5930.9	0.37	-0.35	0.1059	0.0382	NM	2.11E+01	1.01E+01	120	7	7
25.34784	24.73	5847.3	5847.2	0.42	-0.35	0.1089	0.0375	NM	2.11E+01	1.01E+01	120	7	7
25.41544	25.46	5867.9	5867.8	0.43	-0.5	0.1068	0.0349	NM	2.12E+01	1.02E+01	120	7	7
25.48446	23.54	5378.8	5378.7	0.44	-0.6	0.1051	0.0354	NM	2.12E+01	1.02E+01	120	7	7
25.55548	22.24	4883.9	4883.8	0.46	-0.6	0.1038	0.0348	NM	2.13E+01	1.02E+01	120	7	7
25.62369	23.5	4577	4576.9	0.51	-0.3	0.1036	0.034	NM	2.14E+01	1.03E+01	120	7	7

25.6923	25.83	4350.8	4350.7	0.59	-0.25	0.1045	0.0347	NM	2.14E+01	1.03E+01	120	7	7
25.75971	26.04	4126.1	4126	0.63	-0.25	0.1045	0.0351	NM	2.15E+01	1.03E+01	120	6	7
25.83153	33.88	3904.3	3904.3	0.87	-0.15	0.1045	0.0372	NM	2.15E+01	1.03E+01	120	6	7
25.89573	32.91	3835.3	3835.3	0.86	0	0.102	0.0379	NM	2.16E+01	1.04E+01	120	6	7
25.96875	31.84	3866.2	3866.2	0.82	0.05	0.0993	0.0342	NM	2.16E+01	1.04E+01	120	6	7
26.03456	29.3	4049.7	4049.7	0.72	0	0.0989	0.0365	NM	2.17E+01	1.04E+01	120	6	7
26.10117	31.03	4619.5	4619.5	0.67	-0.05	0.0947	0.0369	NM	2.18E+01	1.04E+01	120	6	7
26.16456	44.99	5701.9	5701.9	0.79	0.05	0.0941	0.0365	NM	2.18E+01	1.05E+01	120	6	7
26.36077	73.23	4757.6	4757.6	1.54	0.25	0.0882	0.0294	NM	2.20E+01	1.05E+01	120	6	7
26.39448	72.82	5079.2	5079.3	1.43	0.4	0.0863	0.028	NM	2.20E+01	1.06E+01	120	6	7
26.43901	71.92	4861.9	4862.1	1.48	1.4	0.0845	0.0288	NM	2.20E+01	1.06E+01	120	6	7
26.49318	70.07	4857.5	4857.9	1.44	2.2	0.0832	0.028	NM	2.21E+01	1.06E+01	120	6	7
26.5626	63.87	4882.4	4882.9	1.3	2.35	0.082	0.0276	NM	2.21E+01	1.06E+01	120	6	7
26.6288	52.93	4923.5	4923.9	1.07	1.95	0.0813	0.0272	NM	2.22E+01	1.07E+01	120	6	7
26.69862	41.6	4747.3	4747.7	0.88	2	0.0795	0.0263	NM	2.23E+01	1.07E+01	120	6	7
26.76522	30.79	4590.2	4590.9	0.67	3.6	0.0788	0.027	NM	2.23E+01	1.07E+01	120	6	7
26.83544	28.47	4468.3	4469	0.64	3.65	0.0794	0.0284	NM	2.24E+01	1.07E+01	120	6	7
26.90205	29.73	4368.4	4369.2	0.68	4	0.079	0.0291	NM	2.24E+01	1.08E+01	120	6	7
27.13276	34.11	4396.3	4397	0.78	3.85	0.0797	0.0296	NM	2.26E+01	1.09E+01	120	6	7
27.5018	41.62	4574	4574.5	0.91	2.5	0.0789	0.0304	NM	2.29E+01	1.10E+01	120	6	7
27.57199	37.07	4706.2	4706.4	0.79	1.05	0.0727	0.0284	NM	2.30E+01	1.10E+01	120	6	7
27.64058	44.19	4706.2	4706.2	0.94	0.2	0.0707	0.0267	NM	2.30E+01	1.11E+01	120	6	7
27.70837	32.37	4453.6	4453.5	0.73	-0.5	0.0713	0.0279	NM	2.31E+01	1.11E+01	120	6	7
27.77896	31.59	4270	4270.1	0.74	0.3	0.0727	0.0282	NM	2.32E+01	1.11E+01	120	6	7
27.84635	28.09	3805.9	3806.2	0.74	1.15	0.0728	0.029	NM	2.32E+01	1.11E+01	120	6	7
27.91855	25.12	3722.2	3722.6	0.67	1.7	0.0727	0.0289	NM	2.33E+01	1.12E+01	120	6	7
27.98855	24.13	3541.6	3542.1	0.68	2.45	0.0709	0.0285	NM	2.33E+01	1.12E+01	120	6	7
28.05974	18.98	3406.5	3406.9	0.56	2.1	0.0714	0.0296	NM	2.34E+01	1.12E+01	120	6	7
28.12793	17.09	3256.7	3257.1	0.52	2.05	0.0732	0.0301	NM	2.34E+01	1.13E+01	120	6	7
28.19652	16.18	3148	3148.4	0.51	2	0.0721	0.0293	NM	2.35E+01	1.13E+01	120	6	7
28.2635	16.53	3065.8	3066.1	0.54	2	0.0712	0.0287	NM	2.36E+01	1.13E+01	120	6	7
28.3349	17.19	2986.5	2986.8	0.58	2	0.071	0.028	NM	2.36E+01	1.13E+01	120	6	7
28.4067	16.32	2998.2	2998.6	0.54	1.85	0.0703	0.0284	NM	2.37E+01	1.14E+01	120	6	7
28.47649	16.26	3079	3079.4	0.53	1.95	0.0702	0.0286	NM	2.37E+01	1.14E+01	120	6	7
28.54428	16.11	3178.8	3179.2	0.51	2.05	0.0703	0.0282	NM	2.38E+01	1.14E+01	120	6	7
28.61327	16.02	3289	3289.4	0.49	2.05	0.0711	0.0282	NM	2.38E+01	1.15E+01	120	6	7
28.68105	15.99	3397.7	3398.1	0.47	2.25	0.0705	0.0275	NM	2.39E+01	1.15E+01	120	6	7
28.74924	16.39	3571	3571.4	0.46	2.05	0.0691	0.0267	NM	2.40E+01	1.15E+01	120	7	7
28.81984	16.45	3681.1	3681.5	0.45	2.15	0.0686	0.0269	NM	2.40E+01	1.15E+01	120	7	7
28.89043	16.64	3851.5	3851.9	0.43	2.35	0.068	0.0269	NM	2.41E+01	1.16E+01	120	7	7
28.95742	17.75	4042.4	4042.8	0.44	2.35	0.0674	0.0266	NM	2.41E+01	1.16E+01	120	7	7
29.02842	17.67	4218.6	4218.9	0.42	1.7	0.0662	0.0253	NM	2.42E+01	1.16E+01	120	7	7
29.0958	18	4364	4364.3	0.41	1.55	0.065	0.0268	NM	2.43E+01	1.16E+01	120	7	7
29.16399	18.04	4535.8	4536.2	0.4	2	0.0652	0.0262	NM	2.43E+01	1.17E+01	120	7	7
29.23378	17.82	4609.3	4609.7	0.39	2.15	0.064	0.0238	NM	2.44E+01	1.17E+01	120	7	7
29.30317	17.55	4669.5	4669.9	0.38	2.2	0.0624	0.0245	NM	2.44E+01	1.17E+01	120	7	7
29.36936	20.05	4744.4	4744.8	0.42	1.95	0.0622	0.0248	NM	2.45E+01	1.18E+01	120	7	7
29.43674	20.78	4779.6	4780	0.43	1.9	0.0618	0.0251	NM	2.45E+01	1.18E+01	120	7	7
29.50333	22.38	4834	4834.3	0.46	1.9	0.0614	0.0251	NM	2.46E+01	1.18E+01	120	7	7
29.57473	22.83	4922.1	4922.4	0.46	1.9	0.0609	0.025	NM	2.47E+01	1.18E+01	120	7	7
29.64492	33.68	5024.9	5025.3	0.67	2.1	0.0609	0.0259	NM	2.47E+01	1.19E+01	120	6	7
29.71471	29.63	5168.8	5169.3	0.57	2.75	0.0611	0.0272	NM	2.48E+01	1.19E+01	120	7	7

29.7813	29.43	5256.9	5257.5	0.56	2.9	0.0602	0.0267	NM	2.48E+01	1.19E+01	120	7	7
29.8535	34.27	5264.3	5264.7	0.65	2.45	0.0582	0.0259	NM	2.49E+01	1.19E+01	120	7	7
29.92048	28.92	5378.8	5379.3	0.54	2.4	0.0571	0.0264	NM	2.49E+01	1.20E+01	120	7	7
29.99027	23.09	4994	4994.4	0.46	1.85	0.0571	0.0266	NM	2.50E+01	1.20E+01	120	7	7
30.05926	24.78	5139.4	5139.8	0.48	1.9	0.0561	0.0254	NM	2.51E+01	1.20E+01	120	7	7
30.12865	11.83	5091	5091.3	0.23	1.65	0.056	0.0219	NM	2.51E+01	1.21E+01	120	7	7
30.19805	24.18	5002.9	5003.9	0.48	5.35	0.0574	0.0194	NM	2.52E+01	1.21E+01	120	7	7
30.26864	26.55	4911.8	4912.5	0.54	3.9	0.0567	0.02	NM	2.52E+01	1.21E+01	120	7	7
30.33603	27.05	4848.6	4849.3	0.56	3.65	0.055	0.0193	NM	2.53E+01	1.21E+01	120	7	7
30.40502	34.18	4676.8	4677.5	0.73	3.4	0.0544	0.0185	NM	2.53E+01	1.22E+01	120	6	7
30.53131	37.12	4290.7	4292	0.86	7.07	0.0525	0.0162	NM	2.54E+01	1.22E+01	120	6	7
30.59665	35.85	4208.5	4209.3	0.85	4.53	0.0513	0.0136	NM	2.55E+01	1.22E+01	120	6	7
30.6668	27.45	4178.1	4179.5	0.66	1.83	0.0502	0.0132	NM	2.56E+01	1.23E+01	120	6	7
30.73294	24.39	4036.7	4036.9	0.6	0.73	0.0523	0.0154	NM	2.56E+01	1.23E+01	120	6	7
30.8079	20.74	4089.6	4089.7	0.51	0.53	0.0538	0.0165	NM	2.57E+01	1.23E+01	120	7	7
30.87805	25.77	4212.9	4213	0.61	0.93	0.0537	0.0173	NM	2.57E+01	1.24E+01	120	6	7
30.9466	22.96	4023.5	4023.6	0.57	0.43	0.0525	0.0167	NM	2.58E+01	1.24E+01	120	6	7
31.01314	20.75	3995.6	3995.7	0.52	0.43	0.0513	0.0153	NM	2.58E+01	1.24E+01	120	6	7
31.08329	18.94	3945.7	3945.8	0.48	0.58	0.0503	0.014	NM	2.59E+01	1.24E+01	120	7	7
31.15023	18.54	3870.9	3870.9	0.48	0.43	0.0508	0.0158	NM	2.60E+01	1.25E+01	120	6	7
31.22119	18.94	3882.8	3882.8	0.49	0.88	0.0502	0.0143	NM	2.60E+01	1.25E+01	120	6	7
31.29254	19.13	3735.8	3735.9	0.51	0.68	0.0505	0.0139	NM	2.61E+01	1.25E+01	120	6	7
31.36269	19.26	3706.5	3706.6	0.52	0.58	0.0504	0.0133	NM	2.61E+01	1.26E+01	120	6	7
31.43003	18.95	3644.8	3645	0.52	1.03	0.0524	0.0153	NM	2.62E+01	1.26E+01	120	6	7
31.50018	20.28	3593.4	3593.5	0.56	0.63	0.0546	0.0173	NM	2.63E+01	1.26E+01	120	6	7
31.56873	24.48	3449.6	3449.7	0.71	0.43	0.0564	0.0191	NM	2.63E+01	1.26E+01	120	6	7
31.63888	23.64	3471.6	3471.7	0.68	0.88	0.0567	0.02	NM	2.64E+01	1.27E+01	120	6	7
31.71063	27.56	3593.4	3593.6	0.77	0.93	0.0569	0.0215	NM	2.64E+01	1.27E+01	120	6	7
31.77918	25.57	3856.2	3856.5	0.68	1.43	0.0571	0.0234	NM	2.65E+01	1.27E+01	120	6	7
31.84612	27.19	4261.3	4261.6	0.64	1.53	0.0588	0.0238	NM	2.65E+01	1.27E+01	120	6	7
31.91507	27.22	4453.6	4454	0.61	1.88	0.0586	0.0233	NM	2.66E+01	1.28E+01	120	6	7
31.98202	27.13	4865	4865.2	0.58	1.18	0.0591	0.0245	NM	2.67E+01	1.28E+01	120	6	7
32.05096	31.39	4393.4	4393.7	0.71	1.28	0.0603	0.0249	NM	2.67E+01	1.28E+01	120	6	7
32.12111	27.28	4576.9	4577.4	0.6	2.33	0.0603	0.0268	NM	2.68E+01	1.29E+01	120	6	7
32.19207	26.02	4635.6	4635.9	0.56	1.63	0.0603	0.0243	NM	2.68E+01	1.29E+01	120	6	7
32.25861	34.9	4659.1	4659.4	0.75	1.78	0.0602	0.0243	NM	2.69E+01	1.29E+01	120	6	7
32.32956	27.54	4675.3	4675.5	0.59	1.53	0.0552	0.0207	NM	2.69E+01	1.29E+01	120	6	7
32.3965	24.24	4660.6	4660.9	0.52	1.53	0.0534	0.0192	NM	2.70E+01	1.30E+01	120	7	7
32.46545	22.02	4779.5	4779.5	0.46	-0.07	0.0541	0.0191	NM	2.71E+01	1.30E+01	120	7	7
32.53801	21.42	4465.3	4465.2	0.48	-0.97	0.0522	0.0182	NM	2.71E+01	1.30E+01	120	7	7
32.60776	20.37	4240.8	4240.6	0.48	-0.77	0.052	0.0193	NM	2.72E+01	1.30E+01	120	7	7
32.6735	19.48	4300.9	4300.9	0.45	-0.37	0.0522	0.0205	NM	2.72E+01	1.31E+01	120	7	7
32.74165	18.11	4255.4	4255.4	0.43	-0.22	0.0521	0.0193	NM	2.73E+01	1.31E+01	120	7	7
32.81019	16.53	4229	4229	0.39	-0.12	0.0507	0.0182	NM	2.73E+01	1.31E+01	120	7	7
32.87834	16.37	4185	4185	0.39	-0.07	0.0504	0.0177	NM	2.74E+01	1.32E+01	120	7	7
32.94849	18.89	4099.8	4099.9	0.46	0.03	0.049	0.018	NM	2.75E+01	1.32E+01	120	7	7
33.01883	16.43	4092.5	4092.5	0.4	0.03	0.049	0.0194	NM	2.75E+01	1.32E+01	120	7	7
33.08878	16.09	4145.4	4145.4	0.39	0.08	0.0488	0.0194	NM	2.76E+01	1.32E+01	120	7	7
33.15813	15.95	4189.4	4189.4	0.38	0.13	0.0481	0.0195	NM	2.76E+01	1.33E+01	120	7	7
33.22588	16.45	4207	4207	0.39	0.18	0.048	0.0168	NM	2.77E+01	1.33E+01	120	7	7
33.29523	19.42	4202.6	4202.6	0.46	0.13	0.0478	0.0148	NM	2.78E+01	1.33E+01	120	7	7
33.36538	25.14	4245.2	4245.2	0.59	0.18	0.0389	0.0131	NM	2.78E+01	1.34E+01	120	6	7

33.43353	23.93	4154.2	4154.2	0.58	0.08	0.0381	0.0116	NM	2.79E+01	1.34E+01	120	6	7
33.50407	22.68	4124.8	4124.9	0.55	0.28	0.0331	0.0099	NM	2.79E+01	1.34E+01	120	6	7
33.57463	21.43	4193.8	4193.9	0.51	0.38	0.0329	0.0086	NM	2.80E+01	1.34E+01	120	6	7
33.64237	21.96	3956	3956	0.56	0.08	0.0354	0.0099	NM	2.80E+01	1.35E+01	120	6	7
33.71172	22.27	3784.3	3784.3	0.59	0.43	0.038	0.0114	NM	2.81E+01	1.35E+01	120	6	7
33.92905	18.82	3823.8	3824.4	0.49	4.5	0.0409	0.0128	NM	2.83E+01	1.36E+01	120	6	7
33.99582	18.49	3861.7	3862.6	0.48	4.55	0.0423	0.013	NM	2.83E+01	1.36E+01	120	6	7
34.0678	18.45	3563.6	3564.4	0.52	4.1	0.0432	0.0129	NM	2.84E+01	1.36E+01	120	6	7
34.14159	18.25	3719.3	3720.1	0.49	4.2	0.0421	0.0127	NM	2.85E+01	1.37E+01	120	6	7
34.21016	18.81	3594.5	3595.2	0.52	4.1	0.0439	0.0142	NM	2.85E+01	1.37E+01	120	6	7
34.27753	18.27	3454.9	3455.7	0.53	4	0.0443	0.015	NM	2.86E+01	1.37E+01	120	6	7
34.3449	18.54	3435.8	3436.6	0.54	3.95	0.0428	0.0137	NM	2.86E+01	1.37E+01	120	6	7
34.41388	18.99	3585.6	3586.4	0.53	4.1	0.043	0.0129	NM	2.87E+01	1.38E+01	120	6	7
34.48365	18.69	3571	3571.7	0.52	4.05	0.0426	0.0128	NM	2.87E+01	1.38E+01	120	6	7
34.55664	19.4	3604.7	3605.5	0.54	4.1	0.0414	0.0128	NM	2.88E+01	1.38E+01	120	6	7
34.62481	19.47	3879.4	3880.2	0.5	4.45	0.0413	0.0138	NM	2.89E+01	1.39E+01	120	6	7
34.69298	20.12	3813.3	3814.1	0.53	4.3	0	0	NM	2.89E+01	1.39E+01	120	6	7
34.76155	20.79	3999.8	4000.7	0.52	4.6	0	0	NM	2.90E+01	1.39E+01	120	6	7
34.83133	21.24	4327.3	4328.3	0.49	5	0	0	NM	2.90E+01	1.39E+01	120	6	7
34.8987	22.53	4302.3	4303.3	0.52	5.1	0	0	NM	2.91E+01	1.40E+01	120	6	7
34.97008	24.11	4484.4	4485.5	0.54	5.4	0	0	NM	2.91E+01	1.40E+01	120	6	7
35.03986	24.11	4662.1	4663.2	0.52	5.45	0	0	NM	2.92E+01	1.40E+01	120	6	7
35.10783	26.9	4867.7	4868.8	0.55	5.65	0	0	NM	2.93E+01	1.40E+01	120	6	7
35.177	27.89	5019	5020.1	0.56	5.8	0	0	NM	2.93E+01	1.41E+01	120	6	7
35.24557	28.09	5049.8	5051	0.56	6.15	0	0	NM	2.94E+01	1.41E+01	120	7	7
35.31214	27.02	5004.3	5005.4	0.54	5.7	0	0	NM	2.94E+01	1.41E+01	120	7	7
35.38392	21.29	4999.9	5001	0.43	5.5	0	0	NM	2.95E+01	1.42E+01	120	7	7
35.4541	15.65	4986.7	4987.7	0.31	5.3	0	0	NM	2.96E+01	1.42E+01	120	7	7
35.52267	10.14	5038.1	5039.2	0.2	5.65	0	0	NM	2.96E+01	1.42E+01	120	7	7
35.59044	8.13	5142.4	5143.4	0.16	5.4	0	0	NM	2.97E+01	1.42E+01	120	7	7
35.66022	9.75	5271.6	5272.7	0.18	5.45	0	0	NM	2.97E+01	1.43E+01	120	7	7
35.90283	13.51	5813.5	5814.1	0.23	3.05	0	0	NM	2.99E+01	1.44E+01	120	7	7
35.9686	16.65	5816.5	5816.8	0.29	2	0	0	NM	3.00E+01	1.44E+01	120	7	7
36.03717	16.24	5712.2	5712.4	0.28	1.35	0	0	NM	3.00E+01	1.44E+01	120	7	7
36.10454	21.37	5540.4	5540.8	0.39	1.35	0	0	NM	3.01E+01	1.44E+01	120	7	7
36.17432	17.02	5428.7	5429	0.31	1.25	0	0	NM	3.02E+01	1.45E+01	120	7	7
36.24449	20.59	5129.2	5129.4	0.4	1.4	0	0	NM	3.02E+01	1.45E+01	120	7	7
36.31467	19.2	4838.4	4838.7	0.4	1.8	0	0	NM	3.03E+01	1.45E+01	120	7	7
36.38244	20.17	4831	4831.4	0.42	1.75	0	0	NM	3.03E+01	1.46E+01	120	7	7
36.45422	23.42	4754.7	4755.1	0.49	2.2	0	0	NM	3.04E+01	1.46E+01	120	7	7
36.52199	23.37	4621	4621.5	0.51	2.45	0	0	NM	3.04E+01	1.46E+01	120	6	7
36.59097	21.38	4560.8	4561.2	0.47	2.3	0	0	NM	3.05E+01	1.46E+01	120	7	7
36.66034	0	4428.6	4429	0	2.1	0	0	NM	3.06E+01	1.47E+01	120	-99	7
36.72932	0	4399.3	4399.7	0	2.35	0	0	NM	3.06E+01	1.47E+01	120	-99	7
36.79789	0	4231.8	4232.3	0	2.65	0	0	NM	3.07E+01	1.47E+01	120	-99	7
36.86766	0	4080.6	4081	0	2.45	0	0	NM	3.07E+01	1.48E+01	120	-99	7
36.93504	0	4218.6	4219.2	0	3.1	0	0	NM	3.08E+01	1.48E+01	120	-99	7
37.00361	0	4281.8	4282.4	0	3.55	0	0	NM	3.08E+01	1.48E+01	120	-99	7

Electric Cone Penetrometer Data

Cone_TAP v 2.90

Test Id: HD-16 Date: 4-Nov-03

Site: SUNNYSIDE Cone Id: 108.034XXX

Location: QUEENS NY

Project: ROUX Soil Density(pcf): 120

Client: ROUX

Depth (ft)	Sleeve Stress (psi)	Tip Stress UNC (psi)	Tip Stress COR (psi)	Ratio COR (%)	Pore Pressure (psi)	LFFD (V)	HFFD (V)	Excitation (Vdc)	Overburden (psi)	Eff. Overburden (psi)	Wet Density (pcf)	Class. FR (Rob. 1990)	Class. PP (Rob. 1990)
0	0	0	0	0	0	0	0	NM	0.00E+00	0.00E+00	120	-99	-99
0.16419	0	24.2	24.2	0	-0.01	0.1393	0.0348	NM	1.37E-01	6.57E-02	120	-99	7
0.21035	0	151.9	151.9	0	0.05	0.1431	0.0418	NM	1.75E-01	8.41E-02	120	-99	-99
0.26133	0	119.6	119.6	0	0.05	0.1407	0.0395	NM	2.18E-01	1.05E-01	120	-99	-99
0.31111	0.23	143.1	143.1	0.16	0.09	0.1405	0.038	NM	2.59E-01	1.24E-01	120	-99	-99
0.3625	0.23	225.3	225.4	0.1	0.49	0.1413	0.0399	NM	3.02E-01	1.45E-01	120	-99	-99
0.41147	0.26	424.8	424.9	0.06	0.49	0.1407	0.0397	NM	3.43E-01	1.65E-01	120	-99	-99
0.46245	0.26	231.1	231.2	0.11	0.39	0.1413	0.0394	NM	3.85E-01	1.85E-01	120	-99	-99
0.51063	0.23	279.6	279.7	0.08	0.64	0.1413	0.0388	NM	4.26E-01	2.04E-01	120	-99	-99
0.56482	0.23	332.4	332.5	0.07	0.74	0.1409	0.0387	NM	4.71E-01	2.26E-01	120	-99	-99
0.61259	0.23	228.2	228.3	0.1	0.49	0.141	0.0388	NM	5.11E-01	2.45E-01	120	7	7
0.65956	0.25	210.6	210.7	0.12	0.59	0.1415	0.0389	NM	5.50E-01	2.64E-01	120	7	7
0.70853	0.23	245.8	245.9	0.09	0.69	0.1422	0.0384	NM	5.90E-01	2.83E-01	120	-99	7
0.75911	0.23	210.6	210.7	0.11	0.79	0.1417	0.0382	NM	6.33E-01	3.04E-01	120	7	7
0.80769	0.25	251.7	252	0.1	1.64	0.1413	0.038	NM	6.73E-01	3.23E-01	120	7	7
0.85586	0.23	267.8	268.1	0.08	1.64	0.1414	0.0381	NM	7.13E-01	3.42E-01	120	-99	7
0.90524	0.23	264.9	265.2	0.09	1.44	0.1433	0.0394	NM	7.54E-01	3.62E-01	120	-99	7
0.95381	0.23	232.6	232.8	0.1	0.94	0.1436	0.0389	NM	7.95E-01	3.82E-01	120	-99	7
1.00118	0.23	241.4	241.6	0.09	0.94	0.1432	0.0383	NM	8.34E-01	4.01E-01	120	-99	7
1.05136	0.15	226.7	226.9	0.07	1.09	0.1428	0.038	NM	8.76E-01	4.21E-01	120	-99	7
1.09752	-0.06	219.4	219.5	-0.03	0.74	0.1451	0.0372	NM	9.15E-01	4.39E-01	120	-99	7
1.1485	-0.05	200.3	200.4	-0.03	0.64	0.1471	0.0374	NM	9.57E-01	4.59E-01	120	-99	7
1.19708	-0.05	176.8	177	-0.03	0.64	0.149	0.0375	NM	9.98E-01	4.79E-01	120	-99	7
1.24645	-0.08	147.5	147.6	-0.05	0.64	0.1511	0.0369	NM	1.04E+00	4.99E-01	120	-99	7
1.29342	-0.08	140.1	140.3	-0.05	0.89	0.1671	0.0382	NM	1.08E+00	5.17E-01	120	-99	7
1.34039	-0.08	150.4	150.6	-0.05	0.74	0.1783	0.0434	NM	1.12E+00	5.36E-01	120	-99	7
1.38896	-0.08	172.4	172.6	-0.04	0.74	0.1828	0.053	NM	1.16E+00	5.56E-01	120	-99	7
1.42306	-0.08	2.2	2.3	-3.37	0.24	0.1972	0.0581	NM	1.19E+00	5.69E-01	120	-99	-99
1.46036	-0.08	-18.3	-18.3	0.41	0.19	0.2088	0.0624	NM	1.22E+00	5.84E-01	120	-99	-99
1.50288	-0.09	-15.4	-15.4	0.62	0.19	0.1936	0.0584	NM	1.25E+00	6.01E-01	120	-99	-99
1.53497	-0.09	-16.9	-16.8	0.54	0.19	0.1829	0.0556	NM	1.28E+00	6.14E-01	120	-99	-99
1.56866	-0.08	-18.3	-18.3	0.41	0.19	0.1737	0.0531	NM	1.31E+00	6.28E-01	120	-99	-99
1.74715	-0.07	15.4	15.5	-0.44	0.29	0.1366	0.0438	NM	1.46E+00	6.99E-01	120	-99	5
1.8013	-0.08	-9.5	-9.5	0.8	0.29	0.1335	0.0426	NM	1.50E+00	7.21E-01	120	-99	-99
1.83139	-0.06	-8.1	-8	0.75	0.29	0.1291	0.0415	NM	1.53E+00	7.33E-01	120	-99	-99
1.86147	0.03	-5.1	-5.1	-0.52	0.29	0.1235	0.0401	NM	1.55E+00	7.45E-01	120	-99	-99
1.90479	0.14	-0.7	-0.7	-20.16	0.29	0.1145	0.0375	NM	1.59E+00	7.62E-01	120	-99	-99
1.9449	0.14	3.7	3.7	3.65	0.34	0.1057	0.0347	NM	1.62E+00	7.78E-01	120	2	-99
1.98341	0.15	2.2	2.3	6.73	0.34	0.1079	0.0349	NM	1.65E+00	7.93E-01	120	-99	-99

2.02312	0.18	-0.7	-0.7	-26.71	0.29	0.1118	0.0356	NM	1.69E+00	8.09E-01	120	-99	-99
2.05561	0.22	-8.1	-8	-2.73	0.29	0.1107	0.0344	NM	1.71E+00	8.22E-01	120	-99	-99
2.10855	0.22	-6.6	-6.5	-3.44	0.29	0.1114	0.034	NM	1.76E+00	8.43E-01	120	-99	-99
2.13984	0.23	9.5	9.6	2.36	0.29	0.115	0.0359	NM	1.78E+00	8.56E-01	120	3	4
2.17313	0.24	34.5	34.6	0.7	0.39	0.1163	0.0369	NM	1.81E+00	8.69E-01	120	5	6
2.20582	0.18	112.3	112.4	0.16	0.54	0.1123	0.0356	NM	1.84E+00	8.82E-01	120	6	6
2.24092	0.17	150.4	150.6	0.11	0.69	0.1105	0.035	NM	1.87E+00	8.96E-01	120	7	6
2.27501	0.19	146	146.2	0.13	0.69	0.1138	0.0361	NM	1.90E+00	9.10E-01	120	6	6
2.31031	0.19	147.5	147.6	0.13	0.69	0.1109	0.0354	NM	1.93E+00	9.24E-01	120	6	6
2.34601	0.19	171	171.1	0.11	0.89	0.0931	0.0309	NM	1.96E+00	9.39E-01	120	7	7
2.3781	0.19	192.1	192.3	0.1	0.77	0.0821	0.0282	NM	1.98E+00	9.51E-01	120	-99	7
2.42305	0.19	206.8	207	0.09	0.77	0.0812	0.0287	NM	2.02E+00	9.69E-01	120	-99	7
2.47001	0.19	143.7	143.9	0.13	0.72	0.0792	0.028	NM	2.06E+00	9.88E-01	120	6	6
2.51857	0.2	177.5	177.7	0.11	0.87	0.0767	0.0266	NM	2.10E+00	1.01E+00	120	7	7
2.56633	0.22	193.6	193.7	0.11	0.62	0.0751	0.026	NM	2.14E+00	1.03E+00	120	7	7
2.61489	0.21	198	198.1	0.11	0.67	0.0721	0.0259	NM	2.18E+00	1.05E+00	120	7	7
2.66466	0.19	215.6	215.8	0.09	0.77	0.068	0.026	NM	2.22E+00	1.07E+00	120	-99	7
2.72125	0.19	211.2	211.4	0.09	0.87	0.0625	0.0266	NM	2.27E+00	1.09E+00	120	-99	7
2.77462	0.2	134.9	135.1	0.15	0.67	0.0598	0.0265	NM	2.31E+00	1.11E+00	120	6	6
2.83081	0.23	143.7	143.9	0.16	0.67	0.0598	0.028	NM	2.36E+00	1.13E+00	120	6	6
2.88981	0.23	149.6	149.8	0.15	0.77	0.0627	0.0321	NM	2.41E+00	1.16E+00	120	6	6
2.95402	0.19	180.4	180.6	0.11	1.02	0.0674	0.0385	NM	2.46E+00	1.18E+00	120	6	6
3.01743	0.22	214.2	214.4	0.1	1.27	0.0706	0.0431	NM	2.52E+00	1.21E+00	120	7	7
3.08566	0.22	264	264.3	0.08	1.22	0.07	0.0437	NM	2.57E+00	1.23E+00	120	-99	7
3.15148	0.22	256.7	256.8	0.09	0.77	0.0691	0.0435	NM	2.63E+00	1.26E+00	120	-99	7
3.2181	0.24	315.4	315.5	0.08	0.52	0.0693	0.0434	NM	2.68E+00	1.29E+00	120	-99	7
3.28232	0.22	327.1	327.1	0.07	0.22	0.0717	0.0438	NM	2.74E+00	1.31E+00	120	-99	7
3.34854	0.22	291.9	291.9	0.07	0.27	0.0741	0.0443	NM	2.79E+00	1.34E+00	120	-99	7
3.41476	0.22	357.9	358	0.06	0.32	0.0766	0.0448	NM	2.85E+00	1.37E+00	120	-99	7
3.48218	0.25	472.3	472.4	0.05	0.37	0.0764	0.0451	NM	2.90E+00	1.39E+00	120	-99	7
3.55162	0.25	617.5	617.6	0.04	0.22	0.0758	0.0439	NM	2.96E+00	1.42E+00	120	-99	7
3.62225	0.28	620.5	620.5	0.04	0.32	0.0727	0.0434	NM	3.02E+00	1.45E+00	120	-99	7
3.68807	1.4	642.5	642.6	0.22	0.82	0.0733	0.0434	NM	3.07E+00	1.48E+00	120	7	7
3.7575	1.52	616.1	616.2	0.25	0.77	0.0722	0.0432	NM	3.13E+00	1.50E+00	120	7	7
3.82493	1.57	554.4	554.6	0.28	0.77	0.0725	0.0437	NM	3.19E+00	1.53E+00	120	7	7
3.89677	1.63	532.4	532.8	0.31	1.62	0.0733	0.0435	NM	3.25E+00	1.56E+00	120	7	7
3.9678	1.42	611.7	612.5	0.23	4.58	0.0723	0.0432	NM	3.31E+00	1.59E+00	120	7	7
4.04085	2.09	605.8	607	0.34	6.26	0.0705	0.0422	NM	3.37E+00	1.62E+00	120	7	7
4.10948	1.54	702.8	703.6	0.22	5.41	0.0694	0.0422	NM	3.43E+00	1.64E+00	120	7	7
4.18131	1.75	819.9	820.2	0.21	1.27	0.0693	0.0426	NM	3.48E+00	1.67E+00	120	7	7
4.24954	1.64	861	861.1	0.19	0.42	0.0699	0.0419	NM	3.54E+00	1.70E+00	120	7	7
4.32058	2.2	847.8	847.7	0.26	-0.53	0.069	0.0418	NM	3.60E+00	1.73E+00	120	7	7
4.39162	2.75	737.8	737.6	0.37	-1.22	0.0697	0.0422	NM	3.66E+00	1.76E+00	120	7	7
4.46305	3.3	860	859.8	0.5	-1.08	0.0697	0.042	NM	3.72E+00	1.79E+00	120	7	7
4.53249	3.98	577.9	577.7	0.69	-0.93	0.0694	0.042	NM	3.78E+00	1.81E+00	120	6	7
4.59951	3.45	489.9	489.9	0.7	0.12	0.0695	0.0424	NM	3.83E+00	1.84E+00	120	6	7
4.66934	3.5	412.2	412.1	0.85	-0.13	0.0692	0.0421	NM	3.89E+00	1.87E+00	120	6	7
4.74078	3.68	349.1	349.2	1.05	0.42	0.0701	0.0424	NM	3.95E+00	1.90E+00	120	6	7
4.81061	3.81	325.8	325.8	1.17	0.82	0.0706	0.0424	NM	4.01E+00	1.92E+00	120	6	6
4.88245	3.98	313.9	314.1	1.08	0.92	0.0697	0.0419	NM	4.07E+00	1.95E+00	120	6	6
4.95269	3.17	297.8	297.9	1.06	0.87	0.0695	0.0423	NM	4.13E+00	1.98E+00	120	6	6
5.02493	3.21	267	267.2	1.2	1.07	0.0698	0.0424	NM	4.19E+00	2.01E+00	120	6	6

5.09476	3.24	250.8	251.1	1.29	1.22	0.0693	0.0424	NM	4.25E+00	2.04E+00	120	6	6
5.1654	3.33	231.7	232	1.43	1.32	0.0695	0.0421	NM	4.30E+00	2.07E+00	120	6	6
5.23603	3.95	259.6	260	1.52	1.87	0.0794	0.0441	NM	4.36E+00	2.09E+00	120	6	6
5.30587	4.47	269.9	270.2	1.65	1.77	0.0694	0.0426	NM	4.42E+00	2.12E+00	120	6	6
5.3769	4.98	274.3	274.4	1.82	0.52	0.0675	0.0424	NM	4.48E+00	2.15E+00	120	5	6
5.44834	5.5	277.2	277.3	1.98	0.42	0.0673	0.0421	NM	4.54E+00	2.18E+00	120	5	6
5.51817	5.53	291.9	291.9	1.89	0.12	0.0684	0.0417	NM	4.60E+00	2.21E+00	120	5	6
5.58881	4.51	321.2	321	1.4	-0.98	0.0682	0.0425	NM	4.66E+00	2.24E+00	120	6	6
5.84366	2.26	607.2	606.8	0.37	-2.42	0.0663	0.042	NM	4.87E+00	2.34E+00	120	7	7
5.91429	2.13	621.9	621.4	0.34	-2.42	0.0668	0.042	NM	4.93E+00	2.37E+00	120	7	7
5.98614	2.07	619	618.5	0.33	-2.82	0.0673	0.0421	NM	4.99E+00	2.40E+00	120	7	7
6.06078	1.57	605.8	605.3	0.26	-2.57	0.0668	0.0419	NM	5.05E+00	2.42E+00	120	7	7
6.12821	1.47	599.9	599.4	0.25	-2.52	0.0675	0.0428	NM	5.11E+00	2.45E+00	120	7	7
6.19804	1.38	586.7	586.3	0.23	-2.37	0.0712	0.0453	NM	5.17E+00	2.48E+00	120	7	7
6.26747	1.31	591.1	590.7	0.22	-2.27	0.0807	0.0531	NM	5.22E+00	2.51E+00	120	7	7
6.33811	1.25	592.6	592.2	0.21	-2.22	0.0923	0.064	NM	5.28E+00	2.54E+00	120	7	7
6.41075	1.25	604.3	603.9	0.21	-2.17	0.1069	0.0755	NM	5.34E+00	2.56E+00	120	7	7
6.4846	1.22	613.1	612.7	0.2	-2.12	0.1221	0.0834	NM	5.40E+00	2.59E+00	120	7	7
6.55323	1.32	586.7	586.3	0.23	-2.12	0.1241	0.0839	NM	5.46E+00	2.62E+00	120	7	7
6.62466	1.61	506	505.6	0.32	-2.12	0.1188	0.0826	NM	5.52E+00	2.65E+00	120	6	7
6.6957	1.88	418	417.6	0.45	-2.17	0.1136	0.0813	NM	5.58E+00	2.68E+00	120	6	6
6.75473	1.83	344.7	344.3	0.53	-2.17	0.1206	0.0918	NM	5.64E+00	2.71E+00	120	6	6
6.83737	1.91	302.2	301.7	0.63	-2.17	0.1366	0.1082	NM	5.70E+00	2.74E+00	120	6	6
6.91122	1.8	267	266.6	0.67	-2.07	0.1326	0.1053	NM	5.76E+00	2.76E+00	120	6	6
6.97945	1.84	214.2	213.8	0.86	-2.02	0.1267	0.1038	NM	5.82E+00	2.79E+00	120	6	6
7.05169	1.91	162.8	162.5	1.17	-1.87	0.1373	0.1183	NM	5.88E+00	2.82E+00	120	5	6
7.11831	1.78	132	131.6	1.36	-1.92	0.1569	0.1228	NM	5.93E+00	2.85E+00	120	5	6
7.18935	1.52	118.8	118.5	1.29	-1.72	0.1576	0.1228	NM	5.99E+00	2.88E+00	120	5	6
7.26199	1.24	108.5	108.2	1.15	-1.52	0.1575	0.124	NM	6.05E+00	2.91E+00	120	5	6
7.33503	1.3	95.3	95.1	1.37	-1.37	0.1506	0.1212	NM	6.11E+00	2.93E+00	120	5	5
7.40386	1.31	70.4	70.3	1.86	-0.58	0.1312	0.1056	NM	6.17E+00	2.96E+00	120	4	5
7.4767	1.02	58.7	58.6	1.74	-0.18	0.117	0.0857	NM	6.23E+00	2.99E+00	120	4	5
7.54533	1.09	63.1	63.1	1.73	0.32	0.1183	0.0759	NM	6.29E+00	3.02E+00	120	4	5
7.61677	1.21	71.9	72	1.69	0.77	0.1187	0.0743	NM	6.35E+00	3.05E+00	120	4	5
7.68741	1.25	85.1	85.3	1.46	1.12	0.1052	0.0665	NM	6.41E+00	3.08E+00	120	5	5
7.75925	1.16	101.2	101.6	1.14	2.17	0.0994	0.0598	NM	6.47E+00	3.10E+00	120	5	6
7.82828	1.21	112.9	113.6	1.07	3.27	0.0994	0.0563	NM	6.52E+00	3.13E+00	120	5	6
7.8961	1.38	123.2	123.8	1.12	2.97	0.0948	0.0524	NM	6.58E+00	3.16E+00	120	5	6
7.96513	1.53	146.7	147.4	1.04	3.86	0.0896	0.0494	NM	6.64E+00	3.19E+00	120	5	6
8.03657	1.52	176	176.8	0.86	4.16	0.0894	0.0489	NM	6.70E+00	3.22E+00	120	5	6
8.10721	1.38	187.8	187.8	0.74	0.32	0.0936	0.0508	NM	6.76E+00	3.24E+00	120	6	6
8.17885	1.31	177.5	177.5	0.74	-0.08	0.0982	0.0522	NM	6.82E+00	3.27E+00	120	5	6
8.24848	1.61	162.8	162.8	0.99	-0.03	0.1005	0.0522	NM	6.87E+00	3.30E+00	120	5	6
8.32152	2.15	158.4	158.4	1.35	0.17	0.0982	0.0533	NM	6.94E+00	3.33E+00	120	5	6
8.39095	2.4	167.2	167.3	1.44	0.42	0.1019	0.0552	NM	6.99E+00	3.36E+00	120	5	6
8.46199	2.57	196.5	196.7	1.3	0.87	0.1045	0.0526	NM	7.05E+00	3.39E+00	120	5	6
8.53263	2.8	253.8	254.1	1.1	1.52	0.1069	0.0509	NM	7.11E+00	3.41E+00	120	5	6
8.60248	3	313.9	314.1	0.96	0.87	0.2137	0.0978	NM	7.17E+00	3.44E+00	120	6	6
8.6739	3.21	374	374	0.86	-0.23	0.2087	0.1027	NM	7.23E+00	3.47E+00	120	6	6
8.74534	3.44	374	373.8	0.92	-1.03	0.2013	0.1152	NM	7.29E+00	3.50E+00	120	6	6
8.81517	4.07	325.6	325.3	1.25	-1.52	0.2402	0.1402	NM	7.35E+00	3.53E+00	120	6	6
8.8862	5.7	287.5	286.9	1.99	-2.92	0.2429	0.1372	NM	7.41E+00	3.55E+00	120	5	6

9.08475	7.19	193.3	192.6	3.73	-3.49	0.3287	0.1632	NM	7.57E+00	3.63E+00	120	4	6
9.15454	6.54	117	116.3	5.83	-3.63	0.3507	0.1967	NM	7.63E+00	3.66E+00	120	3	5
9.22873	14.05	68.6	68	20.67	-3.19	0.2663	0.1812	NM	7.69E+00	3.69E+00	120	-99	-99
9.30172	11.47	58.3	57.8	19.85	-2.74	0.267	0.1776	NM	7.75E+00	3.72E+00	120	-99	-99
9.3691	9.87	576.2	575.7	1.71	-2.49	0.2591	0.1647	NM	7.81E+00	3.75E+00	120	6	6
9.43968	8.65	545.4	545	1.59	-2.39	0.2094	0.1074	NM	7.87E+00	3.78E+00	120	6	6
9.50868	5.86	379.6	379.2	1.55	-2.39	0.199	0.0798	NM	7.92E+00	3.80E+00	120	5	6
9.58045	5.55	17.2	16.8	33.07	-2.44	0.2057	0.0804	NM	7.98E+00	3.83E+00	120	-99	-99
9.65304	8.58	52.5	52	16.52	-2.54	0.199	0.0851	NM	8.04E+00	3.86E+00	120	3	-99
9.72724	15.79	70.1	69.6	22.69	-2.39	0.1579	0.0789	NM	8.11E+00	3.89E+00	120	-99	5
9.79542	7.72	190.4	189.9	4.06	-2.29	0.1392	0.077	NM	8.16E+00	3.92E+00	120	4	6
9.8668	5.82	526.3	526	1.11	-1.89	0.1598	0.0893	NM	8.22E+00	3.95E+00	120	6	6
9.93699	7.87	558.6	558.2	1.41	-1.99	0.1802	0.1013	NM	8.28E+00	3.98E+00	120	6	6
10.00717	8.91	533.7	533.3	1.67	-2.09	0.1862	0.1063	NM	8.34E+00	4.00E+00	120	6	6
10.07896	8.26	539.5	539.1	1.53	-2.44	0.155	0.0929	NM	8.40E+00	4.03E+00	120	6	6
10.15275	6.15	595.3	594.8	1.03	-2.34	0.1582	0.0963	NM	8.46E+00	4.06E+00	120	6	6
10.22213	4.04	290.1	289.7	1.4	-2.24	0.1694	0.1031	NM	8.52E+00	4.09E+00	120	5	6
10.29432	3.37	224.1	223.6	1.51	-2.74	0.1702	0.1	NM	8.58E+00	4.12E+00	120	5	6
10.3617	3.23	164	163.5	1.97	-2.54	0.1753	0.0982	NM	8.64E+00	4.15E+00	120	5	6
10.43589	2.93	131.7	131.3	2.24	-2.19	0.1481	0.0843	NM	8.70E+00	4.17E+00	120	4	5
10.50808	3.68	153.7	153.4	2.4	-1.69	0.1085	0.0631	NM	8.76E+00	4.20E+00	120	4	6
10.58107	3.58	526.3	526.1	0.68	-1.09	0.0937	0.0558	NM	8.82E+00	4.23E+00	120	6	6
10.64885	2.23	1067.7	1067.5	0.21	-0.94	0.0832	0.0519	NM	8.87E+00	4.26E+00	120	7	7
10.72144	2.26	1320.1	1319.8	0.17	-1.39	0.0797	0.0508	NM	8.94E+00	4.29E+00	120	7	7
10.79042	3.99	1471.2	1470.8	0.27	-2.09	0.0784	0.0498	NM	8.99E+00	4.32E+00	120	7	7
10.86141	3.36	1591.5	1591.1	0.21	-1.99	0.0774	0.0491	NM	9.05E+00	4.35E+00	120	7	7
10.93239	3.99	1707.4	1707	0.23	-1.89	0.0758	0.0477	NM	9.11E+00	4.37E+00	120	7	7
11.00458	8.04	1788.1	1787.7	0.45	-1.99	0.0741	0.0456	NM	9.17E+00	4.40E+00	120	7	7
11.07236	7.58	2015.5	2015.1	0.38	-1.84	0.0723	0.0437	NM	9.23E+00	4.43E+00	120	7	7
11.13894	6.84	2037.5	2037.2	0.34	-1.64	0.0711	0.043	NM	9.28E+00	4.46E+00	120	7	7
11.20912	7.57	1978.8	1978.6	0.38	-0.94	0.071	0.0426	NM	9.34E+00	4.48E+00	120	7	7
11.2793	8.88	2107.9	2107.6	0.42	-1.74	0.0703	0.0424	NM	9.40E+00	4.51E+00	120	7	7
11.34989	11.06	2050.7	2050.4	0.54	-1.84	0.0694	0.0419	NM	9.46E+00	4.54E+00	120	7	7
11.42168	9.62	2156.3	2156	0.45	-1.84	0.07	0.0419	NM	9.52E+00	4.57E+00	120	7	7
11.49188	8.98	2187.2	2186.9	0.41	-1.39	0.0703	0.0419	NM	9.58E+00	4.60E+00	120	7	7
11.56405	8.35	2260.5	2260.2	0.37	-1.39	0.0704	0.0422	NM	9.64E+00	4.63E+00	120	7	7
11.63383	7.01	2165.1	2164.8	0.32	-1.59	0.0708	0.0423	NM	9.70E+00	4.65E+00	120	7	7
11.70562	7.97	2196	2195.7	0.36	-1.49	0.0715	0.0418	NM	9.76E+00	4.68E+00	120	7	7
11.7754	7.27	2220.9	2220.7	0.33	-1.24	0.0719	0.0416	NM	9.81E+00	4.71E+00	120	7	7
11.84558	6.75	2240	2239.8	0.3	-0.89	0.0707	0.0417	NM	9.87E+00	4.74E+00	120	7	7
11.91737	6.24	2285.4	2285.3	0.27	-0.69	0.07	0.0411	NM	9.93E+00	4.77E+00	120	7	7
11.98796	5.74	2317.7	2317.6	0.25	-0.69	0.07	0.0413	NM	9.99E+00	4.80E+00	120	7	7
12.05774	5.91	2279.6	2279.5	0.26	-0.64	0.07	0.0417	NM	1.01E+01	4.82E+00	120	7	7
12.12833	5.94	2319.2	2319.1	0.26	-0.59	0.0692	0.0415	NM	1.01E+01	4.85E+00	120	7	7
12.3607	5.85	2309.1	2309.3	0.25	0.64	0.0679	0.0409	NM	1.03E+01	4.94E+00	120	7	7
12.43055	6.36	2332.8	2332.7	0.27	0.64	0.0677	0.0409	NM	1.04E+01	4.97E+00	120	7	7
12.50281	5.51	2404.5	2404.6	0.23	0.64	0.0679	0.0406	NM	1.04E+01	5.00E+00	120	7	7
12.57627	6.17	2398.7	2398.8	0.26	0.69	0.0686	0.0405	NM	1.05E+01	5.03E+00	120	7	7
12.64773	4.13	2454.4	2454.6	0.17	0.84	0.0684	0.0409	NM	1.05E+01	5.06E+00	120	7	7
12.71517	8.77	2541	2541.1	0.35	0.79	0.0681	0.0406	NM	1.06E+01	5.09E+00	120	7	7
12.78482	8.5	2554.2	2554.4	0.33	0.79	0.0682	0.0403	NM	1.07E+01	5.11E+00	120	7	7
12.85487	6.83	2586.5	2586.7	0.26	0.89	0.0685	0.0404	NM	1.07E+01	5.14E+00	120	7	7

12.92592	6.14	2582.1	2582.3	0.24	0.89	0.0685	0.0403	NM	1.08E+01	5.17E+00	120	7	7
12.99778	5.59	2536.8	2536.7	0.22	0.74	0.0686	0.04	NM	1.08E+01	5.20E+00	120	7	7
13.07124	6.04	2291.5	2291.7	0.26	0.84	0.0683	0.0399	NM	1.09E+01	5.23E+00	120	7	7
13.13989	6.26	2282.7	2282.9	0.27	0.94	0.0694	0.0406	NM	1.10E+01	5.26E+00	120	7	7
13.21214	6.12	2285.1	2285.3	0.36	0.99	0.0718	0.0409	NM	1.10E+01	5.29E+00	120	7	7
13.28119	6.19	2235.8	2235.9	0.28	0.99	0.0715	0.0411	NM	1.11E+01	5.31E+00	120	7	7
13.35184	6.09	2224	2224.2	0.27	1.04	0.0714	0.0413	NM	1.11E+01	5.34E+00	120	7	7
13.4237	7.13	2215.2	2215.4	0.32	0.99	0.0723	0.0412	NM	1.12E+01	5.37E+00	120	7	7
13.49756	5.81	2172.7	2172.8	0.27	0.94	0.0718	0.0413	NM	1.13E+01	5.40E+00	120	7	7
13.5654	5.15	2153.6	2153.8	0.24	0.99	0.0717	0.0413	NM	1.13E+01	5.43E+00	120	7	7
13.63726	4.29	2156.5	2156.7	0.2	0.94	0.0709	0.0416	NM	1.14E+01	5.46E+00	120	7	7
13.70551	3.78	2140.4	2140.5	0.18	0.94	0.0699	0.0409	NM	1.14E+01	5.48E+00	120	7	7
13.77536	3.85	2125.7	2125.9	0.18	0.99	0.0698	0.0407	NM	1.15E+01	5.51E+00	120	7	7
13.84801	2.61	2102.2	2102.4	0.12	0.99	0.0695	0.0408	NM	1.15E+01	5.54E+00	120	7	7
13.92027	2.92	2055.3	2055.5	0.14	1.04	0.0688	0.0406	NM	1.16E+01	5.57E+00	120	7	7
13.98972	3.91	2009.8	2010	0.19	1.04	0.0682	0.0405	NM	1.17E+01	5.60E+00	120	7	7
14.06198	3.3	1942.3	1942.4	0.17	0.99	0.0675	0.0399	NM	1.17E+01	5.63E+00	120	7	7
14.13063	2.91	1895.3	1895.5	0.15	0.99	0.067	0.0401	NM	1.18E+01	5.65E+00	120	7	7
14.20088	2.13	1877.7	1877.9	0.11	1.09	0.0666	0.0403	NM	1.18E+01	5.68E+00	120	7	7
14.27273	5.02	1802.8	1803.1	0.28	1.14	0.0664	0.0406	NM	1.19E+01	5.71E+00	120	7	7
14.34419	4.09	1773.5	1773.7	0.23	1.24	0.0668	0.041	NM	1.20E+01	5.74E+00	120	7	7
14.41283	3.07	1807.2	1807.5	0.17	1.34	0.0677	0.0406	NM	1.20E+01	5.77E+00	120	7	7
14.48108	6.73	1885	1885.3	0.36	1.24	0.068	0.0408	NM	1.21E+01	5.79E+00	120	7	7
14.55013	6.73	1874.7	1875	0.36	1.19	0.0683	0.0409	NM	1.21E+01	5.82E+00	120	7	7
14.62158	5.87	1830.7	1831	0.32	1.24	0.0687	0.0406	NM	1.22E+01	5.85E+00	120	7	7
14.69263	5.42	1886.5	1886.7	0.29	1.34	0.069	0.0406	NM	1.22E+01	5.88E+00	120	7	7
14.76409	5.51	1895.3	1895.5	0.29	1.14	0.0701	0.0407	NM	1.23E+01	5.91E+00	120	7	7
14.83394	5.67	1684	1684.3	0.34	1.49	0.0713	0.0412	NM	1.24E+01	5.93E+00	120	7	7
14.907	5.4	1706	1706.3	0.32	1.44	0.0718	0.0413	NM	1.24E+01	5.96E+00	120	7	7
14.97805	5.76	1711.9	1712.1	0.34	1.39	0.0712	0.0413	NM	1.25E+01	5.99E+00	120	7	7
15.0471	4.76	1697.2	1697.5	0.28	1.39	0.0684	0.0392	NM	1.25E+01	6.02E+00	120	7	7
15.11936	4.74	1694.2	1694.6	0.28	1.69	0.04	0.0248	NM	1.26E+01	6.05E+00	120	7	7
15.18881	3.22	1694.2	1694.6	0.19	1.79	0.0108	0.0093	NM	1.27E+01	6.08E+00	120	7	7
15.25988	6.66	1704.5	1704.8	0.39	1.59	0.0062	0.0034	NM	1.27E+01	6.10E+00	120	7	7
15.33132	5.76	1729.5	1729.8	0.33	1.64	0.0044	0.0012	NM	1.28E+01	6.13E+00	120	7	7
15.40076	4.91	1755.9	1756.2	0.28	1.79	0.0019	0.0011	NM	1.28E+01	6.16E+00	120	7	7
15.47141	4.14	1824.8	1825.2	0.23	1.74	0.0003	0.0013	NM	1.29E+01	6.19E+00	120	7	7
15.54201	3.67	1848.2	1848.7	0.2	2.55	0.0006	0.0011	NM	1.30E+01	6.22E+00	120	7	7
15.60939	4.19	1786.6	1787.1	0.23	2.65	0.0006	0.0006	NM	1.30E+01	6.24E+00	120	7	7
15.67957	4.21	1808.6	1809.3	0.23	3.25	0.0014	0.0007	NM	1.31E+01	6.27E+00	120	7	7
15.75096	5.01	1829.2	1829.7	0.27	3	0.0026	0.0008	NM	1.31E+01	6.30E+00	120	7	7
15.82636	3.86	1824.8	1825.3	0.21	3	0.0031	0	NM	1.32E+01	6.33E+00	120	7	7
15.89614	3.84	1814.5	1815.1	0.21	3.3	0.0038	0.0003	NM	1.33E+01	6.36E+00	120	7	7
15.96512	4.65	1789.8	1790.2	0.26	3.2	0.0048	0.0008	NM	1.33E+01	6.39E+00	120	7	7
16.0333	5.88	1774.9	1775.6	0.33	3.5	0.006	0.0009	NM	1.34E+01	6.41E+00	120	7	7
16.10469	9.16	1788.1	1788.8	0.51	3.6	0.0064	0.0011	NM	1.34E+01	6.44E+00	120	6	7
16.17447	11.74	1833.8	1834.3	0.64	3.95	0.0064	0.0006	NM	1.35E+01	6.47E+00	120	6	7
16.24866	11.8	1927.5	1928.4	0.61	4.85	0.0066	0.0001	NM	1.35E+01	6.50E+00	120	6	7
16.32045	12.39	2172.5	2173.6	0.57	5.6	0.0068	0.0004	NM	1.36E+01	6.53E+00	120	6	7
16.39024	11.45	2416	2416.8	0.47	4.25	0.0071	0.0006	NM	1.37E+01	6.56E+00	120	7	7
16.46323	10.97	1898.1	1898.5	0.58	1.91	0.0083	0.0007	NM	1.37E+01	6.59E+00	120	6	7
16.53181	11.49	2188.6	2189	0.52	2.16	0.0095	0.0008	NM	1.38E+01	6.61E+00	120	6	7

16.60119	9.97	2245.8	2246.3	0.44	2.4	0.0088	0.0007	NM	1.38E+01	6.64E+00	120	7	7
16.67458	20.72	2187.2	2187.5	0.95	1.86	0.0071	0.0004	NM	1.39E+01	6.67E+00	120	6	7
16.74757	34.48	2194.5	2194.9	1.57	1.96	0.0054	0.0002	NM	1.40E+01	6.70E+00	120	6	7
16.81775	32.05	2087.4	2087.8	1.54	2.11	0.0048	0.0011	NM	1.40E+01	6.73E+00	120	6	7
16.88834	20.1	2119.7	2120.3	0.95	3.3	0.0043	0.001	NM	1.41E+01	6.76E+00	120	6	7
16.95692	12.66	2443.9	2444.7	0.52	4.25	0.0049	0.0008	NM	1.41E+01	6.78E+00	120	7	7
17.02751	8.68	2231.2	2231.5	0.39	1.66	0.0052	0.0007	NM	1.42E+01	6.81E+00	120	7	7
17.1005	21.04	2081.5	2081.7	1.01	0.88	0.0052	0.0005	NM	1.43E+01	6.84E+00	120	6	7
17.17188	17.4	2363.2	2363.4	0.74	1.11	0.0047	0.001	NM	1.43E+01	6.87E+00	120	6	7
17.24126	20.13	2529	2529.5	0.8	2.4	0.0045	0.0007	NM	1.44E+01	6.90E+00	120	6	7
17.31265	17.38	2744.7	2745.2	0.63	2.6	0.0044	0.0008	NM	1.44E+01	6.93E+00	120	6	7
17.38364	15.7	2351.5	2351.8	0.67	1.56	0.0041	0.0015	NM	1.45E+01	6.95E+00	120	6	7
17.45262	14.27	2292.8	2293.1	0.62	1.76	0.0079	0.0016	NM	1.45E+01	6.98E+00	120	6	7
17.52641	20.92	2357.3	2358.5	0.89	5.75	0.0094	0.001	NM	1.46E+01	7.01E+00	120	6	7
17.597	21.32	2322.1	2322.9	0.92	4.05	0.0074	0.0009	NM	1.47E+01	7.04E+00	120	6	7
17.66638	17.36	2292.8	2293.3	0.76	2.65	0.0073	0.0012	NM	1.47E+01	7.07E+00	120	6	7
17.73456	15.08	2386.7	2387.9	0.63	6.3	0.0072	0.0011	NM	1.48E+01	7.09E+00	120	6	7
17.80594	13	2169.5	2170.1	0.6	2.7	0.0074	0.0013	NM	1.48E+01	7.12E+00	120	6	7
17.87573	10.64	2113.8	2114.2	0.5	1.96	0.0073	0.0014	NM	1.49E+01	7.15E+00	120	6	7
17.94792	8.93	2044.8	2045.8	0.44	4.75	0.0071	0.0009	NM	1.50E+01	7.18E+00	120	6	7
18.0189	8.6	1999.4	2000.2	0.43	4.15	0.0073	0.001	NM	1.50E+01	7.21E+00	120	6	7
18.0843	6.39	1967.1	1967.6	0.32	2.7	0.0073	0.0015	NM	1.51E+01	7.24E+00	120	7	7
18.16528	6.79	1999.4	2000.1	0.34	3.6	0.0064	0.0014	NM	1.51E+01	7.27E+00	120	7	7
18.23627	7.52	2019.9	2020.8	0.37	4.6	0.0047	0.0008	NM	1.52E+01	7.30E+00	120	7	7
18.30525	7.52	2147.5	2148.6	0.35	5.5	0.0042	0.0002	NM	1.53E+01	7.32E+00	120	7	7
18.37985	11.06	2298.7	2299.7	0.48	5.3	0.0041	0.0002	NM	1.53E+01	7.35E+00	120	7	7
18.44762	19.15	2508.5	2509.5	0.76	5.35	0.0047	0.0009	NM	1.54E+01	7.38E+00	120	6	7
18.51861	27.73	2703.6	2703.8	1.03	1.36	0.0051	0.0009	NM	1.54E+01	7.41E+00	120	6	7
18.58879	35.03	2950.1	2950.3	1.19	1.36	0.0056	0.0002	NM	1.55E+01	7.44E+00	120	6	7
18.65938	37.08	3368.7	3370	1.1	1.66	0.0057	0.0005	NM	1.56E+01	7.46E+00	120	6	7
18.72876	39.1	3211.2	3211.5	1.22	1.46	0.007	0.0004	NM	1.56E+01	7.49E+00	120	6	7
18.92335	38.9	3976.2	3976.7	0.98	2.24	0.0128	0.0008	NM	1.58E+01	7.57E+00	120	6	7
19.14443	20.13	2891.7	2892	0.7	1.34	0.0104	0.0004	NM	1.60E+01	7.66E+00	120	6	7
19.21505	20.96	3108.9	3109.2	0.67	1.44	0.0111	0.0003	NM	1.60E+01	7.69E+00	120	6	7
19.28286	15.89	3084	3084.2	0.52	1.39	0.0116	0.0013	NM	1.61E+01	7.71E+00	120	7	7
19.35308	11.36	2828.6	2828.9	0.4	1.39	0.0119	0.0016	NM	1.61E+01	7.74E+00	120	7	7
19.42329	14.18	3006.2	3006.5	0.47	1.44	0.0115	0.0016	NM	1.62E+01	7.77E+00	120	7	7
19.49672	8	2789	2789.3	0.29	1.34	0.0123	0.0016	NM	1.63E+01	7.80E+00	120	7	7
19.57015	22.69	2611.4	2611.7	0.87	1.49	0.0127	0.0014	NM	1.63E+01	7.83E+00	120	6	7
19.64197	34.93	2720	2720.3	1.28	1.44	0.0105	0.0005	NM	1.64E+01	7.86E+00	120	6	7
19.71179	33.79	2617.3	2617.6	1.29	1.39	0.008	0.0013	NM	1.64E+01	7.89E+00	120	6	7
19.78281	27.87	3003.3	3003.6	0.93	1.49	0.0093	0.001	NM	1.65E+01	7.91E+00	120	6	7
19.86065	27.02	2841.8	2842.1	0.95	1.34	0.0125	0.0011	NM	1.66E+01	7.94E+00	120	6	7
19.92886	26.14	1769.1	1769.3	1.48	1.04	0.0144	0.0008	NM	1.66E+01	7.97E+00	120	6	7
20.00189	22.54	1773.5	1773.7	1.27	1.29	0.0139	0.001	NM	1.67E+01	8.00E+00	120	6	7
20.07331	19.28	1857.1	1857.4	1.04	1.29	0.0146	0.0008	NM	1.67E+01	8.03E+00	120	6	7
20.14352	18.05	1852.7	1853	0.97	1.24	0.0214	0.0001	NM	1.68E+01	8.06E+00	120	6	7
20.21294	8.21	1846.9	1847.1	0.44	1.29	0.0271	0.0002	NM	1.68E+01	8.09E+00	120	6	7
20.28275	6.97	1820.4	1820.7	0.38	1.34	0.0439	0.0065	NM	1.69E+01	8.11E+00	120	6	7
20.35458	6.78	1816	1816.3	0.37	1.39	0.0715	0.0264	NM	1.70E+01	8.14E+00	120	6	7
20.42801	6.56	1824.8	1825.1	0.36	1.44	0.083	0.0405	NM	1.70E+01	8.17E+00	120	6	7
20.49983	6.32	1813.1	1813.4	0.35	1.49	0.0841	0.0412	NM	1.71E+01	8.20E+00	120	6	7

20.58964	6.22	1770.6	1770.8	0.35	1.49	0.0847	0.0412	NM	1.71E+01	8.23E+00	120	6	7
20.64146	6.1	1758.8	1759.1	0.35	1.39	0.0851	0.0414	NM	1.72E+01	8.26E+00	120	6	7
20.71249	6.08	1763.2	1763.5	0.34	1.44	0.085	0.0415	NM	1.73E+01	8.29E+00	120	6	7
20.78351	5.56	1761.7	1762	0.32	1.54	0.0844	0.0413	NM	1.73E+01	8.31E+00	120	6	7
20.85693	5.58	1723.6	1723.9	0.32	1.44	0.0841	0.0412	NM	1.74E+01	8.34E+00	120	6	7
20.93237	5.48	1666.4	1666.7	0.33	1.49	0.084	0.0415	NM	1.74E+01	8.37E+00	120	6	7
21.00058	5.5	1635.5	1635.8	0.34	1.54	0.0841	0.0419	NM	1.75E+01	8.40E+00	120	6	7
21.06999	4.84	1647.3	1647.6	0.29	1.59	0.0843	0.0419	NM	1.76E+01	8.43E+00	120	6	7
21.14101	4.82	1684	1684.2	0.29	1.44	0.084	0.0417	NM	1.76E+01	8.46E+00	120	6	7
21.21324	4.39	1764.7	1765	0.25	1.64	0.0836	0.0416	NM	1.77E+01	8.49E+00	120	7	7
21.28426	4.29	1826.3	1826.6	0.24	1.64	0.0837	0.0416	NM	1.77E+01	8.51E+00	120	7	7
21.35568	4.5	1880.6	1881	0.24	1.74	0.0841	0.0417	NM	1.78E+01	8.54E+00	120	7	7
21.4263	4.53	1917.3	1917.7	0.24	1.84	0.0842	0.0418	NM	1.79E+01	8.57E+00	120	7	7
21.49892	5.45	1959.9	1960.2	0.28	1.89	0.084	0.042	NM	1.79E+01	8.60E+00	120	7	7
21.57075	8.64	2005.4	2005.7	0.43	1.74	0.0841	0.0419	NM	1.80E+01	8.63E+00	120	6	7
21.64256	10.43	2025.9	2026.3	0.51	1.84	0.0844	0.0419	NM	1.80E+01	8.66E+00	120	6	7
21.71359	2.04	2105.1	2105.5	0.1	1.79	0.0854	0.0423	NM	1.81E+01	8.69E+00	120	-99	7
21.78501	9.67	2194.7	2195	0.44	1.79	0.0859	0.0423	NM	1.82E+01	8.71E+00	120	6	7
21.85362	9.1	2278.3	2278.7	0.4	1.94	0.0857	0.0421	NM	1.82E+01	8.74E+00	120	6	7
21.92544	8.61	2156.5	2156.9	0.4	2.04	0.0854	0.0419	NM	1.83E+01	8.77E+00	120	6	7
21.99566	8.34	2115.4	2115.8	0.39	1.99	0.0851	0.0419	NM	1.83E+01	8.80E+00	120	6	7
22.12161	7.26	2082.8	2083.5	0.35	3.32	0.0879	0.0421	NM	1.84E+01	8.85E+00	120	6	7
22.19018	6.06	2043.2	2043.9	0.3	3.72	0.0849	0.0422	NM	1.85E+01	8.88E+00	120	7	7
22.26156	5.75	2019.8	2020.5	0.28	3.77	0.0853	0.0417	NM	1.86E+01	8.91E+00	120	7	7
22.33294	5.76	1993.4	1994.1	0.29	3.96	0.0767	0.0387	NM	1.86E+01	8.93E+00	120	7	7
22.40873	5.56	1969.9	1970.7	0.28	4.16	0.0244	0.019	NM	1.87E+01	8.96E+00	120	7	7
22.47811	5.94	1925.9	1926.6	0.31	3.57	0.0261	0.0073	NM	1.87E+01	8.99E+00	120	6	7
22.54828	6.34	1893.6	1894.4	0.33	4.26	0.026	0.003	NM	1.88E+01	9.02E+00	120	6	7
22.61686	8.54	1868.7	1869.6	0.35	4.51	0.0219	0.0011	NM	1.89E+01	9.05E+00	120	6	7
22.68904	7.01	1848.1	1849	0.38	4.36	0.0215	0.0004	NM	1.89E+01	9.08E+00	120	6	7
22.75962	7.14	1868.7	1869.5	0.38	4.21	0.0221	0.0003	NM	1.90E+01	9.10E+00	120	6	7
22.83501	7.13	1927.4	1928.3	0.37	5.06	0.0189	0.0012	NM	1.90E+01	9.13E+00	120	6	7
22.90639	8.27	2053.5	2054.3	0.4	4.26	0.0176	0.0013	NM	1.91E+01	9.16E+00	120	6	7
22.97777	9.78	2188.4	2189.3	0.45	4.41	0.0198	0.0013	NM	1.92E+01	9.19E+00	120	6	7
23.04714	11.18	2270.6	2271	0.49	1.92	0.0219	0.0013	NM	1.92E+01	9.22E+00	120	6	7
23.11893	15.5	2389.4	2389.5	0.65	0.72	0.0295	0.0031	NM	1.93E+01	9.25E+00	120	6	7
23.1891	15.51	2490.6	2490.7	0.62	0.37	0.0623	0.0184	NM	1.93E+01	9.28E+00	120	6	7
23.26449	9.86	2561	2561.1	0.38	0.47	0.073	0.0316	NM	1.94E+01	9.31E+00	120	7	7
23.33507	34.01	2741.4	2741.5	1.24	0.42	0.0656	0.0255	NM	1.95E+01	9.33E+00	120	6	7
23.40524	18.39	3040.6	3040.7	0.6	0.22	0.0707	0.0293	NM	1.95E+01	9.36E+00	120	6	7
23.47542	15.5	3061.2	3061.2	0.51	0.27	0.0753	0.0356	NM	1.96E+01	9.39E+00	120	6	7
23.5456	26.38	3668.4	3668.5	0.72	0.27	0.0765	0.0351	NM	1.96E+01	9.42E+00	120	6	7
23.61377	31.24	4541.2	4541.1	0.69	-0.18	0.0764	0.0402	NM	1.97E+01	9.45E+00	120	7	7
23.68956	28.77	3712.4	3712.4	0.77	-0.03	0.0776	0.042	NM	1.97E+01	9.48E+00	120	6	7
23.76175	32.74	3515.9	3515.8	0.93	-0.43	0.0783	0.0416	NM	1.98E+01	9.51E+00	120	6	7
23.83433	33.61	3958.9	3958.8	0.85	-0.38	0.0781	0.0415	NM	1.99E+01	9.53E+00	120	6	7
23.90491	33.87	3961.8	3961.9	0.85	0.57	0.0788	0.0418	NM	1.99E+01	9.56E+00	120	6	7
23.97568	34.12	4085.3	4085.3	0.83	-0.08	0.0802	0.0419	NM	2.00E+01	9.59E+00	120	6	7
24.04486	33.4	4036.6	4036.5	0.83	-0.38	0.0803	0.042	NM	2.00E+01	9.62E+00	120	6	7
24.11885	31.76	3967.7	3967.6	0.8	-0.28	0.0813	0.0417	NM	2.01E+01	9.65E+00	120	6	7
24.3392	45.11	4051.3	4051.3	1.11	0.02	0.0797	0.041	NM	2.03E+01	9.74E+00	120	6	7
24.40978	46.92	3967.7	3967.7	1.18	0.27	0.0805	0.0413	NM	2.03E+01	9.76E+00	120	6	7

24.48116	45.58	3986.7	3986.7	1.14	-0.13	0.082	0.0416	NM	2.04E+01	9.79E+00	120	6	7
24.55294	36.83	4082.1	4082	0.9	-0.28	0.0821	0.0419	NM	2.05E+01	9.82E+00	120	6	7
24.62392	24.19	4297.7	4297.6	0.56	-0.18	0.0814	0.042	NM	2.05E+01	9.85E+00	120	7	7
24.69209	22.37	4903.5	4903.5	0.46	0.17	0.0792	0.0418	NM	2.06E+01	9.88E+00	120	7	7
24.76548	24.91	4764.1	4764.2	0.52	0.62	0.078	0.0413	NM	2.06E+01	9.91E+00	120	7	7
24.83365	34.95	4570.5	4570.7	0.76	1.17	0.079	0.0415	NM	2.07E+01	9.93E+00	120	6	7
24.90744	34.44	4764.1	4764.2	0.72	0.57	0.0798	0.0424	NM	2.08E+01	9.96E+00	120	6	7
24.97962	30.51	4652.6	4652.8	0.66	0.62	0.0804	0.0415	NM	2.08E+01	9.99E+00	120	7	7
25.053	26.42	3835.6	3835.8	0.69	0.72	0.0783	0.041	NM	2.09E+01	1.00E+01	120	6	7
25.12318	22.52	3954.5	3954.6	0.57	0.87	0.0788	0.0412	NM	2.09E+01	1.01E+01	120	7	7
25.19536	19.76	3669.9	3670.1	0.54	1.17	0.0786	0.0414	NM	2.10E+01	1.01E+01	120	7	7
25.26594	18.62	3551.1	3551.3	0.52	0.92	0.079	0.0411	NM	2.11E+01	1.01E+01	120	7	7
25.47782	14.82	2975	2975.3	0.5	1.26	0.0782	0.041	NM	2.12E+01	1.02E+01	120	6	7
25.54806	13.21	3029.3	3029.5	0.44	1.01	0.0784	0.0412	NM	2.13E+01	1.02E+01	120	7	7
25.61709	12.58	3004.4	3004.5	0.42	0.66	0.0793	0.0411	NM	2.14E+01	1.03E+01	120	7	7
25.69213	10.94	3041	3041.2	0.36	0.96	0.0801	0.0409	NM	2.14E+01	1.03E+01	120	7	7
25.76838	10.01	3048.4	3048.5	0.33	0.86	0.0807	0.0409	NM	2.15E+01	1.03E+01	120	7	7
25.83501	9.88	3067.4	3067.6	0.32	0.81	0.0808	0.0411	NM	2.15E+01	1.03E+01	120	7	7
25.90444	9.57	3096.8	3096.9	0.31	0.71	0.0817	0.0416	NM	2.16E+01	1.04E+01	120	7	7
25.97468	14.49	3063	3063.2	0.47	0.56	0.0816	0.0411	NM	2.17E+01	1.04E+01	120	6	7
26.04611	16	3101.2	3101.3	0.52	0.41	0.0805	0.0409	NM	2.17E+01	1.04E+01	120	6	7
26.12077	14.72	3118.8	3118.9	0.47	0.46	0.0813	0.0414	NM	2.18E+01	1.05E+01	120	6	7
26.19341	14.17	3174.5	3174.6	0.45	0.51	0.0817	0.0417	NM	2.18E+01	1.05E+01	120	7	7
26.26445	13.86	3098.3	3098.3	0.45	0.46	0	0	NM	2.19E+01	1.05E+01	120	7	7
26.33588	13.51	2997	2997.1	0.45	0.41	0	0	NM	2.20E+01	1.05E+01	120	6	7
26.40853	13.16	3066	3066.1	0.43	0.41	0	0	NM	2.20E+01	1.06E+01	120	7	7
26.47716	12.57	3142.3	3142.4	0.4	0.46	0	0	NM	2.21E+01	1.06E+01	120	7	7
26.5514	11.51	3189.2	3189.3	0.36	0.51	0	0	NM	2.21E+01	1.06E+01	120	7	7
26.62364	10.98	3252.3	3252.4	0.34	0.51	0	0	NM	2.22E+01	1.07E+01	120	7	7
26.69428	11.01	3294.8	3294.9	0.33	0.51	0	0	NM	2.23E+01	1.07E+01	120	7	7
26.76451	11.26	3344.7	3344.8	0.34	0.56	0	0	NM	2.23E+01	1.07E+01	120	7	7
26.83515	11.48	3365.3	3365.4	0.34	0.56	0	0	NM	2.24E+01	1.07E+01	120	7	7
26.90458	11.84	3388.8	3388.9	0.35	0.61	0	0	NM	2.24E+01	1.08E+01	120	7	7
26.97802	12.15	3426.9	3427	0.35	0.66	0	0	NM	2.25E+01	1.08E+01	120	7	7
27.05027	12.12	3463.6	3463.7	0.35	0.66	0	0	NM	2.25E+01	1.08E+01	120	7	7
27.1205	12.33	3487	3487.2	0.35	0.66	0	0	NM	2.26E+01	1.09E+01	120	7	7
27.19314	12.91	3510.5	3510.7	0.37	0.71	0	0	NM	2.27E+01	1.09E+01	120	7	7
27.26338	13.22	3558.9	3559.1	0.37	0.71	0	0	NM	2.27E+01	1.09E+01	120	7	7
27.33321	13.6	3603	3603.1	0.38	0.71	0	0	NM	2.28E+01	1.09E+01	120	7	7
27.40625	13.48	3639.6	3639.8	0.37	0.76	0	0	NM	2.28E+01	1.10E+01	120	7	7
27.47649	13.48	3680.7	3680.9	0.37	0.76	0	0	NM	2.29E+01	1.10E+01	120	7	7
27.54632	15.08	3780.5	3780.6	0.4	0.81	0	0	NM	2.30E+01	1.10E+01	120	7	7
27.61415	14.45	3969.7	3969.9	0.36	0.81	0	0	NM	2.30E+01	1.11E+01	120	7	7
27.68589	14.41	4115	4115.1	0.35	0.81	0	0	NM	2.31E+01	1.11E+01	120	7	7
27.75502	15.73	4169.3	4169.4	0.38	0.81	0	0	NM	2.31E+01	1.11E+01	120	7	7
27.82726	16.91	4252.9	4253.1	0.4	0.86	0	0	NM	2.32E+01	1.11E+01	120	7	7
27.89749	16.11	4316	4316.2	0.37	0.96	0	0	NM	2.33E+01	1.12E+01	120	7	7
27.96933	14.84	4377.6	4377.8	0.34	0.91	0	0	NM	2.33E+01	1.12E+01	120	7	7
28.04037	15.32	4409.9	4410	0.35	0.86	0	0	NM	2.34E+01	1.12E+01	120	7	7
28.11221	15.17	4401.1	4401.3	0.34	0.91	0	0	NM	2.34E+01	1.12E+01	120	7	7
28.18164	16.36	4288.1	4288.3	0.38	0.96	0	0	NM	2.35E+01	1.13E+01	120	7	7
28.25508	15.9	4318.9	4319.1	0.37	0.91	0	0	NM	2.36E+01	1.13E+01	120	7	7

28.32331	0	4414.3	4414.5	0	0.96	0	0	NM	2.36E+01	1.13E+01	120	-99	7
28.39555	0	4497.9	4498.1	0	1.11	0	0	NM	2.37E+01	1.14E+01	120	-99	7
28.46579	0	4668.1	4668.3	0	1.16	0	0	NM	2.37E+01	1.14E+01	120	-99	7
28.53682	0	4732.7	4732.9	0	1.18	0	0	NM	2.38E+01	1.14E+01	120	-99	7
28.60585	0	4835.4	4835.6	0	1.18	0	0	NM	2.38E+01	1.14E+01	120	-99	7

Electric Cone Penetrometer Data

Cone_TAP v 2.90

Test Id: HD-17 Date: 5-Nov-03

Site: SUNNYSIDE Cone Id: 108.034XXX

Location: QUEENS NY

Project: ROUX Soil Density(pcf): 120

Client: ROUX

Depth (ft)	Sleeve Stress (psi)	Tip Stress UNC (psi)	Tip Stress COR (psi)	Ratio COR (%)	Pore Pressure (psi)	LFFD (V)	HFFD (V)	Excitation (Vdc)	Overburden (psi)	Eff. Overburden (psi)	Wet Density (pcf)	Class. FR (Rob. 1990)	Class. PP (Rob. 1990)
0	0	0	0	0	0	0	0	NM	0.00E+00	0.00E+00	120	-99	-99
0.17752	0	-1.8	-1.8	0	-0.13	0.0636	0.017	NM	1.48E-01	7.10E-02	120	-99	-99
0.21688	0	-0.3	-0.3	0	-0.13	0.0634	0.017	NM	1.81E-01	8.68E-02	120	-99	-99
0.26909	0	-1.8	-1.8	0	-0.03	0.0632	0.017	NM	2.24E-01	1.08E-01	120	-99	-99
0.32773	-0.02	1.2	1.2	-1.9	-0.03	0.0633	0.017	NM	2.73E-01	1.31E-01	120	-99	-99
0.38395	-0.03	-0.3	-0.3	9.14	-0.03	0.0629	0.017	NM	3.20E-01	1.54E-01	120	-99	-99
0.43858	-0.05	-0.3	-0.3	15.58	0.02	0.0629	0.0169	NM	3.66E-01	1.75E-01	120	-99	-99
0.49841	-0.05	-1.8	-1.8	2.56	-0.08	0.0632	0.0204	NM	4.14E-01	1.99E-01	120	-99	-99
0.55465	-0.03	-1.8	-1.8	1.99	0.02	0.0636	0.0178	NM	4.62E-01	2.22E-01	120	-99	-99
0.61288	-0.02	-0.3	-0.3	5.12	-0.13	0.063	0.0183	NM	5.11E-01	2.45E-01	120	-99	-99
0.69441	-0.05	-1.8	-1.8	2.57	-0.03	0.0633	0.0186	NM	5.79E-01	2.78E-01	120	-99	-99
0.78478	0.01	-1.8	-1.8	-0.69	0.02	0.0633	0.0177	NM	6.54E-01	3.14E-01	120	-99	-99
0.87314	-0.04	-1.8	-1.8	2.45	-0.03	0.0631	0.0174	NM	7.28E-01	3.49E-01	120	-99	-99
0.95667	-0.01	-1.8	-1.8	0.73	-0.03	0.0632	0.017	NM	7.97E-01	3.83E-01	120	-99	-99
1.04182	0.01	-0.3	-0.3	-4.45	0.02	0.0631	0.0174	NM	8.68E-01	4.17E-01	120	-99	-99
1.12777	-0.02	-1.8	-1.7	0.89	0.17	0.063	0.0174	NM	9.40E-01	4.51E-01	120	-99	-99
1.21492	-0.02	-1.8	-1.8	1.02	0.02	0.0631	0.0175	NM	1.01E+00	4.86E-01	120	-99	-99
1.29765	-0.02	-0.3	-0.3	7.22	0.07	0.0629	0.0167	NM	1.08E+00	5.19E-01	120	-99	-99
1.3832	-0.02	1.2	1.2	-1.95	-0.03	0.0632	0.0171	NM	1.15E+00	5.53E-01	120	-99	-99
1.46634	-0.03	-0.3	-0.3	8.39	-0.03	0.0634	0.017	NM	1.22E+00	5.87E-01	120	-99	-99
1.86708	-0.05	6.3	6.3	-0.78	0.05	0.0625	0.0168	NM	1.56E+00	7.47E-01	120	-99	-99
1.92008	-0.03	19.5	19.5	-0.14	-0.15	0.0624	0.0169	NM	1.60E+00	7.68E-01	120	-99	5
1.97308	-0.03	23.9	23.8	-0.12	-0.2	0.0635	0.0168	NM	1.64E+00	7.89E-01	120	-99	5
2.0297	-0.06	29.7	29.8	-0.19	0.05	0.0657	0.0233	NM	1.69E+00	8.12E-01	120	-99	6
2.08551	-0.06	16.6	16.6	-0.34	0.05	0.0677	0.0231	NM	1.74E+00	8.34E-01	120	-99	5
2.13931	-0.08	12.2	12.2	-0.68	0.4	0.0731	0.0221	NM	1.78E+00	8.56E-01	120	-99	5
2.19874	-0.09	26.8	26.8	-0.33	-0.15	0.0453	0.0143	NM	1.83E+00	8.80E-01	120	-99	5
2.25897	0.18	34.1	34.1	0.53	0.05	0.0152	0.0063	NM	1.88E+00	9.04E-01	120	5	6
2.3192	0.55	35.6	35.6	1.53	0.1	0.0131	0.0045	NM	1.93E+00	9.28E-01	120	5	6
2.37702	1.17	45.9	45.8	2.56	-0.1	0.0115	0.0041	NM	1.98E+00	9.51E-01	120	5	6
2.43444	1.67	66.4	66.4	2.51	0	0.0081	0.0026	NM	2.03E+00	9.74E-01	120	5	6
2.49507	1.81	120.6	120.6	1.34	0.15	0.0042	0.0014	NM	2.08E+00	9.98E-01	120	6	6
2.5561	1.63	283.2	283.3	0.57	0.35	0.0019	0.0007	NM	2.13E+00	1.02E+00	120	6	7
2.61874	2.28	412.1	412.2	0.55	0.69	0.0019	0.0008	NM	2.18E+00	1.05E+00	120	7	7
2.68138	2.39	520.5	520.6	0.46	0.54	0.0045	0.0017	NM	2.23E+00	1.07E+00	120	7	7
2.74723	2.77	614.3	614.4	0.45	0.59	0.0069	0.0028	NM	2.29E+00	1.10E+00	120	7	7
2.80706	2.95	669.9	670.1	0.44	0.94	0.0107	0.0051	NM	2.34E+00	1.12E+00	120	7	7
2.8697	2.92	798.9	799	0.36	0.69	0.0171	0.0056	NM	2.39E+00	1.15E+00	120	7	7
2.92993	3.08	914.6	914.7	0.34	0.54	0.0242	0.0073	NM	2.44E+00	1.17E+00	120	7	7

2.99337	3.48	954.1	954.4	0.37	1.09	0.0451	0.0124	NM	2.49E+00	1.20E+00	120	7	7
3.0532	4.09	996.6	996.7	0.41	0.4	0.0683	0.0195	NM	2.54E+00	1.22E+00	120	7	7
3.11825	5.41	999.6	999.8	0.54	0.3	0.1206	0.0268	NM	2.60E+00	1.25E+00	120	7	7
3.18169	6.95	1031.8	1031.8	0.67	0.05	0.1788	0.0354	NM	2.65E+00	1.27E+00	120	7	7
3.24513	5.89	1033.2	1033.2	0.57	-0.3	0.2132	0.0428	NM	2.70E+00	1.30E+00	120	7	7
3.31218	6.33	976.1	976	0.65	-0.65	0.2105	0.0453	NM	2.76E+00	1.33E+00	120	7	7
3.37844	6.98	908.7	908.5	0.77	-0.95	0.1847	0.0431	NM	2.82E+00	1.35E+00	120	7	7
3.44429	8.2	866.2	865.8	0.95	-2.15	0.1432	0.0387	NM	2.87E+00	1.38E+00	120	6	7
3.51035	8.41	711	710.6	1.18	-1.95	0.1053	0.0353	NM	2.93E+00	1.41E+00	120	6	7
3.58121	8.2	605.5	604.8	1.36	-3.39	0.0885	0.0341	NM	2.98E+00	1.43E+00	120	6	7
3.64867	8.31	529.3	528.9	1.57	-2.05	0.0498	0.0239	NM	3.04E+00	1.46E+00	120	6	7
3.7109	8.23	488.3	487.9	1.69	-2.2	0.0457	0.0224	NM	3.09E+00	1.48E+00	120	8	7
3.77916	7.19	393.1	393	1.83	-0.4	0.0625	0.0263	NM	3.15E+00	1.51E+00	120	6	7
3.84582	6.73	388.7	388.7	1.73	0.45	0.0725	0.0255	NM	3.21E+00	1.54E+00	120	6	7
3.91287	6.5	456	456.5	1.42	2.24	0.0715	0.0208	NM	3.26E+00	1.57E+00	120	6	7
3.98154	7.45	648	648.3	1.15	1.84	0.0579	0.0142	NM	3.32E+00	1.59E+00	120	6	7
4.051	11.39	810.6	810.6	1.4	0.35	0.0434	0.0113	NM	3.38E+00	1.62E+00	120	6	7
4.11685	19.31	858.9	858.6	2.25	-1.45	0.0428	0.0128	NM	3.43E+00	1.65E+00	120	8	7
4.18752	17.2	895.5	895.1	1.92	-2.1	0.0429	0.0096	NM	3.49E+00	1.68E+00	120	8	7
4.25498	15.79	889.7	889.1	1.78	-3.09	0.0345	0.0061	NM	3.55E+00	1.70E+00	120	6	7
4.32243	14.57	1002.5	1001.9	1.45	-3.19	0.0251	0.0051	NM	3.60E+00	1.73E+00	120	6	7
4.39351	13.13	970.3	969.1	1.35	-5.98	0.0183	0.0045	NM	3.66E+00	1.76E+00	120	6	7
4.46418	9.02	698.3	695.3	1.3	-5.24	0.0135	0.0034	NM	3.72E+00	1.79E+00	120	6	7
4.53243	5.99	722.7	721.8	0.83	-4.44	0.0107	0.0026	NM	3.78E+00	1.81E+00	120	6	7
4.60351	4.43	771	770.2	0.58	-4.49	0.0094	0.0019	NM	3.84E+00	1.84E+00	120	7	7
4.67056	3.79	775.4	774.3	0.49	-5.59	0.008	0.0017	NM	3.89E+00	1.87E+00	120	7	7
4.74003	3.29	776.9	775.7	0.42	-5.98	0.0075	0.0047	NM	3.95E+00	1.90E+00	120	7	7
4.78379	3.1	665.5	664.4	0.47	-5.93	0.0066	0.0045	NM	3.99E+00	1.91E+00	120	7	7
4.81791	2.97	763.5	763.2	0.39	-1.66	0.0052	0.0022	NM	4.02E+00	1.93E+00	120	7	7
4.88575	2.83	782.6	781.8	0.34	-3.76	0.0057	0.0047	NM	4.07E+00	1.95E+00	120	7	7
4.95479	2.36	782.6	781.9	0.3	-3.66	0.0059	0.0041	NM	4.13E+00	1.98E+00	120	7	7
5.02222	2.24	781.1	780.4	0.29	-3.41	0.0064	0.0021	NM	4.19E+00	2.01E+00	120	7	7
5.09608	2.21	765	765	0.29	0.03	0.0055	0.0057	NM	4.25E+00	2.04E+00	120	7	7
5.16753	2.41	763.5	763.7	0.32	0.93	0.0045	0.0027	NM	4.31E+00	2.07E+00	120	7	7
5.23376	2.36	770.8	771	0.31	0.58	0.0042	0.0012	NM	4.36E+00	2.09E+00	120	7	7
5.3024	2.48	775.2	775.4	0.32	0.98	0.0034	0.0049	NM	4.42E+00	2.12E+00	120	7	7
5.37305	2.51	787	787.1	0.32	0.78	0.0021	0.0025	NM	4.48E+00	2.15E+00	120	7	7
5.44169	4.16	797.2	797.3	0.52	0.43	0.0023	0.0011	NM	4.54E+00	2.18E+00	120	7	7
5.51554	4.59	806	806.1	0.57	0.38	0.0032	0.0015	NM	4.60E+00	2.21E+00	120	6	7
5.5886	5.27	788.4	788.5	0.67	0.33	0.0025	0.0014	NM	4.66E+00	2.24E+00	120	8	7
5.66165	5.43	788.4	788.4	0.69	-0.27	0.0027	0.0012	NM	4.72E+00	2.27E+00	120	6	7
5.72989	8.33	765	764.6	0.83	-2.21	0.0027	0.001	NM	4.78E+00	2.29E+00	120	6	7
5.80134	7.7	641.9	641.3	1.2	-2.96	0.0025	0.0019	NM	4.83E+00	2.32E+00	120	6	7
5.86877	8.52	643.4	642.7	1.33	-3.51	0.003	0.0023	NM	4.89E+00	2.35E+00	120	6	7
5.94142	9.24	568.6	567.6	1.63	-5.35	0.0039	0.0046	NM	4.95E+00	2.38E+00	120	6	7
6.01328	8.72	518.8	517.3	1.89	-7.59	0.0047	0.0044	NM	5.01E+00	2.41E+00	120	6	7
6.08312	8.85	469	467.5	1.89	-7.94	0.0055	0.0018	NM	5.07E+00	2.43E+00	120	6	7
6.15256	9.09	403	401.6	2.26	-7.29	0.005	0.0016	NM	5.13E+00	2.46E+00	120	5	6
6.222	8.56	385.5	383.9	2.23	-7.94	0.0045	0.0051	NM	5.19E+00	2.49E+00	120	5	6
6.28984	7.54	381.1	379.5	1.99	-8.29	0.0035	0.0043	NM	5.24E+00	2.52E+00	120	5	6
6.36169	6.13	315.1	313.5	1.96	-8.39	0.0023	0.0013	NM	5.30E+00	2.55E+00	120	5	6
6.43434	4.74	290.2	288.6	1.84	-8.34	0.0029	0.0012	NM	5.36E+00	2.57E+00	120	5	6

6.50378	3.9	258	256.4	1.52	-8.29	0.0023	0.0011	NM	5.42E+00	2.60E+00	120	5	6
6.57363	3.32	241.9	240.3	1.38	-8.14	0.0017	0.0008	NM	5.48E+00	2.63E+00	120	5	6
6.64347	2.25	193.5	191.9	1.17	-8.09	0.0021	0.0016	NM	5.54E+00	2.66E+00	120	5	6
6.71331	1.75	149.5	148.2	1.18	-6.85	0.0019	0.002	NM	5.59E+00	2.69E+00	120	5	6
6.78275	1.57	123.2	122.7	1.28	-2.66	0.0019	0.0013	NM	5.65E+00	2.71E+00	120	5	6
6.8542	1.54	98.3	97.9	1.57	-1.61	0.0023	0.0013	NM	5.71E+00	2.74E+00	120	5	6
6.92485	1.57	79.2	79.3	1.98	0.28	0.0028	0.0013	NM	5.77E+00	2.77E+00	120	4	5
6.98907	1.68	73.3	73.5	2.28	0.93	0.004	0.0011	NM	5.82E+00	2.80E+00	120	4	5
7.06092	1.69	73.3	73.5	2.3	0.63	0.0043	0.0011	NM	5.88E+00	2.82E+00	120	4	5
7.13077	1.69	73.3	73.5	2.3	0.63	0.0028	0.0008	NM	5.94E+00	2.85E+00	120	4	5
7.20141	1.75	74.8	74.9	2.33	0.68	0.0025	0.0003	NM	6.00E+00	2.88E+00	120	4	5
7.27186	1.72	73.3	73.5	2.34	0.73	0.0033	0.0031	NM	6.06E+00	2.91E+00	120	4	5
7.34311	1.72	71.9	72	2.39	0.78	0.0039	0.0056	NM	6.12E+00	2.94E+00	120	4	5
7.41135	1.72	71.9	72	2.39	0.78	0.0038	0.0033	NM	6.18E+00	2.97E+00	120	4	5
7.4852	1.72	71.9	72	2.39	0.88	0.0041	0.0008	NM	6.24E+00	2.99E+00	120	4	5
7.55344	1.89	69	69.1	2.73	0.93	0.0045	0.0008	NM	6.30E+00	3.02E+00	120	4	5
7.62288	2.04	74.8	75	2.72	0.98	0.0043	0.0009	NM	6.35E+00	3.05E+00	120	4	5
7.69393	2.02	110	110.2	1.84	1.18	0.004	0.0008	NM	6.41E+00	3.08E+00	120	5	6
7.76618	1.74	177.4	177.6	0.98	1.08	0.0043	0.0008	NM	6.47E+00	3.11E+00	120	5	6
7.83361	1.47	170.1	170.2	0.87	0.53	0.0058	0.0037	NM	6.53E+00	3.13E+00	120	5	6
7.90547	1.61	146.6	146.7	1.1	0.38	0.0073	0.0036	NM	6.59E+00	3.16E+00	120	5	6
7.97531	1.96	118.8	118.9	1.65	0.63	0.008	0.0024	NM	6.65E+00	3.19E+00	120	5	6
8.04475	2.54	99.7	99.9	2.54	0.98	0.0084	0.0029	NM	6.70E+00	3.22E+00	120	4	5
8.13379	2.92	88.5	88.9	3.36	1.78	0.009	0.0036	NM	6.78E+00	3.25E+00	120	4	5
8.20277	3.92	101.2	101.6	3.86	2.03	0.0093	0.0037	NM	6.84E+00	3.28E+00	120	4	6
8.27094	5.96	266.8	267.2	2.23	2.13	0.0096	0.0038	NM	6.89E+00	3.31E+00	120	5	6
8.34473	7.55	451.4	451.8	1.67	2.13	0.0098	0.0036	NM	6.95E+00	3.34E+00	120	6	6
8.41691	8.9	524.7	524.7	1.7	0.33	0.0097	0.0074	NM	7.01E+00	3.37E+00	120	6	6
8.48468	9.91	596.5	596.5	1.66	-0.02	0.0095	0.0065	NM	7.07E+00	3.39E+00	120	6	7
8.55285	11.08	617	616.9	1.8	-0.37	0.0098	0.0038	NM	7.13E+00	3.42E+00	120	6	7
8.62303	11.49	539.3	539.2	2.13	-0.78	0.0101	0.0038	NM	7.19E+00	3.45E+00	120	5	6
8.6924	11.94	445.5	445.2	2.68	-1.68	0.0099	0.0084	NM	7.24E+00	3.48E+00	120	5	6
8.76539	14.25	395.7	395.3	3.6	-1.98	0.0097	0.0062	NM	7.30E+00	3.51E+00	120	8	8
8.83877	18.92	392.8	392.5	4.82	-1.28	0.0103	0.0035	NM	7.37E+00	3.54E+00	120	9	8
8.90855	19.64	587.7	587.2	3.34	-2.31	0.0108	0.0043	NM	7.42E+00	3.56E+00	120	8	8
8.97872	23.13	362	361.8	6.39	-1.06	0.011	0.0051	NM	7.48E+00	3.59E+00	120	9	8
9.0497	22.91	496.8	496.7	4.61	-0.76	0.0111	0.0059	NM	7.54E+00	3.62E+00	120	9	8
9.11788	30.89	858.8	858.6	3.6	-0.71	0.011	0.0027	NM	7.60E+00	3.65E+00	120	8	7
9.18926	36.58	1374.6	1374.1	2.66	-2.51	0.0116	0.0019	NM	7.66E+00	3.68E+00	120	8	7
9.25983	34.48	1675	1674.1	2.06	-4.15	0.0117	0.0019	NM	7.72E+00	3.70E+00	120	8	7
9.33041	35.83	2397.4	2396.6	1.5	-4.2	0.0122	0.0071	NM	7.78E+00	3.73E+00	120	6	7
9.39818	41.09	2815	2813.5	1.46	-7.54	0.0101	0.0036	NM	7.83E+00	3.76E+00	120	6	7
9.46756	42.42	3077.3	3076.7	1.38	-2.81	0.01	0.0014	NM	7.89E+00	3.79E+00	120	6	7
9.53573	39.85	2902.9	2901.5	1.37	-7.1	0.0102	0.0018	NM	7.95E+00	3.81E+00	120	6	7
9.60591	34.28	2668.4	2667	1.28	-7.84	0.0079	0.001	NM	8.01E+00	3.84E+00	120	6	7
9.67729	29.82	2669.9	2668.4	1.12	-7.94	0.0068	0.0011	NM	8.06E+00	3.87E+00	120	6	7
9.74827	22.72	2536.8	2534.9	0.9	-8.89	0.0068	0.001	NM	8.12E+00	3.90E+00	120	6	7
9.81684	21.17	2517.5	2515.8	0.84	-8.89	0.0065	0.001	NM	8.18E+00	3.93E+00	120	6	7
9.88701	18.66	2542.4	2540.7	0.73	-8.94	0.0051	0.0016	NM	8.24E+00	3.96E+00	120	7	7
9.95599	27.05	2700.7	2699	1	-8.44	0.0053	0.0032	NM	8.30E+00	3.98E+00	120	6	7
10.02496	25.94	2708	2706.4	0.96	-8.44	0.0043	0.0013	NM	8.35E+00	4.01E+00	120	6	7
10.09594	24.79	2646.5	2644.8	0.94	-8.69	0.0041	0.0011	NM	8.41E+00	4.04E+00	120	6	7

10.16652	23.66	2702.2	2700.5	0.88	-8.69	0.0042	0.0013	NM	8.47E+00	4.07E+00	120	6	7
10.23349	22.84	2794.5	2792.8	0.82	-8.54	0.0042	0.0053	NM	8.53E+00	4.09E+00	120	7	7
10.30126	20.29	2921.9	2920.5	0.69	-7.74	0.0041	0.0031	NM	8.58E+00	4.12E+00	120	7	7
10.53625	18.23	3097.8	3097.5	0.59	-1.36	0.0044	0.0012	NM	8.78E+00	4.22E+00	120	7	7
10.60362	12.66	3593.1	3592.7	0.35	-1.71	0.0048	0.0012	NM	8.84E+00	4.24E+00	120	7	7
10.6742	12.29	3736.7	3737.1	0.33	2.43	0.0079	0.0031	NM	8.90E+00	4.27E+00	120	7	7
10.74237	26.21	3346.9	3347	0.78	0.38	0.0081	0.0098	NM	8.95E+00	4.30E+00	120	7	7
10.81538	14.86	3078.7	3078.9	0.48	0.63	0.0062	0.0026	NM	9.01E+00	4.33E+00	120	7	7
10.88313	23.01	3831.9	3832	0.6	0.63	0.0056	0.0015	NM	9.07E+00	4.35E+00	120	7	7
10.95331	46.68	4410.7	4410.8	1.06	0.28	0.004	0.001	NM	9.13E+00	4.38E+00	120	-99	-99
11.02348	70.56	4003.4	4003.4	1.76	-0.07	0.004	0.0012	NM	9.19E+00	4.41E+00	120	8	7
11.09085	93.23	4296.4	4296.3	2.17	-0.61	0.0047	0.0012	NM	9.24E+00	4.44E+00	120	8	7
11.16143	88.28	4297.9	4297.8	2.05	-0.37	0.0046	0.0013	NM	9.30E+00	4.47E+00	120	8	7
11.23161	72.15	3546.2	3546.4	2.03	1.08	0.005	0.0046	NM	9.36E+00	4.49E+00	120	8	7
11.43751	66.99	4067.8	4068.3	1.65	2.23	0.0046	0.0013	NM	9.53E+00	4.58E+00	120	8	7
11.50256	52.57	4034.1	4034.7	1.3	3.02	0.0051	0.0039	NM	9.59E+00	4.60E+00	120	6	7
11.57041	50.59	3376.2	3376.5	1.5	1.78	0.0039	0.0011	NM	9.64E+00	4.63E+00	120	6	7
11.64147	48.09	2650.9	2651.2	1.81	1.88	0.0049	0.0017	NM	9.70E+00	4.66E+00	120	8	7
11.71575	42.59	2196.6	2196.4	1.94	-1.21	0.0059	0.0017	NM	9.76E+00	4.69E+00	120	8	7
11.784	36.01	1998.8	1998.6	1.8	-0.96	0.0061	0.0014	NM	9.82E+00	4.71E+00	120	6	7
11.85226	33.83	1932.9	1932.2	1.75	-3.26	0.0064	0.0055	NM	9.88E+00	4.74E+00	120	6	7
11.92011	23.14	1935.8	1935.5	1.2	-1.66	0.0066	0.0012	NM	9.93E+00	4.77E+00	120	6	7
11.98997	20.37	1921.1	1921.4	1.06	1.63	0.007	0.0017	NM	9.99E+00	4.80E+00	120	6	7
12.05983	18.4	1888	1884.7	0.98	-6.6	0.0068	0.0014	NM	1.01E+01	4.82E+00	120	6	7
12.1333	16.44	1858.1	1857.2	0.89	-4.7	0.0072	0.0019	NM	1.01E+01	4.85E+00	120	6	7
12.20357	14.43	1837.6	1836.5	0.79	-5.6	0.0083	0.0017	NM	1.02E+01	4.88E+00	120	6	7
12.27182	13.14	1809.8	1808.8	0.73	-4.75	0.0089	0.0028	NM	1.02E+01	4.91E+00	120	6	7
12.34048	13.84	1811.2	1810.5	0.76	-3.81	0.0095	0.003	NM	1.03E+01	4.94E+00	120	6	7
12.41074	15.02	1762.9	1762.1	0.85	-4.1	0.0098	0.0051	NM	1.03E+01	4.96E+00	120	6	7
12.47899	15.85	1710.1	1709.5	0.93	-3.16	0.0101	0.0067	NM	1.04E+01	4.99E+00	120	6	7
12.55287	16.75	1644.2	1643.6	1.02	-3.16	0.0103	0.0065	NM	1.05E+01	5.02E+00	120	6	7
12.62313	17.56	1587	1586.4	1.11	-3.36	0.0105	0.0053	NM	1.05E+01	5.05E+00	120	6	7
12.69178	18.52	1524	1523.3	1.22	-3.76	0.0107	0.0063	NM	1.06E+01	5.08E+00	120	6	7
12.76245	19.37	1468.3	1467.5	1.32	-4.15	0.011	0.004	NM	1.06E+01	5.11E+00	120	6	7
12.8319	19.31	1405.3	1404.4	1.37	-4.7	0.0108	0.0027	NM	1.07E+01	5.13E+00	120	6	7
12.89895	18.68	1364.3	1363.4	1.37	-4.55	0.0109	0.0023	NM	1.08E+01	5.16E+00	120	6	7
12.97163	17.2	1355.5	1354.5	1.27	-5	0.0106	0.0031	NM	1.08E+01	5.19E+00	120	6	7
13.04349	15.34	1388.3	1385.3	1.11	-5.1	0.0105	0.0034	NM	1.09E+01	5.22E+00	120	6	7
13.11175	14.82	1409.7	1408.6	1.04	-5.9	0.0108	0.0051	NM	1.09E+01	5.25E+00	120	6	7
13.18201	15.01	1396.5	1395.3	1.08	-6.2	0.0109	0.0038	NM	1.10E+01	5.27E+00	120	6	7
13.25026	15.1	1390.7	1389.4	1.09	-6.4	0.0109	0.0073	NM	1.10E+01	5.30E+00	120	6	7
13.31851	15.79	1400.9	1399.7	1.13	-6.25	0.0111	0.0057	NM	1.11E+01	5.33E+00	120	6	7
13.39078	15.36	1405.3	1404.1	1.09	-6.25	0.0115	0.0037	NM	1.12E+01	5.36E+00	120	6	7
13.45984	15.23	1411.2	1410	1.08	-6.2	0.0113	0.0056	NM	1.12E+01	5.38E+00	120	6	7
13.5289	14.25	1475.7	1474.5	0.97	-6.3	0.0113	0.0047	NM	1.13E+01	5.41E+00	120	6	7
13.59434	15.04	1521.1	1519.8	0.99	-6.55	0.0112	0.0043	NM	1.13E+01	5.44E+00	120	6	7
13.66501	15.95	1477.1	1475.8	1.08	-7.05	0.011	0.0043	NM	1.14E+01	5.47E+00	120	6	7
13.73366	16.76	1468.3	1467	1.14	-7.1	0.0112	0.0036	NM	1.14E+01	5.49E+00	120	6	7
13.80432	17.18	1521.1	1519.8	1.13	-6.85	0.0113	0.0037	NM	1.15E+01	5.52E+00	120	6	7
13.87378	17.07	1584.1	1582.8	1.08	-6.8	0.0115	0.0038	NM	1.16E+01	5.55E+00	120	6	7
13.94404	17.52	1679.3	1678.1	1.04	-6.55	0.0116	0.0039	NM	1.16E+01	5.58E+00	120	6	7
14.0139	18.6	1792.2	1790.9	1.04	-6.6	0.0118	0.0042	NM	1.17E+01	5.61E+00	120	6	7

14.08376	18.41	1877.2	1875.9	0.98	-6.6	0.0123	0.0044	NM	1.17E+01	5.63E+00	120	6	7
14.15242	15.95	1941.6	1940.3	0.82	-6.95	0.0128	0.0042	NM	1.18E+01	5.66E+00	120	6	7
14.22228	13.69	2025.2	2023.9	0.68	-6.8	0.0126	0.0046	NM	1.19E+01	5.69E+00	120	6	7
14.29093	3.6	2138	2136.7	0.17	-6.7	0.0127	0.0052	NM	1.19E+01	5.72E+00	120	7	7
14.36039	12.03	2218.6	2217.3	0.54	-6.7	0.0121	0.0058	NM	1.20E+01	5.74E+00	120	7	7
14.42985	18.84	2243.5	2242.2	0.84	-6.6	0.0109	0.0058	NM	1.20E+01	5.77E+00	120	6	7
14.50092	22.71	2296.3	2295	0.99	-6.4	0.0117	0.0054	NM	1.21E+01	5.80E+00	120	6	7
14.56957	23.68	2349	2347.7	1.01	-6.55	0.0123	0.0055	NM	1.21E+01	5.83E+00	120	6	7
14.66637	20.49	2280.3	2279.7	0.9	-3.32	0.0124	0.0076	NM	1.22E+01	5.87E+00	120	6	7
14.73306	20.16	2270.1	2269.2	0.89	-4.42	0.0128	0.0057	NM	1.23E+01	5.89E+00	120	6	7
14.80137	17.93	2101.5	2100.5	0.85	-5.12	0.0126	0.0054	NM	1.23E+01	5.92E+00	120	6	7
14.86766	18.92	2129.4	2128.3	0.89	-5.41	0.0131	0.0096	NM	1.24E+01	5.95E+00	120	6	7
14.93918	18.5	2083.9	2083.8	0.89	-0.78	0.013	0.0055	NM	1.25E+01	5.98E+00	120	6	7
15.01391	18.26	1573.9	1573.1	1.16	-4.22	0.0132	0.0061	NM	1.25E+01	6.01E+00	120	6	7
15.08422	16.26	1634	1633.3	1	-3.52	0.0133	0.0053	NM	1.26E+01	6.03E+00	120	6	7
15.15132	10.11	1614.9	1614.3	0.63	-2.97	0.014	0.0052	NM	1.26E+01	6.06E+00	120	6	7
15.21962	8.46	1582.7	1582.2	0.53	-2.27	0.0143	0.0061	NM	1.27E+01	6.09E+00	120	6	7
15.28953	6.41	1547.5	1547.1	0.41	-1.97	0.0145	0.0051	NM	1.27E+01	6.12E+00	120	6	7
15.36105	6.38	1518.7	1518.4	0.42	-1.73	0.0145	0.005	NM	1.28E+01	6.14E+00	120	6	7
15.43337	6.32	1505	1504.7	0.42	-1.53	0.0143	0.0071	NM	1.29E+01	6.17E+00	120	6	7
15.50529	6.23	1484.5	1484.3	0.42	-0.98	0.0148	0.0058	NM	1.29E+01	6.20E+00	120	6	7
15.574	6.33	1484.5	1484.3	0.43	-0.93	0.014	0.0048	NM	1.30E+01	6.23E+00	120	6	7
15.64511	6.51	1481.5	1481.4	0.44	-0.48	0.0153	0.0055	NM	1.30E+01	6.26E+00	120	6	7
15.71422	6.58	1490.3	1490.3	0.44	-0.23	0.0158	0.0053	NM	1.31E+01	6.29E+00	120	6	7
15.78413	6.73	1503.5	1503.5	0.45	-0.03	0.0159	0.0056	NM	1.32E+01	6.31E+00	120	6	7
15.85685	6.89	1506.4	1506.5	0.46	0.07	0.0163	0.0059	NM	1.32E+01	6.34E+00	120	6	7
15.92877	7.05	1507.9	1508	0.47	0.32	0.0164	0.0054	NM	1.33E+01	6.37E+00	120	6	7
15.99667	7.17	1519.6	1519.7	0.47	0.47	0.0165	0.007	NM	1.33E+01	6.40E+00	120	6	7
16.06779	6.94	1537.2	1537.3	0.45	0.37	0.0164	0.0104	NM	1.34E+01	6.43E+00	120	6	7
16.33899	15.18	1675	1675.1	0.91	0.42	0.0171	0.0081	NM	1.36E+01	6.54E+00	120	6	7
16.4089	21.67	1777.6	1777.7	1.22	0.47	0.0168	0.0052	NM	1.37E+01	6.56E+00	120	6	7
16.47841	20.31	1913.9	1914	1.06	0.62	0.0168	0.0059	NM	1.37E+01	6.59E+00	120	6	7
16.54792	17.94	2147	2147.1	0.84	0.77	0.0161	0.0062	NM	1.38E+01	6.62E+00	120	6	7
16.61622	16.77	2437.2	2437.2	0.69	0.37	0.0158	0.0087	NM	1.39E+01	6.65E+00	120	6	7
16.68774	20.86	2821.2	2821.2	0.74	0.37	0.0153	0.0054	NM	1.39E+01	6.68E+00	120	6	7
16.75805	28.5	3022	3022.1	0.94	0.72	0.0147	0.0059	NM	1.40E+01	6.70E+00	120	6	7
16.82756	34.61	3127.5	3127.8	1.11	1.52	0.0148	0.0098	NM	1.40E+01	6.73E+00	120	6	7
16.89546	24.7	2878.3	2878.6	0.86	1.22	0.0143	0.0092	NM	1.41E+01	6.76E+00	120	6	7
16.96417	21.35	3052.7	3052.8	0.7	0.22	0.0135	0.0052	NM	1.41E+01	6.79E+00	120	6	7
17.03328	23.88	3046.9	3047.2	0.78	1.52	0.0121	0.0042	NM	1.42E+01	6.81E+00	120	6	7
17.10439	19.97	2547.1	2547.3	0.78	1.22	0.0125	0.0045	NM	1.43E+01	6.84E+00	120	6	7
17.1747	18.63	2739.1	2739.2	0.68	0.32	0.0116	0.0055	NM	1.43E+01	6.87E+00	120	6	7
17.24542	14.85	2929.6	2929.8	0.51	0.82	0.0109	0.0051	NM	1.44E+01	6.90E+00	120	7	7
17.31734	13.25	2308.2	2308.2	0.57	0.27	0.0104	0.0053	NM	1.44E+01	6.93E+00	120	6	7
17.38725	16.83	2255.4	2255.6	0.75	0.87	0.0104	0.0072	NM	1.45E+01	6.96E+00	120	6	7
17.45796	15.26	2214.4	2214.5	0.69	0.82	0.0107	0.0053	NM	1.46E+01	6.98E+00	120	6	7
17.52827	13.61	2217.3	2217.4	0.61	0.72	0.0116	0.0051	NM	1.46E+01	7.01E+00	120	6	7
17.59859	10.66	2160.1	2160.3	0.49	0.77	0.011	0.0051	NM	1.47E+01	7.04E+00	120	6	7
17.6697	10.04	2042.9	2043.1	0.49	0.97	0.011	0.005	NM	1.47E+01	7.07E+00	120	6	7
17.73961	10.18	2018	2018.2	0.5	1.32	0.0103	0.0056	NM	1.48E+01	7.10E+00	120	6	7
17.81113	10.45	1931.5	1931.8	0.54	1.32	0.011	0.0051	NM	1.48E+01	7.12E+00	120	6	7
17.88104	9.45	1852.3	1852.6	0.51	1.12	0.0112	0.0052	NM	1.49E+01	7.15E+00	120	6	7

17.93809	7.78	1708.7	1708.9	0.46	0.82	0.0117	0.0059	NM	1.50E+01	7.18E+00	120	6	7
17.98909	7.39	1751.3	1752	0.42	3.29	0.012	0.0059	NM	1.50E+01	7.20E+00	120	6	7
18.05734	7.9	1771.9	1772.5	0.45	3.34	0.0121	0.0054	NM	1.51E+01	7.22E+00	120	6	7
18.12599	6.56	1771.9	1772.5	0.37	3.24	0.0123	0.0051	NM	1.51E+01	7.25E+00	120	6	7
18.19385	6.56	1843.7	1844.4	0.36	3.44	0.0128	0.0051	NM	1.52E+01	7.28E+00	120	7	7
18.26893	6.39	1856.9	1857.4	0.34	2.39	0.0127	0.005	NM	1.52E+01	7.31E+00	120	7	7
18.34079	6.33	1934.6	1935.1	0.33	2.24	0.0136	0.0048	NM	1.53E+01	7.34E+00	120	7	7
18.41186	6.78	1764.5	1764.8	0.38	1.44	0.0129	0.005	NM	1.53E+01	7.37E+00	120	6	7
18.4781	7.31	1776.3	1776.9	0.41	3.14	0.0124	0.0051	NM	1.54E+01	7.39E+00	120	6	7
18.54837	7.79	1767.5	1768.3	0.44	4.23	0.013	0.0052	NM	1.55E+01	7.42E+00	120	6	7
18.61782	7.19	1757.2	1758.3	0.41	5.78	0.0128	0.0052	NM	1.55E+01	7.45E+00	120	6	7
18.6917	7.51	1742.5	1743.5	0.43	5.08	0.0127	0.0058	NM	1.56E+01	7.48E+00	120	6	7
18.76397	7.76	1730.8	1731.8	0.45	5.08	0.0133	0.006	NM	1.56E+01	7.51E+00	120	6	7
18.83463	8.03	1722	1723.1	0.47	5.63	0.0134	0.007	NM	1.57E+01	7.53E+00	120	6	7
18.90409	8.13	1738.1	1739.2	0.47	5.43	0.0146	0.0056	NM	1.58E+01	7.56E+00	120	6	7
18.97556	8.31	1744	1745.1	0.48	5.88	0.0151	0.0052	NM	1.58E+01	7.59E+00	120	6	7
19.04341	8.43	1752.8	1753.9	0.48	5.53	0.0153	0.0052	NM	1.59E+01	7.62E+00	120	6	7
19.11608	8.71	1770.4	1771.5	0.49	5.73	0.0147	0.0101	NM	1.59E+01	7.65E+00	120	6	7
19.18795	8.95	1782.1	1783.3	0.5	5.93	0.0152	0.0082	NM	1.60E+01	7.68E+00	120	6	7
19.25821	9.11	1789.5	1790.5	0.51	5.48	0.0146	0.0096	NM	1.61E+01	7.70E+00	120	6	7
19.32847	9.08	1792.4	1793.5	0.51	5.53	0.0147	0.0054	NM	1.61E+01	7.73E+00	120	6	7
19.39833	9.28	1796.8	1797.9	0.52	5.58	0.0143	0.0047	NM	1.62E+01	7.76E+00	120	6	7
19.46658	9.29	1805.6	1806.7	0.51	5.58	0.0147	0.0043	NM	1.62E+01	7.79E+00	120	6	7
19.53845	9.18	1808.5	1809.6	0.51	5.53	0.0146	0.0042	NM	1.63E+01	7.82E+00	120	6	7
19.60911	9.03	1814.4	1815.4	0.5	5.28	0.0143	0.0045	NM	1.63E+01	7.84E+00	120	6	7
19.68098	8.99	1812.9	1814	0.5	5.48	0.0138	0.0081	NM	1.64E+01	7.87E+00	120	6	7
19.75084	8.93	1807.1	1808.2	0.49	5.68	0.0137	0.0078	NM	1.65E+01	7.90E+00	120	6	7
19.8203	9.51	1801.2	1802.3	0.53	5.48	0.0139	0.005	NM	1.65E+01	7.93E+00	120	6	7
19.89056	9.65	1785.1	1786.1	0.54	5.38	0.0139	0.0051	NM	1.66E+01	7.96E+00	120	6	7
19.96082	9.54	1749.9	1750.9	0.54	5.48	0.0144	0.0045	NM	1.66E+01	7.98E+00	120	6	7
20.03269	9.17	1716.1	1717.1	0.53	5.08	0.0145	0.0047	NM	1.67E+01	8.01E+00	120	6	7
20.10175	8.94	1669.2	1670.2	0.54	4.88	0.0148	0.0047	NM	1.68E+01	8.04E+00	120	6	7
20.16719	8.58	1619.4	1620.4	0.53	5.13	0.0145	0.0056	NM	1.68E+01	8.07E+00	120	6	7
20.23946	8.4	1557.8	1558.8	0.54	5.13	0.0145	0.0082	NM	1.69E+01	8.10E+00	120	6	7
20.30892	8.23	1496.2	1497.2	0.55	5.18	0.0147	0.0075	NM	1.69E+01	8.12E+00	120	6	7
20.37958	8.23	1443.4	1444.3	0.57	4.93	0.0148	0.0049	NM	1.70E+01	8.15E+00	120	6	7
20.45185	8.12	1414.1	1415	0.57	4.88	0.0142	0.0042	NM	1.70E+01	8.18E+00	120	6	7
20.52211	7.95	1389.1	1390.1	0.57	4.83	0.0141	0.0042	NM	1.71E+01	8.21E+00	120	6	7
20.59278	7.72	1346.6	1347.6	0.57	4.93	0.0143	0.0049	NM	1.72E+01	8.24E+00	120	6	6
20.66464	7.52	1286.5	1287.5	0.58	5.03	0.0138	0.0073	NM	1.72E+01	8.27E+00	120	6	6
20.7345	7.18	1229.3	1230.3	0.58	4.98	0.0131	0.0062	NM	1.73E+01	8.29E+00	120	6	6
20.80557	6.92	1183.8	1184.8	0.58	4.73	0.0135	0.0047	NM	1.73E+01	8.32E+00	120	6	6
20.87663	6.5	1163.3	1164.2	0.56	4.73	0.0142	0.0047	NM	1.74E+01	8.35E+00	120	6	6
20.9481	4.59	1148.6	1149.6	0.4	4.78	0.0139	0.0047	NM	1.75E+01	8.38E+00	120	6	6
21.01715	4.56	1135.4	1136.4	0.4	4.98	0.0142	0.0043	NM	1.75E+01	8.41E+00	120	6	6
21.08902	4.53	1117.8	1118.9	0.4	5.28	0.0139	0.0048	NM	1.76E+01	8.44E+00	120	6	6
21.15848	4.49	1106.1	1107.2	0.41	5.53	0.0137	0.0048	NM	1.76E+01	8.46E+00	120	6	6
21.20425	4.43	974.1	975.1	0.45	4.88	0.0137	0.0047	NM	1.77E+01	8.48E+00	120	6	6
21.28819	4.63	1081.1	1082.4	0.43	6.72	0.0134	0.0068	NM	1.77E+01	8.52E+00	120	6	6
21.35846	4.82	1119.2	1120.5	0.43	6.72	0.0135	0.0069	NM	1.78E+01	8.54E+00	120	6	6
21.42474	5.1	1153	1154.3	0.44	6.97	0.0139	0.0072	NM	1.79E+01	8.57E+00	120	6	6
21.49744	5.39	1172	1173.4	0.46	7.17	0.0144	0.0065	NM	1.79E+01	8.60E+00	120	6	6

21.57174	5.72	1180.9	1182.1	0.48	6.67	0.0149	0.0085	NM	1.80E+01	8.83E+00	120	6	6
21.64242	5.99	1202.8	1204.1	0.5	6.72	0.0147	0.0068	NM	1.80E+01	8.86E+00	120	6	6
21.7107	6.2	1239.5	1240.8	0.5	6.97	0.0149	0.0054	NM	1.81E+01	8.88E+00	120	6	6
21.78058	6.49	1289.4	1290.7	0.5	7.17	0.0153	0.0055	NM	1.82E+01	8.71E+00	120	6	6
21.84966	6.81	1334.8	1336.2	0.51	7.12	0.018	0.0053	NM	1.82E+01	8.74E+00	120	6	6
21.92316	7.49	1386.2	1387.6	0.54	7.17	0.0165	0.0058	NM	1.83E+01	8.77E+00	120	6	6
21.99625	7.82	1439	1440.4	0.54	7.32	0.0161	0.006	NM	1.83E+01	8.80E+00	120	6	6
22.06694	7.97	1494.7	1496.2	0.53	7.47	0.0157	0.0056	NM	1.84E+01	8.83E+00	120	6	7
22.13722	7.96	1569.5	1571	0.51	7.52	0	0	NM	1.85E+01	8.86E+00	120	6	7
22.20751	8.23	1675.1	1676.5	0.49	6.87	0	0	NM	1.85E+01	8.88E+00	120	6	7
22.27739	8.63	1774.9	1775.8	0.49	4.67	0	0	NM	1.86E+01	8.91E+00	120	6	7
22.34808	9.6	1851.1	1851.4	0.52	1.53	0	0	NM	1.86E+01	8.94E+00	120	6	7
22.42198	11.31	1928.9	1929.3	0.59	1.98	0	0	NM	1.87E+01	8.97E+00	120	6	7
22.49287	11.74	2033	2033.7	0.58	3.37	0	0	NM	1.87E+01	9.00E+00	120	6	7
22.56215	12.97	2157.7	2158.7	0.6	5.07	0	0	NM	1.88E+01	9.03E+00	120	6	7
22.63404	12.95	2326.4	2327.7	0.56	7.02	0	0	NM	1.89E+01	9.05E+00	120	6	7
22.70272	14.02	2506.8	2508.3	0.56	7.96	0	0	NM	1.89E+01	9.08E+00	120	6	7
22.77702	15.66	2725.3	2727.2	0.57	9.71	0	0	NM	1.90E+01	9.11E+00	120	6	7
22.84811	16.76	2872	2873.4	0.56	7.27	0	0	NM	1.90E+01	9.14E+00	120	6	7
22.9196	17.35	3099.4	3101.2	0.56	9.41	0	0	NM	1.91E+01	9.17E+00	120	6	7
22.98787	20.22	3376.6	3377.8	0.6	6.27	0	0	NM	1.92E+01	9.20E+00	120	6	7
23.06017	21.34	3546.8	3546.9	0.6	0.78	0	0	NM	1.92E+01	9.22E+00	120	6	7
23.12925	20.81	3626	3625.8	0.57	-0.57	0	0	NM	1.93E+01	9.25E+00	120	7	7
23.19792	23.99	3752.1	3751.9	0.64	-1.27	0	0	NM	1.93E+01	9.28E+00	120	6	7
23.26981	27.49	3903.2	3902.8	0.7	-1.77	0	0	NM	1.94E+01	9.31E+00	120	6	7
23.3409	26.1	4198	4197.6	0.62	-1.92	0	0	NM	1.95E+01	9.34E+00	120	7	7
23.40757	24.96	4363.7	4362.8	0.57	-4.76	0	0	NM	1.95E+01	9.36E+00	120	7	7
23.47745	23.18	4642.4	4640.9	0.5	-8	0	0	NM	1.96E+01	9.39E+00	120	7	7
23.54573	20.87	4753.9	4752.1	0.44	-9.25	0	0	NM	1.96E+01	9.42E+00	120	7	7
23.61561	20.03	4775.9	4774.1	0.42	-9.35	0	0	NM	1.97E+01	9.45E+00	120	7	7
23.6863	21.74	4705.5	4704	0.46	-7.6	0	0	NM	1.97E+01	9.48E+00	120	7	7
23.75739	24.97	4649.8	4648.6	0.54	-6.31	0	0	NM	1.98E+01	9.50E+00	120	7	7
23.82687	23.89	4585.2	4584	0.52	-6.31	0	0	NM	1.99E+01	9.53E+00	120	7	7
23.90037	22.05	4423.9	4422.5	0.5	-7.16	0	0	NM	1.99E+01	9.56E+00	120	7	7
23.96864	22.96	4371.1	4369.5	0.53	-8.1	0	0	NM	2.00E+01	9.59E+00	120	7	7
24.03812	21.01	4167.2	4165.7	0.5	-7.65	0	0	NM	2.00E+01	9.62E+00	120	7	7
24.11082	17.28	3925.2	3923.9	0.44	-6.76	0	0	NM	2.01E+01	9.64E+00	120	7	7
24.1811	0	3815.2	3813.7	0	-7.7	0	0	NM	2.02E+01	9.67E+00	120	-99	7
24.25058	0	3793.2	3791.8	0	-7.21	0	0	NM	2.02E+01	9.70E+00	120	-99	7
24.32167	0	3595.2	3594	0	-5.96	0	0	NM	2.03E+01	9.73E+00	120	-99	7
24.39115	0	3545.3	3544.1	0	-6.31	0	0	NM	2.03E+01	9.76E+00	120	-99	7
24.46104	0	3499.8	3498.6	0	-6.21	0	0	NM	2.04E+01	9.78E+00	120	-99	7

Electric Cone Penetrometer Data

Cone_TAP v 2.90

Test Id: HD-18 Date: 3-Nov-03

Site: SUNNYSIDE Cone Id: 108.034XXX

Location: QUEENS NY

Project: ROUX Soil Density(pcf): 120

Client: ROUX

Depth (ft)	Sleeve Stress (psi)	Tip Stress UNC (psi)	Tip Stress COR (psi)	Ratio COR (%)	Pore Pressure (psi)	LFFD (V)	HFFD (V)	Excitation (Vdc)	Overburden (psi)	Eff. Overburden (psi)	Wet Density (pcf)	Class. FR (Rob. 1990)	Class. PP (Rob. 1990)
0	0	0	0	0	0	0	0	NM	0.00E+00	0.00E+00	120	-99	-99
0.16227	0	1.8	1.9	0	0.17	0.1584	0.0543	NM	1.35E-01	6.49E-02	120	-99	5
0.22518	0	1.8	1.9	0	0.17	0.1593	0.0542	NM	1.88E-01	9.01E-02	120	-99	5
0.28527	0.01	3.3	3.3	0.25	0.17	0.1609	0.0537	NM	2.38E-01	1.14E-01	120	5	5
0.34578	0.01	1.8	1.9	0.45	0.12	0.1636	0.0539	NM	2.88E-01	1.38E-01	120	5	4
0.40988	0.05	12.1	12.2	0.43	0.17	0.1439	0.0494	NM	3.42E-01	1.64E-01	120	6	6
0.47199	0.09	32.7	32.7	0.28	0.17	0.1231	0.045	NM	3.93E-01	1.89E-01	120	6	7
0.53289	0.18	37.1	37.1	0.49	0.17	0.1218	0.0451	NM	4.44E-01	2.13E-01	120	6	7
0.59259	0.3	41.5	41.5	0.71	0.12	0.122	0.0447	NM	4.94E-01	2.37E-01	120	6	7
0.65309	0.38	51.8	51.8	0.73	0.17	0.1148	0.0421	NM	5.44E-01	2.61E-01	120	6	7
0.71279	0.4	54.7	54.8	0.74	0.17	0.107	0.0396	NM	5.94E-01	2.85E-01	120	6	7
0.77489	0.43	68	68	0.64	0.17	0.1037	0.0379	NM	6.46E-01	3.10E-01	120	6	7
0.83699	0.62	72.4	72.4	0.86	0.17	0.1012	0.0376	NM	6.98E-01	3.35E-01	120	6	7
0.9007	1.08	85.6	85.6	1.26	0.17	0.0995	0.0377	NM	7.51E-01	3.60E-01	120	6	7
0.9644	1.72	131.2	131.2	1.31	0.17	0.1007	0.0379	NM	8.04E-01	3.86E-01	120	6	7
1.02931	2.76	209.1	209.1	1.32	0.17	0.1053	0.0384	NM	8.58E-01	4.12E-01	120	6	7
1.09262	4.08	297.2	297.3	1.37	0.17	0.1068	0.0392	NM	9.11E-01	4.37E-01	120	6	7
1.15432	5.26	416.3	416.3	1.26	0.17	0.1058	0.0389	NM	9.62E-01	4.62E-01	120	6	7
1.21682	5.77	551.5	551.5	1.05	0.17	0.1088	0.039	NM	1.01E+00	4.87E-01	120	-99	-99
1.28414	5.74	697	697	0.82	0.17	0.1086	0.0391	NM	1.07E+00	5.14E-01	120	-99	-99
1.34584	5.84	802.8	802.9	0.7	0.32	0.1086	0.0392	NM	1.12E+00	5.38E-01	120	-99	-99
1.41235	5.82	898.3	898.4	0.65	0.32	0.1071	0.0393	NM	1.18E+00	5.65E-01	120	-99	-99
1.47445	6.04	942.4	942.5	0.65	0.32	0.1023	0.0382	NM	1.23E+00	5.90E-01	120	-99	-99
1.53576	7.82	1023.3	1023.3	0.76	0.32	0.0971	0.0378	NM	1.28E+00	6.14E-01	120	-99	-99
1.59626	7.23	1079.1	1079.2	0.67	0.22	0.0952	0.0368	NM	1.33E+00	6.39E-01	120	-99	-99
1.65878	7.28	1261.4	1261.4	0.58	0.27	0.0953	0.0368	NM	1.38E+00	6.64E-01	120	-99	-99
1.74978	7.69	1528.8	1529	0.5	0.74	0.0961	0.0364	NM	1.46E+00	7.00E-01	120	-99	-99
1.80954	7.55	1181.8	1182	0.64	0.64	0.0949	0.0365	NM	1.51E+00	7.24E-01	120	-99	-99
1.86889	8.01	1308.3	1308.4	0.61	0.74	0.0982	0.0382	NM	1.56E+00	7.48E-01	120	-99	-99
1.93185	9.05	1565.6	1565.7	0.58	0.74	0.1053	0.0376	NM	1.61E+00	7.73E-01	120	-99	-99
1.99843	9.36	1648	1648.1	0.57	0.74	0.1098	0.0387	NM	1.67E+00	7.99E-01	120	-99	-99
2.06139	9.67	1706.8	1706.9	0.57	0.74	0.0971	0.0315	NM	1.72E+00	8.25E-01	120	-99	-99
2.12035	10.67	1690.6	1690.7	0.63	0.74	0.074	0.0158	NM	1.77E+00	8.48E-01	120	-99	-99
2.18171	11.43	1623	1623	0.7	0.29	0.0564	0.0105	NM	1.82E+00	8.73E-01	120	-99	-99
2.24467	12.08	1393.6	1393.7	0.87	0.94	0.0501	0.0048	NM	1.87E+00	8.98E-01	120	-99	-99
2.30483	10.97	1289.2	1289.2	0.85	0.29	0.0508	0.0025	NM	1.92E+00	9.22E-01	120	-99	-99
2.3686	9.56	1320	1320.1	0.72	0.34	0.0578	0.0018	NM	1.97E+00	9.47E-01	120	-99	-99
2.43357	8.69	1340.6	1340.7	0.65	0.49	0.0589	0.0021	NM	2.03E+00	9.73E-01	120	-99	-99
2.49734	8.13	1212.7	1212.8	0.67	0.29	0.0677	0.002	NM	2.08E+00	9.99E-01	120	-99	-99

2.55869	8.53	1130.4	1130.4	0.75	0.34	0.0713	0.0034	NM	2.13E+00	1.02E+00	120	-99	-99
2.62046	8.21	1040.7	1040.7	0.79	0.39	0.0751	0.005	NM	2.18E+00	1.05E+00	120	7	7
2.68302	6.92	926	926.1	0.75	0.44	0.0789	0.0065	NM	2.24E+00	1.07E+00	120	7	7
2.74398	5.3	745.1	745.2	0.71	0.49	0.0825	0.0079	NM	2.29E+00	1.10E+00	120	7	7
2.80775	3.93	670.1	670.2	0.59	0.44	0.0812	0.0072	NM	2.34E+00	1.12E+00	120	7	7
2.87312	3.25	423.1	423.2	0.77	0.44	0.0783	0.0053	NM	2.39E+00	1.15E+00	120	6	7
2.93568	2.98	345.2	345.2	0.86	0.44	0.0814	0.0054	NM	2.45E+00	1.17E+00	120	6	7
2.99884	2.59	292.2	292.3	0.88	0.44	0.0586	0.0039	NM	2.50E+00	1.20E+00	120	6	7
3.05841	1.73	211.3	211.4	0.82	0.34	0.0533	0.0022	NM	2.55E+00	1.22E+00	120	6	7
3.12137	1.11	171.6	171.7	0.65	0.39	0.0515	0.0022	NM	2.60E+00	1.25E+00	120	6	6
3.18193	1.22	148.1	148.2	0.83	0.39	0.0502	0.0013	NM	2.65E+00	1.27E+00	120	6	6
3.2485	1.25	142.2	142.3	0.88	0.29	0.0527	0.0015	NM	2.71E+00	1.30E+00	120	6	6
3.31027	1.14	118.7	118.8	0.96	0.39	0.0529	0.0017	NM	2.76E+00	1.32E+00	120	6	6
3.37243	1.05	117.2	117.3	0.9	0.44	0.0551	0.0038	NM	2.81E+00	1.35E+00	120	6	6
3.43379	1.04	126.1	126.1	0.83	0.34	0.0578	0.0059	NM	2.86E+00	1.37E+00	120	6	6
3.49756	1.51	114.3	114.4	1.32	0.39	0.0606	0.0084	NM	2.92E+00	1.40E+00	120	5	6
3.55892	1.89	96.7	96.7	1.96	0.34	0.0713	0.0194	NM	2.97E+00	1.42E+00	120	5	6
3.62028	1.85	90.8	90.8	2.04	0.34	0.0854	0.0348	NM	3.02E+00	1.45E+00	120	5	6
3.68525	1.95	139.3	139.4	1.4	0.54	0.0848	0.0348	NM	3.07E+00	1.47E+00	120	5	6
3.74741	2.44	267.2	267.3	0.91	0.64	0.0852	0.0349	NM	3.12E+00	1.50E+00	120	6	7
3.80757	6.02	648.1	648.2	0.93	0.69	0.0857	0.0348	NM	3.17E+00	1.52E+00	120	6	7
3.86532	6.22	1173	1173.2	0.53	0.84	0.0857	0.0348	NM	3.22E+00	1.55E+00	120	7	7
3.92668	5.56	1587.7	1587.7	0.35	0.24	0.0857	0.035	NM	3.27E+00	1.57E+00	120	-99	-99
3.98844	6.02	1711.2	1711.3	0.35	0.44	0.0859	0.0348	NM	3.32E+00	1.60E+00	120	-99	-99
4.0494	6.92	1780.3	1780.4	0.39	0.54	0.0861	0.035	NM	3.38E+00	1.62E+00	120	-99	-99
4.11317	7.48	1771.5	1771.6	0.42	0.64	0.0866	0.035	NM	3.43E+00	1.65E+00	120	-99	-99
4.17533	8.32	1809.7	1809.9	0.46	0.94	0.0861	0.035	NM	3.48E+00	1.67E+00	120	-99	-99
4.2395	9.16	1947.9	1948	0.47	0.44	0.092	0.0364	NM	3.53E+00	1.70E+00	120	-99	-99
4.30046	9.95	2150.8	2150.9	0.46	0.29	0.0919	0.0355	NM	3.58E+00	1.72E+00	120	-99	-99
4.36262	13.03	2344.9	2345	0.56	0.19	0.0971	0.0371	NM	3.64E+00	1.75E+00	120	-99	-99
4.42358	13.96	2636.1	2636.2	0.53	0.89	0.0935	0.0363	NM	3.69E+00	1.77E+00	120	-99	-99
4.48494	12.93	2894.9	2895.1	0.45	1.09	0.0919	0.0356	NM	3.74E+00	1.79E+00	120	-99	-99
4.54871	13.18	3112.5	3112.5	0.42	0.09	0.0912	0.0355	NM	3.79E+00	1.82E+00	120	-99	-99
4.60967	14.02	3244.8	3244.7	0.43	-0.51	0.091	0.0356	NM	3.84E+00	1.84E+00	120	-99	-99
4.67183	14.87	3288.9	3288.8	0.45	-0.66	0.0672	0.0265	NM	3.89E+00	1.87E+00	120	-99	-99
4.736	15.75	3256.6	3256.6	0.48	0.19	0.0264	0.0101	NM	3.95E+00	1.89E+00	120	-99	-99
4.79656	16.28	3294.8	3294.9	0.49	0.39	0.0201	0.0042	NM	4.00E+00	1.92E+00	120	-99	-99
4.85832	16.49	3362.5	3362.4	0.49	-0.21	0.0201	0.0017	NM	4.05E+00	1.94E+00	120	-99	-99
5.11308	22.58	3253	3253.4	0.69	2.11	0.0186	0.0006	NM	4.26E+00	2.05E+00	120	-99	-99
5.17287	21.58	3266.2	3266.5	0.66	1.81	0.0179	0.0006	NM	4.31E+00	2.07E+00	120	-99	-99
5.23907	20.23	3288.2	3288.4	0.62	1.16	0.0147	0.0004	NM	4.37E+00	2.10E+00	120	-99	-99
5.30809	18.47	3253	3253.3	0.57	1.71	0.019	0.0021	NM	4.42E+00	2.12E+00	120	-99	-99
5.37269	17.15	3261.8	3262	0.53	0.96	0.0143	0.0005	NM	4.48E+00	2.15E+00	120	-99	-99
5.43327	17.47	3159	3159.2	0.55	1.21	0.0173	0.0016	NM	4.53E+00	2.17E+00	120	-99	-99
5.49707	17.81	3178.1	3178.3	0.56	1.01	0.0129	0.0009	NM	4.58E+00	2.20E+00	120	-99	-99
5.56087	18.13	3233.9	3234	0.56	0.56	0.0071	0.0007	NM	4.63E+00	2.22E+00	120	-99	-99
5.62587	18.1	3208.9	3209.2	0.56	1.46	0.0044	0.0012	NM	4.69E+00	2.25E+00	120	-99	-99
5.69207	19.3	3167.8	3168	0.61	1.16	0.0026	0.0009	NM	4.74E+00	2.28E+00	120	-99	-99
5.90433	23.08	2692	2692	0.86	0.16	0.0046	0.0005	NM	4.92E+00	2.36E+00	120	-99	-99
5.96813	23.75	2524.5	2524.8	0.94	0.21	0.0058	0.0004	NM	4.97E+00	2.39E+00	120	-99	-99
6.03112	21.44	2556.9	2557	0.84	0.76	0.007	0.0002	NM	5.03E+00	2.41E+00	120	-99	-99
6.09613	20.77	2377.7	2378.1	0.87	2.21	0.0062	0.0002	NM	5.08E+00	2.44E+00	120	7	7

6.16394	18.91	2365.9	2365.9	0.8	-0.09	0.0064	0.0005	NM	5.14E+00	2.47E+00	120	7	7
6.22894	16.05	1972.3	1972.6	0.81	1.11	0.0076	0.001	NM	5.19E+00	2.49E+00	120	7	7
6.29233	15.4	1713.9	1714.1	0.9	1.21	0.0085	0.0009	NM	5.24E+00	2.52E+00	120	6	7
6.35733	15.01	1809.3	1809.3	0.83	0.06	0.0113	0.0008	NM	5.30E+00	2.54E+00	120	7	7
6.42153	14.5	1409.9	1410.2	1.03	1.46	0.0163	0.0006	NM	5.35E+00	2.57E+00	120	6	7
6.48853	14.03	1258.6	1259.4	1.11	4.26	0.0197	0.0004	NM	5.41E+00	2.60E+00	120	6	7
6.55354	14.67	1144.1	1144.6	1.28	2.96	0.0186	0.0007	NM	5.46E+00	2.62E+00	120	6	7
6.62095	11.97	1102.9	1103.3	1.09	1.71	0.0142	0.0014	NM	5.52E+00	2.65E+00	120	6	7
6.68595	10.54	934	934.4	1.13	1.86	0.0086	0.0003	NM	5.57E+00	2.67E+00	120	6	7
6.75055	10.49	938.5	938.7	1.12	1.36	0.0068	0.0011	NM	5.63E+00	2.70E+00	120	6	7
6.81515	10.41	994.3	994.4	1.05	0.61	0.0083	0.0013	NM	5.68E+00	2.73E+00	120	6	7
6.88015	9.97	947.3	947.7	1.05	2.06	0.0085	0.0013	NM	5.73E+00	2.75E+00	120	6	7
6.94716	7.15	935.5	935.7	0.76	1.16	0.0059	0.0008	NM	5.79E+00	2.78E+00	120	6	7
7.01457	6.84	860.6	860.8	0.79	1.11	0.0042	0.0011	NM	5.85E+00	2.81E+00	120	6	7
7.08078	6.68	743.1	743.6	0.9	2.56	0.0041	0.0013	NM	5.90E+00	2.83E+00	120	6	7
7.14417	6.24	659.4	659.7	0.95	1.36	0.0027	0.0015	NM	5.95E+00	2.86E+00	120	6	7
7.20917	7.09	533.1	533.5	1.33	2.06	0.0029	0.0007	NM	6.01E+00	2.88E+00	120	6	7
7.27498	7.31	427.4	427.7	1.71	1.71	0.0022	0.0005	NM	6.06E+00	2.91E+00	120	6	6
7.34078	5.72	343.7	344.1	1.66	2.06	0.0017	0.0012	NM	6.12E+00	2.94E+00	120	5	6
7.40939	6.08	301.1	301.6	2.02	2.51	0.002	0.0015	NM	6.17E+00	2.96E+00	120	5	6
7.47881	5.34	299.6	300.2	1.78	3.16	0.002	0.0016	NM	6.23E+00	2.99E+00	120	5	6
7.54541	5.05	362.8	363.6	1.39	4.41	0.0025	0.001	NM	6.29E+00	3.02E+00	120	6	6
7.61684	5.02	468.5	469.5	1.07	5.3	0.0035	0.0012	NM	6.35E+00	3.05E+00	120	6	6
7.68344	4.9	503.7	504.6	0.97	4.36	0.0039	0.0017	NM	6.40E+00	3.07E+00	120	6	6
7.75326	4.65	480.2	480.8	0.97	2.96	0.0039	0.0014	NM	6.46E+00	3.10E+00	120	6	6
7.82227	4.44	471.4	471.9	0.94	2.46	0.0035	0.0011	NM	6.52E+00	3.13E+00	120	6	6
7.88968	4.11	505.2	505.7	0.81	2.51	0.0035	0.0008	NM	6.58E+00	3.16E+00	120	6	6
7.9591	3.76	531.6	532.1	0.71	2.51	0.0034	0.0005	NM	6.63E+00	3.18E+00	120	6	6
8.02891	3.42	515.5	515.9	0.66	2.21	0.0031	0.0003	NM	6.69E+00	3.21E+00	120	6	6
8.09752	3.11	489.1	489.4	0.63	1.86	0.0034	0.0005	NM	6.75E+00	3.24E+00	120	6	6
8.16212	2.9	506.7	507.1	0.57	1.96	0.0032	0.0009	NM	6.80E+00	3.27E+00	120	6	6
8.41972	3.39	691.7	692.3	0.49	2.76	0.0024	0.0016	NM	7.02E+00	3.37E+00	120	6	7
8.48994	3.54	719.6	720.2	0.49	2.81	0.0022	0.0013	NM	7.08E+00	3.40E+00	120	6	7
8.56297	3.51	722.6	723.1	0.49	2.96	0.0024	0.0004	NM	7.14E+00	3.43E+00	120	6	7
8.62997	3.3	706.4	707	0.47	3.06	0.0018	0.0001	NM	7.19E+00	3.45E+00	120	6	7
8.69698	4.1	663.8	664.4	0.62	3.01	0.0013	0.0004	NM	7.25E+00	3.48E+00	120	6	7
8.76399	4.58	602.1	602.7	0.76	2.96	0	0.0013	NM	7.30E+00	3.51E+00	120	6	7
8.833	4.48	525.8	526.3	0.85	2.91	0.0003	0.0006	NM	7.36E+00	3.53E+00	120	6	6
8.90322	4.39	442.1	442.6	0.99	3.01	0.0012	0.0013	NM	7.42E+00	3.56E+00	120	6	6
8.97665	3.81	386.3	386.9	0.99	3.21	0.0002	0.0008	NM	7.48E+00	3.59E+00	120	6	6
9.04526	4.3	364.2	365.1	1.18	4.55	0.0033	0.0012	NM	7.54E+00	3.62E+00	120	6	6
9.11347	3.85	445	446	0.86	5.05	0.0094	0.0007	NM	7.60E+00	3.65E+00	120	6	6
9.18068	3.93	531.6	532.5	0.74	4.31	0.0107	0.0003	NM	7.65E+00	3.67E+00	120	6	6
9.25069	4.23	549.3	549.9	0.77	3.26	0.0105	0.0003	NM	7.71E+00	3.70E+00	120	6	6
9.31971	4.79	502.3	502.7	0.95	2.41	0.0104	0.0008	NM	7.77E+00	3.73E+00	120	6	6
9.39273	6.29	420	420.5	1.5	2.56	0.0097	0.0012	NM	7.83E+00	3.76E+00	120	6	6
9.46175	4.96	361.3	361.9	1.37	3.06	0.01	0.0012	NM	7.89E+00	3.79E+00	120	6	6
9.52996	5.89	361.3	362	1.57	3.71	0.0099	0.0014	NM	7.94E+00	3.81E+00	120	5	6
9.59897	4.89	368.8	369.4	1.32	3.96	0.0096	0.0014	NM	8.00E+00	3.84E+00	120	6	6
9.66678	5.35	356.9	357.7	1.5	4.11	0.01	0.0009	NM	8.06E+00	3.87E+00	120	5	6
9.7354	5.51	318.7	319.3	1.73	2.91	0.0103	0.0007	NM	8.11E+00	3.89E+00	120	5	6
9.80682	5.35	321.6	321.9	1.66	1.01	0.0106	0.0009	NM	8.17E+00	3.92E+00	120	5	6

9.87703	5.04	308.4	308.6	1.63	0.96	0.0115	0.0007	NM	8.23E+00	3.95E+00	120	5	6
9.94404	4.58	302.6	302.7	1.51	0.61	0.0124	0.0003	NM	8.29E+00	3.98E+00	120	5	6
10.01506	4.32	286.4	286.5	1.51	0.31	0.015	0.0006	NM	8.35E+00	4.01E+00	120	5	6
10.08367	4.17	255.6	255.5	1.63	-0.04	0.0272	0.0012	NM	8.40E+00	4.03E+00	120	5	6
10.15228	4.49	217.4	217.2	2.07	-0.89	0.0542	0.002	NM	8.46E+00	4.06E+00	120	5	6
10.22291	4.23	186.5	186.3	2.27	-1.34	0.0596	0.0029	NM	8.52E+00	4.09E+00	120	5	6
10.29272	4.18	163	162.8	2.57	-1.09	0.0717	0.0156	NM	8.58E+00	4.12E+00	120	4	6
10.36093	4.23	139.5	139.4	3.03	-0.89	0.0738	0.0181	NM	8.63E+00	4.14E+00	120	4	6
10.42553	4.11	120.4	120.3	3.42	-0.59	0.0568	0.0171	NM	8.69E+00	4.17E+00	120	4	5
10.49454	3.63	108.7	108.7	3.34	0.11	0.0565	0.0077	NM	8.75E+00	4.20E+00	120	4	5
10.56276	3.42	108.7	108.8	3.14	0.61	0.0602	0.0034	NM	8.80E+00	4.23E+00	120	4	5
10.63338	3.18	113.1	113.2	2.8	0.61	0.059	0.0019	NM	8.86E+00	4.25E+00	120	4	5
10.70319	3.41	116	116.2	2.94	0.66	0.0564	0.0018	NM	8.92E+00	4.28E+00	120	4	5
10.77301	3.08	121.9	122	2.53	0.66	0.0552	0.0016	NM	8.98E+00	4.31E+00	120	4	5
10.84202	2.93	113.1	113.2	2.59	0.61	0.0548	0.0013	NM	9.04E+00	4.34E+00	120	4	5
10.91184	2.88	107.2	107.4	2.68	0.76	0.0547	0.0017	NM	9.09E+00	4.37E+00	120	4	5
10.98045	3.27	113.1	113.3	2.88	0.96	0.0545	0.0018	NM	9.15E+00	4.39E+00	120	4	5
11.04986	3.35	124.8	125.1	2.68	1.56	0.0729	0.0144	NM	9.21E+00	4.42E+00	120	4	5
11.11968	2.06	127.8	128	1.61	1.36	0.0799	0.0233	NM	9.27E+00	4.45E+00	120	5	5
11.1891	3.37	101.4	102.3	3.3	5.05	0.0764	0.0224	NM	9.32E+00	4.48E+00	120	4	5
11.25771	3.49	92.5	93.6	3.73	5.45	0.0764	0.0214	NM	9.38E+00	4.50E+00	120	3	5
11.32752	3.73	77.8	79.2	4.71	6.8	0.0802	0.0258	NM	9.44E+00	4.53E+00	120	3	5
11.39574	3.88	70.5	72.5	5.36	10.15	0.0868	0.0319	NM	9.50E+00	4.56E+00	120	3	4
11.44027	4.02	42.6	45.3	8.86	13.9	0.0903	0.0347	NM	9.53E+00	4.58E+00	120	3	3
11.5181	4.05	67.6	70.7	5.73	16.35	0.0881	0.0342	NM	9.60E+00	4.61E+00	120	3	4
11.58669	4.11	69	72.5	5.68	17.7	0.0855	0.0339	NM	9.66E+00	4.64E+00	120	3	4
11.65569	4.29	67.6	70.9	6.05	17.45	0.0878	0.0353	NM	9.71E+00	4.66E+00	120	3	4
11.7295	4.69	70.5	73.8	6.36	16.8	0.0754	0.0193	NM	9.78E+00	4.69E+00	120	3	4
11.7981	4.66	69	72.2	6.46	16.5	0.0786	0.0201	NM	9.83E+00	4.72E+00	120	3	4
11.86629	4.82	73.4	76.6	6.29	16.5	0.0864	0.0356	NM	9.89E+00	4.75E+00	120	3	4
11.93408	5.14	86.7	89.7	5.73	16	0.0871	0.0377	NM	9.95E+00	4.77E+00	120	3	4
12.00549	5.26	102.8	105.4	4.99	13.55	0.0915	0.0381	NM	1.00E+01	4.80E+00	120	3	5
12.07569	5.29	117.5	119.6	4.42	11.05	0.0901	0.0385	NM	1.01E+01	4.83E+00	120	3	5
12.1499	4.98	146.9	148.7	3.34	9.3	0.0882	0.0381	NM	1.01E+01	4.86E+00	120	4	5
12.22371	5.18	186.5	187.9	2.78	7.1	0.0907	0.0377	NM	1.02E+01	4.89E+00	120	4	6
12.29432	4.58	229.1	229.9	1.99	4.31	0.0893	0.037	NM	1.03E+01	4.92E+00	120	5	6
12.36532	4.15	289.3	289.6	1.43	1.61	0.0868	0.0352	NM	1.03E+01	4.95E+00	120	5	6
12.43752	8.06	436.2	436.3	1.85	0.76	0.0867	0.0351	NM	1.04E+01	4.98E+00	120	5	6
12.50772	7.73	580.1	580.2	1.33	0.66	0.0865	0.0349	NM	1.04E+01	5.00E+00	120	6	6
12.58354	5.52	666.8	666.9	0.83	0.91	0.0866	0.0345	NM	1.05E+01	5.03E+00	120	6	6
12.65815	5.31	682.9	683.1	0.78	0.86	0.0862	0.0344	NM	1.06E+01	5.06E+00	120	6	6
12.72715	5.3	624.2	624.6	0.85	2.01	0.0866	0.0343	NM	1.06E+01	5.09E+00	120	6	6
12.79856	6.12	440.6	441	1.39	2.21	0.0869	0.0342	NM	1.07E+01	5.12E+00	120	6	6
12.87036	6.13	465.6	466.3	1.31	3.86	0.0868	0.0341	NM	1.07E+01	5.15E+00	120	6	6
12.94096	5.78	489.1	489.7	1.18	3.21	0.0869	0.0342	NM	1.08E+01	5.18E+00	120	6	6
13.01638	5.64	518.4	518.8	1.09	1.81	0.0786	0.0253	NM	1.09E+01	5.21E+00	120	6	6
13.08778	5.53	483.2	483.9	1.14	3.66	0.079	0.0245	NM	1.09E+01	5.24E+00	120	6	6
13.15838	6.19	522.8	523.4	1.18	2.91	0.0895	0.0341	NM	1.10E+01	5.26E+00	120	6	6
13.23139	6.23	657.9	657.9	0.95	-0.09	0.0892	0.032	NM	1.10E+01	5.29E+00	120	6	6
13.304	5.75	758.3	758	0.76	-1.64	0.0788	0.0209	NM	1.11E+01	5.32E+00	120	6	6
13.373	6.11	832.7	832.4	0.73	-1.44	0.0644	0.0088	NM	1.11E+01	5.35E+00	120	6	6
13.44761	13.93	835.7	835.3	1.67	-1.59	0.0537	0.0036	NM	1.12E+01	5.38E+00	120	6	6

13.52022	12.61	787.2	787	1.6	-0.99	0.0441	0.0021	NM	1.13E+01	5.41E+00	120	6	6
13.58042	9.02	821	820.8	1.1	-0.99	0.0365	0.0019	NM	1.13E+01	5.44E+00	120	6	6
13.65902	7.02	951.7	951.5	0.74	-1.09	0.0278	0.0015	NM	1.14E+01	5.46E+00	120	6	7
13.73042	6.57	910.6	910.4	0.72	-0.59	0.0265	0.0018	NM	1.14E+01	5.49E+00	120	6	6
13.80142	7.97	869.4	869.5	0.92	0.41	0.0212	0.0013	NM	1.15E+01	5.52E+00	120	6	6
13.87523	7.95	960.5	960.3	0.83	-0.94	0.0102	0.0009	NM	1.16E+01	5.55E+00	120	6	7
13.94664	8.03	1036.9	1036.6	0.77	-1.29	0.0073	0.0013	NM	1.16E+01	5.58E+00	120	6	7
14.01804	6.02	1102.9	1102.6	0.55	-1.54	0.0078	0.0014	NM	1.17E+01	5.61E+00	120	6	7
14.09065	7.83	1145.5	1145.1	0.68	-2.29	0.0076	0.0009	NM	1.17E+01	5.64E+00	120	6	7
14.16325	6.91	1154.3	1153.8	0.6	-2.69	0.009	0.0004	NM	1.18E+01	5.67E+00	120	6	7
14.23346	5.72	1320.3	1319.8	0.43	-2.84	0.01	0.0008	NM	1.19E+01	5.69E+00	120	6	7
14.30687	5.38	1559.7	1558.7	0.35	-5.09	0.0107	0.0014	NM	1.19E+01	5.72E+00	120	7	7
14.37827	3.88	1581.7	1580.4	0.25	-6.64	0.0117	0.0008	NM	1.20E+01	5.75E+00	120	7	7
14.44967	4.49	1552.3	1551.1	0.29	-6.24	0.0112	0.0005	NM	1.20E+01	5.78E+00	120	7	7
14.52188	5.23	1584.6	1583.6	0.33	-5.29	0.0109	0.0012	NM	1.21E+01	5.81E+00	120	7	7
14.59369	5.82	1606.7	1606	0.36	-3.34	0.0109	0.0012	NM	1.22E+01	5.84E+00	120	7	7
14.66509	7.14	1597.9	1597.6	0.45	-1.24	0.0112	0.0011	NM	1.22E+01	5.87E+00	120	6	7
14.71084	7.3	1618.4	1618.7	0.45	1.57	0.0115	0.0015	NM	1.23E+01	5.88E+00	120	6	7
14.77868	7.19	1669.8	1670.1	0.43	1.57	0.0119	0.0017	NM	1.23E+01	5.91E+00	120	6	7
14.8505	7.63	1668.3	1668.6	0.46	1.77	0.0137	0.0015	NM	1.24E+01	5.94E+00	120	6	7
14.92034	7.95	1612.5	1612.9	0.49	1.92	0.0138	0.0012	NM	1.24E+01	5.97E+00	120	6	7
14.99057	8.96	1499.5	1499.8	0.6	1.97	0.0143	0.0004	NM	1.25E+01	6.00E+00	120	6	7
15.06682	12.32	1446.6	1446.9	0.85	1.57	0.0171	0	NM	1.26E+01	6.03E+00	120	6	7
15.14268	20.29	1415.8	1416.1	1.43	1.97	0.017	0.0004	NM	1.26E+01	6.06E+00	120	6	7
15.2093	35.19	1370.3	1370.6	2.57	1.62	0.0216	0.0004	NM	1.27E+01	6.08E+00	120	6	7
15.28034	42.56	1383.5	1383.9	3.08	2.02	0.0796	0.0166	NM	1.27E+01	6.11E+00	120	6	7
15.35097	47.91	1401.1	1401.5	3.42	2.27	0.0971	0.034	NM	1.28E+01	6.14E+00	120	6	7
15.42361	50.78	1556.7	1557.2	3.26	2.47	0.0971	0.0357	NM	1.29E+01	6.17E+00	120	6	7
15.49746	47.69	1960.5	1960.3	2.43	-0.88	0.0976	0.0354	NM	1.29E+01	6.20E+00	120	6	7
15.57251	43.34	2445	2444.5	1.77	-2.67	0.0965	0.0352	NM	1.30E+01	6.23E+00	120	6	7
15.63994	66.12	3295.1	3295	2.07	-0.88	0.0959	0.035	NM	1.30E+01	6.26E+00	120	6	7
15.71298	80.37	3135.1	3135.1	2.56	0.07	0.0956	0.0344	NM	1.31E+01	6.29E+00	120	6	7
15.78442	81.32	2464.1	2463.7	3.3	-1.88	0.0946	0.0344	NM	1.32E+01	6.31E+00	120	6	7
15.85586	79.7	2144	2143.5	3.72	-2.77	0.0921	0.0344	NM	1.32E+01	6.34E+00	120	6	7
15.9305	84.59	2260	2259.8	3.74	-1.08	0.0901	0.0343	NM	1.33E+01	6.37E+00	120	6	7
16.00475	82.93	1778.4	1777.6	4.67	-4.42	0.0899	0.0343	NM	1.33E+01	6.40E+00	120	6	7
16.07338	71.45	2477.3	2475.9	2.89	-7.42	0.0902	0.0342	NM	1.34E+01	6.43E+00	120	6	7
16.14602	47.74	2840	2838.3	1.68	-8.57	0.09	0.034	NM	1.35E+01	6.46E+00	120	6	7
16.21586	34.45	2505.2	2503.6	1.38	-8.12	0.0899	0.034	NM	1.35E+01	6.49E+00	120	6	7
16.28689	26.67	2596.2	2594.6	1.03	-8.32	0.0891	0.0335	NM	1.36E+01	6.52E+00	120	6	7
16.36114	22.07	2311.4	2310.2	0.96	-6.17	0.09	0.0341	NM	1.36E+01	6.54E+00	120	6	7
16.43619	17.49	2273.2	2272	0.77	-6.17	0.087	0.0295	NM	1.37E+01	6.57E+00	120	6	7
16.50402	16.64	2364.3	2363.1	0.7	-5.97	0.0891	0.0316	NM	1.38E+01	6.60E+00	120	6	7
16.57947	10.81	2427.4	2426.4	0.45	-4.87	0.0922	0.0344	NM	1.38E+01	6.63E+00	120	7	7
16.6489	10.38	2403.9	2403	0.43	-4.82	0.0924	0.0344	NM	1.39E+01	6.66E+00	120	7	7
16.72154	11.1	2409.8	2409.2	0.46	-2.82	0.0933	0.0345	NM	1.39E+01	6.69E+00	120	7	7
16.79378	11.26	2446.5	2445.9	0.46	-2.87	0.0945	0.0346	NM	1.40E+01	6.72E+00	120	7	7
16.86663	11.99	2475.8	2475.4	0.48	-2.52	0.0951	0.0349	NM	1.41E+01	6.75E+00	120	7	7
16.93586	12.24	2474.4	2474	0.49	-1.93	0.0957	0.0349	NM	1.41E+01	6.77E+00	120	7	7
17.0069	12.3	2480.2	2479.9	0.5	-1.78	0.0961	0.0348	NM	1.42E+01	6.80E+00	120	7	7
17.07673	12.86	2443.5	2443.3	0.53	-1.43	0.0957	0.0348	NM	1.42E+01	6.83E+00	120	7	7
17.14776	12.83	2411.2	2411	0.53	-1.23	0.0956	0.0349	NM	1.43E+01	6.86E+00	120	7	7

17.22121	12.89	2418.6	2418.4	0.53	-0.98	0.0957	0.0346	NM	1.44E+01	6.89E+00	120	7	7
17.29385	13.16	2423	2422.9	0.54	-0.48	0.0964	0.0346	NM	1.44E+01	6.92E+00	120	7	7
17.36408	12.75	2415.6	2415.6	0.53	-0.43	0.0974	0.0349	NM	1.45E+01	6.95E+00	120	7	7
17.43913	12.69	2414.2	2414.3	0.53	0.82	0.0973	0.0348	NM	1.45E+01	6.98E+00	120	7	7
17.50897	12.82	2424.5	2424.6	0.53	0.77	0.0971	0.0349	NM	1.46E+01	7.00E+00	120	7	7
17.58081	13.11	2423	2423.2	0.54	0.92	0.0977	0.0349	NM	1.47E+01	7.03E+00	120	6	7
17.65345	13.21	2430.3	2430.6	0.54	1.32	0.0981	0.0349	NM	1.47E+01	7.06E+00	120	6	7
17.72569	9.46	2470	2470.1	0.38	0.87	0.0983	0.035	NM	1.48E+01	7.09E+00	120	7	7
17.79553	10.21	2497.9	2498.1	0.41	1.27	0.0986	0.0349	NM	1.48E+01	7.12E+00	120	7	7
17.87017	10.7	2514	2514.2	0.43	0.77	0.0989	0.035	NM	1.49E+01	7.15E+00	120	7	7
17.9388	10.86	2511.1	2511.2	0.43	0.77	0.0989	0.0351	NM	1.50E+01	7.18E+00	120	7	7
18.01185	11.34	2489.1	2489.3	0.46	1.32	0.0869	0.0268	NM	1.50E+01	7.21E+00	120	7	7
18.04271	11.71	2382.7	2382.8	0.49	0.61	0.0788	0.0211	NM	1.50E+01	7.22E+00	120	7	7
18.11325	11.9	2473.6	2473.8	0.48	1.01	0.074	0.016	NM	1.51E+01	7.25E+00	120	7	7
18.18178	11.56	2551.4	2551.7	0.45	1.26	0.0511	0.0061	NM	1.52E+01	7.27E+00	120	7	7
18.25311	11.82	2633.6	2633.8	0.45	1.36	0.0581	0.0029	NM	1.52E+01	7.30E+00	120	7	7
18.32565	12.22	2690.8	2691	0.45	1.01	0.0573	0.0017	NM	1.53E+01	7.33E+00	120	7	7
18.4022	12.55	2743.6	2743.9	0.46	1.56	0.0573	0.0012	NM	1.53E+01	7.36E+00	120	7	7
18.47233	13.01	2862.4	2862.8	0.45	1.61	0.0565	0.0012	NM	1.54E+01	7.39E+00	120	7	7
18.54166	13.78	2996	2996.3	0.46	1.66	0.0442	0.0012	NM	1.55E+01	7.42E+00	120	7	7
18.61139	13.9	3070.8	3071.1	0.45	1.51	0.0318	0.001	NM	1.55E+01	7.45E+00	120	7	7
18.68273	14.06	3110.4	3110.8	0.45	1.91	0.0266	0.0015	NM	1.56E+01	7.47E+00	120	7	7
18.75607	14.42	3136.8	3137.2	0.46	1.96	0.0274	0	NM	1.56E+01	7.50E+00	120	7	7
18.83141	15.05	3198.4	3198.8	0.47	2.11	0.0274	0.0015	NM	1.57E+01	7.53E+00	120	7	7
18.90235	15.37	3236.6	3236.9	0.47	1.96	0.0295	0.001	NM	1.58E+01	7.56E+00	120	7	7
18.97809	15.57	3257.1	3257.5	0.48	1.96	0.042	0.0014	NM	1.58E+01	7.59E+00	120	7	7
19.05023	15.58	3276.2	3276.6	0.47	2.01	0.0539	0.0018	NM	1.59E+01	7.62E+00	120	7	7
19.12076	16.09	3261.5	3261.9	0.49	2.01	0.0655	0.0021	NM	1.59E+01	7.65E+00	120	7	7
19.1941	16.24	3254.2	3254.6	0.5	2.16	0.0729	0.0033	NM	1.60E+01	7.68E+00	120	7	7
19.26885	15.87	3248.3	3248.7	0.49	2.11	0.0996	0.0323	NM	1.61E+01	7.71E+00	120	7	7
19.33998	16.23	3274.7	3275.1	0.5	2.11	0.1025	0.036	NM	1.61E+01	7.74E+00	120	7	7
19.41172	15.67	3299.7	3300	0.47	2.06	0.1017	0.0348	NM	1.62E+01	7.77E+00	120	7	7
19.48145	15.5	3318.7	3319.2	0.47	2.21	0.1009	0.0345	NM	1.62E+01	7.79E+00	120	7	7
19.55279	15.54	3351	3351.4	0.46	2.11	0.0974	0.0296	NM	1.63E+01	7.82E+00	120	7	7
19.62492	15.43	3370.1	3370.5	0.46	2.06	0.0936	0.0258	NM	1.64E+01	7.85E+00	120	7	7
19.69987	15.53	3374.5	3374.9	0.46	2.26	0.092	0.0245	NM	1.64E+01	7.88E+00	120	7	7
19.7704	15.65	3353.9	3354.4	0.47	2.21	0.0893	0.0222	NM	1.65E+01	7.91E+00	120	7	7
19.84334	16.2	3327.5	3328	0.49	2.51	0.0889	0.0214	NM	1.65E+01	7.94E+00	120	7	7
19.91267	17.08	3290.8	3291.3	0.52	2.51	0.0898	0.0223	NM	1.66E+01	7.97E+00	120	7	7
19.98601	17.27	3281.5	3282	0.53	2.46	0.0899	0.022	NM	1.67E+01	7.99E+00	120	7	7
20.05775	18.75	3248.3	3248.8	0.58	2.56	0.0895	0.0224	NM	1.67E+01	8.02E+00	120	7	7
20.12988	17.06	3302.6	3303	0.52	2.21	0.0888	0.0206	NM	1.68E+01	8.05E+00	120	7	7
20.20002	18.33	3414.1	3414.6	0.54	2.46	0.0776	0.0123	NM	1.68E+01	8.08E+00	120	7	7
20.26815	17.15	3579.9	3580.5	0.48	3.06	0.0729	0.0057	NM	1.69E+01	8.11E+00	120	7	7
20.33868	17.59	3816.1	3816.5	0.46	2.11	0.0614	0.0019	NM	1.70E+01	8.14E+00	120	7	7
20.41082	18.79	4058.2	4058.8	0.46	2.26	0.0758	0.0103	NM	1.70E+01	8.16E+00	120	7	7
20.48055	25.11	4235.7	4236.1	0.59	2.16	0.0697	0.008	NM	1.71E+01	8.19E+00	120	7	7
20.55349	20.82	4448.4	4448.7	0.47	1.21	0.0776	0.0101	NM	1.71E+01	8.22E+00	120	7	7
20.62403	23.39	4646.5	4646.7	0.5	1.06	0.0837	0.0145	NM	1.72E+01	8.25E+00	120	7	7
20.69736	26.1	4493.9	4494	0.58	0.46	0.0865	0.0199	NM	1.73E+01	8.28E+00	120	7	7
20.7667	27.82	4611.3	4611	0.6	-1.38	0.09	0.024	NM	1.73E+01	8.31E+00	120	7	7
20.83883	24.13	4485.1	4485.1	0.54	0.07	0.07	0.0199	NM	1.74E+01	8.34E+00	120	7	7

20.91097	22.41	4464.6	4464.2	0.5	-2.08	0.0879	0.0102	NM	1.74E+01	8.36E+00	120	7	7
20.98151	21.31	4523.3	4523.5	0.47	1.01	0.0717	0.0063	NM	1.75E+01	8.39E+00	120	7	7
21.05364	20.2	4435.2	4435	0.46	-1.38	0.0795	0.0127	NM	1.75E+01	8.42E+00	120	7	7
21.12578	19.1	4579	4579	0.42	0.02	0.0816	0.0146	NM	1.76E+01	8.45E+00	120	7	7
21.19591	20.78	4671.4	4670.6	0.44	-4.28	0.0736	0.0102	NM	1.77E+01	8.48E+00	120	7	7
21.26765	20.78	4317.9	4317.5	0.48	-2.08	0.0672	0.0048	NM	1.77E+01	8.51E+00	120	7	7
21.50521	18.58	4141.8	4140.6	0.45	-6.42	0.045	0.0005	NM	1.79E+01	8.60E+00	120	7	7
21.5737	20.5	4389.8	4388.4	0.47	-6.87	0.0459	0.0009	NM	1.80E+01	8.63E+00	120	7	7
21.64661	22	4514.5	4513	0.49	-7.52	0	0	NM	1.80E+01	8.66E+00	120	7	7
21.72112	24.21	3936.4	3935.4	0.62	-5.03	0	0	NM	1.81E+01	8.69E+00	120	7	7
21.79482	26.61	4008.3	4007.8	0.66	-2.53	0	0	NM	1.82E+01	8.72E+00	120	7	7
21.86332	28.28	3833.7	3833.1	0.74	-2.88	0	0	NM	1.82E+01	8.75E+00	120	6	7
21.93422	25.52	3841	3839.9	0.66	-5.97	0	0	NM	1.83E+01	8.77E+00	120	6	7
22.00512	24.44	3329	3327.9	0.73	-5.48	0	0	NM	1.83E+01	8.80E+00	120	6	7
22.07802	23.38	3219	3217.9	0.73	-5.52	0	0	NM	1.84E+01	8.83E+00	120	6	7
22.15333	21.21	3173.5	3172.6	0.67	-4.78	0	0	NM	1.85E+01	8.86E+00	120	6	7
22.22623	20.96	3232.2	3231.5	0.65	-3.48	0	0	NM	1.85E+01	8.89E+00	120	6	7
22.29553	16.84	3233.6	3232.9	0.52	-3.83	0	0	NM	1.86E+01	8.92E+00	120	7	7
22.36764	14.15	3264.4	3263.7	0.43	-3.88	0	0	NM	1.86E+01	8.95E+00	120	7	7
22.43854	13.89	3312.9	3312	0.42	-4.33	0	0	NM	1.87E+01	8.98E+00	120	7	7
22.51104	13.69	3342.2	3341.3	0.41	-4.63	0	0	NM	1.88E+01	9.00E+00	120	7	7
22.58635	15.56	3361.3	3360.5	0.46	-3.93	0	0	NM	1.88E+01	9.04E+00	120	7	7
22.65885	19.26	3383.3	3382.5	0.57	-3.93	0	0	NM	1.89E+01	9.06E+00	120	7	7
22.72815	25.11	3540.3	3539.5	0.71	-4.13	0	0	NM	1.89E+01	9.09E+00	120	6	7
22.80025	26.93	3820.5	3819.7	0.71	-3.83	0	0	NM	1.90E+01	9.12E+00	120	6	7
22.87075	33.48	4067	4066.2	0.82	-3.93	0	0	NM	1.91E+01	9.15E+00	120	6	7
22.94246	32.89	4287	4286.3	0.77	-3.83	0	0	NM	1.91E+01	9.18E+00	120	6	7
23.01656	30.57	4471.9	4471.1	0.68	-4.28	0	0	NM	1.92E+01	9.21E+00	120	7	7
23.08746	29.67	4841.6	4840.7	0.61	-4.73	0	0	NM	1.92E+01	9.24E+00	120	7	7
23.15596	28.21	5048.5	5047.4	0.56	-5.82	0	0	NM	1.93E+01	9.26E+00	120	7	7
23.23247	25.91	3968.7	3967.8	0.65	-4.33	0	0	NM	1.94E+01	9.29E+00	120	6	7
23.30337	23.51	4047.9	4047.1	0.58	-3.98	0	0	NM	1.94E+01	9.32E+00	120	7	7
23.37467	27.41	4058.2	4057.5	0.68	-3.53	0	0	NM	1.95E+01	9.35E+00	120	6	7
23.44798	17.24	4058.2	4057.5	0.43	-3.43	0	0	NM	1.95E+01	9.38E+00	120	7	7
23.52048	16.21	3981.9	3981.2	0.41	-3.43	0	0	NM	1.96E+01	9.41E+00	120	7	7
23.58737	17.54	3866	3865.3	0.45	-3.28	0	0	NM	1.97E+01	9.44E+00	120	7	7
23.66028	0	3678.7	3678.1	0	-3.03	0	0	NM	1.97E+01	9.46E+00	120	-99	7
23.73158	0	3582.8	3582.3	0	-2.88	0	0	NM	1.98E+01	9.49E+00	120	-99	7
23.80408	0	3450.8	3450.2	0	-2.88	0	0	NM	1.98E+01	9.52E+00	120	-99	7
23.87659	0	3339.3	3338.7	0	-2.83	0	0	NM	1.99E+01	9.55E+00	120	-99	7
23.94909	0	3296.7	3296.2	0	-2.68	0	0	NM	2.00E+01	9.58E+00	120	-99	7

Electric Cone Penetrometer Data

Cone_TAP v 2.90

Test Id: HD-19 Date: 4-Nov-03

Site: SUNNYSIDE Cone Id: 108.034XXX

Location: QUEENS NY

Project: ROUX Soil Density(pcf): 120

Client: ROUX

Depth (ft)	Sleeve Stress (psi)	Tip Stress UNC (psi)	Tip Stress COR (psi)	Ratio COR (%)	Pore Pressure (psi)	LFFD (V)	HFFD (V)	Excitation (Vdc)	Overburden (psi)	Eff. Overburden (psi)	Wet Density (pcf)	Class. FR (Rob. 1990)	Class. PP (Rob. 1990)
0	0	0	0	0	0	0	0	NM	0.00E+00	0.00E+00	120	-99	-99
0.1749	0	125	125	0	-0.09	0.1582	0.0587	NM	1.46E-01	7.00E-02	120	-99	-99
0.22464	0	78.1	78.1	0	-0.04	0.1864	0.0662	NM	1.87E-01	8.99E-02	120	-99	7
0.28161	-0.01	92.7	92.7	-0.01	-0.04	0.1471	0.0581	NM	2.35E-01	1.13E-01	120	-99	7
0.33817	-0.01	119.2	119.2	-0.01	-0.04	0.136	0.0558	NM	2.82E-01	1.35E-01	120	-99	7
0.39182	-0.01	141.2	141.2	0	-0.04	0.1316	0.0548	NM	3.27E-01	1.57E-01	120	-99	7
0.44788	0.01	138.2	138.2	0.01	-0.04	0.1279	0.0542	NM	3.73E-01	1.79E-01	120	-99	7
0.50464	0.01	70.7	70.7	0.02	0.01	0.1251	0.0548	NM	4.21E-01	2.02E-01	120	-99	7
0.56762	-0.02	57.5	57.5	-0.03	0.01	0.1194	0.0546	NM	4.73E-01	2.27E-01	120	-99	7
0.62619	-0.04	60.5	60.4	-0.07	-0.09	0.1093	0.0524	NM	5.22E-01	2.51E-01	120	-99	7
0.69118	-0.07	61.9	61.9	-0.12	-0.09	0.1015	0.0499	NM	5.76E-01	2.77E-01	120	-99	7
0.76057	-0.11	66.3	66.3	-0.16	-0.04	0.1056	0.0507	NM	6.34E-01	3.04E-01	120	-99	7
0.82476	-0.13	76.6	76.6	-0.17	-0.09	0.1125	0.0504	NM	6.87E-01	3.30E-01	120	-99	7
0.88934	-0.13	103	103	-0.13	-0.04	0.0952	0.0462	NM	7.41E-01	3.56E-01	120	-99	7
1.15485	-0.16	39.9	39.9	-0.4	-0.24	0.0937	0.0454	NM	9.62E-01	4.62E-01	120	-99	6
1.2237	-0.16	39.9	39.9	-0.4	-0.24	0.0947	0.0457	NM	1.02E+00	4.90E-01	120	-99	6
1.29033	-0.17	41.4	41.3	-0.41	-0.24	0.0951	0.0457	NM	1.08E+00	5.16E-01	120	-99	6
1.35577	-0.19	45.8	45.7	-0.41	-0.24	0.0983	0.046	NM	1.13E+00	5.42E-01	120	-99	6
1.41839	-0.18	54.6	54.5	-0.33	-0.24	0.0923	0.0445	NM	1.18E+00	5.67E-01	120	-99	6
1.48343	-0.16	75.1	75.1	-0.21	-0.19	0.0927	0.0441	NM	1.24E+00	5.93E-01	120	-99	6
1.54806	-0.17	107.4	107.4	-0.15	-0.19	0.0923	0.0438	NM	1.29E+00	6.19E-01	120	-99	7
1.6151	-0.18	69.3	69.2	-0.26	-0.19	0.0922	0.0437	NM	1.35E+00	6.46E-01	120	-99	6
1.68374	-0.17	37	36.9	-0.45	-0.19	0.0919	0.0439	NM	1.40E+00	6.74E-01	120	-99	6
1.75038	-0.18	32.6	32.5	-0.55	-0.19	0.0921	0.0441	NM	1.46E+00	7.00E-01	120	-99	6
1.81421	-0.17	34	34	-0.51	-0.19	0.0916	0.0441	NM	1.51E+00	7.26E-01	120	-99	6
1.87964	-0.22	39.9	39.9	-0.55	-0.19	0.0913	0.0443	NM	1.57E+00	7.52E-01	120	-99	6
1.94427	-0.21	48.7	48.7	-0.43	-0.19	0.0913	0.0443	NM	1.62E+00	7.78E-01	120	-99	6
2.0089	-0.2	59	59	-0.34	-0.19	0.0911	0.0443	NM	1.67E+00	8.04E-01	120	-99	6
2.07594	-0.21	73.7	73.6	-0.28	-0.19	0.0912	0.0443	NM	1.73E+00	8.30E-01	120	-99	6
2.14459	-0.2	107.4	107.4	-0.19	-0.14	0.0906	0.0441	NM	1.79E+00	8.58E-01	120	-99	6
2.20841	-0.21	210.1	210.1	-0.1	-0.19	0.091	0.0441	NM	1.84E+00	8.83E-01	120	-99	7
2.27224	-0.2	490.4	490.4	-0.04	-0.09	0.0912	0.0441	NM	1.89E+00	9.09E-01	120	-99	7
2.33487	-0.22	979.1	979.1	-0.02	0.01	0.0912	0.0441	NM	1.95E+00	9.34E-01	120	-99	-99
2.3999	-0.23	1184.6	1184.6	-0.02	0.21	0.0911	0.0441	NM	2.00E+00	9.60E-01	120	-99	-99
2.46453	-0.25	1479.5	1479.6	-0.02	0.16	0.091	0.0439	NM	2.05E+00	9.86E-01	120	-99	-99
2.53358	-0.24	1037.8	1037.8	-0.02	-0.04	0.091	0.0441	NM	2.11E+00	1.01E+00	120	-99	-99
2.59821	-0.23	1196.3	1196.3	-0.02	0.01	0.0908	0.0438	NM	2.17E+00	1.04E+00	120	-99	-99
2.66184	-0.24	1332.8	1332.8	-0.02	0.11	0.0901	0.044	NM	2.22E+00	1.07E+00	120	-99	-99
2.72867	0.07	1442.9	1442.9	0	0.06	0.0902	0.044	NM	2.27E+00	1.09E+00	120	-99	-99

2.7929	1.15	1538.2	1538.3	0.07	0.21	0.0905	0.0435	NM	2.33E+00	1.12E+00	120	-99	-99
2.85713	2.62	1695.3	1695.3	0.15	0.16	0.089	0.0434	NM	2.38E+00	1.14E+00	120	-99	-99
2.92297	4.04	1761.3	1761.4	0.23	0.56	0.0882	0.0434	NM	2.44E+00	1.17E+00	120	-99	-99
2.9888	3.8	1795.1	1795.1	0.2	0.31	0.0884	0.0434	NM	2.49E+00	1.20E+00	120	-99	-99
3.05785	3.02	1847.9	1847.9	0.16	0.21	0.0883	0.043	NM	2.55E+00	1.22E+00	120	-99	-99
3.11887	2.84	1886	1886	0.15	0.01	0.0886	0.043	NM	2.60E+00	1.25E+00	120	-99	-99
3.18511	3.63	1727.6	1727.6	0.21	0.01	0.089	0.0433	NM	2.65E+00	1.27E+00	120	-99	-99
3.25174	5.72	1598.4	1598.4	0.36	-0.04	0.0887	0.0433	NM	2.71E+00	1.30E+00	120	-99	-99
3.31678	7.44	1558.8	1558.8	0.48	0.01	0.0883	0.0434	NM	2.76E+00	1.33E+00	120	-99	-99
3.38341	7.76	1478.1	1478.1	0.53	0.06	0.0883	0.0428	NM	2.82E+00	1.35E+00	120	-99	-99
3.44965	8.8	1434.1	1434.1	0.61	0.01	0.0892	0.0424	NM	2.88E+00	1.38E+00	120	-99	-99
3.51468	11.18	1385.6	1385.6	0.81	0.06	0.0888	0.0425	NM	2.93E+00	1.41E+00	120	7	7
3.58252	17.1	1359.2	1359.4	1.26	1.06	0.0882	0.0423	NM	2.99E+00	1.43E+00	120	6	7
3.64555	15.48	1400.3	1400.4	1.11	0.71	0.0885	0.0426	NM	3.04E+00	1.46E+00	120	6	7
3.71098	15.01	1596.9	1597.1	0.94	0.66	0.0891	0.0427	NM	3.09E+00	1.48E+00	120	-99	-99
3.77642	14.16	1555.9	1556	0.91	0.61	0.089	0.0426	NM	3.15E+00	1.51E+00	120	-99	-99
3.84388	9.73	1293.2	1293.3	0.75	0.41	0.0892	0.0427	NM	3.20E+00	1.54E+00	120	7	7
3.90849	6.57	1130.3	1130.3	0.58	0.31	0.0895	0.0426	NM	3.26E+00	1.56E+00	120	7	7
3.97352	6.8	1194.9	1194.5	0.57	-1.79	0.0899	0.0428	NM	3.31E+00	1.59E+00	120	7	7
4.03855	7.18	1228.6	1228.2	0.58	-2.09	0.0904	0.0431	NM	3.37E+00	1.62E+00	120	7	7
4.10399	6.43	1260.9	1260.3	0.51	-2.84	0.09	0.043	NM	3.42E+00	1.64E+00	120	7	7
4.16782	6.44	1282.9	1282.3	0.5	-3.19	0.0895	0.0424	NM	3.47E+00	1.67E+00	120	7	7
4.20676	6.32	1180.2	1179.8	0.54	-2.32	0.0874	0.0398	NM	3.51E+00	1.68E+00	120	7	7
4.26938	6.18	1171.4	1171	0.53	-2.52	0.0743	0.0275	NM	3.56E+00	1.71E+00	120	7	7
4.3312	6.54	1123	1122.5	0.58	-2.72	0.0431	0.0103	NM	3.61E+00	1.73E+00	120	7	7
4.39864	6.21	1108.4	1107.8	0.56	-2.87	0.0286	0.0039	NM	3.67E+00	1.76E+00	120	7	7
4.46167	5.97	1074.6	1074	0.56	-2.97	0.0238	0.0018	NM	3.72E+00	1.79E+00	120	7	7
4.53152	5.53	1051.1	1050.6	0.53	-3.02	0.0178	0.0007	NM	3.78E+00	1.81E+00	120	7	7
4.59856	5.48	1027.7	1027.1	0.53	-3.07	0.0136	0.0003	NM	3.83E+00	1.84E+00	120	7	7
4.66238	5.38	1014.5	1013.9	0.53	-3.12	0.0146	0.0009	NM	3.89E+00	1.87E+00	120	7	7
4.72581	4.72	967.5	966.9	0.49	-3.12	0.0119	0.0006	NM	3.94E+00	1.89E+00	120	7	7
4.79084	4.57	947	946.4	0.48	-3.07	0.0058	0.001	NM	3.99E+00	1.92E+00	120	7	7
4.85547	5.42	951.4	950.8	0.57	-3.07	0.0049	0.0011	NM	4.05E+00	1.94E+00	120	7	7
4.92251	4.82	964.6	964	0.5	-3.07	0.0055	0.0007	NM	4.10E+00	1.97E+00	120	7	7
4.98995	4.9	985.1	984.5	0.5	-3.02	0.0067	0.0005	NM	4.16E+00	2.00E+00	120	7	7
5.0578	8.14	1032.1	1031.5	0.79	-2.97	0.0081	0.0002	NM	4.22E+00	2.02E+00	120	6	7
5.12122	14.15	1077.5	1077	1.31	-2.97	0.0055	0.0005	NM	4.27E+00	2.05E+00	120	6	7
5.18706	14.49	1101	1100.5	1.32	-2.92	0.0017	0.0005	NM	4.32E+00	2.08E+00	120	6	7
5.25289	9.74	1112.8	1112.2	0.88	-2.77	0.0001	0.0007	NM	4.38E+00	2.10E+00	120	6	7
5.31752	6.17	952.8	952.4	0.65	-2.37	0.002	0.0006	NM	4.43E+00	2.13E+00	120	7	7
5.38416	3.66	1001.3	1001.1	0.37	-0.87	0.0163	0.0001	NM	4.49E+00	2.15E+00	120	7	7
5.45281	2.51	958.7	958.5	0.26	-0.87	0.0684	0.0308	NM	4.54E+00	2.18E+00	120	7	7
5.51704	6.48	961.6	961.5	0.67	-0.87	0.0855	0.0413	NM	4.60E+00	2.21E+00	120	6	7
5.58247	14.72	1071.7	1071.5	1.37	-0.87	0.0855	0.0416	NM	4.65E+00	2.23E+00	120	6	7
5.6471	12.69	1258	1257.9	1.01	-0.87	0.0854	0.0419	NM	4.71E+00	2.26E+00	120	6	7
5.71173	11.06	1442.9	1442.8	0.77	-0.53	0.0858	0.0414	NM	4.76E+00	2.29E+00	120	7	7
5.77677	9.98	1284.4	1284.3	0.78	-0.87	0.0857	0.0412	NM	4.81E+00	2.31E+00	120	6	7
5.84662	9.37	1137.7	1137.6	0.82	-0.77	0.0857	0.0413	NM	4.87E+00	2.34E+00	120	6	7
5.91205	8.51	992.5	992.3	0.86	-0.83	0.086	0.0415	NM	4.93E+00	2.37E+00	120	6	7
5.97628	8.07	1052.6	1052.5	0.77	-0.87	0.0859	0.0417	NM	4.98E+00	2.39E+00	120	6	7
6.04332	9.28	1096.6	1096.5	0.85	-0.87	0.086	0.0415	NM	5.04E+00	2.42E+00	120	6	7
6.10795	6.24	1087.8	1087.7	0.57	-0.87	0.0867	0.0414	NM	5.09E+00	2.44E+00	120	7	7

6.17378	5.34	1014.5	1014.3	0.53	-0.73	0.0872	0.0415	NM	5.15E+00	2.47E+00	120	7	7
6.24042	6.54	979.3	979.1	0.67	-0.77	0.0875	0.0416	NM	5.20E+00	2.50E+00	120	6	7
6.30546	6.38	989.5	989.4	0.64	-0.73	0.0867	0.0414	NM	5.26E+00	2.52E+00	120	6	7
6.37209	5.97	1035	1034.9	0.58	-0.73	0.0861	0.0411	NM	5.31E+00	2.55E+00	120	7	7
6.43392	6.51	1090.8	1090.6	0.6	-0.73	0.0862	0.0415	NM	5.36E+00	2.57E+00	120	7	7
6.49935	9.75	1105.4	1105.3	0.88	-0.73	0.0867	0.0415	NM	5.42E+00	2.60E+00	120	6	7
6.56398	12.67	1086.4	1086.2	1.17	-0.67	0.0863	0.0411	NM	5.47E+00	2.63E+00	120	6	7
6.62982	11.84	1098.1	1098	1.06	-0.67	0.0866	0.0412	NM	5.53E+00	2.65E+00	120	6	7
6.69565	9.74	1194.9	1194.9	0.82	-0.38	0.0862	0.0413	NM	5.58E+00	2.68E+00	120	6	7
6.76189	8.96	1241.9	1241.8	0.72	-0.28	0.0864	0.0409	NM	5.64E+00	2.71E+00	120	6	7
6.82852	16.12	1247.7	1247.7	1.29	-0.23	0.086	0.0412	NM	5.69E+00	2.73E+00	120	6	7
6.89316	31.14	1545.6	1545.6	2.01	-0.03	0.0863	0.0413	NM	5.74E+00	2.76E+00	120	8	7
6.95979	27.98	1382.7	1382.8	2.02	0.42	0.0867	0.0411	NM	5.80E+00	2.78E+00	120	8	7
7.02603	27.35	1492.8	1492.8	1.83	0.37	0.0874	0.0409	NM	5.86E+00	2.81E+00	120	8	7
7.09468	27.52	1379.8	1379.8	1.99	0.17	0.0881	0.0408	NM	5.91E+00	2.84E+00	120	8	7
7.1561	19.6	1533.8	1533.9	1.28	0.07	0.088	0.0409	NM	5.96E+00	2.86E+00	120	6	7
7.22032	16.46	1130.4	1130.3	1.46	-0.13	0.0874	0.0408	NM	6.02E+00	2.89E+00	120	6	7
7.28696	17.05	1322.6	1322.6	1.29	-0.03	0.0873	0.0405	NM	6.07E+00	2.92E+00	120	6	7
7.3524	17.37	1415	1415	1.23	-0.03	0.0873	0.0408	NM	6.13E+00	2.94E+00	120	6	7
7.41703	12.54	1466.3	1466.3	0.86	0.02	0.0868	0.0411	NM	6.18E+00	2.97E+00	120	6	7
7.48126	11.05	1508.9	1508.9	0.73	0.02	0.0874	0.0412	NM	6.23E+00	2.99E+00	120	6	7
7.51698	10.5	1442.9	1443	0.73	0.51	0.0878	0.0411	NM	6.26E+00	3.01E+00	120	6	7
7.57599	9.56	1577.9	1578	0.61	0.46	0.0879	0.0406	NM	6.31E+00	3.03E+00	120	7	7
7.63982	8.55	1491.3	1491.4	0.57	0.51	0.0882	0.0408	NM	6.37E+00	3.06E+00	120	7	7
7.70405	7.79	1557.3	1557.4	0.5	0.61	0.0886	0.041	NM	6.42E+00	3.08E+00	120	7	7
7.7723	7.71	1541.2	1541.3	0.5	0.66	0.0881	0.0405	NM	6.48E+00	3.11E+00	120	7	7
7.84054	8.15	1528.5	1528.5	0.53	0.06	0.0893	0.041	NM	6.53E+00	3.14E+00	120	7	7
7.90838	7.68	1551.5	1551.5	0.49	0.01	0.0889	0.0412	NM	6.59E+00	3.16E+00	120	7	7
7.9698	7.49	1557.3	1557.3	0.48	0.01	0.09	0.0413	NM	6.64E+00	3.19E+00	120	7	7
8.03604	7.29	1548.5	1548.5	0.47	0.06	0.0896	0.041	NM	6.70E+00	3.21E+00	120	7	7
8.09906	7.43	1547	1547.1	0.48	0.06	0.0915	0.0417	NM	6.75E+00	3.24E+00	120	7	7
8.1661	7.34	1564.7	1564.7	0.47	0.11	0.0909	0.0414	NM	6.81E+00	3.27E+00	120	7	7
8.23234	7.28	1599.9	1599.9	0.46	0.06	0.0916	0.0412	NM	6.86E+00	3.29E+00	120	7	7
8.30179	7.21	1633.6	1633.6	0.44	0.06	0.0916	0.0417	NM	6.92E+00	3.32E+00	120	7	7
8.36802	7.14	1676.2	1676.2	0.43	0.16	0.0918	0.0418	NM	6.97E+00	3.35E+00	120	7	7
8.43185	7.08	1704.1	1704.1	0.42	0.11	0.0923	0.042	NM	7.03E+00	3.37E+00	120	7	7
8.49608	7	1732	1732	0.4	0.16	0.0928	0.0421	NM	7.08E+00	3.40E+00	120	7	7
8.56272	7.02	1748.1	1748.1	0.4	0.16	0.0933	0.0423	NM	7.14E+00	3.43E+00	120	7	7
8.62695	7	1755.4	1755.5	0.4	0.16	0.0931	0.0421	NM	7.19E+00	3.45E+00	120	7	7
8.69519	7.03	1749.6	1749.6	0.4	0.21	0.0923	0.0421	NM	7.25E+00	3.48E+00	120	7	7
8.76223	7.03	1745.2	1745.2	0.4	0.21	0.0925	0.0421	NM	7.30E+00	3.51E+00	120	7	7
8.82687	7.06	1737.8	1737.9	0.41	0.21	0.0924	0.042	NM	7.36E+00	3.53E+00	120	7	7
8.8931	7.09	1732	1732	0.41	0.21	0.0924	0.0424	NM	7.41E+00	3.56E+00	120	7	7
8.95773	7.12	1727.6	1727.6	0.41	0.26	0.0927	0.0422	NM	7.47E+00	3.58E+00	120	7	7
9.02236	7.18	1727.6	1727.6	0.42	0.26	0.0926	0.042	NM	7.52E+00	3.61E+00	120	7	7
9.089	7.1	1745.2	1745.2	0.41	0.31	0.0927	0.0418	NM	7.57E+00	3.64E+00	120	7	7
9.15604	7.08	1773	1773.1	0.4	0.31	0.0924	0.0419	NM	7.63E+00	3.66E+00	120	7	7
9.22107	6.91	1796.5	1796.6	0.38	0.31	0.0921	0.0421	NM	7.68E+00	3.69E+00	120	7	7
9.28611	6.77	1806.8	1806.9	0.37	0.31	0.0922	0.0423	NM	7.74E+00	3.71E+00	120	7	7
9.35315	6.58	1802.4	1802.5	0.37	0.31	0.0919	0.0421	NM	7.79E+00	3.74E+00	120	7	7
9.41778	6.52	1783.3	1783.4	0.37	0.31	0.0916	0.042	NM	7.85E+00	3.77E+00	120	7	7
9.48281	6.36	1751	1751.1	0.36	0.36	0.0914	0.0421	NM	7.90E+00	3.79E+00	120	7	7

9.54945	6.56	1711.4	1711.5	0.38	0.36	0.0911	0.0424	NM	7.96E+00	3.82E+00	120	7	7
9.81609	6.92	1658.6	1658.7	0.42	0.36	0.0913	0.042	NM	8.01E+00	3.85E+00	120	7	7
9.88032	6.82	1623.4	1623.4	0.42	0.36	0.0905	0.0418	NM	8.07E+00	3.87E+00	120	7	7
9.74254	6.63	1604.3	1604.4	0.41	0.41	0.0896	0.042	NM	8.12E+00	3.90E+00	120	7	7
9.80837	6.81	1594	1594.1	0.41	0.41	0.09	0.042	NM	8.17E+00	3.92E+00	120	7	7
9.87461	6.55	1583.7	1583.8	0.41	0.41	0.0904	0.0421	NM	8.23E+00	3.95E+00	120	7	7
9.93964	6.55	1536.8	1536.9	0.43	0.61	0.09	0.0418	NM	8.28E+00	3.98E+00	120	7	7
10.00668	6.81	1542.6	1542.7	0.44	0.46	0.0897	0.0414	NM	8.34E+00	4.00E+00	120	7	7
10.07091	7.24	1530.9	1531	0.47	0.46	0.0894	0.0416	NM	8.39E+00	4.03E+00	120	7	7
10.13715	8.4	1535.3	1535.4	0.55	0.46	0.0891	0.0417	NM	8.45E+00	4.06E+00	120	7	7
10.20378	9.34	1554.4	1554.5	0.6	0.51	0.0889	0.0413	NM	8.50E+00	4.08E+00	120	6	7
10.26962	9.63	1560.3	1560.4	0.62	0.51	0.0885	0.041	NM	8.56E+00	4.11E+00	120	6	7
10.33425	9.82	1594	1594.1	0.62	0.56	0.0883	0.041	NM	8.61E+00	4.13E+00	120	6	7
10.40209	9.65	1573.5	1573.6	0.61	0.51	0.0885	0.0411	NM	8.67E+00	4.16E+00	120	6	7
10.46552	8.76	1555.9	1556	0.56	0.56	0.0881	0.041	NM	8.72E+00	4.19E+00	120	7	7
10.53176	7.82	1533.8	1534	0.51	0.61	0.0874	0.0407	NM	8.78E+00	4.21E+00	120	7	7
10.59799	6.89	1538.2	1538.4	0.45	0.61	0.0876	0.0408	NM	8.83E+00	4.24E+00	120	7	7
10.66383	6.74	1550	1550.1	0.43	0.66	0.088	0.0412	NM	8.89E+00	4.27E+00	120	7	7
10.72926	6.5	1544.1	1544.2	0.42	0.61	0.0888	0.0417	NM	8.94E+00	4.29E+00	120	7	7
10.95232	6.33	1434.1	1434.2	0.44	0.72	0.0885	0.0415	NM	9.13E+00	4.38E+00	120	7	7
11.02012	6.2	1413.5	1413.7	0.44	0.72	0.0888	0.0413	NM	9.18E+00	4.41E+00	120	7	7
11.08791	6.29	1404.7	1404.9	0.45	0.77	0.0881	0.0421	NM	9.24E+00	4.44E+00	120	7	7
11.1557	6.86	1395.9	1396.1	0.49	0.77	0.0879	0.0417	NM	9.30E+00	4.46E+00	120	6	7
11.21949	8.2	1387.1	1387.3	0.59	0.77	0.0875	0.0416	NM	9.35E+00	4.49E+00	120	6	7
11.28487	8.82	1376.8	1377	0.64	0.77	0.087	0.0411	NM	9.40E+00	4.51E+00	120	6	7
11.35066	9.37	1369.5	1369.7	0.68	0.77	0.0869	0.0412	NM	9.46E+00	4.54E+00	120	6	7
11.41484	14.12	1372.4	1372.6	1.03	0.82	0.0874	0.0416	NM	9.51E+00	4.57E+00	120	6	7
11.48184	13.25	1412.1	1412.2	0.94	0.82	0.0875	0.0413	NM	9.57E+00	4.59E+00	120	6	7
11.55043	12	1445.8	1446	0.83	0.82	0.0871	0.0418	NM	9.63E+00	4.62E+00	120	6	7
11.61582	11.28	1501.6	1501.7	0.75	0.82	0.0875	0.0413	NM	9.68E+00	4.65E+00	120	6	7
11.68241	10.23	1280	1280.2	0.8	0.77	0.0871	0.041	NM	9.74E+00	4.67E+00	120	6	7
11.74659	10.43	1200.8	1200.9	0.87	0.82	0.0885	0.0415	NM	9.79E+00	4.70E+00	120	6	7
11.81318	10.71	1221.3	1221.5	0.88	0.87	0.0887	0.0417	NM	9.84E+00	4.73E+00	120	6	7
11.87737	10.89	1211.1	1211.2	0.9	0.82	0.0882	0.0419	NM	9.90E+00	4.75E+00	120	6	7
11.94876	7.14	1208.1	1208.3	0.59	0.87	0.0883	0.042	NM	9.96E+00	4.78E+00	120	6	7
12.01416	7.03	1208.1	1208.3	0.58	0.87	0.0882	0.0413	NM	1.00E+01	4.81E+00	120	6	7
12.07914	6.86	1208.1	1208.3	0.57	0.82	0.0885	0.0419	NM	1.01E+01	4.83E+00	120	6	7
12.14533	6.78	1184.6	1184.8	0.57	0.87	0.0886	0.0416	NM	1.01E+01	4.86E+00	120	6	7
12.21032	6.71	1158.2	1158.4	0.58	0.87	0.0887	0.0416	NM	1.02E+01	4.88E+00	120	6	7
12.2757	6.65	1131.8	1132	0.59	0.87	0.088	0.0412	NM	1.02E+01	4.91E+00	120	6	7
12.3423	6.66	1102.5	1102.7	0.6	0.87	0.0876	0.0416	NM	1.03E+01	4.94E+00	120	6	7
12.41009	6.49	1084.9	1085.1	0.6	0.87	0.0869	0.0416	NM	1.03E+01	4.96E+00	120	6	7
12.47628	6.42	1061.4	1061.6	0.6	0.87	0.0889	0.0416	NM	1.04E+01	4.99E+00	120	6	7
12.54046	6.32	1037.9	1038.1	0.61	0.92	0.0881	0.0412	NM	1.05E+01	5.02E+00	120	6	7
12.60825	5.99	1005.7	1005.8	0.6	0.92	0.0878	0.0417	NM	1.05E+01	5.04E+00	120	6	7
12.67404	5.84	974.9	975	0.6	0.87	0.0876	0.0416	NM	1.06E+01	5.07E+00	120	6	7
12.73943	5.7	951.4	951.6	0.6	0.97	0.0878	0.0418	NM	1.06E+01	5.10E+00	120	6	7
12.80682	5.53	930.8	931	0.59	0.92	0.0876	0.0414	NM	1.07E+01	5.12E+00	120	6	7
12.87381	5.16	914.7	914.9	0.56	0.92	0.0869	0.0416	NM	1.07E+01	5.15E+00	120	6	7
12.9378	4.87	904.4	904.6	0.54	0.97	0.0882	0.0412	NM	1.08E+01	5.18E+00	120	6	7
13.00178	4.84	885.4	885.5	0.55	0.92	0.0879	0.0414	NM	1.08E+01	5.20E+00	120	6	7
13.06676	4.84	881	881.1	0.55	0.92	0.0885	0.0412	NM	1.09E+01	5.23E+00	120	6	6

13.13295	4.86	875.1	875.3	0.58	0.97	0.0879	0.0412	NM	1.09E+01	5.25E+00	120	6	6
13.19794	4.75	878	878.2	0.54	0.97	0.0881	0.0415	NM	1.10E+01	5.28E+00	120	6	6
13.26533	4.82	878	878.2	0.55	1.02	0.0878	0.0417	NM	1.11E+01	5.31E+00	120	6	6
13.32992	4.84	875.1	875.3	0.55	1.02	0.0878	0.0415	NM	1.11E+01	5.33E+00	120	6	6
13.39691	4.94	881	881.2	0.56	1.02	0.0873	0.0419	NM	1.12E+01	5.36E+00	120	6	6
13.4631	5.04	875.1	875.3	0.58	1.02	0.0871	0.0415	NM	1.12E+01	5.39E+00	120	6	6
13.52929	5.1	864.8	865	0.59	1.07	0.0869	0.0412	NM	1.13E+01	5.41E+00	120	6	6
13.59347	5.18	860.4	860.6	0.6	1.02	0.0881	0.0412	NM	1.13E+01	5.44E+00	120	6	6
13.66207	5.17	845.7	846	0.61	1.07	0.0877	0.0412	NM	1.14E+01	5.47E+00	120	6	6
13.72745	4.72	851.6	851.8	0.55	1.12	0.0871	0.0415	NM	1.14E+01	5.49E+00	120	6	6
13.79324	4.01	870.7	870.9	0.46	1.02	0.0869	0.0417	NM	1.15E+01	5.52E+00	120	6	6
13.85903	4.13	903	903.2	0.46	1.07	0.0875	0.0418	NM	1.16E+01	5.54E+00	120	6	6
13.92522	4.38	947	947.2	0.46	1.07	0.0876	0.0418	NM	1.16E+01	5.57E+00	120	6	7
13.9902	4.8	1014.5	1014.7	0.47	1.07	0.0881	0.0416	NM	1.17E+01	5.60E+00	120	6	7
14.04195	5.09	964.6	964.8	0.53	1.02	0.0899	0.0416	NM	1.17E+01	5.62E+00	120	6	7
14.12897	5.81	1132	1132.2	0.51	0.95	0.0884	0.0423	NM	1.18E+01	5.65E+00	120	6	7
14.19074	6.35	1208.3	1208.5	0.53	1	0.0893	0.042	NM	1.18E+01	5.68E+00	120	6	7
14.25451	7.18	1305.1	1305.2	0.55	0.95	0.0895	0.0423	NM	1.19E+01	5.70E+00	120	6	7
14.32229	9.29	1457.6	1457.8	0.64	1	0.0904	0.042	NM	1.19E+01	5.73E+00	120	6	7
14.39207	9.5	1679	1679.2	0.57	1.05	0.0904	0.042	NM	1.20E+01	5.76E+00	120	6	7
14.45543	9.32	1915.1	1915.3	0.49	1.1	0.0906	0.0416	NM	1.21E+01	5.78E+00	120	7	7
14.52	8.83	2107.2	2107.4	0.42	1.05	0.0906	0.0423	NM	1.21E+01	5.81E+00	120	7	7
14.58417	8.76	2274.4	2274.6	0.39	1.15	0.0904	0.0423	NM	1.22E+01	5.83E+00	120	7	7
14.64994	8.57	2412.2	2412.4	0.36	1.05	0.0911	0.042	NM	1.22E+01	5.86E+00	120	7	7
14.71531	9	2525.1	2525.2	0.38	0.5	0.091	0.0421	NM	1.23E+01	5.89E+00	120	7	7
14.7843	10.78	2617.5	2617.6	0.41	0.4	0.0914	0.043	NM	1.23E+01	5.91E+00	120	7	7
14.85127	9.93	2712.8	2712.9	0.37	0.2	0.0919	0.0423	NM	1.24E+01	5.94E+00	120	7	7
14.91624	9.45	2768.5	2768.5	0.34	0	0.0906	0.0421	NM	1.24E+01	5.97E+00	120	7	7
14.98201	9.11	2836	2835.9	0.32	-0.35	0.091	0.0423	NM	1.25E+01	5.99E+00	120	7	7
15.04819	8.72	2855.1	2855	0.31	-0.35	0.0917	0.0422	NM	1.25E+01	6.02E+00	120	7	7
15.11275	8.39	2755.3	2755.3	0.3	-0.35	0.092	0.0422	NM	1.26E+01	6.05E+00	120	7	7
15.18053	8.04	2690.8	2690.7	0.3	-0.6	0.0915	0.0422	NM	1.27E+01	6.07E+00	120	7	7
15.24791	7.59	2638	2637.9	0.29	-0.9	0.0914	0.0425	NM	1.27E+01	6.10E+00	120	7	7
15.31408	7.57	2576.4	2576.3	0.29	-0.75	0.091	0.0424	NM	1.28E+01	6.13E+00	120	7	7
15.37945	7.14	2510.5	2510.3	0.28	-0.7	0.0915	0.0427	NM	1.28E+01	6.15E+00	120	7	7
15.44483	7.44	2416.6	2416.5	0.31	-0.7	0.0916	0.0428	NM	1.29E+01	6.18E+00	120	7	7
15.5098	7.84	2286.1	2285.9	0.34	-0.75	0.0916	0.0426	NM	1.29E+01	6.20E+00	120	7	7
15.57637	7.97	2142.4	2142.2	0.37	-0.75	0.0913	0.0429	NM	1.30E+01	6.23E+00	120	7	7
15.64375	8	2042.7	2042.5	0.39	-0.75	0.0911	0.0424	NM	1.30E+01	6.26E+00	120	7	7
15.71113	8.2	1963.5	1963.3	0.42	-0.75	0.0912	0.043	NM	1.31E+01	6.28E+00	120	7	7
15.77529	8.21	1940	1939.9	0.42	-0.75	0.0911	0.043	NM	1.32E+01	6.31E+00	120	7	7
15.84347	8.22	1941.5	1941.3	0.42	-0.7	0.0914	0.0431	NM	1.32E+01	6.34E+00	120	7	7
15.90844	7.96	1903.4	1903.2	0.42	-0.7	0.0913	0.0425	NM	1.33E+01	6.36E+00	120	7	7
15.97421	7.47	1830	1829.9	0.41	-0.65	0.0915	0.0427	NM	1.33E+01	6.39E+00	120	7	7
16.03999	7.17	1772.8	1772.7	0.4	-0.7	0.0916	0.0426	NM	1.34E+01	6.42E+00	120	7	7
16.10696	7.09	1728.9	1728.7	0.41	-0.65	0.0916	0.0429	NM	1.34E+01	6.44E+00	120	6	7
16.17233	7.06	1711.3	1711.1	0.41	-0.7	0.0922	0.0426	NM	1.35E+01	6.47E+00	120	6	7
16.23449	7.01	1706.9	1706.7	0.41	-0.65	0.0922	0.0427	NM	1.35E+01	6.49E+00	120	6	7
16.30067	6.84	1680.5	1680.3	0.41	-0.7	0.0918	0.0426	NM	1.36E+01	6.52E+00	120	6	7
16.36644	6.87	1652.6	1652.4	0.42	-0.75	0.0919	0.0426	NM	1.36E+01	6.55E+00	120	6	7
16.43021	7.14	1632.1	1631.9	0.44	-0.75	0.092	0.0428	NM	1.37E+01	6.57E+00	120	6	7
16.49798	7.69	1632.1	1631.9	0.47	-0.7	0.0916	0.0427	NM	1.38E+01	6.60E+00	120	6	7

16.56376	7.54	1655.5	1655.4	0.46	-0.7	0.092	0.0432	NM	1.38E+01	6.63E+00	120	6	7
16.62873	7.55	1679	1678.9	0.45	-0.6	0.092	0.0432	NM	1.39E+01	6.65E+00	120	6	7
16.6961	7.73	1715.7	1715.5	0.45	-0.6	0.0921	0.043	NM	1.39E+01	6.68E+00	120	6	7
16.76228	8.22	1755.2	1755.1	0.47	-0.55	0.0918	0.0427	NM	1.40E+01	6.71E+00	120	6	7
16.82685	8.04	1787.5	1787.4	0.45	-0.45	0.0922	0.043	NM	1.40E+01	6.73E+00	120	6	7
16.89382	7.86	1878.4	1878.3	0.42	-0.4	0.0922	0.0427	NM	1.41E+01	6.76E+00	120	6	7
16.95879	7.21	2011.9	2011.8	0.36	-0.4	0.0923	0.0427	NM	1.41E+01	6.78E+00	120	7	7
17.02497	6.32	2045.6	2045.5	0.31	-0.4	0.0925	0.0428	NM	1.42E+01	6.81E+00	120	7	7
17.08994	7.02	2067.6	2067.5	0.34	-0.4	0.0927	0.0429	NM	1.42E+01	6.84E+00	120	7	7
17.15691	6.52	2030.9	2030.9	0.32	-0.35	0.093	0.0431	NM	1.43E+01	6.86E+00	120	7	7
17.22108	6.4	1962	1961.9	0.33	-0.35	0.0933	0.0436	NM	1.44E+01	6.89E+00	120	7	7
17.28725	6.39	1884.3	1884.2	0.34	-0.35	0.0935	0.0432	NM	1.44E+01	6.92E+00	120	7	7
17.36768	6.79	1703.9	1703.9	0.4	0	0.0942	0.0433	NM	1.45E+01	6.95E+00	120	6	7
17.42966	7.09	1618.9	1618.9	0.44	0	0.0939	0.0431	NM	1.45E+01	6.97E+00	120	6	7
17.49545	7.01	1561.7	1561.7	0.45	0	0.0927	0.0437	NM	1.46E+01	7.00E+00	120	6	7
17.55923	7.1	1522.1	1522.1	0.47	0	0.0938	0.0435	NM	1.46E+01	7.02E+00	120	6	7
17.62662	6.7	1472.2	1472.2	0.46	-0.05	0.0933	0.0439	NM	1.47E+01	7.05E+00	120	6	7
17.69682	6.67	1412.1	1412.1	0.47	0	0.0931	0.0433	NM	1.48E+01	7.08E+00	120	6	7
17.7614	6.42	1325.6	1325.6	0.48	0	0.0929	0.0435	NM	1.48E+01	7.11E+00	120	6	7
17.82599	6.08	1275.7	1275.7	0.48	0.05	0.0933	0.0435	NM	1.49E+01	7.13E+00	120	6	7
17.89017	5.71	1173.1	1173.1	0.49	0	0.0933	0.0436	NM	1.49E+01	7.16E+00	120	6	6
17.95876	5.52	1079.2	1079.2	0.51	0.05	0.0932	0.0441	NM	1.50E+01	7.18E+00	120	6	6
18.02215	5.42	1014.7	1014.7	0.53	0.05	0.0928	0.0432	NM	1.50E+01	7.21E+00	120	6	6
18.09114	5.32	957.5	957.5	0.56	0.05	0.0928	0.044	NM	1.51E+01	7.24E+00	120	6	6
18.15934	5.19	922.3	922.3	0.56	0.05	0.0927	0.0443	NM	1.51E+01	7.26E+00	120	6	6
18.22633	5.02	900.3	900.3	0.56	0.1	0.0932	0.0445	NM	1.52E+01	7.29E+00	120	6	6
18.29092	4.88	909.1	909.1	0.54	0.05	0.0939	0.0446	NM	1.52E+01	7.32E+00	120	6	6
18.3563	4.95	953.1	953.1	0.52	0.1	0.0946	0.0447	NM	1.53E+01	7.34E+00	120	6	6
18.42049	5.02	1020.6	1020.6	0.49	0.15	0.0952	0.0448	NM	1.54E+01	7.37E+00	120	6	6
18.48768	5.09	1102.7	1102.7	0.46	0.15	0.0952	0.0447	NM	1.54E+01	7.40E+00	120	6	6
18.55648	5.38	1192.1	1192.2	0.45	0.2	0.0952	0.045	NM	1.55E+01	7.42E+00	120	6	6
18.62267	5.67	1294.8	1294.8	0.44	0.25	0.095	0.0449	NM	1.55E+01	7.45E+00	120	6	7
18.68885	6	1403.3	1403.4	0.43	0.3	0.0947	0.0448	NM	1.56E+01	7.48E+00	120	6	7
18.75464	6.35	1508.9	1508.9	0.42	0.3	0.0946	0.0448	NM	1.56E+01	7.50E+00	120	6	7
18.81842	6.93	1592.5	1592.5	0.43	0.25	0.095	0.045	NM	1.57E+01	7.53E+00	120	6	7
18.88261	7.78	1659.9	1660	0.47	0.35	0.0951	0.0448	NM	1.57E+01	7.55E+00	120	6	7
18.95	8.98	1727.4	1727.4	0.52	0.35	0.0945	0.0448	NM	1.58E+01	7.58E+00	120	6	7
19.0182	9.66	1830	1830.1	0.54	0.4	0.0952	0.0448	NM	1.59E+01	7.61E+00	120	6	7
19.08318	10.63	1962	1962.1	0.54	0.45	0.0951	0.0449	NM	1.59E+01	7.63E+00	120	6	7
19.14977	11.39	2160	2160.1	0.53	0.5	0.095	0.045	NM	1.60E+01	7.66E+00	120	6	7
19.21395	11.97	2393.1	2393.2	0.5	0.55	0.0949	0.0451	NM	1.60E+01	7.69E+00	120	6	7
19.28054	13.06	2635.1	2635.2	0.5	0.6	0.0948	0.0452	NM	1.61E+01	7.71E+00	120	7	7
19.34352	17.23	2862.4	2862.5	0.6	0.6	0.0947	0.0453	NM	1.61E+01	7.74E+00	120	6	7
19.41132	22.82	3121.9	3122	0.73	0.45	0.0943	0.0454	NM	1.62E+01	7.77E+00	120	6	7
19.4743	24.63	3267.1	3267.3	0.75	0.85	0.0945	0.0454	NM	1.62E+01	7.79E+00	120	6	7
19.54049	27.58	3479.8	3479.8	0.79	0.35	0.0949	0.0454	NM	1.63E+01	7.82E+00	120	6	7
19.60226	26.5	3737.8	3737.8	0.71	0	0.0952	0.0454	NM	1.63E+01	7.84E+00	120	6	7
19.66685	31.13	4070.7	4070.7	0.76	0	0.0954	0.0459	NM	1.64E+01	7.87E+00	120	6	7
19.73184	32.42	3929.9	3929.9	0.83	-0.05	0	0	NM	1.64E+01	7.89E+00	120	6	7
19.79683	34.71	4211.5	4211.5	0.82	-0.05	0	0	NM	1.65E+01	7.92E+00	120	6	7
19.86502	40.78	4242.3	4242.3	0.96	0.05	0	0	NM	1.66E+01	7.95E+00	120	6	7
19.9316	46.28	4267.2	4267.2	1.09	-0.05	0	0	NM	1.66E+01	7.97E+00	120	6	7

19.9988	46.1	4076.6	4076.5	1.13	-0.3	0	0	NM	1.67E+01	8.00E+00	120	6	7
20.06399	43.07	4381.6	4381.6	0.98	-0.05	0	0	NM	1.67E+01	8.03E+00	120	6	7
20.12817	47.16	4906.6	4906.6	0.96	0	0	0	NM	1.68E+01	8.05E+00	120	6	7
20.18954	52.85	5692.6	5692.6	0.93	0.1	0	0	NM	1.68E+01	8.08E+00	120	6	7
20.25493	54.06	6805.6	6805.7	0.79	0.3	0	0	NM	1.69E+01	8.10E+00	120	7	7
20.31952	54.3	8828.3	8828.4	0.62	0.55	0	0	NM	1.69E+01	8.13E+00	120	-99	-99
20.38209	54.53	8962.7	8962.8	0.61	0.55	0	0	NM	1.70E+01	8.15E+00	120	-99	-99
20.44467	54.77	9826.4	9826.6	0.56	0.65	0	0	NM	1.70E+01	8.18E+00	120	-99	-99
20.50725	57.86	10660.8	10661	0.54	0.95	0	0	NM	1.71E+01	8.20E+00	120	-99	-99
20.56943	70.28	11921.9	11922.1	0.59	0.95	0	0	NM	1.71E+01	8.23E+00	120	-99	-99
20.8049	64.58	12122.5	12122.9	0.53	1.78	0	0	NM	1.73E+01	8.32E+00	120	-99	-99
20.84742	65.58	12479	12479.3	0.53	1.63	0	0	NM	1.74E+01	8.34E+00	120	-99	-99
20.88914	62.63	12275.1	12275.4	0.51	1.73	0	0	NM	1.74E+01	8.36E+00	120	-99	-99
21.08971	53.95	11458.1	11458.3	0.47	1.19	0	0	NM	1.76E+01	8.44E+00	120	-99	-99
21.13946	54.49	11486	11486.2	0.47	1.43	0	0	NM	1.76E+01	8.46E+00	120	-99	-99
21.1912	55.06	11540.2	11540.5	0.48	1.43	0	0	NM	1.77E+01	8.48E+00	120	-99	-99
21.24255	55.82	11791.1	11791.4	0.47	1.63	0	0	NM	1.77E+01	8.50E+00	120	-99	-99
21.29269	56.17	12169.5	12169.8	0.46	1.63	0	0	NM	1.77E+01	8.52E+00	120	-99	-99
21.34043	56.69	12779.7	12780	0.44	1.68	0	0	NM	1.78E+01	8.54E+00	120	-99	-99
21.37252	57.04	12782.6	12782.9	0.45	1.63	0	0	NM	1.78E+01	8.55E+00	120	-99	-99
21.73797	0	8864.8	8865.1	0	1.38	0	0	NM	1.81E+01	8.70E+00	120	-99	-99
21.79453	0	8697.6	8697.9	0	1.43	0	0	NM	1.82E+01	8.72E+00	120	-99	7
22.00353	0	8681.5	8681.7	0	1.09	0	0	NM	1.83E+01	8.80E+00	120	-99	7
22.03803	0	8828.2	8828.4	0	1.09	0	0	NM	1.84E+01	8.82E+00	120	-99	7

Electric Cone Penetrometer Data

Cone_TAP v 2.90

Test Id: HD-20 Date: 4-Nov-03

Site: SUNNYSIDE Cone Id: 108.034XXX

Location: QUEENS NY

Project: ROUX Soil Density(pcf): 120

Client: ROUX

Depth (ft)	Sleeve Stress (psi)	Tip Stress UNC (psi)	Tip Stress COR (psi)	Ratio COR (%)	Pore Pressure (psi)	LFFD (V)	HFFD (V)	Excitation (Vdc)	Overburden (psi)	Eff. Overburden (psi)	Wet Density (pcf)	Class. FR (Rob. 1990)	Class. PP (Rob. 1990)
0	0	0	0	0	0	0	0	NM	0.00E+00	0.00E+00	120	-99	-99
0.17117	0	0.6	0.6	0	0.01	0.1492	0.0583	NM	1.43E-01	6.85E-02	120	-99	-99
0.20805	0	-0.9	-0.9	0	0.01	0.1494	0.0578	NM	1.73E-01	8.32E-02	120	-99	-99
0.23851	0	-0.9	-0.9	0	0.01	0.1497	0.0586	NM	1.99E-01	9.54E-02	120	-99	-99
0.2818	-0.05	-0.9	-0.9	5.85	0.01	0.1498	0.0589	NM	2.35E-01	1.13E-01	120	-99	-99
0.32109	-0.05	-0.9	-0.9	5.85	0.01	0.1493	0.0579	NM	2.68E-01	1.28E-01	120	-99	-99
0.36879	-0.05	-0.9	-0.9	5.92	0.06	0.15	0.0581	NM	3.07E-01	1.48E-01	120	-99	-99
0.42611	-0.05	-2.3	-2.3	2.2	0.01	0.1496	0.0577	NM	3.55E-01	1.70E-01	120	-99	-99
0.48684	-0.05	-2.3	-2.3	2.2	0.01	0.1494	0.058	NM	4.06E-01	1.95E-01	120	-99	-99
0.54918	-0.05	0.6	0.6	-8.72	0.01	0.1498	0.058	NM	4.58E-01	2.20E-01	120	-99	-99
0.61451	-0.07	0.6	0.6	-11.66	0.01	0.1502	0.0579	NM	5.12E-01	2.46E-01	120	-99	-99
0.67545	-0.07	-0.9	-0.9	7.38	0.01	0.1492	0.0581	NM	5.63E-01	2.70E-01	120	-99	-99
0.73998	-0.05	-0.9	-0.9	5.85	0.01	0.149	0.0584	NM	6.17E-01	2.96E-01	120	-99	-99
0.80092	-0.07	-0.9	-0.9	7.76	0.01	0.1489	0.0587	NM	6.67E-01	3.20E-01	120	-99	-99
0.86345	-0.05	0.6	0.6	-8.42	0.01	0.1608	0.0609	NM	7.20E-01	3.45E-01	120	-99	-99
0.92598	-0.03	-2.3	-2.3	1.1	0.01	0.1301	0.0502	NM	7.72E-01	3.70E-01	120	-99	-99
0.98852	-0.04	-0.9	-0.9	3.98	0.01	0.0905	0.0411	NM	8.24E-01	3.95E-01	120	-99	-99
1.05025	-0.04	-2.3	-2.3	1.86	0.01	0.0775	0.0402	NM	8.75E-01	4.20E-01	120	-99	-99
1.11358	-0.05	-0.9	-0.9	5.85	0.01	0.0762	0.0402	NM	9.28E-01	4.45E-01	120	-99	-99
1.17612	-0.05	5	5	-1.03	0.01	0.0765	0.0399	NM	9.80E-01	4.70E-01	120	-99	4
1.24186	-0.05	6.5	6.5	-0.8	0.06	0.0776	0.0393	NM	1.04E+00	4.97E-01	120	-99	4
1.44754	-0.05	2.1	2.1	-2.49	0.1	0.0826	0.0411	NM	1.21E+00	5.79E-01	120	-99	-99
1.50728	-0.02	3.5	3.5	-0.51	0.1	0.0822	0.0407	NM	1.26E+00	6.03E-01	120	-99	-99
1.56783	0.01	10.9	10.9	0.08	0.1	0.0849	0.0409	NM	1.31E+00	6.27E-01	120	-99	5
1.63316	-0.03	18.2	18.2	-0.15	0.1	0.0818	0.0402	NM	1.36E+00	6.53E-01	120	-99	5
1.69894	-0.05	15.3	15.3	-0.34	0.1	0.0776	0.0392	NM	1.42E+00	6.80E-01	120	-99	5
1.76028	-0.01	24.1	24.1	-0.06	0.1	0.0778	0.0401	NM	1.47E+00	7.04E-01	120	-99	6
1.82003	-0.01	15.3	15.3	-0.05	0.1	0.0777	0.0404	NM	1.52E+00	7.28E-01	120	-99	5
1.88258	0	9.4	9.4	-0.05	0.1	0.0798	0.0407	NM	1.57E+00	7.53E-01	120	-99	4
1.94352	-0.01	7.9	8	-0.09	0.15	0.0791	0.0408	NM	1.62E+00	7.77E-01	120	-99	4
2.00487	-0.02	7.9	7.9	-0.27	0.1	0.0784	0.0412	NM	1.67E+00	8.02E-01	120	-99	4
2.06822	0	21.1	21.2	-0.02	0.15	0.0783	0.0417	NM	1.72E+00	8.27E-01	120	-99	5
2.13357	0.01	32.9	32.9	0.03	0.1	0.0782	0.0413	NM	1.78E+00	8.53E-01	120	-99	6
2.19612	0.01	5	5	0.18	0.15	0.0781	0.0412	NM	1.83E+00	8.78E-01	120	1	-99
2.25707	-0.01	2.1	2.1	-0.34	0.1	0.0776	0.0411	NM	1.88E+00	9.03E-01	120	-99	-99
2.31922	-0.02	0.6	0.6	-3.47	0.1	0.0771	0.0415	NM	1.93E+00	9.28E-01	120	-99	-99
2.38217	0	0.6	0.6	-0.71	0.1	0.0776	0.0412	NM	1.99E+00	9.53E-01	120	-99	-99
2.44311	-0.01	0.6	0.6	-1.16	0.2	0.0771	0.0411	NM	2.04E+00	9.77E-01	120	-99	-99
2.50806	-0.02	0.6	0.6	-3.26	0.3	0.0787	0.0412	NM	2.09E+00	1.00E+00	120	-99	-99

2.57061	-0.04	0.6	0.7	-5.87	0.4	0.0786	0.0416	NM	2.14E+00	1.03E+00	120	-99	-99
2.63436	-0.05	2.1	2.1	-2.42	0.4	0.0769	0.0404	NM	2.20E+00	1.05E+00	120	-99	-99
2.69451	-0.05	3.5	3.6	-1.43	0.4	0.0775	0.0397	NM	2.25E+00	1.08E+00	120	-99	-99
2.75746	-0.05	9.4	9.5	-0.54	0.5	0.0752	0.0351	NM	2.30E+00	1.10E+00	120	-99	4
2.8184	-0.03	12.3	12.4	-0.28	0.55	0.0782	0.0398	NM	2.35E+00	1.13E+00	120	-99	4
2.88015	0	19.7	19.8	-0.03	0.55	0.0766	0.0358	NM	2.40E+00	1.15E+00	120	-99	5
2.9439	-0.01	27	27.1	-0.03	0.55	0.0717	0.0311	NM	2.45E+00	1.18E+00	120	-99	5
3.00806	-0.01	34.3	34.4	-0.02	0.6	0.0752	0.0367	NM	2.51E+00	1.20E+00	120	-99	5
3.069	0.01	46.1	46.2	0.02	0.6	0.0719	0.0346	NM	2.56E+00	1.23E+00	120	-99	6
3.13075	-0.02	66.6	66.7	-0.03	0.65	0.0672	0.0287	NM	2.61E+00	1.25E+00	120	-99	6
3.19289	-0.03	100.4	100.5	-0.03	0.65	0.046	0.0192	NM	2.66E+00	1.28E+00	120	-99	6
3.25745	4.25	153.2	153.3	2.77	0.65	0.0158	0.0083	NM	2.72E+00	1.30E+00	120	5	6
3.3212	9.75	233.9	234	4.17	0.65	0.0136	0.0031	NM	2.77E+00	1.33E+00	120	6	7
3.39057	8.6	778.2	778.3	1.11	0.8	0.0243	0.0017	NM	2.83E+00	1.36E+00	120	6	7
3.43427	7.38	1086.3	1086.4	0.68	0.85	0.0218	0.0008	NM	2.86E+00	1.37E+00	120	7	7
3.47517	6.55	1630.6	1630.8	0.4	0.95	0.0186	0.0001	NM	2.90E+00	1.39E+00	120	-99	-99
3.50925	7.03	2352.4	2352.7	0.3	1.2	0.0263	0.0007	NM	2.92E+00	1.40E+00	120	-99	-99
3.55736	11.59	2744.2	2744.4	0.42	1.15	0.0364	0.0012	NM	2.96E+00	1.42E+00	120	-99	-99
3.59946	13.48	2238	2238.2	0.6	1.05	0.0453	0.0012	NM	3.00E+00	1.44E+00	120	-99	-99
3.64076	13.67	1796.4	1796.5	0.76	0.65	0.0592	0.0012	NM	3.03E+00	1.46E+00	120	-99	-99
3.67925	11.85	1748	1748.1	0.68	0.7	0.0659	0.001	NM	3.07E+00	1.47E+00	120	-99	-99
3.72135	10.9	1737.7	1737.9	0.63	0.8	0.0695	0.0006	NM	3.10E+00	1.49E+00	120	-99	-99
3.7819	10.29	1720.1	1720.2	0.6	0.7	0.1035	0.0008	NM	3.15E+00	1.51E+00	120	-99	-99
3.84645	11.28	1755.3	1755.4	0.64	0.6	0.1368	0.0001	NM	3.21E+00	1.54E+00	120	-99	-99
3.90659	11.5	1743.6	1743.7	0.66	0.6	0.1359	0.0009	NM	3.26E+00	1.56E+00	120	-99	-99
3.97075	13.51	1482.4	1482.5	0.91	0.55	0.186	0	NM	3.31E+00	1.59E+00	120	7	7
4.0349	12.71	1390	1390.1	0.91	0.65	0.1715	0.0006	NM	3.36E+00	1.61E+00	120	7	7
4.09624	10.32	1560.2	1560.3	0.66	0.8	0.1131	0.0002	NM	3.41E+00	1.64E+00	120	7	7
4.15799	8.56	1573.4	1573.5	0.54	0.55	0.1158	0.001	NM	3.47E+00	1.66E+00	120	7	7
4.21813	7.82	1541.1	1541.2	0.51	0.65	0.1352	0.0013	NM	3.52E+00	1.69E+00	120	7	7
4.27467	5.07	1406.1	1406.2	0.36	0.8	0.1651	0.0487	NM	3.56E+00	1.71E+00	120	7	7
4.33762	4.3	1428.1	1428.3	0.3	0.8	0.1756	0.0588	NM	3.62E+00	1.74E+00	120	7	7
4.40298	4.9	1505.9	1506	0.33	0.65	0.273	0.0691	NM	3.67E+00	1.76E+00	120	7	7
4.46713	4.59	1525	1525.1	0.3	0.7	0.2565	0.066	NM	3.72E+00	1.79E+00	120	7	7
4.52847	4.8	1479.5	1479.6	0.32	0.7	0.263	0.0703	NM	3.77E+00	1.81E+00	120	7	7
4.59102	5.56	1464.8	1465	0.38	0.8	0.3161	0.0756	NM	3.83E+00	1.84E+00	120	7	7
4.64717	6.65	1419.3	1419.5	0.47	1.1	0.4029	0.0827	NM	3.87E+00	1.86E+00	120	7	7
4.70735	6.88	1401.7	1401.9	0.49	1.15	0.4044	0.0814	NM	3.92E+00	1.88E+00	120	7	7
4.76831	7.05	1351.8	1352.1	0.52	1.15	0.3458	0.0778	NM	3.97E+00	1.91E+00	120	7	7
4.82809	7.1	1343	1343.2	0.53	1.05	0.4584	0.092	NM	4.02E+00	1.93E+00	120	7	7
4.89087	6.5	1365	1365.2	0.48	1.1	0.3174	0.0691	NM	4.08E+00	1.96E+00	120	7	7
4.95526	7.87	1406.1	1406.3	0.56	1.15	0.1907	0.0556	NM	4.13E+00	1.98E+00	120	7	7
5.02184	8.03	1549.9	1550.1	0.52	1.25	0.2072	0.0601	NM	4.19E+00	2.01E+00	120	7	7
5.08322	7.38	1614.5	1614.7	0.46	1.2	0.2123	0.0629	NM	4.24E+00	2.03E+00	120	7	7
5.1446	7.74	1681.9	1682.2	0.46	1.1	0.2108	0.0641	NM	4.29E+00	2.06E+00	120	7	7
5.20437	7.89	1605.7	1605.9	0.49	1.1	0.2405	0.0711	NM	4.34E+00	2.08E+00	120	7	7
5.26695	7.48	1573.4	1573.6	0.48	1.35	0.3839	0.0896	NM	4.39E+00	2.11E+00	120	7	7
5.32912	7.29	1513.2	1513.5	0.48	1.45	0.4349	0.0927	NM	4.44E+00	2.13E+00	120	7	7
5.39371	6.8	1557.2	1557.5	0.44	1.25	0.4235	0.0906	NM	4.50E+00	2.16E+00	120	7	7
5.4591	5.82	1480.9	1481.2	0.39	1.45	0.3764	0.0843	NM	4.55E+00	2.18E+00	120	7	7
5.52127	5.22	1407.6	1407.9	0.37	1.6	0.4059	0.0892	NM	4.60E+00	2.21E+00	120	7	7
5.58345	4.98	1341.6	1341.9	0.37	1.8	0.4821	0.1011	NM	4.65E+00	2.23E+00	120	7	7

5.64964	4.7	1293.1	1293.5	0.36	1.85	0.5632	0.1137	NM	4.71E+00	2.26E+00	120	7	7
5.71101	4.48	1255	1255.4	0.36	1.85	0.6125	0.1209	NM	4.76E+00	2.28E+00	120	7	7
5.77319	4.48	1227.1	1227.5	0.38	1.85	0.6004	0.1186	NM	4.81E+00	2.31E+00	120	7	7
5.83858	4.4	1250.6	1251	0.35	1.85	0.6095	0.1223	NM	4.87E+00	2.34E+00	120	7	7
5.90316	4.25	1263.8	1264.2	0.34	1.85	0.677	0.1303	NM	4.92E+00	2.36E+00	120	7	7
5.96494	4.14	1293.1	1293.5	0.32	1.9	0.8705	0.1568	NM	4.97E+00	2.39E+00	120	7	7
6.02752	4.11	1313.7	1314.1	0.31	1.95	0.9246	0.1612	NM	5.02E+00	2.41E+00	120	7	7
6.08849	4.07	1321	1321.4	0.31	1.95	0.9814	0.1734	NM	5.07E+00	2.44E+00	120	7	7
6.15067	4.04	1316.6	1317	0.31	1.95	1.0277	0.175	NM	5.13E+00	2.46E+00	120	7	7
6.21325	4.05	1302	1302.3	0.31	1.95	1.1634	0.1853	NM	5.18E+00	2.49E+00	120	7	7
6.27904	3.79	1294.8	1295	0.29	1.95	1.261	0.2045	NM	5.23E+00	2.51E+00	120	7	7
6.34041	3.82	1299	1299.4	0.28	2	1.255	0.2104	NM	5.28E+00	2.54E+00	120	7	7
6.40299	3.68	1312.2	1312.6	0.28	2.05	1.4865	0.2349	NM	5.34E+00	2.56E+00	120	7	7
6.46677	3.56	1335.7	1336.1	0.27	2	1.495	0.2374	NM	5.39E+00	2.59E+00	120	7	7
6.52895	3.36	1346	1346.4	0.25	2	1.4468	0.2545	NM	5.44E+00	2.61E+00	120	7	7
6.59193	3.33	1351.8	1352.2	0.25	2.1	1.663	0.2731	NM	5.49E+00	2.64E+00	120	7	7
6.65531	3.37	1363.6	1363.9	0.25	1.5	1.4772	0.2221	NM	5.55E+00	2.66E+00	120	7	7
6.7195	3.26	1360.6	1360.9	0.24	1.45	1.393	0.2216	NM	5.60E+00	2.69E+00	120	7	7
6.78167	3.19	1353.3	1353.6	0.24	1.4	1.3698	0.2046	NM	5.65E+00	2.71E+00	120	7	7
6.84185	3.29	1335.7	1336	0.25	1.45	1.0458	0.1737	NM	5.70E+00	2.74E+00	120	7	7
6.90362	3.36	1319.6	1319.8	0.25	1.4	0.9264	0.1579	NM	5.75E+00	2.76E+00	120	7	7
6.9648	3.38	1316.6	1316.9	0.26	1.45	0.6754	0.1205	NM	5.80E+00	2.79E+00	120	7	7
7.02798	3.38	1304.9	1305.2	0.26	1.5	0.3552	0.0772	NM	5.86E+00	2.81E+00	120	7	7
7.09015	3.3	1290.2	1290.5	0.26	1.45	0.3249	0.0769	NM	5.91E+00	2.84E+00	120	7	7
7.15474	3.04	1284.3	1284.6	0.24	1.45	0.2214	0.0613	NM	5.96E+00	2.86E+00	120	7	7
7.21812	2.7	1283.8	1284.1	0.21	1.5	0.213	0.0607	NM	6.01E+00	2.89E+00	120	7	7
7.28271	2.49	1237.4	1237.7	0.2	1.45	0.2098	0.0601	NM	6.07E+00	2.91E+00	120	7	7
7.34609	2.53	1213.9	1214.2	0.21	1.45	0.2057	0.0611	NM	6.12E+00	2.94E+00	120	7	7
7.40907	2.47	1181.6	1181.9	0.21	1.4	0.1942	0.0586	NM	6.17E+00	2.96E+00	120	7	7
7.47044	2.28	1158.2	1158.4	0.2	1.45	0.2014	0.0584	NM	6.23E+00	2.99E+00	120	7	7
7.53503	1.93	1133.2	1133.5	0.17	1.45	0.2266	0.0631	NM	6.28E+00	3.01E+00	120	7	7
7.5964	1.33	1115.6	1115.9	0.12	1.5	0.2365	0.0663	NM	6.33E+00	3.04E+00	120	7	7
7.66099	0.7	1114.2	1114.4	0.06	1.45	0.2745	0.069	NM	6.38E+00	3.06E+00	120	-99	7
7.72316	0.16	1108.3	1108.6	0.01	1.45	0.2656	0.0716	NM	6.44E+00	3.09E+00	120	-99	7
7.78655	0.15	1117.1	1117.4	0.01	1.45	0.2852	0.0709	NM	6.49E+00	3.12E+00	120	-99	7
7.84872	0.13	1123	1123.2	0.01	1.4	0.3978	0.0853	NM	6.54E+00	3.14E+00	120	-99	7
8.06462	0.13	1193.6	1193.9	0.01	1.29	0.3002	0.0756	NM	6.72E+00	3.23E+00	120	-99	7
8.12642	0.11	1215.6	1215.8	0.01	1.19	0.2563	0.0696	NM	6.77E+00	3.25E+00	120	-99	7
8.18863	0.14	1239.1	1239.3	0.01	1.29	0.2382	0.0658	NM	6.82E+00	3.28E+00	120	-99	7
8.25445	0.14	1231.7	1232	0.01	1.24	0.2129	0.0608	NM	6.88E+00	3.30E+00	120	-99	7
8.32147	0.15	1255.2	1255.4	0.01	1.29	0.1758	0.0555	NM	6.94E+00	3.33E+00	120	-99	7
8.38087	0.52	1269.8	1270.1	0.04	1.19	0.171	0.0539	NM	6.98E+00	3.35E+00	120	-99	7
8.44388	1.53	1283	1283.3	0.12	1.29	0.1632	0.0529	NM	7.04E+00	3.38E+00	120	7	7
8.50408	2.06	1313.8	1314.1	0.16	1.24	0.1733	0.0541	NM	7.09E+00	3.40E+00	120	7	7
8.56709	2.02	1328.5	1328.7	0.15	1.24	0.1544	0.0516	NM	7.14E+00	3.43E+00	120	7	7
8.6289	2.03	1369.5	1369.8	0.15	1.19	0.1595	0.0515	NM	7.19E+00	3.45E+00	120	7	7
8.69431	1.96	1412	1412.3	0.14	1.34	0.1197	0.0296	NM	7.25E+00	3.48E+00	120	7	7
8.75933	2.14	1425.2	1425.5	0.15	1.29	0.0979	0.0199	NM	7.30E+00	3.50E+00	120	7	7
8.82275	2.59	1423.8	1424	0.18	1.29	0.1053	0.037	NM	7.35E+00	3.53E+00	120	7	7
8.88335	3.17	1459	1459.2	0.22	1.29	0.1008	0.039	NM	7.40E+00	3.55E+00	120	7	7
8.94716	3.59	1459	1459.3	0.25	1.69	0.1058	0.0439	NM	7.46E+00	3.58E+00	120	7	7
9.00896	3.57	1472.2	1472.4	0.24	1.44	0.0994	0.0431	NM	7.51E+00	3.60E+00	120	7	7

9.07157	3.26	1482.4	1482.7	0.22	1.49	0.0961	0.0428	NM	7.56E+00	3.63E+00	120	7	7
9.13659	2.96	1504.4	1504.7	0.2	1.44	0.0969	0.0424	NM	7.61E+00	3.66E+00	120	7	7
9.20201	3.13	1546.9	1547.2	0.2	1.44	0.0964	0.0423	NM	7.67E+00	3.68E+00	120	7	7
9.26301	3.43	1617.3	1617.6	0.21	1.44	0.0927	0.0417	NM	7.72E+00	3.71E+00	120	7	7
9.32723	3.24	1703.8	1704.2	0.19	2.09	0.0852	0.0389	NM	7.77E+00	3.73E+00	120	7	7
9.38703	3.26	1781.5	1781.9	0.18	1.99	0.0821	0.0369	NM	7.82E+00	3.76E+00	120	7	7
9.45044	3.54	1873.9	1874.2	0.19	1.84	0.0808	0.0347	NM	7.88E+00	3.78E+00	120	7	7
9.51184	4.01	1983.8	1984.2	0.2	1.79	0.0796	0.0339	NM	7.93E+00	3.81E+00	120	7	7
9.57766	4.12	2061.5	2061.9	0.2	1.89	0.0741	0.0278	NM	7.98E+00	3.83E+00	120	7	7
9.64027	3.82	2171.5	2171.8	0.18	1.89	0.0665	0.0199	NM	8.03E+00	3.86E+00	120	7	7
9.70188	3.85	2233	2233.4	0.17	1.84	0.0658	0.0185	NM	8.09E+00	3.88E+00	120	7	7
9.76629	4.1	2241.8	2242.2	0.18	1.89	0.0645	0.019	NM	8.14E+00	3.91E+00	120	7	7
9.8281	4.64	2296.1	2296.5	0.2	1.94	0.0582	0.0143	NM	8.19E+00	3.93E+00	120	7	7
9.89151	5.17	2303.4	2303.8	0.22	2.04	0.0612	0.013	NM	8.24E+00	3.96E+00	120	7	7
9.95412	5.45	2338.6	2339	0.23	2.04	0.0806	0.0387	NM	8.30E+00	3.98E+00	120	7	7
10.01753	5.61	2353.3	2353.8	0.24	1.99	0.0823	0.04	NM	8.35E+00	4.01E+00	120	7	7
10.08054	5.94	2365	2365.4	0.25	1.99	0.084	0.0411	NM	8.40E+00	4.03E+00	120	7	7
10.14114	6.09	2370.9	2371.2	0.26	1.94	0.0835	0.0418	NM	8.45E+00	4.06E+00	120	7	7
10.20174	6.05	2392.8	2393.2	0.25	1.99	0.0827	0.0416	NM	8.50E+00	4.08E+00	120	7	7
10.26395	5.96	2406	2406.4	0.25	1.99	0.0821	0.0411	NM	8.55E+00	4.11E+00	120	7	7
10.32656	6.03	2417.8	2418.2	0.25	2.04	0.081	0.0414	NM	8.61E+00	4.13E+00	120	7	7
10.38957	7.18	2429.5	2429.9	0.3	2.24	0.0816	0.041	NM	8.66E+00	4.16E+00	120	7	7
10.45378	7.85	2442.7	2443.2	0.32	2.49	0.0809	0.0405	NM	8.71E+00	4.18E+00	120	7	7
10.51559	7.39	2439.8	2440.2	0.3	2.39	0.0811	0.0409	NM	8.76E+00	4.21E+00	120	7	7
10.5786	7.25	2441.2	2441.7	0.3	2.64	0.0805	0.0412	NM	8.82E+00	4.23E+00	120	7	7
10.64281	7.72	2428	2428.5	0.32	2.64	0.0803	0.0409	NM	8.87E+00	4.26E+00	120	7	7
10.70542	10.53	2441.2	2441.7	0.43	2.54	0.0802	0.0409	NM	8.92E+00	4.28E+00	120	7	7
10.76643	11.79	2433.9	2434.4	0.48	2.69	0.0805	0.041	NM	8.97E+00	4.31E+00	120	7	7
10.83185	9.92	2441.2	2441.7	0.41	2.74	0.0806	0.0407	NM	9.03E+00	4.33E+00	120	7	7
10.89285	7.63	2439.8	2440.3	0.31	2.74	0.0811	0.0407	NM	9.08E+00	4.36E+00	120	7	7
10.95706	7.3	2501.3	2501.9	0.29	2.89	0.0812	0.0413	NM	9.13E+00	4.38E+00	120	7	7
11.01987	8.66	2491.1	2491.6	0.35	2.94	0.0803	0.0407	NM	9.18E+00	4.41E+00	120	7	7
11.08188	9.55	2480.8	2481.5	0.38	3.44	0.0804	0.0409	NM	9.24E+00	4.43E+00	120	7	7
11.14409	10.28	2558.5	2559.1	0.4	3.29	0.081	0.041	NM	9.29E+00	4.46E+00	120	7	7
11.2067	11.57	2574.6	2575.2	0.45	3.04	0.0813	0.0409	NM	9.34E+00	4.48E+00	120	7	7
11.24643	11.01	2504	2504.9	0.44	4.47	0.0813	0.0409	NM	9.37E+00	4.50E+00	120	7	7
11.30902	10.39	2548.1	2548.9	0.41	4.02	0.081	0.041	NM	9.42E+00	4.52E+00	120	7	7
11.37081	10.39	2581.8	2582.6	0.4	4.02	0.0811	0.0408	NM	9.48E+00	4.55E+00	120	7	7
11.431	10.39	2608.3	2609	0.4	3.92	0.0805	0.0407	NM	9.53E+00	4.57E+00	120	7	7
11.49519	10.52	2640.6	2641.3	0.4	3.97	0.0805	0.0408	NM	9.58E+00	4.60E+00	120	7	7
11.5614	10.52	2675.8	2676.6	0.39	4.02	0.0804	0.0408	NM	9.64E+00	4.63E+00	120	7	7
11.62239	10.58	2706.6	2707.4	0.39	4.12	0.0809	0.0406	NM	9.69E+00	4.65E+00	120	7	7
11.68418	10.57	2697.8	2698.6	0.39	4.17	0.0812	0.0409	NM	9.74E+00	4.67E+00	120	7	7
11.74517	10.32	2705.1	2706	0.38	4.22	0.0802	0.0404	NM	9.79E+00	4.70E+00	120	7	7
11.80857	10.07	2715.4	2716.2	0.37	4.27	0.0798	0.0401	NM	9.84E+00	4.72E+00	120	7	7
11.87036	9.93	2731.6	2732.4	0.36	4.37	0.0795	0.0397	NM	9.89E+00	4.75E+00	120	7	7
11.93456	10.03	2730.1	2730.9	0.37	4.37	0.0791	0.0395	NM	9.95E+00	4.77E+00	120	7	7
11.99956	10.35	2687.5	2688.4	0.38	4.57	0.0786	0.0395	NM	1.00E+01	4.80E+00	120	7	7
12.06215	10.32	2628.8	2629.7	0.39	4.57	0.0779	0.0387	NM	1.01E+01	4.83E+00	120	7	7
12.12394	9.71	2581.8	2582.7	0.38	4.52	0.0779	0.0383	NM	1.01E+01	4.85E+00	120	7	7
12.18614	8.96	2587.2	2588	0.35	4.47	0.0782	0.0382	NM	1.02E+01	4.87E+00	120	7	7
12.24953	8.65	2486.4	2487	0.35	2.87	0.0785	0.038	NM	1.02E+01	4.90E+00	120	7	7

12.31172	8.68	2414.5	2415.1	0.36	2.87	0.0787	0.0383	NM	1.03E+01	4.93E+00	120	7	7
12.37472	8.56	2354.3	2354.9	0.36	2.82	0.0703	0.0327	NM	1.03E+01	4.95E+00	120	7	7
12.44213	8.69	2278	2278.5	0.38	2.72	0.0552	0.0179	NM	1.04E+01	4.98E+00	120	7	7
12.50352	8.38	2238.4	2238.9	0.37	2.82	0.063	0.0201	NM	1.04E+01	5.00E+00	120	7	7
12.56611	7.81	2197.3	2197.8	0.35	2.87	0.074	0.0334	NM	1.05E+01	5.03E+00	120	7	7
12.6275	7.33	2166.4	2167	0.34	2.92	0.079	0.039	NM	1.05E+01	5.05E+00	120	7	7
12.69009	6.87	2144.4	2145	0.32	2.97	0.0796	0.0401	NM	1.06E+01	5.08E+00	120	7	7
12.75108	6.34	2065.1	2065.7	0.31	2.92	0.0807	0.0411	NM	1.06E+01	5.10E+00	120	7	7
12.81568	6.12	2041.7	2042.3	0.3	3.17	0.0815	0.0415	NM	1.07E+01	5.13E+00	120	7	7
12.88028	5.85	2046.1	2046.7	0.28	3.17	0.0814	0.0414	NM	1.07E+01	5.15E+00	120	7	7
12.94328	5.47	1955.1	1955.7	0.28	3.22	0.081	0.0412	NM	1.08E+01	5.18E+00	120	7	7
13.00547	5.7	1934.5	1935.1	0.29	3.22	0.0811	0.0408	NM	1.08E+01	5.20E+00	120	7	7
13.06767	5.55	1884.6	1885.2	0.29	3.17	0.0809	0.0396	NM	1.09E+01	5.23E+00	120	7	7
13.13066	5.63	1814.1	1814.7	0.31	3.12	0.0787	0.0394	NM	1.09E+01	5.25E+00	120	7	7
13.19205	5.55	1784.8	1785.4	0.31	3.17	0.0784	0.0389	NM	1.10E+01	5.28E+00	120	7	7
13.25585	5.7	1755.4	1756.1	0.32	3.52	0.0779	0.0387	NM	1.11E+01	5.30E+00	120	7	7
13.32005	6.2	1737.8	1738.5	0.36	3.42	0.0787	0.0377	NM	1.11E+01	5.33E+00	120	7	7
13.38104	6.37	1717.3	1718	0.37	3.87	0.0786	0.0378	NM	1.12E+01	5.35E+00	120	7	7
13.44082	6.07	1695.2	1696	0.36	3.72	0.0767	0.0383	NM	1.12E+01	5.38E+00	120	7	7
13.50382	5.59	1649.7	1650.4	0.34	3.52	0.0771	0.0382	NM	1.13E+01	5.40E+00	120	7	7
13.56681	5.29	1660	1660.7	0.32	3.47	0.0767	0.0386	NM	1.13E+01	5.43E+00	120	7	7
13.6286	5.05	1596.9	1597.5	0.32	3.22	0.0719	0.0368	NM	1.14E+01	5.45E+00	120	7	7
13.6924	4.82	1505.9	1506.5	0.32	3.37	0.0439	0.0263	NM	1.14E+01	5.48E+00	120	7	7
13.75539	4.94	1495.6	1496.3	0.33	3.42	0.0327	0.0095	NM	1.15E+01	5.50E+00	120	7	7
13.81759	6.48	1478	1478.7	0.44	3.42	0.0292	0.0039	NM	1.15E+01	5.53E+00	120	6	7
13.88178	7.63	1472.1	1472.8	0.53	3.42	0.0286	0.0014	NM	1.16E+01	5.55E+00	120	6	7
13.94438	7.52	1486.8	1487.5	0.51	3.42	0.0287	0.0021	NM	1.16E+01	5.58E+00	120	6	7
14.00657	6.93	1516.2	1516.8	0.46	3.42	0.0277	0.0015	NM	1.17E+01	5.60E+00	120	6	7
14.07037	5.8	1538.2	1538.8	0.38	3.37	0.0303	0.0021	NM	1.17E+01	5.63E+00	120	7	7
14.13296	4.6	1507.4	1508	0.31	3.32	0.0406	0.0021	NM	1.18E+01	5.65E+00	120	7	7
14.19596	3.76	1389.9	1390.6	0.27	3.27	0.0477	0.0124	NM	1.18E+01	5.68E+00	120	7	7
14.25735	2.94	1376.7	1377.3	0.21	3.17	0.0358	0.0082	NM	1.19E+01	5.70E+00	120	7	7
14.32235	2.2	1341.5	1342.1	0.16	3.12	0.0602	0.0256	NM	1.19E+01	5.73E+00	120	7	7
14.38414	2.21	1272.5	1273.1	0.17	3.07	0.0675	0.0345	NM	1.20E+01	5.75E+00	120	7	7
14.44874	2.78	1244.6	1245.2	0.22	3.12	0.0698	0.037	NM	1.20E+01	5.78E+00	120	7	7
14.65807	2.6	1200.7	1201.3	0.22	3.15	0.0687	0.0355	NM	1.22E+01	5.86E+00	120	7	7
14.72342	2.63	1212.4	1213	0.22	3.1	0.0686	0.0351	NM	1.23E+01	5.89E+00	120	7	7
14.78758	2.55	1194.8	1195.5	0.21	3.45	0.0684	0.0351	NM	1.23E+01	5.92E+00	120	7	7
14.85053	2.4	1175.8	1176.4	0.2	3.3	0.0679	0.0351	NM	1.24E+01	5.94E+00	120	7	7
14.91308	2.51	1139.1	1139.7	0.22	3.05	0.0679	0.035	NM	1.24E+01	5.97E+00	120	6	7
14.97362	2.65	1105.3	1105.9	0.24	2.95	0.0687	0.035	NM	1.25E+01	5.99E+00	120	6	7
15.03737	2.5	1071.6	1072.2	0.23	2.85	0.0688	0.0354	NM	1.25E+01	6.02E+00	120	6	7
15.09992	2.2	1038.4	1038.9	0.21	2.65	0.0686	0.0357	NM	1.26E+01	6.04E+00	120	6	7
15.16488	2.01	999.7	1000.2	0.2	2.55	0.0589	0.027	NM	1.26E+01	6.07E+00	120	6	6
15.23143	2.07	988.4	989.9	0.21	2.6	0.0415	0.0099	NM	1.27E+01	6.09E+00	120	6	6
15.29478	2.07	966	966.5	0.21	2.6	0.0358	0.0049	NM	1.28E+01	6.12E+00	120	6	6
15.35653	2.45	963	963.5	0.25	2.55	0.0238	0.0034	NM	1.28E+01	6.14E+00	120	6	6
15.41948	2.67	988	988.5	0.27	2.7	0.0115	0.0019	NM	1.29E+01	6.17E+00	120	6	6
15.48243	2.24	988	988.5	0.23	2.65	0.0037	0.0009	NM	1.29E+01	6.19E+00	120	6	6
15.54458	1.92	1001.2	1001.7	0.19	2.65	0.0039	0.0009	NM	1.30E+01	6.22E+00	120	6	6
15.60994	1.95	1030.5	1031.1	0.19	2.75	0.003	0.0009	NM	1.30E+01	6.24E+00	120	6	6
15.67649	3.29	1083.3	1083.9	0.3	2.8	0.0034	0.0006	NM	1.31E+01	6.27E+00	120	6	7

15.73784	4	1142	1142.6	0.35	2.85	0.0041	0.0007	NM	1.31E+01	6.30E+00	120	6	7
15.80239	3.75	1178.7	1179.3	0.32	2.95	0.0049	0.0008	NM	1.32E+01	6.32E+00	120	6	7
15.86294	3.67	1225.7	1226.2	0.3	2.95	0.006	0.0008	NM	1.32E+01	6.35E+00	120	6	7
15.92749	3.36	1287.3	1287.8	0.26	2.95	0.0063	0.0002	NM	1.33E+01	6.37E+00	120	6	7
15.98804	3.09	1253.5	1254.1	0.25	2.85	0.0066	0.0004	NM	1.33E+01	6.40E+00	120	6	7
16.05419	3.1	1283.8	1284.5	0.24	3.8	0.006	0.0009	NM	1.34E+01	6.42E+00	120	6	7
16.11754	3.21	1266.7	1267.5	0.25	3.75	0.0053	0.0009	NM	1.34E+01	6.45E+00	120	6	7
16.17929	3.19	1271.1	1271.9	0.25	3.7	0.0048	0.0006	NM	1.35E+01	6.47E+00	120	6	7
16.24424	3.16	1259.4	1260.1	0.25	3.6	0.0041	0.0012	NM	1.35E+01	6.50E+00	120	6	7
16.30679	3.05	1219.8	1220.5	0.25	3.6	0.0045	0.0011	NM	1.36E+01	6.52E+00	120	6	7
16.37055	2.88	1186	1186.7	0.24	3.5	0.0037	0.0011	NM	1.36E+01	6.55E+00	120	6	7
16.4339	2.51	1142	1142.7	0.22	3.45	0.0036	0.0007	NM	1.37E+01	6.57E+00	120	6	7
16.49845	2.41	1109.8	1110.4	0.22	3.4	0.0046	0.0012	NM	1.38E+01	6.60E+00	120	6	6
16.5606	2.44	1065.7	1066.4	0.23	3.3	0.0051	0.0007	NM	1.38E+01	6.62E+00	120	6	6
16.62235	2.25	1023.2	1023.8	0.22	3.35	0.0063	0	NM	1.39E+01	6.65E+00	120	6	6
16.68449	2.12	990.9	991.5	0.21	3.15	0.0094	0.0001	NM	1.39E+01	6.67E+00	120	6	6
16.74584	2.23	955.7	956.3	0.23	2.95	0.0175	0.0006	NM	1.40E+01	6.70E+00	120	6	6
16.80959	2.35	875	875.5	0.27	2.75	0.0176	0.0014	NM	1.40E+01	6.72E+00	120	6	6
16.87334	2.24	844.2	844.7	0.27	2.85	0.0176	0.0009	NM	1.41E+01	6.75E+00	120	6	6
16.9383	2.09	819.3	819.8	0.26	2.85	0.0186	0.0005	NM	1.41E+01	6.78E+00	120	6	6
17.00125	1.87	779.6	780.2	0.24	2.8	0.0186	0.0004	NM	1.42E+01	6.80E+00	120	6	6
17.0658	1.85	748.8	749.4	0.22	2.8	0.0186	0.0006	NM	1.42E+01	6.83E+00	120	6	6
17.12875	1.55	723.9	724.4	0.21	2.85	0.0195	0.0009	NM	1.43E+01	6.85E+00	120	6	6
17.1929	1.54	709.2	709.8	0.22	2.8	0.0197	0.0008	NM	1.43E+01	6.88E+00	120	6	6
17.25465	1.62	696	696.6	0.23	2.8	0.0192	0.0011	NM	1.44E+01	6.90E+00	120	6	6
17.32041	1.55	703.4	703.9	0.22	2.85	0.0188	0.0011	NM	1.44E+01	6.93E+00	120	6	6
17.38215	1.18	722.4	723	0.16	2.95	0.0177	0.0011	NM	1.45E+01	6.95E+00	120	6	6
17.44671	0.79	754.7	755.3	0.1	2.95	0.0176	0.0012	NM	1.45E+01	6.98E+00	120	6	6
17.51046	0.56	792.8	793.4	0.07	3	0.0172	0.0006	NM	1.46E+01	7.00E+00	120	-99	6
17.57381	0.55	800.2	800.8	0.07	3.35	0.0169	0.0013	NM	1.46E+01	7.03E+00	120	-99	6
17.63676	0.53	816.3	817	0.07	3.45	0.0166	0.0014	NM	1.47E+01	7.06E+00	120	-99	6
17.83086	0.53	860.5	861.3	0.06	4.01	0.0171	0.0005	NM	1.49E+01	7.13E+00	120	-99	6
17.89342	0.53	867.8	868.6	0.06	3.96	0.0171	0.0003	NM	1.49E+01	7.16E+00	120	-99	6
17.95478	0.56	860.5	861.3	0.06	3.96	0.0172	0.0009	NM	1.50E+01	7.18E+00	120	-99	6
18.02096	0.99	854.8	855.4	0.12	4.01	0.0173	0.001	NM	1.50E+01	7.21E+00	120	6	6
18.08593	1.4	856.1	856.9	0.16	3.96	0.0175	0.0003	NM	1.51E+01	7.23E+00	120	6	6
18.1525	1.44	867.8	868.6	0.17	4.16	0.0182	0.0007	NM	1.51E+01	7.26E+00	120	6	6
18.21286	1.52	898.6	899.4	0.17	4.16	0.0185	0.001	NM	1.52E+01	7.29E+00	120	6	6
18.27562	1.58	960.2	961.1	0.16	4.26	0.0191	0.0006	NM	1.52E+01	7.31E+00	120	6	6
18.33859	1.72	1046.8	1047.6	0.16	4.36	0.0195	0.0003	NM	1.53E+01	7.34E+00	120	6	6
18.39995	1.93	1077.6	1078.4	0.18	4.36	0.0201	0.0003	NM	1.53E+01	7.36E+00	120	6	6
18.46492	2.19	1115.7	1116.6	0.2	4.36	0.0212	0.0004	NM	1.54E+01	7.39E+00	120	6	6
18.53189	2.4	1143.6	1144.4	0.21	4.41	0.0217	0.0007	NM	1.54E+01	7.41E+00	120	6	6
18.59446	2.63	1175.9	1176.7	0.22	4.36	0.0219	0.0007	NM	1.55E+01	7.44E+00	120	6	6
18.65702	3.16	1205.2	1206	0.26	4.41	0.0246	0.0048	NM	1.56E+01	7.46E+00	120	6	6
18.72039	3.89	1258	1258.9	0.31	4.51	0.0263	0.008	NM	1.56E+01	7.49E+00	120	6	6
18.78456	4.55	1335.7	1336.6	0.34	4.56	0.025	0.0031	NM	1.57E+01	7.51E+00	120	6	7
18.84712	4.72	1444.3	1445.2	0.33	4.66	0.025	0.0016	NM	1.57E+01	7.54E+00	120	6	7
18.9129	4.7	1570.4	1571.4	0.3	4.91	0.0245	0.0018	NM	1.58E+01	7.57E+00	120	6	7
18.97746	4.33	1725.9	1726.9	0.25	5.06	0.0254	0.0016	NM	1.58E+01	7.59E+00	120	7	7
19.04123	3.91	1849.1	1850.1	0.21	5.21	0.0263	0.0012	NM	1.59E+01	7.62E+00	120	7	7
19.10259	3.8	1962	1963	0.19	5.01	0.0271	0.0005	NM	1.59E+01	7.64E+00	120	7	7

19.16676	3.74	2061.8	2062.3	0.18	2.81	0.0292	0.0006	NM	1.60E+01	7.67E+00	120	7	7
19.22892	3.58	2146.9	2147.2	0.17	1.52	0.0291	0.0012	NM	1.60E+01	7.69E+00	120	7	7
19.29148	3.57	2180.6	2180.8	0.16	1.27	0.0273	0.0013	NM	1.61E+01	7.72E+00	120	7	7
19.35606	3.62	2224.6	2224.8	0.16	1.27	0.0281	0.001	NM	1.61E+01	7.74E+00	120	7	7
19.42183	3.74	2280.3	2280.6	0.16	1.32	0.0282	0.0009	NM	1.62E+01	7.77E+00	120	7	7
19.48479	4	2334.6	2334.9	0.17	1.32	0.0242	0.001	NM	1.62E+01	7.79E+00	120	7	7
19.54856	4.16	2397.7	2398	0.17	1.47	0.021	0.0007	NM	1.63E+01	7.82E+00	120	7	7
19.61032	4.35	2438.8	2439	0.18	1.47	0.0244	0.0004	NM	1.63E+01	7.84E+00	120	7	7
19.67449	4.52	2498.9	2499.2	0.18	1.57	0.0289	0.0009	NM	1.64E+01	7.87E+00	120	7	7
19.73625	4.64	2529.7	2530	0.18	1.67	0.0467	0.0123	NM	1.65E+01	7.90E+00	120	7	7
19.80202	4.85	2569.3	2569.6	0.19	1.72	0.0712	0.0291	NM	1.65E+01	7.92E+00	120	7	7
19.86539	5.04	2581	2581.4	0.2	1.82	0.0705	0.0274	NM	1.66E+01	7.95E+00	120	7	7
19.92715	5.15	2573.7	2574.1	0.2	1.87	0.0692	0.0256	NM	1.66E+01	7.97E+00	120	7	7
19.98691	5.28	2563.4	2563.8	0.21	1.96	0.0727	0.0308	NM	1.67E+01	8.00E+00	120	7	7
20.05107	5.41	2535.6	2536	0.21	2.01	0.0733	0.0317	NM	1.67E+01	8.02E+00	120	7	7
20.11444	5.55	2496	2496.4	0.22	2.06	0.0745	0.0334	NM	1.68E+01	8.05E+00	120	7	7
20.1778	5.86	2440.2	2440.6	0.23	2.11	0.0757	0.035	NM	1.68E+01	8.07E+00	120	7	7
20.24197	5.67	2387.4	2387.8	0.24	2.11	0.077	0.0366	NM	1.69E+01	8.10E+00	120	7	7
20.30574	5.77	2340.5	2340.9	0.25	2.16	0.0782	0.0382	NM	1.69E+01	8.12E+00	120	7	7
20.3679	5.83	2317	2317.4	0.25	2.16	0.0794	0.0398	NM	1.70E+01	8.15E+00	120	7	7
20.43448	5.48	2299.4	2299.8	0.24	2.21	0.0806	0.0415	NM	1.70E+01	8.17E+00	120	7	7
20.49624	5.19	2327.3	2327.7	0.22	2.31	0.0807	0.0421	NM	1.71E+01	8.20E+00	120	7	7
20.55961	5.96	2358.1	2358.6	0.25	2.46	0.0749	0.0355	NM	1.71E+01	8.22E+00	120	7	7
20.62377	6.84	2353.7	2354.2	0.28	2.51	0.0247	0.018	NM	1.72E+01	8.25E+00	120	7	7
20.68754	7.14	2337.5	2338	0.31	2.56	0.0291	0.0039	NM	1.72E+01	8.28E+00	120	7	7
20.75091	8.13	2295	2295.5	0.35	2.56	0.0232	0.0076	NM	1.73E+01	8.30E+00	120	7	7
20.81467	9.35	2231.9	2232.4	0.42	2.51	0.0706	0.0318	NM	1.74E+01	8.33E+00	120	6	7
20.87804	12.06	2292.1	2292.6	0.53	2.56	0.0419	0.011	NM	1.74E+01	8.35E+00	120	6	7
20.94061	16.72	2425.6	2426.1	0.69	2.76	0.0739	0.0312	NM	1.75E+01	8.38E+00	120	6	7
21.00237	19.99	2669	2669.6	0.75	3.06	0.0828	0.0419	NM	1.75E+01	8.40E+00	120	6	7
21.06415	20.28	2971.2	2972.2	0.68	5.11	0.0818	0.0418	NM	1.76E+01	8.43E+00	120	6	7
21.12675	19.78	3205.9	3206.2	0.62	1.77	0.0819	0.0415	NM	1.76E+01	8.45E+00	120	6	7
21.18934	19.74	3475.8	3476	0.57	1.27	0.0814	0.0421	NM	1.77E+01	8.48E+00	120	7	7
21.25554	23.41	3697.3	3697.5	0.63	1.07	0.0809	0.0421	NM	1.77E+01	8.50E+00	120	7	7
21.32215	25.81	4021.4	4021.6	0.64	1.07	0.0818	0.0422	NM	1.78E+01	8.53E+00	120	7	7
21.38835	25.13	4330.9	4331.1	0.58	0.87	0.0809	0.0421	NM	1.78E+01	8.56E+00	120	7	7
21.44974	23.87	4077.2	4077.3	0.58	0.87	0.0806	0.042	NM	1.79E+01	8.58E+00	120	7	7
21.51033	22.16	4336.8	4336.9	0.51	0.82	0.0815	0.0421	NM	1.79E+01	8.60E+00	120	7	7
21.57533	23.3	4438	4438.1	0.52	0.72	0.0827	0.042	NM	1.80E+01	8.63E+00	120	7	7
21.63512	24.27	4474.7	4474.8	0.54	0.77	0.0827	0.0424	NM	1.80E+01	8.65E+00	120	7	7
21.70052	25.85	4546.5	4546.7	0.57	0.82	0.0838	0.0421	NM	1.81E+01	8.68E+00	120	7	7
21.76593	28.26	4662.4	4662.6	0.61	0.87	0.082	0.042	NM	1.81E+01	8.71E+00	120	7	7
21.83012	31.29	4834	4834.2	0.65	0.97	0.0823	0.0421	NM	1.82E+01	8.73E+00	120	7	7
21.89151	32.95	5171.4	5171.6	0.64	1.02	0.0814	0.042	NM	1.82E+01	8.76E+00	120	7	7
21.95531	34.41	5426.6	5426.8	0.63	1.07	0.0801	0.0418	NM	1.83E+01	8.78E+00	120	7	7
22.01911	38.28	5637.8	5638	0.68	1.07	0.0788	0.0416	NM	1.84E+01	8.81E+00	120	7	7
22.0797	43.77	5966.4	5966.6	0.73	1.22	0.0808	0.0419	NM	1.84E+01	8.83E+00	120	7	7
22.14269	52.12	6325.7	6326	0.82	1.17	0.0809	0.0419	NM	1.85E+01	8.86E+00	120	7	7
22.20769	60.75	6220.1	6220.4	0.98	1.17	0.0803	0.0419	NM	1.85E+01	8.88E+00	120	6	7
22.27109	69.16	6000.1	6000.3	1.15	1.07	0.0835	0.042	NM	1.86E+01	8.91E+00	120	6	7
22.33288	77.36	6135.1	6135.3	1.26	1.12	0.0831	0.0421	NM	1.86E+01	8.93E+00	120	6	7
22.39507	85.61	6438.7	6438.9	1.33	1.22	0.0826	0.0423	NM	1.87E+01	8.96E+00	120	6	7

22.80835	107.78	6239.2	6239.3	1.73	0.77	0.0806	0.0427	NM	1.90E+01	9.12E+00	120	8	7
22.85129	90.69	6645.5	6645.7	1.36	0.82	0.0813	0.0428	NM	1.90E+01	9.14E+00	120	6	7
22.90305	98.09	6036.8	6036.9	1.62	0.62	0.0823	0.0427	NM	1.91E+01	9.16E+00	120	8	7
22.93996	102.17	5850.5	5850.7	1.75	1.07	0.0828	0.0426	NM	1.91E+01	9.18E+00	120	8	7
22.99092	95.55	5395.8	5396	1.77	1.12	0.0832	0.0426	NM	1.92E+01	9.20E+00	120	8	7
23.02823	84.43	5695	5695.2	1.48	1.02	0.0835	0.0424	NM	1.92E+01	9.21E+00	120	6	7
23.07117	72.18	5969.3	5969.5	1.21	1.22	0.0834	0.0422	NM	1.92E+01	9.23E+00	120	6	7
23.11249	72.26	6190.8	6191	1.17	1.27	0.0829	0.0419	NM	1.93E+01	9.25E+00	120	6	7
23.15984	64.72	5850.5	5850.7	1.11	1.02	0.083	0.0418	NM	1.93E+01	9.26E+00	120	6	7
23.2108	54.07	4958.7	4958.9	1.09	1.17	0.0831	0.0417	NM	1.93E+01	9.28E+00	120	8	7
23.25815	52.85	4502.5	4502.7	1.17	1.12	0.0832	0.0417	NM	1.94E+01	9.30E+00	120	6	7
23.30549	46.47	4542.1	4542.2	1.02	0.57	0.0833	0.0417	NM	1.94E+01	9.32E+00	120	8	7
23.35364	48.6	4618.4	4618.5	1.05	0.52	0.0834	0.0417	NM	1.95E+01	9.34E+00	120	6	7
23.38453	51.96	4785.6	4785.7	1.09	0.52	0.0835	0.0417	NM	1.95E+01	9.35E+00	120	6	7
23.41945	48.58	4809.1	4809.2	1.01	0.57	0.0835	0.0417	NM	1.95E+01	9.37E+00	120	6	7
23.45556	43.47	4803.2	4803.3	0.91	0.57	0.0838	0.0417	NM	1.96E+01	9.38E+00	120	6	7
23.49207	38.45	4920.6	4920.7	0.78	0.62	0.0848	0.0417	NM	1.96E+01	9.40E+00	120	6	7
23.52939	36.98	4932.3	4932.4	0.75	0.62	0.0851	0.0419	NM	1.96E+01	9.41E+00	120	6	7
23.5675	36.25	5013	5013.1	0.72	0.67	0.0847	0.0422	NM	1.96E+01	9.43E+00	120	7	7
23.60562	36.52	5083.4	5083.5	0.72	0.62	0.0842	0.0418	NM	1.97E+01	9.44E+00	120	7	7
23.64775	36.85	5131.8	5131.9	0.72	0.57	0.0837	0.0411	NM	1.97E+01	9.46E+00	120	7	7
23.68748	37.41	5200.7	5200.8	0.72	0.57	0.0832	0.0409	NM	1.97E+01	9.48E+00	120	7	7
23.73281	38.63	5299	5299.1	0.73	0.62	0.0831	0.0408	NM	1.98E+01	9.49E+00	120	7	7
23.78016	39.41	5382.6	5382.7	0.73	0.57	0.0833	0.0408	NM	1.98E+01	9.51E+00	120	7	7
23.83152	40.95	5555.7	5555.8	0.74	0.62	0.0834	0.0408	NM	1.99E+01	9.53E+00	120	7	7
23.89813	40.35	5702.4	5702.5	0.71	0.67	0.0836	0.0408	NM	1.99E+01	9.56E+00	120	7	7
23.96112	37.09	5920.9	5921	0.63	0.67	0.0838	0.0408	NM	2.00E+01	9.58E+00	120	7	7
24.02211	33.93	6124.8	6124.9	0.55	0.72	0.0846	0.0419	NM	2.00E+01	9.61E+00	120	7	7
24.08511	29.93	6350.7	6350.8	0.47	0.77	0.0821	0.0419	NM	2.01E+01	9.63E+00	120	7	7
24.14931	29.43	6537	6537.1	0.45	0.77	0.0795	0.0418	NM	2.01E+01	9.66E+00	120	7	7
24.20949	31.43	6897.8	6897.9	0.46	0.82	0.0809	0.0419	NM	2.02E+01	9.68E+00	120	7	7
24.40241	34.52	7307	7307.1	0.47	0.49	0.0857	0.0417	NM	2.03E+01	9.76E+00	120	7	7
24.44573	34.5	7811.8	7811.9	0.44	0.39	0.0799	0.0355	NM	2.04E+01	9.78E+00	120	7	7
24.48383	34.71	7848.5	7848.6	0.44	0.59	0.0748	0.0301	NM	2.04E+01	9.79E+00	120	7	7
24.52073	35.47	8256.4	8256.4	0.43	-0.26	0.0698	0.0248	NM	2.04E+01	9.81E+00	120	7	7
24.55241	35.16	8475.1	8475.1	0.41	-0.01	0.0656	0.0203	NM	2.05E+01	9.82E+00	120	7	7
24.58249	33.79	8767.1	8767.2	0.39	0.09	0.0615	0.016	NM	2.05E+01	9.83E+00	120	7	7
24.61497	32.31	8908	8908	0.36	0.09	0.0571	0.0113	NM	2.05E+01	9.85E+00	120	7	7
24.82071	39	9467.1	9467.2	0.41	0.19	0.0678	0.0234	NM	2.07E+01	9.93E+00	120	7	7
24.86528	36.89	8935.9	8935.9	0.41	0.14	0.0644	0.0184	NM	2.07E+01	9.95E+00	120	7	7
25.10426	63.34	7940.9	7941	0.8	0.14	0.0688	0.0251	NM	2.09E+01	1.00E+01	120	7	7
25.17003	69.04	7191	7191	0.96	0.04	0	0	NM	2.10E+01	1.01E+01	120	6	7
25.23219	65.12	7113.3	7113.3	0.92	0.04	0	0	NM	2.10E+01	1.01E+01	120	6	7
25.29556	59.75	7073.6	7073.6	0.84	-0.01	0	0	NM	2.11E+01	1.01E+01	120	7	7
25.35892	54.38	7006.1	7006.1	0.78	-0.01	0	0	NM	2.11E+01	1.01E+01	120	7	7
25.42189	49.04	6769.9	6769.9	0.72	0.04	0	0	NM	2.12E+01	1.02E+01	120	7	7
25.48685	44.83	6680.3	6680.4	0.67	0.14	0	0	NM	2.12E+01	1.02E+01	120	7	7
25.55183	43.89	6623.1	6623.1	0.66	0.09	0	0	NM	2.13E+01	1.02E+01	120	7	7
25.61883	33.46	6197.5	6197.6	0.54	0.24	0	0	NM	2.15E+01	1.03E+01	120	7	7
25.88029	29.14	6064	6064	0.48	0.09	0	0	NM	2.16E+01	1.04E+01	120	7	7
25.94726	24.42	5865.9	5865.9	0.42	0.04	0	0	NM	2.16E+01	1.04E+01	120	7	7
26.01063	22.99	5835	5835.1	0.39	0.19	0	0	NM	2.17E+01	1.04E+01	120	7	7

26.07199	26.8	5917.2	5917.3	0.45	0.24	0	0	NM	2.17E+01	1.04E+01	120	7	7
26.33708	32.62	6292.9	6293	0.52	0.19	0	0	NM	2.20E+01	1.05E+01	120	7	7
26.40085	32.07	6325.2	6325.2	0.51	0.19	0	0	NM	2.20E+01	1.06E+01	120	7	7
26.46301	29.01	6331.1	6331.1	0.46	0.14	0	0	NM	2.21E+01	1.06E+01	120	7	7
26.52477	24.4	6295.8	6295.9	0.39	0.24	0	0	NM	2.21E+01	1.06E+01	120	7	7
26.58694	19.77	6348.7	6348.7	0.31	0.14	0	0	NM	2.22E+01	1.06E+01	120	7	7
26.6479	15.95	6386.8	6386.9	0.25	0.24	0	0	NM	2.22E+01	1.07E+01	120	7	7
26.71006	17.46	6517.4	6517.5	0.27	0.29	0	0	NM	2.23E+01	1.07E+01	120	7	7
26.77262	17.7	6653.9	6654	0.27	0.24	0	0	NM	2.23E+01	1.07E+01	120	7	7
26.98799	25.43	6697.9	6698.1	0.38	0.84	0	0	NM	2.25E+01	1.08E+01	120	7	7
27.05055	29.06	6752.2	6752.4	0.43	0.84	0	0	NM	2.25E+01	1.08E+01	120	7	7
27.11312	31.45	6831.5	6831.6	0.46	0.84	0	0	NM	2.26E+01	1.09E+01	120	7	7
27.17768	0	6896.1	6896.2	0	0.84	0	0	NM	2.27E+01	1.09E+01	120	-99	7
27.24105	0	6938.6	6938.8	0	0.84	0	0	NM	2.27E+01	1.09E+01	120	-99	7
27.30442	0	6944.5	6944.6	0	0.84	0	0	NM	2.28E+01	1.09E+01	120	-99	7
27.36658	0	7104.4	7104.6	0	0.89	0	0	NM	2.28E+01	1.10E+01	120	-99	7
27.43075	0	7248.3	7248.4	0	0.84	0	0	NM	2.29E+01	1.10E+01	120	-99	7
27.49452	0	7223.3	7223.4	0	0.24	0	0	NM	2.29E+01	1.10E+01	120	-99	7

APPENDIX B

Soil Boring Geologic Logs

ROUX ASSOCIATES, INC.
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SOIL BORING LOG

WELL NO.	NORTHING	EASTING		
HD-1	213082.6	1004228.7		
PROJECT NO./NAME		LOCATION		
05545Y08 / Amtrak		Sunnyside Yard		
APPROVED BY	LOGGED BY	Queens, NY		
H. Gregory	R. Kovacs			
DRILLING CONTRACTOR/DRILLER		GEOGRAPHIC AREA		
Roux Associates / Steve Spates		OU-3		
DRILL BIT DIAMETER/TYPE	BOREHOLE DIAMETER	DRILLING EQUIPMENT/METHOD	SAMPLING METHOD	START-FINISH DATE
2-Inch / Drive Sampler	2-inches	Geoprobe 5400 / Geoprobe	2" Macro-Core	12/18/03-12/18/03
LAND SURFACE ELEVATION	DEPTH TO WATER	BACKFILL		
18.70(FT.)	Not Measured	Clean Sand		

Depth, feet	Graphic Log	Visual Description	Blow Counts per 6"	PID Values (ppm)	REMARKS
		NOT SAMPLED			
4		Brown fine SAND, some Silt, trace Mica; wet		0.5	Sample HD-1/4-6 collected
6		Brown fine SAND, some Silt, trace Mica; wet		0.6	
8					Bottom of boring at 8 ft bgs

BORING/WELL 05545Y08.GPJ ROUX.GDT 5/3/04

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SOIL BORING LOG

WELL NO.	NORTHING	EASTING		
HD-2	212956.3	1004200.3		
PROJECT NO./NAME		LOCATION		
05545Y08 / Amtrak		Sunnyside Yard		
APPROVED BY	LOGGED BY	Queens, NY		
H. Gregory	R. Kovacs			
DRILLING CONTRACTOR/DRILLER		GEOGRAPHIC AREA		
Roux Associates / Steve Spates		OU-3		
DRILL BIT DIAMETER/TYPE	BOREHOLE DIAMETER	DRILLING EQUIPMENT/METHOD	SAMPLING METHOD	START-FINISH DATE
2-Inch / Drive Sampler	2-inches	Geoprobe 5400 / Geoprobe	2" Macro-Core	12/18/03-12/18/03
LAND SURFACE ELEVATION	DEPTH TO WATER	BACKFILL		
19.05(FT.)	Not Measured	Clean Sand		

Depth, feet	Graphic Log	Visual Description	Blow Counts per 6"	PID Values (ppm)	REMARKS
		NOT SAMPLED			
5					5
		Light gray to gray medium to fine SAND, trace Silt; wet		117	Strong hydrocarbon odor, sample HD-2/9-11 collected
10					10
		NOT SAMPLED			
		Gray to brown medium to fine SAND, trace Silt; wet		0.4	Sample HD-2/13-15 collected
15					Bottom of boring at 15 ft bgs 15

BORING/WELL 05545Y08.GPJ ROUX.GDT 5/3/04

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SOIL BORING LOG

WELL NO.	NORTHING	EASTING		
HD-3	212767.9	1003767.1		
PROJECT NO./NAME		LOCATION		
05545Y08 / Amtrak		Sunnyside Yard		
APPROVED BY	LOGGED BY	Queens, NY		
H. Gregory	R. Kovacs			
DRILLING CONTRACTOR/DRILLER		GEOGRAPHIC AREA		
UniTech Drilling / Steve Bartos		OU-3		
DRILL BIT DIAMETER/TYPE	BOREHOLE DIAMETER	DRILLING EQUIPMENT/METHOD	SAMPLING METHOD	START-FINISH DATE
2-inch / Drive Sampler	2-inches	Geoprobe 6610 / Geoprobe	2" Macro-Core	11/26/03-11/26/03
LAND SURFACE ELEVATION	DEPTH TO WATER	BACKFILL		
17.25(FT.)	Not Measured	Clean Sand		

Depth, feet	Graphic Log	Visual Description	Blow Counts per 6"	PID Values (ppm)	REMARKS
		NOT SAMPLED			
		Dark brown Silt and fine to coarse Sand, some Gravel; wet		5.0	
5		Brown to reddish brown to gray medium SAND, trace coarse Sand and Gravel; wet		79.8	Sample HD-3/5-7 collected
		Reddish brown medium to coarse SAND, some Gravel; wet		3.0	
				3.1	Sample HD-3/8-10 collected
10		Reddish brown medium to coarse SAND; wet		3.0	
		NOT SAMPLED			
15					
20		Brown medium to coarse SAND, some Gravel; wet		1.6	Sample HD-3/20-22 collected
					Bottom of boring at 22 ft bgs

BORING/WELL 05545Y08.GPJ ROUX.GDT 5/3/04

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SOIL BORING LOG

WELL NO.	NORTHING	EASTING		
HD-4	212753.5	1003630.3		
PROJECT NO./NAME		LOCATION		
05545Y08 / Amtrak		Sunnyside Yard		
APPROVED BY	LOGGED BY	Queens, NY		
H. Gregory	R. Kovacs			
DRILLING CONTRACTOR/DRILLER		GEOGRAPHIC AREA		
UniTech Drilling / Steve Bartos		OU-3		
DRILL BIT DIAMETER/TYPE	BOREHOLE DIAMETER	DRILLING EQUIPMENT/METHOD	SAMPLING METHOD	START-FINISH DATE
2-Inch / Drive Sampler	2-inches	Geoprobe 6610 / Geoprobe	2" Macro-Core	11/26/03-11/26/03
LAND SURFACE ELEVATION	DEPTH TO WATER	BACKFILL		
17.14(FT.)	Not Measured	Clean Sand		

Depth, feet	Graphic Log	Visual Description	Blow Counts per 6"	PID Values (ppm)	REMARKS
		Dark brown fine to medium SAND, some Silt, trace coarse Sand; moist		1.9	
		Dark brown fine to coarse SAND, some Gravel; moist		2.6	
		Light brown Silt and fine to coarse Sand; wet			
		Brown fine to coarse SAND, some Gravel; wet		1.4	
5		Gray to brown medium to coarse SAND, some Gravel, trace fine Sand; wet		60.7	Hydrocarbon odor and staining
		Gray medium SAND, trace coarse Sand and Gravel; wet		192	Hydrocarbon odor and sheen, sample HD-4/8-10 collected
10		Gray medium to coarse SAND; wet		56.7	Hydrocarbon odor
		Brown to reddish brown medium to coarse SAND, some Gravel, trace Silt; wet		12.3	
		Brown to reddish brown to gray medium to coarse SAND, trace Gravel; wet		2.3	Sample HD-4/14-16 collected
15		Brown fine to coarse SAND, trace Gravel; wet		1.7	
		Brown to reddish brown medium to coarse SAND, trace fine Sand and Gravel; wet		1.4	
20		Dark brown medium to coarse SAND, trace Gravel and fine Sand; wet		1.0	
		Brown medium to coarse SAND, trace Gravel and fine Sand; wet		1.5	
					Bottom of boring at 24 ft bgs

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SOIL BORING LOG

WELL NO.	NORTHING	EASTING		
HD-5B	213064.4	1003986		
PROJECT NO./NAME		LOCATION		
05545Y08 / Amtrak		Sunnyside Yard		
APPROVED BY	LOGGED BY	Queens, NY		
H. Gregory	R. Kovacs			
DRILLING CONTRACTOR/DRILLER		GEOGRAPHIC AREA		
UniTech Drilling / Steve Bartos		OU-3		
DRILL BIT DIAMETER/TYPE	BOREHOLE DIAMETER	DRILLING EQUIPMENT/METHOD	SAMPLING METHOD	START-FINISH DATE
2-Inch / Drive Sampler	2-inches	Geoprobe 6610 / Geoprobe	2" Macro-Core	11/25/03-11/25/03
LAND SURFACE ELEVATION	DEPTH TO WATER	BACKFILL		
18.87(FT.)	Not Measured	Clean Sand		

Depth, feet	Graphic Log	Visual Description	Blow Counts per 6"	PID Values (ppm)	REMARKS
		NOT SAMPLED			
		Dark brown fine to coarse SAND, some Silt, little Ballast; wet		90.4	Hydrocarbon odor and staining
					Sample HD-5B/9-11 collected
		Dark brown to black medium to coarse SAND, some gray to light gray Silt; wet		87.6	Hydrocarbon odor and staining
		Gray medium to coarse SAND, some Silt, trace Gravel and Ballast; wet		76.1	Hydrocarbon odor and staining
		NOT SAMPLED			
		Gray to grayish brown medium to coarse SAND, some Gravel, trace fine Sand and Silt; wet		245	Hydrocarbon odor, sample HD-5B/15-16 collected Refusal encountered at 16 feet bgs.

5 10 15

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SOIL BORING LOG

WELL NO.	NORTHING	EASTING		
HD-6	212955.7	1004049.8		
PROJECT NO./NAME		LOCATION		
05545Y08 / Amtrak		Sunnyside Yard		
APPROVED BY	LOGGED BY	Queens, NY		
H. Gregory	R. Kovacs			
DRILLING CONTRACTOR/DRILLER		GEOGRAPHIC AREA		
UniTech Drilling / Steve Bartos		OU-3		
DRILL BIT DIAMETER/TYPE	BOREHOLE DIAMETER	DRILLING EQUIPMENT/METHOD	SAMPLING METHOD	START-FINISH DATE
2-Inch / Drive Sampler	2-inches	Geoprobe 6610 / Geoprobe	2" Macro-Core	11/26/03-11/26/03
LAND SURFACE ELEVATION	DEPTH TO WATER	BACKFILL		
18.29(FT.)	Not Measured	Clean Sand		

Depth, feet	Graphic Log	Visual Description	Blow Counts per 6"	PID Values (ppm)	REMARKS
		NOT SAMPLED			
		Gray to dark gray fine to coarse SAND; wet		111	Hydrocarbon odor
				120	Strong hydrocarbon odor, sample HD-6/9-11 collected
		Gray to dark gray medium to coarse SAND; wet		65	Hydrocarbon odor
		Gray medium to coarse SAND, trace Gravel; wet		105	Hydrocarbon odor
		Gray medium to coarse SAND, some Gravel; wet		86.9	Hydrocarbon odor
				59.2	Hydrocarbon odor
		Gray medium to coarse SAND, trace Gravel; wet		1.5	Trace hydrocarbon odor
		Gray fine to coarse SAND; wet		0.7	Trace hydrocarbon odor, sample HD-6/18-20 collected
					Bottom of boring at 20 ft bgs

5 10 15 20

BORING/WELL 05545Y08.GPJ ROUX.GDT 5/3/04

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SOIL BORING LOG

WELL NO.	NORTHING	EASTING		
HD-7	212973.3	1003908.3		
PROJECT NO./NAME		LOCATION		
05545Y08 / Amtrak		Sunnyside Yard		
APPROVED BY	LOGGED BY	Queens, NY		
H. Gregory	R. Kovacs			
DRILLING CONTRACTOR/DRILLER		GEOGRAPHIC AREA		
UniTech Drilling / Steve Bartos		OU-3		
DRILL BIT DIAMETER/TYPE	BOREHOLE DIAMETER	DRILLING EQUIPMENT/METHOD	SAMPLING METHOD	START-FINISH DATE
2-Inch / Drive Sampler	2-inches	Geoprobe 6610 / Geoprobe	2" Macro-Core	11/25/03-11/25/03
LAND SURFACE ELEVATION	DEPTH TO WATER	BACKFILL		
17.13(FT.)	Not Measured	Clean Sand		

Depth, feet	Graphic Log	Visual Description	Blow Counts per 6"	PID Values (ppm)	REMARKS
		Brown fine Sand and Silt, some Gravel; moist		48	Trace hydrocarbon odor
		Black fine to coarse Sand and Gravel, trace Silt; moist to wet			
		Gray to grayish brown medium to coarse SAND, trace Gravel; wet		86.4	Hydrocarbon odor
5		Gray medium to coarse SAND, trace Gravel; wet		64.4	Hydrocarbon odor
				69.7	Hydrocarbon odor
		Gray fine to coarse SAND, some Gravel, trace Silt; wet		89.7	Hydrocarbon odor, sample HD-7/8-10 collected
10		Gray to brown fine to coarse SAND, some Gravel and Silt; wet		18.6	Hydrocarbon odor
		Gray to grayish brown medium to coarse SAND, trace Gravel and fine Sand; wet		46	Hydrocarbon odor
15		White to greenish white brittle Rock			
		Greenish gray fine to coarse Sand and Gravel, trace Silt; wet		2	Trace hydrocarbon odor
		Gray medium to coarse SAND, some gravel; wet		4.6	Trace hydrocarbon odor
		Gray medium to coarse SAND; wet		1.5	Trace hydrocarbon odor
20		Gray medium to coarse SAND; trace fine Sand and Gravel; wet		11.7	Trace hydrocarbon odor
		Gray medium to coarse SAND, trace Gravel; wet		7.4	Trace hydrocarbon odor, sample HD-7/21-23 collected
				2.9	Trace hydrocarbon odor
25				3.7	
				9.2	
		Gray medium SAND, trace coarse Sand; wet		6.5	Trace hydrocarbon odor
30		Gray medium SAND, trace coarse Sand and Gravel; wet		3.5	Trace hydrocarbon odor
		Gray medium to fine SAND, trace Gravel; wet		7.7	Trace hydrocarbon odor
		Gray medium to coarse SAND, some Gravel; wet		2.3	
35		Brown Silt and fine Sand; moist			
		Grayish brown Silt and fine Sand; moist			
40					Bottom of boring at 40 ft bgs

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SOIL BORING LOG

WELL NO.	NORTHING	EASTING	
HD-8D	212907	1003979	
PROJECT NO./NAME		LOCATION	
05545Y08 / Amtrak		Sunnyside Yard	
APPROVED BY	LOGGED BY		
H. Gregory	R. Kovacs	Queens, NY	
DRILLING CONTRACTOR/DRILLER		GEOGRAPHIC AREA	
UniTech Drilling / Steve Bartos		OU-3	
DRILL BIT DIAMETER/TYPE	BOREHOLE DIAMETER	DRILLING EQUIPMENT/METHOD	SAMPLING METHOD / START-FINISH DATE
2-Inch / Drive Sampler	2-inches	Geoprobe 6610 / Geoprobe	2" Macro-Core / 11/24/03-11/24/03
LAND SURFACE ELEVATION	DEPTH TO WATER	BACKFILL	
18.83(FT.)	Not Measured	Clean Sand	

Depth, feet	Graphic Log	Visual Description	Blow Counts per 6"	PID Values (ppm)	REMARKS
		Gray to dark brown fine to coarse Sand and Gravel, trace Silt; moist		90	Hydrocarbon odor
		Gray to dark brown fine to coarse SAND, some gravel, trace Silt; moist		300	Hydrocarbon odor
5		Gray to dark brown medium to coarse SAND, trace Gravel; moist to wet		320	Hydrocarbon odor
		Gray medium to coarse SAND, trace Gravel and Silt; wet		250	Hydrocarbon odor and staining Sample HD-8D/7-9 collected
		Gray to dark brown medium to coarse SAND, some Gravel, trace fine Sand and Silt; wet		250	Hydrocarbon odor and staining
10		Gray medium to coarse SAND, trace fine Sand and Gravel; wet		350	Hydrocarbon odor
		Gray medium to coarse SAND, trace Gravel; wet		330	Hydrocarbon odor
		Gray medium to coarse SAND; wet		225	Hydrocarbon odor
15		NO RECOVERY			
		Gray medium to coarse SAND, some Gravel; wet		45	Trace hydrocarbon odor
20				40	Trace hydrocarbon odor, sample HD-8D/20-22 collected
		Gray medium SAND, some coarse Sand, trace Gravel; wet		60	Trace hydrocarbon odor
		Gray to grayish brown medium to coarse SAND, trace Gravel; wet		40	
25		Gray to grayish brown medium to coarse SAND, trace Gravel; wet		20	
		Gray medium to coarse Sand and Gravel; wet		6	
		Gray medium to coarse SAND, some Gravel; wet		5	
30		Gray medium to coarse SAND, trace Gravel; wet		6.8	
				3.4	
35				20	
		Gray medium SAND; wet		15	
				5	Bottom of boring at 39 ft bs

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SOIL BORING LOG

WELL NO.	NORTHING	EASTING		
HD-9	212833.6	1003966.2		
PROJECT NO./NAME		LOCATION		
05545Y08 / Amtrak		Sunnyside Yard		
APPROVED BY	LOGGED BY	Queens, NY		
H. Gregory	R. Kovacs			
DRILLING CONTRACTOR/DRILLER		GEOGRAPHIC AREA		
UniTech Drilling / Steve Bartos		OU-3		
DRILL BIT DIAMETER/TYPE	BOREHOLE DIAMETER	DRILLING EQUIPMENT/METHOD	SAMPLING METHOD	START-FINISH DATE
2-Inch / Drive Sampler	2-inches	Geoprobe 6610 / Geoprobe	2" Macro-Core	11/26/03-11/26/03
LAND SURFACE ELEVATION	DEPTH TO WATER	BACKFILL		
17.76(FT.)	Not Measured	Clean Sand		

Depth, feet	Graphic Log	Visual Description	Blow Counts per 6"	PID Values (ppm)	REMARKS
		NOT SAMPLED			
		Dark gray fine to coarse SAND, trace Gravel; wet		139	Hydrocarbon odor, sample HD-9/8-10 collected
10		Gray to grayish brown medium to coarse SAND, trace Gravel; wet		63.4	Hydrocarbon odor
		Grayish brown medium to coarse SAND, some Gravel; wet		10	Hydrocarbon odor
		Grayish brown medium SAND, trace fine Sand and Gravel; wet		7.3	Trace hydrocarbon odor, sample HD-9/13-15 collected
15					Bottom of boring at 15 ft bgs

BORING/WELL 05545Y08.GPJ ROUX.GDT 5/3/04

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SOIL BORING LOG

WELL NO.	NORTHING	EASTING		
HD-10	213007.5	1003881.1		
PROJECT NO./NAME		LOCATION		
05545Y08 / Amtrak		Sunnyside Yard		
APPROVED BY	LOGGED BY			
H. Gregory	R. Kovacs	Queens, NY		
DRILLING CONTRACTOR/DRILLER		GEOGRAPHIC AREA		
UniTech Drilling / Steve Bartos		OU-3		
DRILL BIT DIAMETER/TYPE	BOREHOLE DIAMETER	DRILLING EQUIPMENT/METHOD	SAMPLING METHOD	START-FINISH DATE
2-Inch / Drive Sampler	2-inches	Geoprobe 6610 / Geoprobe	2" Macro-Core	11/25/03-11/25/03
LAND SURFACE ELEVATION	DEPTH TO WATER	BACKFILL		
16.37(FT.)	Not Measured	Clean Sand		

Depth, feet	Graphic Log	Visual Description	Blow Counts per 6"	PID Values (ppm)	REMARKS
		Dark gray to brown fine to coarse SAND, some Gravel, trace Silt and Wood; moist		46	
		Dark gray to gray fine to medium SAND, trace coarse Sand and Gravel; moist		97.9	
		NOT SAMPLED			
5		Gray medium to coarse SAND; wet		106	Trace hydrocarbon odor
		Gray medium to coarse SAND, trace Gravel; wet		87	Sample HD-10/6-8 collected
		Gray to grayish brown fine to medium SAND, trace coarse Sand and Gravel; wet		95.4	Hydrocarbon odor, sample HD-10/8-10 collected
10		Gray to grayish brown medium SAND, trace coarse Sand and Gravel; wet		71.3	Hydrocarbon odor
		Gray medium to coarse SAND, trace Gravel; wet		90.6	Hydrocarbon odor
		Gray medium to coarse SAND, some Gravel, trace fine Sand; wet		54.5	Hydrocarbon odor, sheen
15		Gray medium to coarse SAND, some Gravel, trace fine Sand; wet		2.5	Trace hydrocarbon odor, sample HD-10/16-18 collected
		Gray medium to coarse SAND, trace Gravel; wet		3.2	Trace hydrocarbon odor
20		Gray medium SAND, trace Gravel; wet		10.8	Trace hydrocarbon odor
		Gray medium SAND, trace Gravel; wet		4.5	Trace hydrocarbon odor
					Bottom of boring at 24 ft bgs

BORING/WELL 05545Y08.GPJ ROUX.GDT 5/3/04

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SOIL BORING LOG

WELL NO.	NORTHING	EASTING		
HD-11	213079.4	1003846.6		
PROJECT NO./NAME		LOCATION		
05545Y08 / Amtrak		Sunnyside Yard		
APPROVED BY	LOGGED BY	Queens, NY		
H. Gregory	R. Kovacs			
DRILLING CONTRACTOR/DRILLER		GEOGRAPHIC AREA		
Roux Associates / Steve Spates		OU-3		
DRILL BIT DIAMETER/TYPE	BOREHOLE DIAMETER	DRILLING EQUIPMENT/METHOD	SAMPLING METHOD	START-FINISH DATE
2-Inch / Drive Sampler	2-inches	Geoprobe 5400 / Geoprobe	2" Macro-Core	12/18/03-12/18/03
LAND SURFACE ELEVATION	DEPTH TO WATER	BACKFILL		
17.23(FT.)	Not Measured	Clean Sand		

Depth, feet	Graphic Log	Visual Description	Blow Counts per 6"	PID Values (ppm)	REMARKS
		NOT SAMPLED			
5		Light brown to gray medium to fine SAND, trace Silt and coarse Sand; wet		67.3	Hydrocarbon odor and staining, sample HD-11/4-6 collected
		Light gray medium to fine SAND, some Silt; wet		115	Hydrocarbon odor and staining
		Light gray fine SAND, some Silt; wet		76.4	Hydrocarbon odor, sample HD-11/8-10 collected
10		NOT SAMPLED			
		Light gray fine SAND, some Silt, little medium Sand; wet		3.2	Sample HD-11/13-15 collected
15					Bottom of boring at 15 ft bgs

BORING/WELL 05545Y08.GPJ ROUX.GDT 5/3/04

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SOIL BORING LOG

WELL NO.	NORTHING	EASTING		
HD-12	212913.3	1003835.7		
PROJECT NO./NAME		LOCATION		
05545Y08 / Amtrak		Sunnyside Yard		
APPROVED BY	LOGGED BY	Queens, NY		
H. Gregory	R. Kovacs			
DRILLING CONTRACTOR/DRILLER		GEOGRAPHIC AREA		
UniTech Drilling / Steve Bartos		OU-3		
DRILL BIT DIAMETER/TYPE	BOREHOLE DIAMETER	DRILLING EQUIPMENT/METHOD	SAMPLING METHOD	START-FINISH DATE
2-Inch / Drive Sampler	2-inches	Geoprobe 6610 / Geoprobe	2" Macro-Core	11/25/03-11/25/03
LAND SURFACE ELEVATION	DEPTH TO WATER	BACKFILL		
17.60(FT.)	Not Measured	Clean Sand		

Depth, feet	Graphic Log	Visual Description	Blow Counts per 6"	PID Values (ppm)	REMARKS
		NOT SAMPLED			
5					5
		Gray fine to medium SAND, some Silt, trace Gravel; moist		66.9	Hydrocarbon odor, sample HD-12/6-8 collected
		NOT SAMPLED			
10					10
		Gray medium to coarse SAND; wet		18.6	Trace hydrocarbon odor, sample HD-12/14-16 collected
15					15
					Bottom of boring at 16 ft bgs

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SOIL BORING LOG

WELL NO. **HD-13**	NORTHING **212851.2**	EASTING **1003820.7**		
PROJECT NO./NAME **05545Y08 / Amtrak**		LOCATION **Sunnyside Yard**		
APPROVED BY **H. Gregory**	LOGGED BY **R. Kovacs**	**Queens, NY**		
DRILLING CONTRACTOR/DRILLER **Roux Associates / Steve Spates**		GEOGRAPHIC AREA **OU-3**		
DRILL BIT DIAMETER/TYPE **2-Inch / Drive Sampler**	BOREHOLE DIAMETER **2-inches**	DRILLING EQUIPMENT/METHOD **Geoprobe 5400 / Geoprobe**	SAMPLING METHOD **2" Macro-Core**	START-FINISH DATE **12/19/03-12/19/03**
LAND SURFACE ELEVATION **16.38(FT.)**	DEPTH TO WATER **Not Measured**	BACKFILL **Clean Sand**		

Depth, feet	Graphic Log	Visual Description	Blow Counts per 6"	PID Values (ppm)	REMARKS
0		NOT SAMPLED			
3		Brown to dark brown medium to fine SAND, trace Silt and Gravel; wet		0.8	Sample HD-13/3-5 collected
5		Brown medium to fine SAND, trace coarse Sand and Silt		0.5	
7					Bottom of boring at 7 ft bgs

BORING/WELL 05545Y08.GPJ ROUX.GDT 5/3/04

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SOIL BORING LOG

WELL NO.	NORTHING	EASTING		
HD-14	213090.2	1003697.1		
PROJECT NO./NAME		LOCATION		
05545Y08 / Amtrak		Sunnyside Yard		
APPROVED BY	LOGGED BY	Queens, NY		
H. Gregory	R. Kovacs			
DRILLING CONTRACTOR/DRILLER		GEOGRAPHIC AREA		
Roux Associates / Steve Spates		OU-3		
DRILL BIT DIAMETER/TYPE	BOREHOLE DIAMETER	DRILLING EQUIPMENT/METHOD	SAMPLING METHOD	START-FINISH DATE
2-Inch / Drive Sampler	2-inches	Geoprobe 5400 / Geoprobe	2" Macro-Core	12/18/03-12/18/03
LAND SURFACE ELEVATION	DEPTH TO WATER	BACKFILL		
15.60(FT.)	Not Measured	Clean Sand		

Depth, feet	Graphic Log	Visual Description	Blow Counts per 6"	PID Values (ppm)	REMARKS
1		NOT SAMPLED			
2					
3		Brown to light brown medium to fine SAND, some Ballast, some Coarse Sand; wet		0.0	
4		Brown medium to fine SAND, some Silt; wet		0.6	Sample HD-14/4-6 collected
5					
6		Brown to light gray medium to fine SAND, some Silt; wet		0.3	Sample HD-14/6-8 collected
7					
8					Bottom of boring at 8 ft bgs

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SOIL BORING LOG

WELL NO.	NORTHING	EASTING		
HD-15C	213022.8	1003760.9		
PROJECT NO./NAME		LOCATION		
05545Y08 / Amtrak		Sunnyside Yard		
APPROVED BY	LOGGED BY	Queens, NY		
H. Gregory	R. Kovacs			
DRILLING CONTRACTOR/DRILLER		GEOGRAPHIC AREA		
UniTech Drilling / Steve Bartos		OU-3		
DRILL BIT DIAMETER/TYPE	BOREHOLE DIAMETER	DRILLING EQUIPMENT/METHOD	SAMPLING METHOD	START-FINISH DATE
2-Inch / Drive Sampler	2-inches	Geoprobe 6610 / Geoprobe	2" Macro-Core	11/25/03-11/25/03
LAND SURFACE ELEVATION	DEPTH TO WATER	BACKFILL		
16.89(FT.)	Not Measured	Clean Sand		

Depth, feet	Graphic Log	Visual Description	Blow Counts per 6"	PID Values (ppm)	REMARKS
		Not Sampled			
5					5
		Gray to grayish brown fine to coarse SAND, some Gravel, trace Silt; wet		142	Sample HD-15C/6-8 collected
		Brown to grayish brown fine to medium SAND, some Silt, trace coarse Sand and Gravel; wet		112	Hydrocarbon odor and staining
10					10
		Not Sampled			
15					15
		Gray medium to coarse SAND, trace Gravel; wet		43.9	Hydrocarbon odor and sheen
20					20
		Gray fine to medium SAND, trace coarse Sand and Silt; wet		8.8	Trace hydrocarbon odor and sheen, sample HD-15C/20-22 collected
		Gray medium to coarse SAND, trace Gravel; wet		24.2	Trace hydrocarbon odor
				18.7	Trace hydrocarbon odor
25					25
				15.3	Trace hydrocarbon odor
		Gray medium SAND, trace coarse Sand; wet		28.3	Trace hydrocarbon odor, sample HD-15C/28-30 collected
30					Bottom of boring at 30 ft bgs 30

BORING/WELL 05545Y08.GPJ ROUX.GDT 5/3/04

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SOIL BORING LOG

WELL NO.	NORTHING	EASTING		
HD-16	212943.7	1003774.7		
PROJECT NO./NAME		LOCATION		
05545Y08 / Amtrak		Sunnyside Yard		
APPROVED BY	LOGGED BY	Queens, NY		
H. Gregory	R. Kovacs			
DRILLING CONTRACTOR/DRILLER		GEOGRAPHIC AREA		
Roux Associates / Steve Spates		OU-3		
DRILL BIT DIAMETER/TYPE	BOREHOLE DIAMETER	DRILLING EQUIPMENT/METHOD	SAMPLING METHOD	START-FINISH DATE
2-Inch / Drive Sampler	2-inches	Geoprobe 5400 / Geoprobe	2" Macro-Core	12/19/03-12/19/03
LAND SURFACE ELEVATION	DEPTH TO WATER	BACKFILL		
16.53(FT.)	Not Measured	Clean Sand		

Depth, feet	Graphic Log	Visual Description	Blow Counts per 6"	PID Values (ppm)	REMARKS
		NOT SAMPLED			
		Brown to dark brown fine to coarse SAND, trace Gravel; wet		15.8	Hydrocarbon odor, sample HD-16/9-11 collected
		Brown to dark brown medium to coarse SAND, trace Gravel; wet		1.5	Slight hydrocarbon odor
		Brown to dark brown fine to coarse SAND; wet		1.4	Sample HD-16/13-15 collected
		Brown fine to coarse SAND, little Silt; wet		0.8	
					Bottom of boring at 16 ft bgs

5 10 15

BORING/WELL 05545Y08.GPJ ROUX.GDT 5/3/04

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SOIL BORING LOG

WELL NO.	NORTHING	EASTING		
HD-17	213053.7	1003655.2		
PROJECT NO./NAME		LOCATION		
05545Y08 / Amtrak		Sunnyside Yard		
APPROVED BY	LOGGED BY	Queens, NY		
H. Gregory	R. Kovacs			
DRILLING CONTRACTOR/DRILLER		GEOGRAPHIC AREA		
Roux Associates / Steve Spates		OU-3		
DRILL BIT DIAMETER/TYPE	BOREHOLE DIAMETER	DRILLING EQUIPMENT/METHOD	SAMPLING METHOD	START-FINISH DATE
2-Inch / Drive Sampler	2-inches	Geoprobe 5400 / Geoprobe	2" Macro-Core	12/18/03-12/18/03
LAND SURFACE ELEVATION	DEPTH TO WATER	BACKFILL		
16.64(FT.)	Not Measured	Clean Sand		

Depth, feet	Graphic Log	Visual Description	Blow Counts per 6"	PID Values (ppm)	REMARKS
1		NOT SAMPLED			
2					
3					
3		Brown to dark brown medium to coarse SAND, some Gravel, trace fine Sand; wet		1.3	
4		Brown medium to fine Sand; wet		12	Slight hydrocarbon odor, sample HD-17/4-6 collected
5					
6		Brown to light brown fine SAND, some Clay, trace medium Sand; wet		18.3	Slight hydrocarbon odor
7					
8		Brown to gray medium to fine SAND, some Silt, trace coarse Sand; wet		5	Slight hydrocarbon odor, sample HD-17/8-10 collected
9					
10		Gray fine SAND, some Silt, little medium Sand; wet		2.6	
11					
12					Bottom of boring at 12 ft bgs

BORING/WELL 05545Y08.GPJ ROUX.GDT 5/3/04

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SOIL BORING LOG

WELL NO.	NORTHING	EASTING		
HD-18	212977	1003617.1		
PROJECT NO./NAME		LOCATION		
05545Y08 / Amtrak		Sunnyside Yard		
APPROVED BY	LOGGED BY	Queens, NY		
H. Gregory	R. Kovacs			
DRILLING CONTRACTOR/DRILLER		GEOGRAPHIC AREA		
Roux Associates / Steve Spates		OU-3		
DRILL BIT DIAMETER/TYPE	BOREHOLE DIAMETER	DRILLING EQUIPMENT/METHOD	SAMPLING METHOD	START-FINISH DATE
2-Inch / Drive Sampler	2-inches	Geoprobe 5400 / Geoprobe	2" Macro-Core	12/18/03-12/18/03
LAND SURFACE ELEVATION	DEPTH TO WATER	BACKFILL		
17.31(FT.)	Not Measured	Clean Sand		

Depth, feet	Graphic Log	Visual Description	Blow Counts per 6"	PID Values (ppm)	REMARKS
1		NOT SAMPLED			
2					
3					
4		Brown medium to fine SAND, some Silt; wet		0.8	Sample HD-18/4-6 collected
5					
6		Brown medium to fine SAND, trace Silt; wet		0.7	
7					
8					Bottom of boring at 8 ft bgs

BORING/WELL 05545Y08.GPJ ROUX.GDT 5/3/04

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SOIL BORING LOG

WELL NO.	NORTHING	EASTING		
HD-19	212860.2	1003592.1		
PROJECT NO./NAME		LOCATION		
05545Y08 / Amtrak		Sunnyside Yard		
APPROVED BY	LOGGED BY	Queens, NY		
H. Gregory	R. Kovacs			
DRILLING CONTRACTOR/DRILLER		GEOGRAPHIC AREA		
Roux Associates / Steve Spates		OU-3		
DRILL BIT DIAMETER/TYPE	BOREHOLE DIAMETER	DRILLING EQUIPMENT/METHOD	SAMPLING METHOD	START-FINISH DATE
2-Inch / Drive Sampler	2-inches	Geoprobe 5400 / Geoprobe	2" Macro-Core	12/19/03-12/19/03
LAND SURFACE ELEVATION	DEPTH TO WATER	BACKFILL		
14.94(FT.)	Not Measured	Clean Sand		

Depth, feet	Graphic Log	Visual Description	Blow Counts per 6"	PID Values (ppm)	REMARKS
1		NOT SAMPLED			1
2		Brown medium to fine SAND, trace coarse Sand and Gravel; wet		0.1	Sampled HD-19/2-4 collected 2
3					3
4					Bottom of boring at 4 ft bgs 4

BORING/WELL 05545Y08.GPJ ROUX.GDT 5/3/04

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SOIL BORING LOG

WELL NO.	NORTHING	EASTING		
HD-20	212795.6	1003643.2		
PROJECT NO./NAME		LOCATION		
05545Y08 / Amtrak		Sunnyside Yard		
APPROVED BY	LOGGED BY			
H. Gregory	R. Kovacs	Queens, NY		
DRILLING CONTRACTOR/DRILLER		GEOGRAPHIC AREA		
UniTech Drilling / Steve Bartos		OU-3		
DRILL BIT DIAMETER/TYPE	BOREHOLE DIAMETER	DRILLING EQUIPMENT/METHOD	SAMPLING METHOD	START-FINISH DATE
2-Inch / Drive Sampler	2-inches	Geoprobe 6610 / Geoprobe	2" Macro-Core	11/26/03-11/26/03
LAND SURFACE ELEVATION	DEPTH TO WATER	BACKFILL		
16.51(FT.)	Not Measured	Clean Sand		

Depth, feet	Graphic Log	Visual Description	Blow Counts per 6"	PID Values (ppm)	REMARKS
1		NOT SAMPLED			
2					
3					
4					
5					
6		Gray fine to coarse SAND; wet		129	Hydrocarbon odor, sample HD-20/6-8 collected
7					
8		Gray medium to coarse SAND; wet		59.2	Hydrocarbon odor
9					
10		Brown to grayish brown medium to coarse SAND, trace fine Sand; wet		12.6	Sample HD-20/10-12 collected
11					
12		Brown to grayish brown medium to coarse SAND, trace fine Sand; wet			
13		Brown medium SAND, trace fine and coarse Sand; wet		18.9	
14					Bottom of boring at 14 ft bgs

BORING/WELL 05545Y08.GPJ ROUX.GDT 5/3/04

APPENDIX C

Supplement to the Pre-Design Study Work Plan in OU-3 Investigation of Hump Track Foundation

SUPPLEMENT TO THE PRE-DESIGN STUDY WORK PLAN FOR OPERABLE UNIT 3 - INVESTIGATION OF HUMP TRACK FOUNDATION

Sunnyside Yard
Queens, New York

July 1, 2004

Prepared for:

NATIONAL RAILROAD PASSENGER CORPORATION
Washington, D.C. 20002

Prepared by:

ROUX ASSOCIATES, INC.
209 Shafter Street
Islandia, New York 11749

ROUX

AM05545Y09.175/APC-CV

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3.0 SCHEDULE 4

FIGURES

1. Proposed Test Pit Locations Near the Former Hump Track

1.0 INTRODUCTION

This scope of work for additional investigation activities for the Operable Unit 3 (OU-3) area of the Sunnyside Yard, Queens, New York (Yard) was prepared by Roux Associates, Inc. (Roux Associates) on behalf of the National Railroad Passenger Corporation (Amtrak) and the New Jersey Transit Corporation (NJT). This additional scope of work is a supplement to the New York State Department of Environmental Conservation (NYSDEC)-approved Pre-Design Study Work Plan for OU-3, dated March 4, 2004. The Pre-Design Study Work Plan for OU-3 was designed to further investigate the separate-phase hydrocarbon (SPH) accumulation located within OU-3, and gather additional data to evaluate potential soil remediation technologies in OU-3. This supplemental scope of work is specifically intended to further investigate the remaining subsurface portion of the former Hump Track walls (foundation, if present), and the SPH accumulation and soil in the vicinity of the former Hump Track walls, along the Amtrak/Long Island Rail Road (LIRR) property line in OU-3. The location of the former Hump Track walls and the area to be investigated is shown on Figure 1.

1.1 Background

As part of the Pre-Design Study scope of work, Roux Associates, on behalf of Amtrak and NJT, installed seven additional monitoring wells in OU-3 (MW-71 through MW-77) in April 2004. Currently, these monitoring wells, along with the existing previously installed monitoring wells in OU-3 are being monitored on a weekly basis. Weekly monitoring activities include SPH and water level gauging, as well as the evacuation of SPH from each well containing significant SPH accumulations. Based on historic and current OU-3 monitoring data and field observations, it is possible that the southernmost Hump Track foundation may act as a barrier, impeding the migration of SPH off Amtrak property. LIRR has demolished and removed all portions of the former Hump Track that were located above land surface. The type of construction and depth of any subsurface foundations for the former Hump Track are unknown.

1.2 Objectives

This supplemental scope of work is designed to identify what are assumed to be foundations for the former Hump Track walls and determine what influence these foundations may have on the SPH accumulation in this portion of OU-3. The information gathered as a result of this investigation will be combined with the data collected as part of the Pre-Design Study to further

refine the proposed Phase IV Interim Remedial Measure (IRM). Specifically, the objectives of this scope of work are;

- identify and determine the construction of the Hump Track foundations (if present);
- determine if the Hump Track foundations (if present) are acting as a barrier to SPH; and
- further define the configuration of SPH thickness contours north of the Amtrak property line (as applicable).

2.0 SCOPE OF WORK

The excavation of four test pits is proposed in order to meet the objectives of this scope of work. The proposed test pits are located adjacent to the Hump Track foundations, and in areas where the greatest accumulation of SPH would be expected within and north of the Hump Track foundation. The proposed test pit locations are shown on Figure 1.

Each test pit will be approximately 10 feet in length by 4 feet wide, and will be dug using a backhoe. Test pits will be excavated to minimum depth of two feet below the oil/groundwater interface or water table as encountered at the time of work. During excavation activities, soil will be examined for lithology, field screened for volatile organic compounds (VOCs) using a photoionization detector (PID), and screened for physical evidence of hydrocarbon impact (i.e., staining, odor, and separate-phase petroleum). Detailed field notes and photographs will be taken during test pit activities. All excavated soil will be temporarily stockpiled on polyethylene sheeting next to each test pit. Test pits will be situated immediately parallel to the former Hump Track walls, as to expose the foundations and allow for a visual inspection of construction, and condition. Care will be taken during the excavation of each test pit not to damage the foundation. Following excavation activities test pits will remain open for several hours to allow SPH, if present, to collect within the test pit. Approximate SPH thickness measurements will be collected from within each test pit using an electronic oil/water interface probe. At the completion of test pit inspection activities, all soil will be backfilled into its respective excavation using a backhoe.

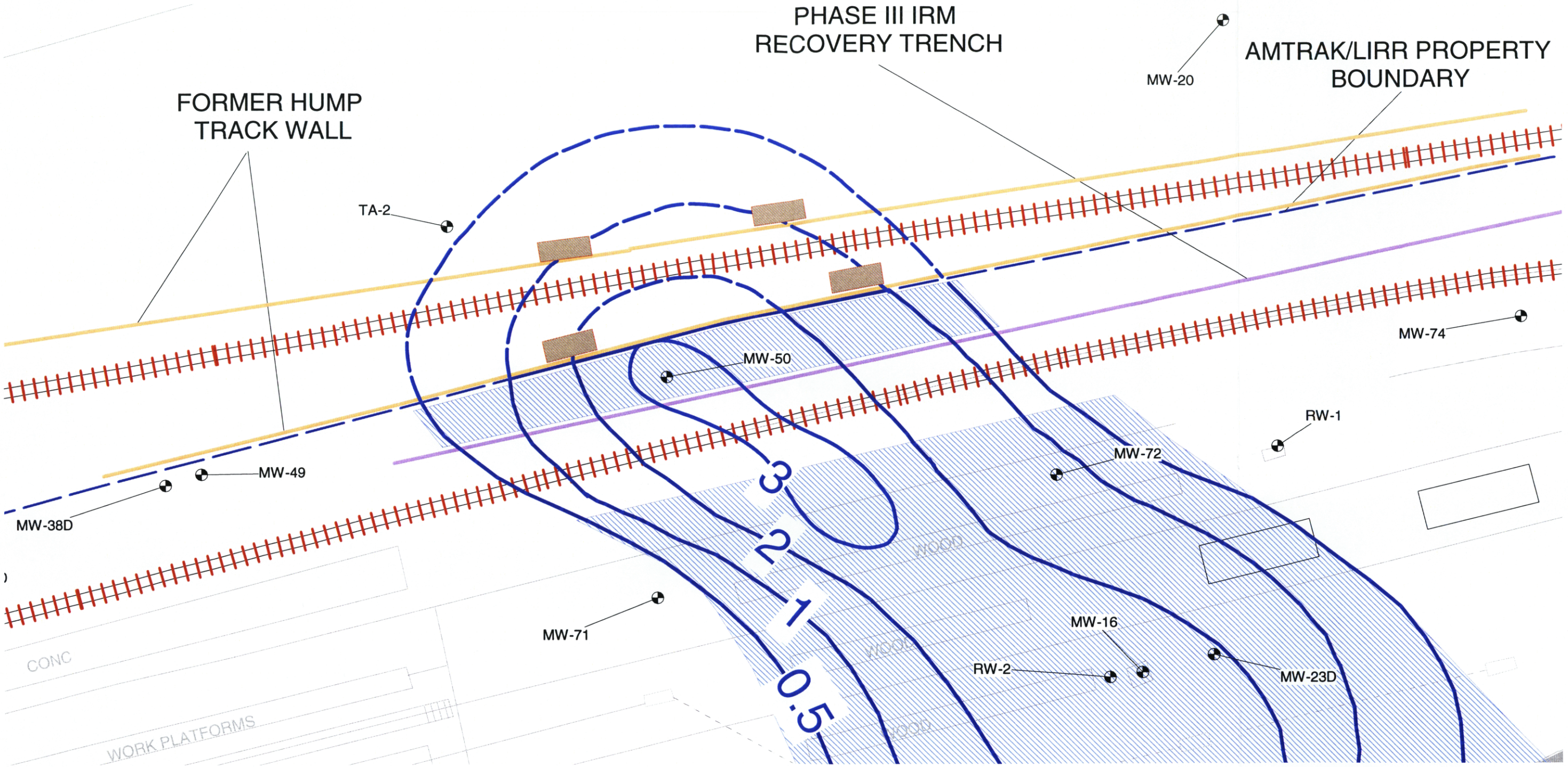
If significant SPH accumulation is observed during the test pit activities and it is determined that further SPH monitoring is required, Amtrak and NJT will install one or more monitoring wells near the test pits where SPH was found. If required, monitoring well construction, installation and development procedures outlined in the Pre-Design Study Work Plan will be followed.

The findings of this investigation will be compiled with all other Pre-Design data, and a comprehensive summary report will be submitted to the NYSDEC, as described in the Pre-Design Study Work Plan.

3.0 SCHEDULE

Roux Associates plans to complete the above-mentioned investigation activities within one week of receiving access approval from the LIRR. It is expected that the fieldwork associated with the test pit activities will take one day to complete. If the installation of monitoring wells is deemed necessary, this schedule will increase depending on the number of wells required.

The proposed schedule for fieldwork is an estimate only and the schedule will be altered if unforeseen conditions are encountered. Every effort will be made to adhere to the proposed schedule and the NYSDEC will be notified immediately if any changes are necessary.



EXPLANATION

PROPOSED TEST PIT LOCATION

LOCATION OF EXISTING OU-3 MONITORING WELL

3 — CURRENT LINE OF EQUAL SEPARATE-PHASE PETROLEUM ACCUMULATION THICKNESS (DASHED WHERE INFERRED)

APPROXIMATE EXTENT OF PROPOSED PHASE IV IRM EXCAVATION AREA

20' 0 20'

N

Title:

PROPOSED TEST PIT LOCATION NEAR THE FORMER HUMP TRACK

SUNNYSIDE YARD, QUEENS, NEW YORK

Prepared For: AMTRAK

ROUX ASSOCIATES INC *Environmental Consulting & Management*	Compiled by: RSK	Date: 6/11/2004	FIGURE 1
	Prepared by: RSK	Scale: AS SHOWN	
	Project Mgr: HG	Office: NY	
	File No: AM4517401.WOR	Project: 05545Y09	

APPENDIX D

Vapor Intrusion Model Memorandum

MEMORANDUM

TO: Joseph Duminuco

FROM: Simon Lock

DATE: June 1, 2004

RE: Vapor Intrusion into a Hypothetical Building in OU-3 at the Sunnyside Yard

PROJECT #: 05545Y09

Low levels of xylene and 2-methylnaphthalene (up to 18 mg/kg and 150 mg/kg, respectively) have been reported in deeper soils beneath OU-3 at Sunnyside Yard. The purpose of this evaluation was to determine whether the concentrations of these constituents would result in any health-based concerns from vapor intrusion if an office building were constructed in the area designated as OU-3, where these constituents had been identified in soil. Using an office building for this hypothetical exposure scenario is much more conservative and health protective than considering a more open and spacious building such as a train maintenance shop or a large storage building.

The USEPA vapor intrusion model based on the Johnson and Ettinger model (1991) and extensively revised by the USEPA in 2003 was used to estimate indoor air concentrations of xylene and 2-methylnaphthalene in a hypothetical office space constructed over an area of soil that is assumed to be contaminated with these constituents. To fully explore the potential vapor intrusion the model was run using hypothetical soil concentrations of xylene or 2-methylnaphthalene ranging from 10 to 1,000 mg/kg (ppm). In reality, the highest concentrations of xylene and 2-methylnaphthalene ever observed were 18 mg/kg and 150 mg/kg, respectively, in soil at depths greater than 4 feet. However, for the purpose of this model the depth below land surface to the constituents was assumed to be either 1 foot or 3 feet. Other key assumptions included:

- An infinite source of the chemicals evaluated
- Characterizing the soil as sand
- Using USEPA default values for the soil characteristics
- Small room size (approximately 10 feet square) with standard (8 foot) ceiling
- Slab thickness of approximately six inches (15 cm) with a 0.1 cm crack around the entire perimeter
- A slight negative pressure in the building and only one air change every 4 hours

The conservative generic assumptions adopted for this evaluation will tend to elevate the estimated concentrations of vapors in the hypothetical building.

The results of the evaluation are provided in two graphics (Figures 1 and 2, attached). The estimated indoor vapor concentrations are plotted against hypothetical soil concentrations. Each

curve represents a different depth to soil contamination from land surface. As might be expected and as observed the indoor air concentrations at any given soil concentration decrease as the depth to the top of the source increases from 1 foot to 3 feet.

Since any exposure to indoor vapors would be under an occupational setting the use of the ACGIH threshold limit values (TLVs) was considered to provide a valid basis for evaluating the indoor air concentrations. Since there is no TLV for 2-methylnaphthalene, the TLV for naphthalene was considered as an acceptable surrogate based on the similarity in toxicity of these two compounds. As may be observed in Figures 1 and 2 the TLVs for xylene and 2-methylnaphthalene, respectively are significantly higher than the estimated indoor air concentrations of these constituents for soil concentrations as high as 1,000 mg/kg. Furthermore, based on the asymptotic curve the model is demonstrating that the system is reaching equilibrium with maximal indoor concentrations likely driven by saturation of the soil interstitial spaces.

Conclusion

From this screening evaluation using generic conservative model assumptions it can be seen that even if the concentrations of xylene or 2-methylnaphthalene ever reached as high as 1,000 mg/kg in shallow (1 to 3 feet bls) soils the projected indoor air concentrations for either constituent would not exceed their respective TLV. The concentrations illustrated on the graph that exceed the maximum reported concentrations are solely shown to illustrate that no plausible health-related concerns will ever exist.

Figure 1: Effect of Soil Depth to Constituent on Estimated Xylene Concentrations in Indoor Office Air as a Result of Vapor Intrusion

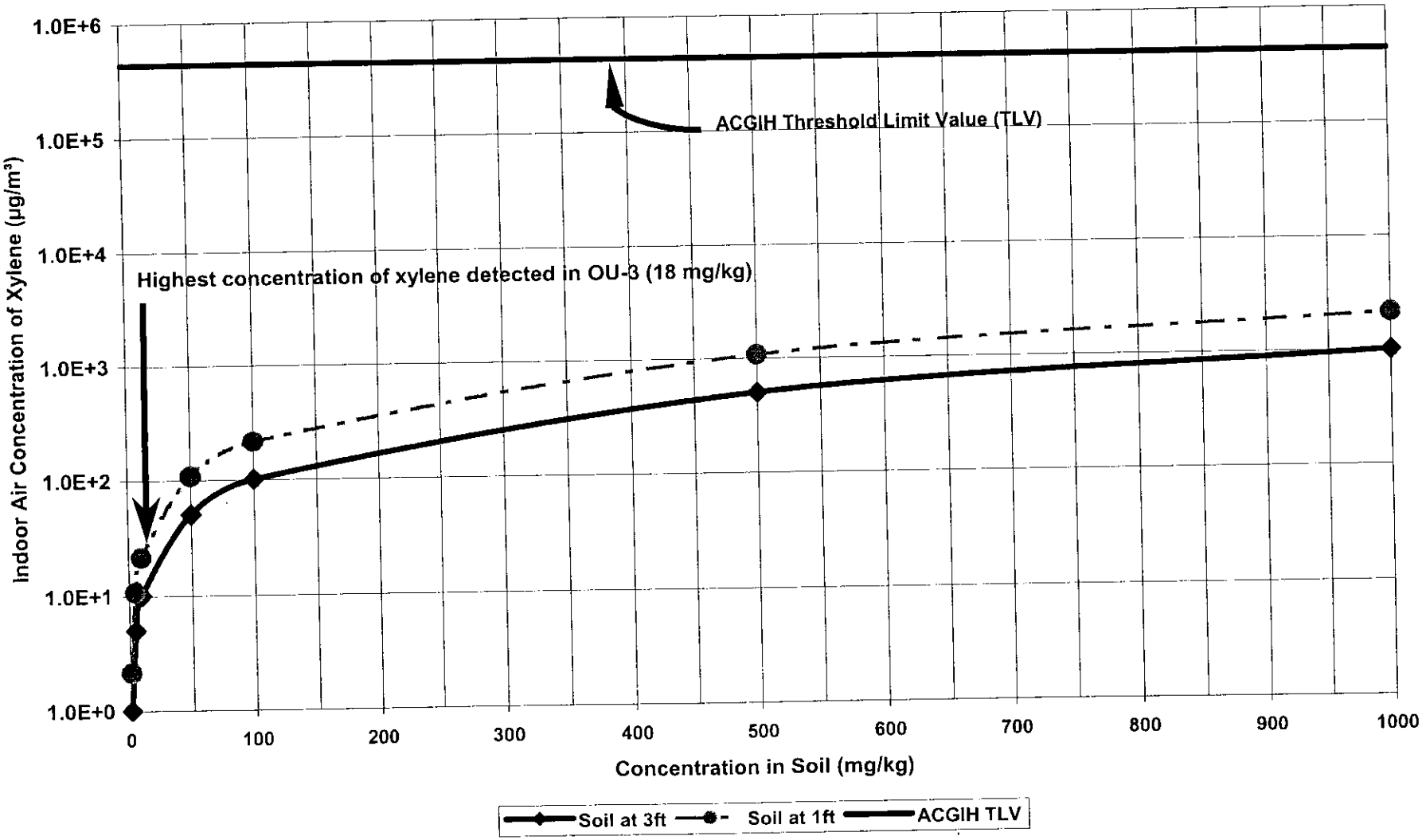


Figure 2: Effect of Soil Depth to Constituent on Estimated 2-Methylnaphthalene Concentrations in Indoor Office Air as a Result of Vapor Intrusion

