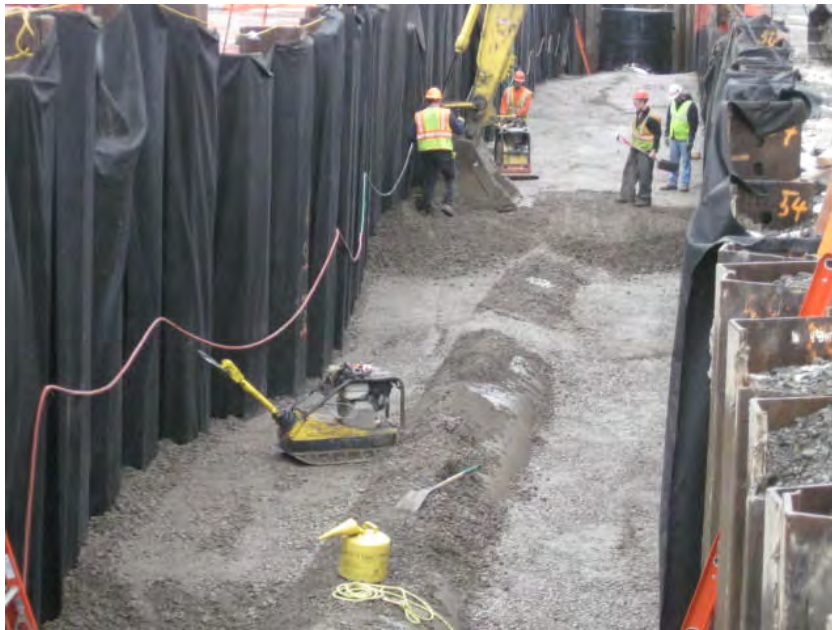


F. DAILY SITE PHOTOGRAPHS



**View of backfill being placed on top of the HDPE pipe.
Geotextile fabric is visible on the side of the trench (facing north).**



View of backfill being placed on top of the HDPE pipe.

DAILY PROGRESS REPORT 57: 1/24/12**66-INCH STORM SEWER REPLACEMENT
NEW YORK STATE ELECTRIC & GAS CORPORATION
COURT STREET FORMER MGP SITE, BINGHAMTON, NEW YORK**

This daily progress report summarizes project-related activities performed by AECOM and its subcontractors, on behalf of New York State Electric and Gas (NYSEG), at the Court Street Former MGP Site in Binghamton, New York (the site) for January 24, 2012 as observed by E. Michael Flynn of ARCADIS.

A. COMPLETED WORK/WORK IN PROGRESS

No additional excavation or offsite disposal was performed today.

AECOM continued to dewater the trench. The collected water was pumped into the weir tanks at the TWTS. AECOM continued treatment in "batch" mode due to the continued issues with VOC's in the treated water. AECOM continued treating AE-Batch-10 today. ARCADIS collected samples from Batch 10 today for VOC's, SVOC's, Oil and Grease, PAH's, Metals, Total Cyanide, pH and TSS.

Tioga continued backfilling the trench between MH-1C and MH-1B. Crusher-run stone was placed in 12" lifts on either side of the HDPE pipe and compacted with a walk behind vibratory compactor. Atlantic Testing Laboratories (ATL) was not onsite today. Tioga placed two 12" lifts above the HDPE pipe and left the lower lift exposed for testing tomorrow. At the end of the day Tioga had placed two lifts (total of 24") above the HDPE pipe.

Tioga mobilized a Komatsu D37 dozer and a roller to the site for placing the remaining lifts of backfill. Tioga completed the minimum 24" lifts above the HDPE pipe, and will place the remaining lifts with the dozer and then compact the stone with the roller.

AECOM secured the excavation by placing orange construction fencing and parking both excavators and the loader around the perimeter of the open area.

B. HEALTH & SAFETY REMARKS

AECOM conducted tailgate safety meetings. All site personnel were required to sign in. Hard hats, safety glasses, reflective vests, and steel-toe boots were required to perform site work. No injuries or illnesses were observed or reported. Air monitoring is being performed on a daily basis using Multi-Rae and Dust Trak (weather permitting) units. No violation of safety procedures were observed or recorded.

Temperature: 35° F to 45°F

Cloud cover: Clear

Rainfall: none

Wind Speed Average and Direction: 5-10 mph SSE

CAMP: CAMP Stations UP, DW 1 and DW 2 deployed. No exceedances.

Calibration: Dust Trak and PID units for each station calibrated at start of day.

C. OFFSITE DISPOSAL:

ESMI/Broome County Landfill Disposed Offsite (daily tons): **0/0**

ESMI/Broome County Landfill Disposed Offsite (total to date tons): **3115/1155**

D. SIGNIFICANT COMMUNICATIONS:

The weekly site progress meeting is held at the site today. Please refer to the meeting minutes for complete details of the meeting.

E. UPCOMING SITE ACTIVITIES

1. Continue backfilling the trench between MH-1B and MH-1C.
2. Install new backer rings at MH-1B and MH-1C.
3. Pour the concrete collars at MH-1B and MH-1C.
4. Continue exploratory excavation of the concrete in the vicinity of MH-1.

F. DAILY SITE PHOTOGRAPHS



View of backfill being placed on top of the HDPE pipe.



View of backfill being placed on top of the HDPE pipe.

DAILY PROGRESS REPORT 58: 1/25/12**66-INCH STORM SEWER REPLACEMENT
NEW YORK STATE ELECTRIC & GAS CORPORATION
COURT STREET FORMER MGP SITE, BINGHAMTON, NEW YORK**

This daily progress report summarizes project-related activities performed by AECOM and its subcontractors, on behalf of New York State Electric and Gas (NYSEG), at the Court Street Former MGP Site in Binghamton, New York (the site) for January 25, 2012 as observed by E. Michael Flynn of ARCADIS.

A. COMPLETED WORK/WORK IN PROGRESS

AECOM re-mobilized the excavator and began performing additional exploratory excavation in the vicinity of MH-1. AECOM attempted to further expose the concrete structure surrounding the existing concrete sewer pipe. AECOM exposed moderately impacted material with staining and mild odors. AECOM resumed the use of "Biosolve" for odor control in the active excavation area. AECOM excavated to approximately 6' bgs and exposed the top of the concrete structure. AECOM also excavated on either side of the concrete structure (east and west sides) to locate the structure's foundation. AECOM encountered water in the excavation at approximately 8' bgs. Due to the amount of water encountered, AECOM did not locate the foundation of the structure. It appeared that the existing sewer is completely encased by the concrete structure. AECOM will perform additional investigation work once the excavator mounted hammer (hoe-ram) is mobilized to the site. AECOM stockpiled the concrete from the excavation for offsite disposal tomorrow. The open excavation was backfilled with existing materials.

AECOM continued to dewater the trench. The collected water was pumped into the weir tanks at the TWTS. AECOM continued treatment in "batch" mode due to the continued issues with VOC's in the treated water. AECOM began treating AE-Batch-11 today. ARCADIS did not collect any additional samples today.

Tioga continued backfilling the trench between MH-1C and MH-1B. Crusher-run stone was placed in 12" lifts above the HDPE pipe. Atlantic Testing Laboratories (ATL) was onsite to perform compaction testing. All compaction results were above the 95% minimum dry density. ATL also tested both 12" lifts that were placed yesterday and these lifts were above the 95% standard.

Tioga received the second set of "backer-rings" for the flanged HDPE pipe connections at the manholes. Tioga previously received rings that did not match the rings that were attached to the manholes. Tioga removed the first set of rings from the HDPE pipe sections. The new rings were cut and attached to HDPE pipe, to secure the HDPE pipe to the north side of MH-1B and the south side of MH-1C. Tioga torqued the bolts on the backer rings to 850 psi.

AECOM secured the excavation by placing orange construction fencing and parking both excavators and loader around the perimeter of the open area.

B. HEALTH & SAFETY REMARKS

AECOM conducted tailgate safety meetings. All site personnel were required to sign in. Hard hats, safety glasses, reflective vests, and steel-toe boots were required to perform site work. No injuries or illnesses were observed or reported. Air monitoring is being performed on a daily basis using Multi-Rae and Dust Trak (weather permitting) units. No violation of safety procedures were observed or recorded.

Temperature: 30° F to 38°F

Cloud cover: Cloudy

Rainfall: none

Wind Speed Average and Direction: 5-10 mph NNW

CAMP: CAMP Stations UP, DW 1 and DW 2 deployed. No exceedances.

Calibration: Dust Trak and PID units for each station calibrated at start of day.

C. OFFSITE DISPOSAL:

ESMI/Broome County Landfill Disposed Offsite (daily tons): **0/0**

ESMI/Broome County Landfill Disposed Offsite (total to date tons): **3115/1155**

D. SIGNIFICANT COMMUNICATIONS:

None

E. UPCOMING SITE ACTIVITIES

1. Continue backfilling the trench between MH-1B and MH-1C.
2. Pour the concrete collars at MH-1B and MH-1C.
3. Continue the concrete investigation at the vicinity of MH-1.

F. DAILY SITE PHOTOGRAPHS



View of utility marking tape placed on top of the HDPE pipe.



View of backer ring showing cut made by Tioga to fit ring over the HDPE pipe.

DAILY PROGRESS REPORT 59: 1/26/12**66-INCH STORM SEWER REPLACEMENT
NEW YORK STATE ELECTRIC & GAS CORPORATION
COURT STREET FORMER MGP SITE, BINGHAMTON, NEW YORK**

This daily progress report summarizes project-related activities performed by AECOM and its subcontractors, on behalf of New York State Electric and Gas (NYSEG), at the Court Street Former MGP Site in Binghamton, New York (the site) for January 26, 2012 as observed by E. Michael Flynn of ARCADIS.

A. COMPLETED WORK/WORK IN PROGRESS

AECOM loaded out three loads of concrete debris from the excavation on the southern end of the trench in the phase two area near MH-1. The concrete was transported to Broome County landfill as C+D debris.

AECOM began additional test pit excavation on the northern end of the phase two area to expose the existing RCP. AECOM exposed the pipe and took measurements of the outside diameter. The measurements will be utilized for the Fernco connector that will be used to connect the HDPE pipe to the existing RCP pipe. AECOM measured the outside diameter of the existing RCP at 82" to 84"

AECOM continued to dewater the trench. The collected water was pumped into the weir tanks at the TWTS. AECOM continued treatment in "batch" mode due to the continued issues with VOC's in the treated water. ARCADIS received the analytical results for water samples collected from AE-Batch 10. The results showed that VOC's were present in the treated water. ARCADIS did not collect any additional samples today.

Tioga continued backfilling the trench between MH-1C and MH-1B. Crusher-run stone was placed in 12" lifts with a dozer, and compacted using a roller. Atlantic Testing Laboratories (ATL) was onsite to perform compaction testing. All compaction results were above the 95% minimum dry density.

Tioga re-torqued the bolts on the flanged connections at MH-1B and MH-1C.

Tioga began assembling the concrete formwork for the northern concrete collar at MH-1B and the southern collar at MH-1C.

AECOM secured the excavation by placing orange construction fencing and parking both excavators and loader around the perimeter of the open area.

B. HEALTH & SAFETY REMARKS

AECOM conducted tailgate safety meetings. All site personnel were required to sign in. Hard hats, safety glasses, reflective vests, and steel-toe boots were required to perform site work. No injuries or illnesses

were observed or reported. Air monitoring is being performed on a daily basis using Multi-Rae and Dust Trak (weather permitting) units. No violation of safety procedures were observed or recorded.

Temperature: 32° F to 35°F

Cloud cover: Cloudy

Rainfall: none

Wind Speed Average and Direction: 5-10 mph E

CAMP: CAMP Stations UP, DW 1 and DW 2 deployed. No exceedances.

Calibration: Dust Trak and PID units for each station calibrated at start of day.

C. OFFSITE DISPOSAL:

ESMI/Broome County Landfill Disposed Offsite (daily tons): **0/105**

ESMI/Broome County Landfill Disposed Offsite (total to date tons): **3115/1260**

D. SIGNIFICANT COMMUNICATIONS:

None

E. UPCOMING SITE ACTIVITIES

1. Continue backfilling the trench between MH-1B and MH-1C.
2. Pour the concrete collars at MH-1B and MH-1C.
3. Continue the concrete investigation at the vicinity of MH-1.

F. DAILY SITE PHOTOGRAPHS



View of Tioga personnel re-setting the torque on the flange connections at MH-1B.



View of concrete formwork for the northern collar at MH-1B.

DAILY PROGRESS REPORT 60: 1/27/12**66-INCH STORM SEWER REPLACEMENT
NEW YORK STATE ELECTRIC & GAS CORPORATION
COURT STREET FORMER MGP SITE, BINGHAMTON, NEW YORK**

This daily progress report summarizes project-related activities performed by AECOM and its subcontractors, on behalf of New York State Electric and Gas (NYSEG), at the Court Street Former MGP Site in Binghamton, New York (the site) for January 27, 2012 as observed by E. Michael Flynn of ARCADIS.

A. COMPLETED WORK/WORK IN PROGRESS

No trucks loaded for offsite disposal today.

AECOM performed additional exploratory excavation at the southern end of the phase two area to expose the existing RCP. AECOM exposed the concrete "pipe chase" that surrounds the existing RCP sewer. AECOM attempted to excavate along the sides of the pipe chase in order to locate the pipe chase bottom; however, the attempt was unsuccessful due to the presence of water in the excavation. AECOM performed the removal of additional concrete portions from the excavation area. AECOM removed what appeared to be another concrete footing related to the former gas holder.

AECOM re-mobilized an excavator with a hydraulic hammer attachment (hoe-ram). The hoe-ram will be utilized to further expose the existing RCP.

AECOM continued to dewater the trench. The collected water was pumped into the weir tanks at the TWTS. AECOM continued treatment in "batch" mode due to the continued issues with VOC's in the treated water. ARCADIS collected "AE-Batch 11" today. In addition, AECOM collected duplicate VOC samples that will be sent to Life Sciences Lab in Syracuse, NY. ARCADIS samples were sent to Phoenix Environmental Lab in Connecticut. AECOM submitted the second set of samples to eliminate laboratory associated errors that could have resulted in the detection of VOC's in the treated water.

Tioga completed the formwork for the southern concrete collar at MH-1C.

Tioga poured the concrete collars at the northern collar at MH-1B and the southern collar at MH-1C. A C+C Ready Mix representative was onsite during concrete placement to add the concrete accelerant to each of the trucks. C+C representative added 4% of the additive to decrease the curing time in order to allow for removal of the concrete forms. Atlantic Testing Labs (ATL) was onsite to test the concrete. All loads are received within the project specifications.

Tioga completed the collar at MH-1B. Remaining concrete material was poured as the first portion of the "emergency sluiceway" at the south of MH-1B.

AECOM secured the excavation by placing orange construction fencing and parking both excavators and loader around the perimeter of the open area.

B. HEALTH & SAFETY REMARKS

AECOM conducted tailgate safety meetings. All site personnel were required to sign in. Hard hats, safety glasses, reflective vests, and steel-toe boots were required to perform site work. No injuries or illnesses were observed or reported. Air monitoring is being performed on a daily basis using Multi-Rae and Dust Trak (weather permitting) units. No violation of safety procedures were observed or recorded.

Temperature: 38° F to 45°F

Cloud cover: Cloudy

Rainfall: none

Wind Speed Average and Direction: 5-10 mph ESE

CAMP: CAMP Stations UP, DW 1 and DW 2 deployed. No exceedances.

Calibration: Dust Trak and PID units for each station calibrated at start of day.

C. OFFSITE DISPOSAL:

ESMI/Broome County Landfill Disposed Offsite (daily tons): **0/0**

ESMI/Broome County Landfill Disposed Offsite (total to date tons): **3115/1260**

D. SIGNIFICANT COMMUNICATIONS:

None

E. UPCOMING SITE ACTIVITIES

1. Removal of the concrete forms from MH-1B and MH-1C
2. Continue the concrete investigation at the vicinity of MH-1.

F. DAILY SITE PHOTOGRAPHS



View of the pouring of concrete at MH-1C.



View of the pouring of concrete at MH-1B.

DAILY PROGRESS REPORT 61: 1/30/12**66-INCH STORM SEWER REPLACEMENT
NEW YORK STATE ELECTRIC & GAS CORPORATION
COURT STREET FORMER MGP SITE, BINGHAMTON, NEW YORK**

This daily progress report summarizes project-related activities performed by AECOM and its subcontractors, on behalf of New York State Electric and Gas (NYSEG), at the Court Street Former MGP Site in Binghamton, New York (the site) for January 30, 2012 as observed by E. Michael Flynn of ARCADIS.

A. COMPLETED WORK/WORK IN PROGRESS

No trucks loaded for offsite disposal today.

AECOM performed additional exploratory excavation on the southern end of the phase two area to expose the existing RCP. AECOM used the hoe-ram to break through the top of the concrete "pipe chase" that surrounds the existing RCP sewer. The top was approximately 4" to 6" thick and the hammer broke through easily. The pipe chase is approximately 12" above the top of the existing RCP pipe, and it should not be an obstacle for the connection of the HDPE pipe to the existing RCP. The pipe chase was full of water and AECOM began dewatering the chase to further investigate the existing sewer.

AECOM continued to dewater the trench. The collected water was pumped into the weir tanks at the TWTS. AECOM continued treatment in "batch" mode due to continued issues with VOC's in the treated water. AECOM re-treated "AE-Batch 10", while ARCADIS collected water samples from AE-Batch 10-2. ARCADIS received the analytical results of water samples from AE-Batch 11. The results confirmed the presence of VOC's in the treated water.

Tioga removed the formwork from the concrete collars at MH-1B and MH-1C today after receipt of the concrete break testing results. Concrete cylinders were collected from both collars when they were poured on January 27, 2012. The concrete cylinders were broken to determine the concrete strength. Both cylinders achieved the specified minimum strength of 3,200 psi.

Tioga completed the remaining portions of backfill adjacent to the concrete collars at MH-1B and MH-1C.

Tioga poured the remaining portion of the "emergency sluiceway" at the south of MH-1B.

Keystone Associates was onsite to survey the locations of MH-1 and MH-2 in addition to recording the elevation and locations of MH-1B and MH-1C.

AECOM secured the excavation by placing orange construction fencing and parking both excavators and loader around the perimeter of the open area.

B. HEALTH & SAFETY REMARKS

AECOM conducted tailgate safety meetings. All site personnel were required to sign in. Hard hats, safety glasses, reflective vests, and steel-toe boots were required to perform site work. No injuries or illnesses were observed or reported. Air monitoring is being performed on a daily basis using Multi-Rae and Dust Trak (weather permitting) units. No violation of safety procedures were observed or recorded.

Temperature: 30° F to 33°F

Cloud cover: Partly cloudy

Rainfall: none

Wind Speed Average and Direction: 5-10 mph NNW

CAMP: CAMP Stations UP, DW 1 and DW 2 deployed. No exceedances.

Calibration: Dust Trak and PID units for each station calibrated at start of day.

C. OFFSITE DISPOSAL:

ESMI/Broome County Landfill Disposed Offsite (daily tons): **0/0**

ESMI/Broome County Landfill Disposed Offsite (total to date tons): **3115/1260**

D. SIGNIFICANT COMMUNICATIONS:

None

E. UPCOMING SITE ACTIVITIES

1. Begin removal of the phase one sheeting and the installation of phase two sheeting.
2. Continue the concrete investigation at the vicinity of MH-1.

F. DAILY SITE PHOTOGRAPHS



View of the existing RCP below the pipe chase.



View of concrete collar at MH-1B.

DAILY PROGRESS REPORT 62: 1/31/12**66-INCH STORM SEWER REPLACEMENT
NEW YORK STATE ELECTRIC & GAS CORPORATION
COURT STREET FORMER MGP SITE, BINGHAMTON, NEW YORK**

This daily progress report summarizes project-related activities performed by AECOM and its subcontractors, on behalf of New York State Electric and Gas (NYSEG), at the Court Street Former MGP Site in Binghamton, New York (the site) for January 31, 2012 as observed by E. Michael Flynn of ARCADIS.

A. COMPLETED WORK/WORK IN PROGRESS

No trucks loaded for offsite disposal today.

AECOM performed additional exploratory excavation at the southern end of the phase two area to expose the existing RCP. AECOM removed additional sections of the former gas holder floor and portions of the pipe chase.

AECOM performed pre-trenching on the northern portion of the phase two area. AECOM did not encounter much concrete/debris from the area and the northern portion was completed.

AECOM continued to dewater the pipe chase near MH-1. Water was pumped to the weir tanks at the TWTS. AECOM started to pump water leaking into the trench near manholes MH-1 and MH-1C to the sump that was installed in the backfilled trench midway between these manholes. AECOM continued treatment in "batch" mode due to the continued presence of VOC's in the treated water. AECOM received the analytical results of water sample duplicates collected from AE-Batch #11 that were sent to the Life Sciences Laboratory (LSL) in Syracuse, NY. The results confirmed the presence of VOC's in the treated water. AECOM back-washed the carbon vessels at the TWTS in order to address the VOC issue. AECOM and LRT assumed that the issue was related to the channelization of the carbon media, which is resulting in limited contact time between the water and the carbon. AECOM believes that back-washing will decrease the channelization by fluidizing and "re-settling" the carbon. AECOM back-washed the carbon and began treating AE-Batch # 12. Batch # 12 consisted of combined batches # 11 and # 12. ARCADIS collected water samples from AE-Batch 12.

Tioga began pulling sheets from the western side of the phase one trench. Sheets will be removed from the center of the alignment to provide access across the phase one area. Tioga will begin installing the sheets at the northern end of the phase two area.

Tioga began welding the H-piles to the sheeting for the north and south ends of the phase two areas.

AECOM secured the excavation by placing orange construction fencing and parking both excavators and loader around the perimeter of the open area.

B. HEALTH & SAFETY REMARKS

AECOM conducted tailgate safety meetings. All site personnel were required to sign in. Hard hats, safety glasses, reflective vests, and steel-toe boots were required to perform site work. No injuries or illnesses were observed or reported. Air monitoring is being performed on a daily basis using Multi-Rae and Dust Trak (weather permitting) units. No violation of safety procedures were observed or recorded.

Temperature: 35° F to 40°F

Cloud cover: Clear

Rainfall: none

Wind Speed Average and Direction: 5-10 mph East

CAMP: CAMP Stations UP, DW 1 and DW 2 deployed. No exceedances.

Calibration: Dust Trak and PID units for each station calibrated at start of day.

C. OFFSITE DISPOSAL:

ESMI/Broome County Landfill Disposed Offsite (daily tons): **0/0**

ESMI/Broome County Landfill Disposed Offsite (total to date tons): **3115/1260**

D. SIGNIFICANT COMMUNICATIONS:

None

E. UPCOMING SITE ACTIVITIES

1. Continue the removal of the phase one sheeting.
2. Begin the installation of phase two sheeting.
3. Continue the concrete investigation at the vicinity of MH-1.

F. DAILY SITE PHOTOGRAPHS



View of the dewatering process from inside the pipe chase (the existing sewer is visible in the foreground)



View of Tioga personnel removing sheets from the center of the phase one area. (facing north)

DAILY PROGRESS REPORT 63: 2/01/12**66-INCH STORM SEWER REPLACEMENT
NEW YORK STATE ELECTRIC & GAS CORPORATION
COURT STREET FORMER MGP SITE, BINGHAMTON, NEW YORK**

This daily progress report summarizes project-related activities performed by AECOM and its subcontractors, on behalf of New York State Electric and Gas (NYSEG), at the Court Street Former MGP Site in Binghamton, New York (the site) for February 01, 2012 as observed by E. Michael Flynn of ARCADIS.

A. COMPLETED WORK/WORK IN PROGRESS

No trucks loaded for offsite disposal today.

AECOM performed additional excavation on the southern end of the phase two area to expose the existing RCP. AECOM removed additional sections of the former holder floor and portions of the pipe chase.

AECOM continued to dewater the pipe chase near MH-1. Water was pumped to the weir tanks at the TWTS. AECOM continued to pump water leaking into the trench near manholes MH-1 and MH-1C to the sump that was installed in the backfilled trench midway between these manholes. AECOM continued treatment in "batch" mode due to the issues with VOC's in the treated water. ARCADIS collected water samples from AE-Batch 13.

Tioga continued pulling sheets from the center of the phase one trench. Tioga completed the new access road across the center of the phase one area. Tioga plans to mobilize a crane and equipment to the north of the site to prepare for driving sheets tomorrow.

Tioga completed the welding of the H-piles to the sheeting that will be installed at the north and south ends of the phase two areas.

AECOM secured the excavation by placing orange construction fencing and parking both excavators and loader around the perimeter of the open area.

B. HEALTH & SAFETY REMARKS

AECOM conducted tailgate safety meetings. All site personnel were required to sign in. Hard hats, safety glasses, reflective vests, and steel-toe boots were required to perform site work. No injuries or illnesses were observed or reported. Air monitoring is being performed on a daily basis using Multi-Rae and Dust Trak (weather permitting) units. No violation of safety procedures were observed or recorded.

Temperature: 35° F to 55°F

Cloud cover: Clear

Rainfall: AM showers (<.5")

Wind Speed Average and Direction: 5-10 mph West

CAMP: CAMP Stations UP, DW 1 and DW 2 deployed. No exceedances.

Calibration: Dust Trak and PID units for each station calibrated at start of day.

C. OFFSITE DISPOSAL:

ESMI/Broome County Landfill Disposed Offsite (daily tons): **0/0**

ESMI/Broome County Landfill Disposed Offsite (total to date tons): **3115/1260**

D. SIGNIFICANT COMMUNICATIONS:

None

E. UPCOMING SITE ACTIVITIES

1. Begin the installation of phase two sheeting.
2. Continue the concrete investigation and removal at the vicinity of MH-1.

F. DAILY SITE PHOTOGRAPHS



View of Tioga personnel removing phase one sheets (facing south).



View of concrete pipe chase and the exposed RCP sewer.

DAILY PROGRESS REPORT 64: 2/02/12**66-INCH STORM SEWER REPLACEMENT
NEW YORK STATE ELECTRIC & GAS CORPORATION
COURT STREET FORMER MGP SITE, BINGHAMTON, NEW YORK**

This daily progress report summarizes project-related activities performed by AECOM and its subcontractors, on behalf of New York State Electric and Gas (NYSEG), at the Court Street Former MGP Site in Binghamton, New York (the site) for February 02, 2012 as observed by E. Michael Flynn of ARCADIS.

A. COMPLETED WORK/WORK IN PROGRESS

No trucks loaded for offsite disposal today.

AECOM performed additional excavation at the southern end of the phase two area to expose the existing RCP. AECOM removed additional sections of the former gas holder floor and portions of the pipe chase. AECOM and Tioga suggested a possible re-alignment of the northern and southern phase two areas in order to minimize the sheetpile crossing at the existing RCP sewer line. Refer to the "significant communications" section (Section D) below for additional details.

AECOM continued to dewater the pipe chase near MH-1. The water was pumped to the weir tanks at the TWTS. AECOM continued to pump water leaking into the trench near manholes MH-1 and MH-1C to the sump that was installed in the backfilled trench midway between these manholes. AECOM continued treatment in "batch" mode due to continued issues with VOC's in the treated water. ARCADIS collected water samples from AE-Batch 14.

AECOM and LRT installed a gate valve at the discharge end of the TWTS. The gate valve will be used to restrict effluent flow from the system and thereby increase system's pressure. The TWTS was designed to operate at 500 gpm and 75 psi. The system is currently operating at approximately 130 gpm and 5-10 psi. LRT anticipates that increasing the system's pressure may alleviate the channelization issues at the carbon vessels.

Tioga began driving the eastern side of the northern section of phase two sheeting.

ARCADIS collected noise measurements during sheetpile driving operations. Readings of 100 dB were recorded at the sheet pile operation and of 80dB around the site perimeter as background noise levels. All workers in the vicinity of the operation were required to wear hearing protection during sheeting operations.

AECOM placed crusher run stone across the center portion of the phase one area to create a new access road across the site. Note that access at the northern and southern ends will be eliminated once the sheeting is installed in these areas.

AECOM secured the excavation by placing orange construction fencing and parking both excavators and loader around the perimeter of the open area.

B. HEALTH & SAFETY REMARKS

AECOM conducted tailgate safety meetings. All site personnel were required to sign in. Hard hats, safety glasses, reflective vests, and steel-toe boots were required to perform site work. No injuries or illnesses were observed or reported. Air monitoring is being performed on a daily basis using Multi-Rae and Dust Trak (weather permitting) units. No violation of safety procedures were observed or recorded.

Temperature: 35° F to 38°F

Cloud cover: Clear

Rainfall: AM showers (<.5")

Wind Speed Average and Direction: 5-10 mph WNW

CAMP: CAMP Stations UP, DW 1 and DW 2 deployed. No exceedances.

Calibration: Dust Trak and PID units for each station calibrated at start of day.

C. OFFSITE DISPOSAL:

ESMI/Broome County Landfill Disposed Offsite (daily tons): **0/0**

ESMI/Broome County Landfill Disposed Offsite (total to date tons): **3115/1260**

D. SIGNIFICANT COMMUNICATIONS:

The phase two sheeting will cross through the existing sewer and will remain open until the sewer line is breached and bypass pumping begins. AECOM proposed limiting the open area of sheeting by changing the sheeting alignment to be closer to a perpendicular crossing. The re-alignment will limit the open area of sheeting, and consequently it will limit the volume of water entering the excavation. In addition, AECOM suggested following the alignment of the concrete pipe chase to support removal of the chase, and potentially reduce the complexity of the installation of the HDPE pipe at the southern end.

The weekly site progress meeting was held at the site. Refer to the meeting minutes for further details of the meeting.

E. UPCOMING SITE ACTIVITIES

1. Continue the installation of phase two sheeting.
2. Continue the concrete investigation and removal at the vicinity of MH-1.

F. DAILY SITE PHOTOGRAPHS



View of Tioga personnel driving the northern section of the phase two sheets (facing east).



View of AECOM personnel placing crusher run stone for the access road across the phase one area (facing west).

DAILY PROGRESS REPORT 65: 2/03/12**66-INCH STORM SEWER REPLACEMENT
NEW YORK STATE ELECTRIC & GAS CORPORATION
COURT STREET FORMER MGP SITE, BINGHAMTON, NEW YORK**

This daily progress report summarizes project-related activities performed by AECOM and its subcontractors, on behalf of New York State Electric and Gas (NYSEG), at the Court Street Former MGP Site in Binghamton, New York (the site) for February 03, 2012 as observed by E. Michael Flynn of ARCADIS.

A. COMPLETED WORK/WORK IN PROGRESS

No trucks loaded for offsite disposal today.

AECOM performed additional excavation at the southern end of the phase two area to expose the existing RCP. AECOM removed additional sections of the former gas holder floor and portions of the pipe chase.

AECOM continued to dewater the pipe chase near MH-1. Water was pumped to the weir tanks at the TWTS. AECOM continued to pump water leaking into the trench near manholes MH-1 and MH-1C to the sump that was installed in the backfilled trench midway between these manholes. AECOM continued treatment in "batch" mode due to the continued issues with VOC's in the treated water. ARCADIS did not collect any water samples today.

Tioga completed phase two sheeting at the northern area along the western side, and most of the eastern side. Tioga encountered concrete obstructions on the eastern side near MH-2. The concrete obstructions (i.e., remnants of the arch footing) may be related to the former arch sewer located north of MH-2. Tioga did not remove the concrete obstructions due to their proximity to the railroad embankment; however, Tioga was able to drive, with moderate difficulty, through the obstructions.

ARCADIS collected noise measurements during sheetpile driving operations. Readings of 100 dB were recorded at the sheet pile operation and of 80dB around the site perimeter as background noise levels. All workers in the vicinity of the operation are required to wear hearing protection during sheeting operations.

AECOM secured the excavation by placing orange construction fencing and parking both excavators and loader around the perimeter of the open area.

B. HEALTH & SAFETY REMARKS

AECOM conducted tailgate safety meetings. All site personnel were required to sign in. Hard hats, safety glasses, reflective vests, and steel-toe boots were required to perform site work. No injuries or illnesses were observed or reported. Air monitoring is being performed on a daily basis using Multi-Rae and Dust Trak (weather permitting) units. No violation of safety procedures were observed or recorded.

Temperature: 28° F to 38°F

Cloud cover: Clear

Rainfall: None

Wind Speed Average and Direction: 5-10 mph NNW

CAMP: CAMP Stations UP, DW 1 and DW 2 deployed. No exceedances.

Calibration: Dust Trak and PID units for each station calibrated at start of day.

C. OFFSITE DISPOSAL:

ESMI/Broome County Landfill Disposed Offsite (daily tons): **0/0**

ESMI/Broome County Landfill Disposed Offsite (total to date tons): **3115/1260**

D. SIGNIFICANT COMMUNICATIONS:

None

E. UPCOMING SITE ACTIVITIES

1. Continue the installation of phase two sheeting.
2. Continue the concrete investigation and removal at the vicinity of MH-1.

F. DAILY SITE PHOTOGRAPHS



View of Tioga attempt to remove concrete obstructions near MH-2.



View of area around MH-2 where obstructions encountered (H-pile and sheeting are observed on right).

DAILY PROGRESS REPORT 066: 2/06/12**66-INCH STORM SEWER REPLACEMENT
NEW YORK STATE ELECTRIC & GAS CORPORATION
COURT STREET FORMER MGP SITE, BINGHAMTON, NEW YORK**

This daily progress report summarizes project-related activities performed by AECOM and its subcontractors, on behalf of New York State Electric and Gas (NYSEG), at the Court Street Former MGP Site in Binghamton, New York (the site) for February 06, 2012 as observed by E. Michael Flynn of ARCADIS.

A. COMPLETED WORK/WORK IN PROGRESS

No trucks loaded for offsite disposal today.

AECOM performed additional excavation at the southern end of the Phase Two area to remove concrete and debris from the sheeting alignment. AECOM also removed concrete from around an abandoned 12" cast iron pipe located on the eastern sheeting alignment. The pipe did not appear impacted and was not within the sheeting alignment; as such AECOM only removed the concrete around the pipe.

AECOM has discontinued dewatering the pipe chase near MH-1 and has not collected any water for treatment at the TWTS. AECOM continued to pump water leaking into the trench near manholes MH-1 and MH-1C to the sump that was installed in the backfilled trench midway between these manholes. AECOM continued treatment in "batch" mode due to the continued issues with VOC's in the treated water. ARCADIS received analytical results for AE-batch # 14 that indicated that no analytes were detected at concentrations exceeding the SPDES equivalent discharge permit levels.

AECOM placed additional crusher run stone on the access roads around the site including the Phase One area where the sheets have been removed.

Tioga continues to drive sheets at the eastern side of the northern section of phase two sheeting. Tioga has completed the majority of the phase two area sheeting at the northern end.

Tioga received delivery of remaining two HDPE manholes to be used for MH-1A and MH-1D.

AECOM secured the excavation by placing orange construction fencing and parking both excavators and a loader around the perimeter of the open area.

B. HEALTH & SAFETY REMARKS

AECOM conducted tailgate safety meetings. All site personnel were required to sign in. Hard hats, safety glasses, reflective vests, and steel-toe boots were required to perform site work. No injuries or illnesses were observed or reported. Air monitoring is being performed on a daily basis using Multi-Rae and Dust Trak (weather permitting) units. No violation of safety procedures were observed or recorded.

Temperature: 30° F to 50°F

Cloud cover: Clear

Rainfall: None

Wind Speed Average and Direction: 5-10 mph NNW

CAMP: CAMP Stations UP, DW 1 and DW 2 deployed. No exceedances.

Calibration: Dust Trak and PID units for each station calibrated at start of day.

C. OFFSITE DISPOSAL:

ESMI/Broome County Landfill Disposed Offsite (daily tons): **0/0**

ESMI/Broome County Landfill Disposed Offsite (total to date tons): **3115/1260**

D. SIGNIFICANT COMMUNICATIONS:

None

E. UPCOMING SITE ACTIVITIES

1. Continue the installation of phase two sheeting.
2. Begin excavation on the northern end of the phase two area.

F. DAILY SITE PHOTOGRAPHS



View of Tioga driving phase two area sheets at the northern end.



View of MH-1A and MH-1D being delivered.

DAILY PROGRESS REPORT 067: 2/07/12**66-INCH STORM SEWER REPLACEMENT
NEW YORK STATE ELECTRIC & GAS CORPORATION
COURT STREET FORMER MGP SITE, BINGHAMTON, NEW YORK**

This daily progress report summarizes project-related activities performed by AECOM and its subcontractors, on behalf of New York State Electric and Gas (NYSEG), at the Court Street Former MGP Site in Binghamton, New York (the site) for February 07, 2012 as observed by E. Michael Flynn of ARCADIS.

A. COMPLETED WORK/WORK IN PROGRESS

No trucks loaded for offsite disposal today.

AECOM performed additional excavation at the southern end of the Phase Two area to remove concrete and debris from the sheeting alignment. AECOM completed all concrete removal needed to install the southern sheets.

AECOM began pumping water from the backfilled portion of the Phase One area to the Temporary Water Treatment System (TWTS). At the February 7, 2012 weekly meeting, NYSDEC requested one additional sample of untreated water that has been run through the system prior to allowing continuous discharge from the TWTS. Since AECOM continued to pump water leaking into the trench near manholes MH-1 and MH-1C to the sump that was installed in the backfilled trench midway between these manholes, AECOM has not accumulated any water for treatment. AECOM back washed the carbon vessels at the TWTS today using batch # 14 as the back wash water. AECOM retreated batch # 14 through the system and began discharging batch # 14. ARCADIS did not collect any additional water samples.

Tioga completed sheeting installation at the northern section of the Phase Two area. Tioga attempted to drive additional sheets at the eastern side in order to make the opening at the existing sewer smaller; however Tioga encountered additional concrete and was unable to drive the additional sheets. Tioga resumed pulling Phase One sheets.

AECOM secured the excavation by placing orange construction fencing and parking both excavators and a loader around the perimeter of the open area.

B. HEALTH & SAFETY REMARKS

AECOM conducted tailgate safety meetings. All site personnel were required to sign in. Hard hats, safety glasses, reflective vests, and steel-toe boots were required to perform site work. No injuries or illnesses were observed or reported. Air monitoring is being performed on a daily basis using Multi-Rae and Dust Trak (weather permitting) units. No violation of safety procedures were observed or recorded.

Temperature: 35° F to 40°F

Cloud cover: Clear

Rainfall: None

Wind Speed Average and Direction: 5-10 mph NNW

CAMP: CAMP Stations UP, DW 1 and DW 2 deployed. No exceedances.

Calibration: Dust Trak and PID units for each station calibrated at start of day.

C. OFFSITE DISPOSAL:

ESMI/Broome County Landfill Disposed Offsite (daily tons): **0/0**

ESMI/Broome County Landfill Disposed Offsite (total to date tons): **3115/1260**

D. SIGNIFICANT COMMUNICATIONS:

The weekly site progress meeting was held at the site today. Please refer to the meeting minutes for details of the meeting.

E. UPCOMING SITE ACTIVITIES

1. Continue the installation of phase two sheeting.
2. Begin excavation on the northern end of the phase two area.

F. DAILY SITE PHOTOGRAPHS



View of Tioga driving sheets at the northern end of the phase two area.



View of Tioga pulling phase one sheeting.

DAILY PROGRESS REPORT 068: 2/08/12**66-INCH STORM SEWER REPLACEMENT
NEW YORK STATE ELECTRIC & GAS CORPORATION
COURT STREET FORMER MGP SITE, BINGHAMTON, NEW YORK**

This daily progress report summarizes project-related activities performed by AECOM and its subcontractors, on behalf of New York State Electric and Gas (NYSEG), at the Court Street Former MGP Site in Binghamton, New York (the site) for February 08, 2012 as observed by E. Michael Flynn of ARCADIS.

A. COMPLETED WORK/WORK IN PROGRESS

AECOM began excavation and offsite disposal of material from the northern portion of the Phase Two area. AECOM loaded out construction and demolition (C&D) debris from the removal of the southern Phase Two area during pre-trenching (remnants of the concrete pipe chase). AECOM loaded out two and five trucks to Broome County Landfill for C&D debris and visually non-impacted soil, respectively. Three loads of visually impacted soil were sent to ESMI. AECOM segregated the upper 4' to 6' of non-visually impacted soil for disposal at the Broome County Landfill, while the visually-impacted soil from below the existing RCP was transported to ESMI.

AECOM resumed odor control measures today including application of Biosolve spray during excavation and loadout.

AECOM continued sending water from the backfilled portion of the Phase One area to the Temporary Water Treatment System (TWTS). AECOM generated approximately 20,000 gallons for treatment from the Phase One and Two areas. ARCADIS collected "Batch # 15" from the TWTS and AECOM resumed pumping water leaking into the trench near manholes MH-1 and MH-1C to the sump that was installed in the backfilled trench midway between these manholes.

Tioga began pulling sheets from the center of the Phase One area and driving sheets at the southern Phase Two area. Tioga cleaned and caulked the sheets during removal in preparation for driving at the southern end.

Tioga assembled concrete forms that will be used to pour the bases for MH-1A and MH-1D. Tioga will pour the bases at the ground surface with lifting hooks to facilitate placement into the trench.

AECOM secured the excavation by placing orange construction fencing and parking both excavators and a loader around the perimeter of the open area.

B. HEALTH & SAFETY REMARKS

AECOM conducted tailgate safety meetings. All site personnel were required to sign in. Hard hats, safety glasses, reflective vests, and steel-toe boots were required to perform site work. No injuries or illnesses

were observed or reported. Air monitoring is being performed on a daily basis using Multi-Rae and Dust Trak (weather permitting) units. No violation of safety procedures were observed or recorded.

Temperature: 25° F to 35°F

Cloud cover: Clear

Rainfall: None

Wind Speed Average and Direction: 5-10 mph ENE

CAMP: CAMP Stations UP, DW 1 and DW 2 deployed. No exceedances.

Calibration: Dust Trak and PID units for each station calibrated at start of day.

C. OFFSITE DISPOSAL:

ESMI/Broome County Landfill Disposed Offsite (daily tons): **105/245**

ESMI/Broome County Landfill Disposed Offsite (total to date tons): **3220/1505**

D. SIGNIFICANT COMMUNICATIONS:

None

E. UPCOMING SITE ACTIVITIES

1. Continue the installation of Phase Two sheeting.
2. Continue excavation on the northern end of the Phase Two area.

F. DAILY SITE PHOTOGRAPHS



View of excavation at MH-2 on the northern end.



View of the lifting hooks that will be poured into the MH bases.

DAILY PROGRESS REPORT 069: 2/09/12**66-INCH STORM SEWER REPLACEMENT
NEW YORK STATE ELECTRIC & GAS CORPORATION
COURT STREET FORMER MGP SITE, BINGHAMTON, NEW YORK**

This daily progress report summarizes project-related activities performed by AECOM and its subcontractors, on behalf of New York State Electric and Gas (NYSEG), at the Court Street Former MGP Site in Binghamton, New York (the site) for February 09, 2012 as observed by E. Michael Flynn of ARCADIS.

A. COMPLETED WORK/WORK IN PROGRESS

AECOM continued excavation and offsite disposal of material from the northern portion of the Phase Two area. AECOM loaded six trucks of visually non-impacted soil to Broome County Landfill and two loads of visually impacted soil to ESMI. AECOM was able to segregate the upper 4' to 6' of visually non-impacted soil to Broome County Landfill, while the visually impacted soil from below the existing reinforced concrete pipe (RCP) was transported to ESMI.

AECOM resumed odor control measures today including application of Biosolve spray during excavation and loadout.

AECOM resumed pumping water from the Phase Two area back into the Phase One area. AECOM did not pump any water for treatment at the Temporary Water Treatment System.

Tioga continued pulling sheets from the Phase One area and driving sheets at the southern end of Phase Two area. Tioga cleaned and caulked the sheets during removal in preparation for driving at the southern end.

AECOM secured the excavation by placing orange construction fencing and parking both excavators and a loader around the perimeter of the open area.

B. HEALTH & SAFETY REMARKS

AECOM conducted tailgate safety meetings. All site personnel were required to sign in. Hard hats, safety glasses, reflective vests, and steel-toe boots were required to perform site work. No injuries or illnesses were observed or reported. Air monitoring is being performed on a daily basis using Multi-Rae and Dust Trak (weather permitting) units. No violation of safety procedures were observed or recorded.

Temperature: 25° F to 40°F

Cloud cover: Clear

Rainfall: None

Wind Speed Average and Direction: 5-10 mph NNW

CAMP: CAMP Stations UP, DW 1 and DW 2 deployed. No exceedances.

Calibration: Dust Trak and PID units for each station calibrated at start of day.

C. OFFSITE DISPOSAL:

ESMI/Broome County Landfill Disposed Offsite (daily tons): **70/210**

ESMI/Broome County Landfill Disposed Offsite (total to date tons): **3290/1715**

D. SIGNIFICANT COMMUNICATIONS:

None

E. UPCOMING SITE ACTIVITIES

1. Continue the installation of Phase Two sheeting.
2. Continue excavation on the northern end of the Phase Two area.

F. DAILY SITE PHOTOGRAPHS



View of Tioga cleaning and caulking sheets.



View of the northern Phase Two excavation.

DAILY PROGRESS REPORT 070: 2/10/12**66-INCH STORM SEWER REPLACEMENT
NEW YORK STATE ELECTRIC & GAS CORPORATION
COURT STREET FORMER MGP SITE, BINGHAMTON, NEW YORK**

This daily progress report summarizes project-related activities performed by AECOM and its subcontractors, on behalf of New York State Electric and Gas (NYSEG), at the Court Street Former MGP Site in Binghamton, New York (the site) for February 10, 2012 as observed by E. Michael Flynn of ARCADIS.

A. COMPLETED WORK/WORK IN PROGRESS

AECOM continued excavation and offsite disposal of material from the northern portion of the Phase Two area. AECOM loaded two truckloads of visually non-impacted soil to Broome County Landfill and two loads of visually impacted soil to ESMI. AECOM was able to segregate the upper 4' to 6' of visually non-impacted soil to Broome County Landfill, while the visually impacted soil from below the existing reinforced concrete pipe (RCP) was transported to ESMI.

AECOM resumed odor control measures today including application of Biosolve spray during excavation and loadout.

AECOM resumed pumping water from the Phase One area back into the Phase One area. AECOM did not pump any water for treatment at the Temporary Water Treatment System.

Tioga continued pulling sheets from the Phase One area and driving sheets at the southern end of Phase Two area. Tioga cleaned and caulked the sheets during removal in preparation for driving at the southern end. Tioga installed wood lagging at the northern end of the Phase Two area (between the H-piles on the north end).

AECOM secured the excavation by placing orange construction fencing and parking both excavators and the loader around the perimeter of the open area.

B. HEALTH & SAFETY REMARKS

AECOM conducted tailgate safety meetings. All site personnel were required to sign in. Hard hats, safety glasses, reflective vests, and steel-toe boots were required to perform site work. No injuries or illnesses were observed or reported. Air monitoring is being performed on a daily basis using Multi-Rae and Dust Trak (weather permitting) units. No violation of safety procedures were observed or recorded.

Temperature: 25° F to 35°F

Cloud cover: Clear

Rainfall: None

Wind Speed Average and Direction: 5-10 mph SSE

CAMP: CAMP Stations UP, DW 1 and DW 2 deployed. No exceedances.

Calibration: Dust Trak and PID units for each station calibrated at start of day.

C. OFFSITE DISPOSAL:

ESMI/Broome County Landfill Disposed Offsite (daily tons): **70/70**

ESMI/Broome County Landfill Disposed Offsite (total to date tons): **3360/1785**

D. SIGNIFICANT COMMUNICATIONS:

None

E. UPCOMING SITE ACTIVITIES

1. Continue the installation of Phase Two sheeting.
2. Continue excavation on the northern end of the Phase Two area.

F. DAILY SITE PHOTOGRAPHS



View of Tioga driving sheets at the southern Phase Two area.



View of the wood lagging being installed at the northern end.

DAILY PROGRESS REPORT 072: 2/13/12**66-INCH STORM SEWER REPLACEMENT
NEW YORK STATE ELECTRIC & GAS CORPORATION
COURT STREET FORMER MGP SITE, BINGHAMTON, NEW YORK**

This daily progress report summarizes project-related activities performed by AECOM and its subcontractors, on behalf of New York State Electric and Gas (NYSEG), at the Court Street Former MGP Site in Binghamton, New York (the site) for February 13, 2012 as observed by E. Michael Flynn of ARCADIS.

A. COMPLETED WORK/WORK IN PROGRESS

AECOM completed the initial excavation and offsite disposal of material from the north end of the Phase Two area. AECOM removed the residual material that was generated from the sheetpile "pockets". AECOM will complete the remainder of the excavation once the RCP has been removed. AECOM loaded 1 truckload of soil to BCL and 1 load of soil to ESMI. AECOM segregated the upper 4' to 6' of visually non-impacted soil to BCL while the visually impacted soil from below the existing RCP was transported to ESMI.

AECOM continued re-circulation of water that was leaking from the Phase One area back into the Phase One area. AECOM did not treat any water at the Temporary Water Treatment System. There is currently a very small quantity of water that is leaking from the Phase One area and this water is currently being re-circulated back into the Phase One area.

Tioga continues pulling sheets from the center of the phase one area and re-driving these sheets for the southern phase two area. Tioga cleans and caulks the sheets as they are being removed from the ground so that they are ready to re-drive on the southern end. Tioga removes enough sheets to complete the southern area this morning and then moves the crane further south to continue the southernmost sheeting installation this afternoon.

Tioga completes the installation of the wood lagging at the north end of the Phase Two area (between the H-piles on the north end).

AECOM performed "housekeeping activities (road repair, etc) around the south end to prepare for excavation. AECOM continued odor control measures including Biosolve spraying during excavation and loadout activities.

AECOM secured the excavation by placing orange construction fencing and parking both excavators and the loader around the perimeter of the open area.

B. HEALTH & SAFETY REMARKS

AECOM conducted tailgate safety meetings. All site personnel were required to sign in. Hard hats, safety glasses, reflective vests, and steel-toe boots were required to perform site work. No injuries or illnesses

were observed or reported. Air monitoring is being performed on a daily basis using Multi-Rae and Dust Trak (weather permitting) units. No violation of safety procedures were observed or recorded.

Temperature: 25° F to 37°F

Cloud cover: Clear

Rainfall: None

Wind Speed Average and Direction: 5-10 mph NNW

CAMP: CAMP Stations UP, DW 1 and DW 2 deployed. No exceedances.

Calibration: Dust Trak and PID units for each station calibrated at start of day.

C. OFFSITE DISPOSAL:

ESMI/Broome County Landfill Disposed Offsite (daily tons): **35/35**

ESMI/Broome County Landfill Disposed Offsite (total to date tons): **3395/1820**

D. SIGNIFICANT COMMUNICATIONS:

None

E. UPCOMING SITE ACTIVITIES

1. Complete the installation of Phase Two sheeting.
2. Initiate excavation on the southern end of the Phase Two area.

F. DAILY SITE PHOTOGRAPHS



View of the north end of the Phase Two area after soil has been removed and lagging was installed.



View of Tioga driving Phase Two sheets at the south end of Phase Two area.

DAILY PROGRESS REPORT 073: 2/14/12**66-INCH STORM SEWER REPLACEMENT
NEW YORK STATE ELECTRIC & GAS CORPORATION
COURT STREET FORMER MGP SITE, BINGHAMTON, NEW YORK**

This daily progress report summarizes project-related activities performed by AECOM and its subcontractors, on behalf of New York State Electric and Gas (NYSEG), at the Court Street Former MGP Site in Binghamton, New York (the site) for February 14, 2012 as observed by E. Michael Flynn of ARCADIS.

A. COMPLETED WORK/WORK IN PROGRESS

AECOM begins excavation at the south end of the Phase Two area. AECOM uncovered the top of the concrete "pipe chase" that surrounds the existing RCP sewer line. AECOM continued removing concrete and downsizing with a hoe-ram for offsite disposal. AECOM stockpiled concrete for offsite disposal. No trucks were loaded for offsite disposal.

AECOM continued re-circulating leaking water from the Phase One area back into the Phase One area. AECOM did not treat any water at the Temporary Water Treatment System. There is currently a very small quantity of water that is leaking from the Phase One area, which will be pumped back into the Phase One area. During the weekly progress meeting NYSDEC grants permission for continuous discharge from the TWTS. AECOM will schedule backwashing of the carbon vessels at regular intervals of 1 /week or 60,000 gallons. ARCADIS will sample the effluent from the TWTS on a weekly basis.

Tioga completed the sheeting installation at the south end of the Phase Two with the exception of the sheets at the existing RCP. These remaining sheets will be installed once the RCP has been removed. Tioga resumed sheet pile removal at the north end of the Phase One area.

AECOM continued odor control measures including Biosolve spraying during excavation and loadout.

AECOM performed "housekeeping activities (road repair, etc) around the northern end to prepare for excavation.

AECOM received delivery of the bypass pump discharge lines today.

AECOM secured the excavation by placing orange construction fencing and parking both excavators and the loader around the perimeter of the open area.

B. HEALTH & SAFETY REMARKS

AECOM conducted tailgate safety meetings. All site personnel were required to sign in. Hard hats, safety glasses, reflective vests, and steel-toe boots were required to perform site work. No injuries or illnesses were observed or reported. Air monitoring is being performed on a daily basis using Multi-Rae and Dust Trak (weather permitting) units. No violation of safety procedures were observed or recorded.

Temperature: 30° F to 38°F

Cloud cover: Cloudy

Rainfall: snow showers (<1/2")

Wind Speed Average and Direction: 5-10 mph ESE

CAMP: CAMP Stations UP, DW 1 and DW 2 deployed. No exceedances.

Calibration: Dust Trak and PID units for each station calibrated at start of day.

C. OFFSITE DISPOSAL:

ESMI/Broome County Landfill Disposed Offsite (daily tons): **0/0**

ESMI/Broome County Landfill Disposed Offsite (total to date tons): **3395/1820**

D. SIGNIFICANT COMMUNICATIONS:

The weekly site progress meeting is held at the site today. Please see the meeting minutes for further details.

E. UPCOMING SITE ACTIVITIES

1. Continue with the demolition and removal of concrete from the south end area.
2. Continue offsite disposal of concrete and soil from the south end area.
3. Continue with the removal of the Phase One sheeting.

F. DAILY SITE PHOTOGRAPHS



View of concrete pipe chase with hole broken through the top.



View of pipe chase showing RCP inside of chase.

DAILY PROGRESS REPORT 074: 2/15/12**66-INCH STORM SEWER REPLACEMENT
NEW YORK STATE ELECTRIC & GAS CORPORATION
COURT STREET FORMER MGP SITE, BINGHAMTON, NEW YORK**

This daily progress report summarizes project-related activities performed by AECOM and its subcontractors, on behalf of New York State Electric and Gas (NYSEG), at the Court Street Former MGP Site in Binghamton, New York (the site) for February 15, 2012 as observed by E. Michael Flynn of ARCADIS.

A. COMPLETED WORK/WORK IN PROGRESS

AECOM continued performing demolition and removal of the concrete around the pipe chase near manhole MH-1. AECOM also performed soil removal from the south end of the Phase Two area. AECOM loaded 2 truckloads of soil to Broome County Landfill (BCL) and 1 truckload of soil to ESMI.

AECOM initiated dewatering activities at the concrete pipe chase near manhole MH-1 and conveying the collected water to the TWTS for treatment.

Tioga continued removal of the Phase One sheeting from the north end of the Phase Two area.

Tioga poured the manhole bases for MH-1A and MH-1D. Both of the bases were poured at the ground surface and will be lifted and placed into the trench once the Phase Two excavation has been completed. ATL was onsite to perform concrete testing. All results are within the project specifications for air entrainment and slump.

AECOM installed the bypass pump discharge lines between manholes MH-1 and MH-2 along the west side of the site.

AECOM continues odor control measures today including Biosolve spraying during excavation and loadout.

AECOM secured the excavation by placing orange construction fencing and parking both excavators and the loader around the perimeter of the open area.

ARCADIS personnel were onsite to perform NAPL monitoring activities.

B. HEALTH & SAFETY REMARKS

AECOM conducted tailgate safety meetings. All site personnel were required to sign in. Hard hats, safety glasses, reflective vests, and steel-toe boots were required to perform site work. Air monitoring is being performed on a daily basis using Multi-Rae and Dust Trak (weather permitting) units. No violation of safety procedures were observed or recorded.

An injury to a Tioga employee was reported to AECOM last night and discussed at the morning safety meeting. The employee injured his elbow while tightening bolts on an HDPE flange. The employee did not report the incident initially since he did not believe the injury was serious enough to report. After several days the swelling has not decreased and the employee reported the injury at that time. No further medical treatment is being taken at this time. All employees are reminded of the importance of timely reporting regardless of the nature or severity of the injury.

Temperature: 30° F to 34°F

Cloud cover: Cloudy

Rainfall: None

Wind Speed Average and Direction: 5-10 mph ESE

CAMP: CAMP Stations UP, DW 1 and DW 2 deployed. No exceedances.

Calibration: Dust Trak and PID units for each station calibrated at start of day.

C. OFFSITE DISPOSAL:

ESMI/Broome County Landfill Disposed Offsite (daily tons): **35/70**

ESMI/Broome County Landfill Disposed Offsite (total to date tons): **3430/1890**

D. SIGNIFICANT COMMUNICATIONS:

None

E. UPCOMING SITE ACTIVITIES

1. Continue with the demolition and removal of concrete from the south end of the Phase Two area.
2. Continue offsite disposal of concrete and soil from the south end of the Phase Two area.
3. Continue with the removal of the Phase One sheeting.

F. DAILY SITE PHOTOGRAPHS



View of RCP near MH-1 after the pipe chase had been removed.



View of concrete below RCP showing water and NAPL below RCP.



View of manhole MH-1A base being poured.



View of MH-1A base showing lifting rods poured into the base (lower/center in photo).

DAILY PROGRESS REPORT 075: 2/16/12**66-INCH STORM SEWER REPLACEMENT
NEW YORK STATE ELECTRIC & GAS CORPORATION
COURT STREET FORMER MGP SITE, BINGHAMTON, NEW YORK**

This daily progress report summarizes project-related activities performed by AECOM and its subcontractors, on behalf of New York State Electric and Gas (NYSEG), at the Court Street Former MGP Site in Binghamton, New York (the site) for February 16, 2012 as observed by E. Michael Flynn of ARCADIS.

A. COMPLETED WORK/WORK IN PROGRESS

AECOM continued performing demolition and removal of the concrete pipe chase near MH-1. AECOM removed soil from the south end of the Phase Two area. AECOM loaded 3 truckloads of soil to Broome County Landfill (BCL) and 4 truckloads of soil to ESMI.

AECOM continued dewatering the concrete pipe chase near MH-1 and treating the water through the TWTS. AECOM also began pumping water that has "upwelled" from below the concrete near MH-1C. Since Tioga is currently pulling sheets in the area, it is believed that the vibrations have contributed to the increased flow. AECOM will monitor the dewatering pumps and the TWTS overnight tonight. AECOM discharged "batch # 15".

Tioga continued removing the Phase One sheets from the north end.

AECOM installed the bypass pump discharge lines between manholes MH-1 and MH-2 along the west side of the site. AECOM also installed the suction lines for the bypass pumps into manhole MH-2.

AECOM received the bypass pumps today.

AECOM continued implementing odor control measures including Biosolve spraying during excavation and loadout.

AECOM secured the excavation by placing orange construction fencing and parking both excavators and the loader around the perimeter of the open area.

B. HEALTH & SAFETY REMARKS

AECOM conducted tailgate safety meetings. All site personnel were required to sign in. Hard hats, safety glasses, reflective vests, and steel-toe boots were required to perform site work. Air monitoring is being performed on a daily basis using Multi-Rae and Dust Trak (weather permitting) units. No violation of safety procedures were observed or recorded. No injuries or accidents are reported today.

Temperature: 32° F to 38°F

Cloud cover: Cloudy
Rainfall: showers (<1/2")
Wind Speed Average and Direction: 5-10 mph ESE

CAMP: CAMP Stations UP, DW 1 and DW 2 deployed. No exceedances.

Calibration: Dust Trak and PID units for each station calibrated at start of day.

C. OFFSITE DISPOSAL:

ESMI/Broome County Landfill Disposed Offsite (daily tons): **140/105**

ESMI/Broome County Landfill Disposed Offsite (total to date tons): **3570/1995**

D. SIGNIFICANT COMMUNICATIONS:

None

E. UPCOMING SITE ACTIVITIES

1. Continue with the demolition and removal of the concrete pipe chase at the south end of the Phase Two area.
2. Continue offsite disposal of concrete and soil from the south end of the Phase Two area.
3. Continue with the removal of the Phase One sheeting.
4. Test the bypass pumps.

F. DAILY SITE PHOTOGRAPHS



View of the RCP near manhole MH-1 after pipe chase removal.



View of concrete below RCP showing water and NAPL below the RCP.



View looking down manhole MH-2 from above.



View of water upwelling from below concrete near MH1-C.

DAILY PROGRESS REPORT 076: 2/17/12**66-INCH STORM SEWER REPLACEMENT
NEW YORK STATE ELECTRIC & GAS CORPORATION
COURT STREET FORMER MGP SITE, BINGHAMTON, NEW YORK**

This daily progress report summarizes project-related activities performed by AECOM and its subcontractors, on behalf of New York State Electric and Gas (NYSEG), at the Court Street Former MGP Site in Binghamton, New York (the site) for February 17, 2012 as observed by E. Michael Flynn of ARCADIS.

A. COMPLETED WORK/WORK IN PROGRESS

AECOM continued performing demolition and removal of the concrete pipe chase near MH-1. AECOM also removed soil from the south end of the Phase Two area. AECOM loads 5 truckloads of soil to Broome County Landfill (BCL) and 6 truckloads of soil to ESML.

AECOM cut access holes through the top of the existing RCP sewer at both the north and south ends of the Phase Two area, in order to place sandbag diversions for hydraulic control and to assist with the bypass pumping. The cut sections are located in RCP sections that will be removed to facilitate the slip lining process. After blocking off the downstream side of MH-2, a leak was identified in the southwest corner of manhole MH-2. Operation of the bypass pumps below this point addressed the leaking condition.

AECOM completed installation of the bypass pump system and tested the system operation. AECOM removed the sandbag diversions to allow the sewer to function as normal over the weekend.

AECOM maintained dewatered state at the concrete pipe chase near MH-1 and treated the collected water at the TWTS. In addition, AECOM pumped "upwelled" water from below the concrete near MH-1C. The flow of water decreased overnight and as Tioga progressed with sheet removal. The vibrations (and flow) have both decreased. AECOM monitored the dewatering pumps and the TWTS over a 24hour period. The water condition does not appear that further overnight monitoring will be required. AECOM continued treating water in "batch" mode. No samples were collected by ARCADIS.

Tioga continued removal of the Phase One sheeting from the north end.

AECOM continued implementing odor control measures including Biosolve spraying during excavation and loadout.

AECOM secured the excavation by placing orange construction fencing and parking both excavators and the loader around the perimeter of the open area.

B. HEALTH & SAFETY REMARKS

AECOM conducted tailgate safety meetings. All site personnel were required to sign in. Hard hats, safety glasses, reflective vests, and steel-toe boots were required to perform site work. Air monitoring is being performed on a daily basis using Multi-Rae and Dust Trak (weather permitting) units.

An incident occurred onsite today involving an AECOM employee. The employee was injured while climbing down off of an ESMI truck after checking the truck for a poly liner. The employee injured his ankle when he stepped down from the truck and was taken by ambulance to a local hospital for further treatment. AECOM performed a "safety stand-down" this afternoon to discuss this incident and also to re-enforce safety policies and procedures to all onsite personnel.

Temperature: 35° F to 43°F

Cloud cover: Clear

Rainfall: showers: None

Wind Speed Average and Direction: 5-10 mph NNW

CAMP: CAMP Stations UP, DW 1 and DW 2 deployed. No exceedances.

Calibration: Dust Trak and PID units for each station calibrated at start of day.

C. OFFSITE DISPOSAL:

ESMI/Broome County Landfill Disposed Offsite (daily tons): **210/175**

ESMI/Broome County Landfill Disposed Offsite (total to date tons): **3780/2170**

D. SIGNIFICANT COMMUNICATIONS:

Please refer to the Health and Safety section for details regarding an injury onsite today.

E. UPCOMING SITE ACTIVITIES

1. Continue with the demolition and removal of concrete from the south end of the Phase Two area.
2. Continue offsite disposal of concrete and soil from the south end of the Phase Two area.
3. Continue with the removal of the Phase One sheeting.
4. Begin bypass pumping and removal of the existing RCP sewer.

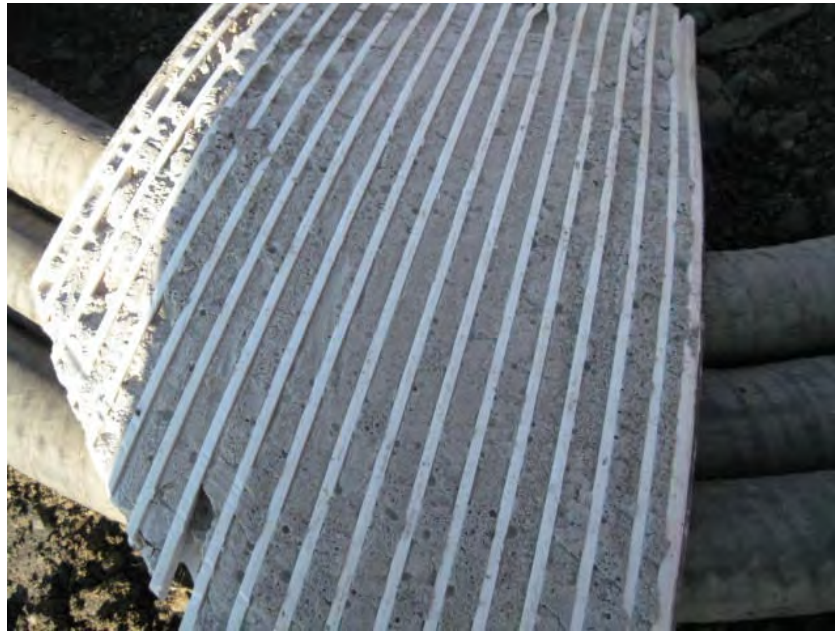
F. DAILY SITE PHOTOGRAPHS



View of Phase One sheeting being removed.



View of access hole cut through the top of the RCP pipe. The Danby liner is visible below the concrete.



View of a section of the Danby liner showing the grout that was used between the existing RCP and the liner.



View of water leaking from the (lower/bottom) SW corner of manhole MH-2. Note that the white rock visible to the right of the pipe appears to be a former “patch” that was placed previously in an attempt to repair the leak.

DAILY PROGRESS REPORT 077: 2/20/12**66-INCH STORM SEWER REPLACEMENT
NEW YORK STATE ELECTRIC & GAS CORPORATION
COURT STREET FORMER MGP SITE, BINGHAMTON, NEW YORK**

This daily progress report summarizes project-related activities performed by AECOM and its subcontractors, on behalf of New York State Electric and Gas (NYSEG), at the Court Street Former MGP Site in Binghamton, New York (the site) for February 20, 2012 as observed by E. Michael Flynn of ARCADIS.

A. COMPLETED WORK/WORK IN PROGRESS

AECOM performed demolition and removal of the concrete at the pipe chase near MH-1. AECOM continued removal of soil from the south end of the Phase One area. Tioga removed additional impacted material from below the RCP at the north end of the excavation area. Soil removal from the north end of the excavation is almost complete. A concrete pipe "cradle" structure that supports the RCP within the pipe chase is interfering with soil removal. AECOM and Tioga loaded 8 truckloads of soil to ESMI. No trucks were loaded any trucks for Broome County Landfill (BCL).

AECOM and Tioga installed bypass pumps and began bypassing water from manhole MH-2 across the site to manhole MH-1. AECOM pumped remaining standing water from the abandoned section of RCP to the downstream side of the sluice gate at MH-1. AECOM placed additional sandbags at the south end of the excavation to address leaking water from the sluice gate. AECOM constructed a sump using a sandbag berm to prevent the leaking water from entering the excavation area.

AECOM and Tioga removed sections of RCP from the abandoned section of sewer. Each 4' section of RCP was cut along the joint with a demo saw and then removed from the excavation. As the RCP sections were removed, sections of the Danby liner were removed from inside the RCP and stockpiled with soil for offsite disposal. The RCP sections were placed on poly sheeting at the ground surface for decontamination and stockpiled for disposal as C+D waste.

Tioga completed sheeting at the north end of the excavation area to close off the Phase Two area.

Keystone Associates was onsite to verify the elevation and location of the sub-base for manhole MH-1D.

Once Keystone verified the sub-base for manhole MH-1D, Tioga began placing the crusher run base for MH-1D.

AECOM continued dewatering the north and south ends of the excavation areas. Water flow rates were moderate. AECOM did not operate the TWTS today and ARCADIS did not collect any samples.

AECOM continued implementing odor control measures including Biosolve spraying during excavation and loadout.

AECOM secured the excavation by placing orange construction fencing and parking both excavators and the loader around the perimeter of the open area.

B. HEALTH & SAFETY REMARKS

AECOM conducted tailgate safety meetings. All site personnel were required to sign in. Hard hats, safety glasses, reflective vests, and steel-toe boots were required to perform site work. Air monitoring is being performed on a daily basis using Multi-Rae and Dust Trak units. No incidents or accidents are reported today. AECOM performs additional safety briefing this morning to review the injury last week and to prepare the crew for the upcoming 2 week bypass operation.

Temperature: 28° F to 38°F

Cloud cover: Clear

Rainfall: showers: None

Wind Speed Average and Direction: 5-10 mph NNW

CAMP: CAMP Stations UP, DW 1 and DW 2 deployed. No exceedances.

Calibration: Dust Trak and PID units for each station calibrated at start of day.

C. OFFSITE DISPOSAL:

ESMI/Broome County Landfill Disposed Offsite (daily tons): **280/0**

ESMI/Broome County Landfill Disposed Offsite (total to date tons): **4060/2170**

D. SIGNIFICANT COMMUNICATIONS:

None

E. UPCOMING SITE ACTIVITIES

1. Continue with the demolition and removal of concrete from the south end area.
2. Continue offsite disposal of concrete and soil from the south end area.
3. Continue bypass pumping and removal of the existing RCP sewer.
4. Install MH-1D.

F. DAILY SITE PHOTOGRAPHS



View of the existing RCP sewer being removed.



View of the Danby liner being removed. Note the two different grout types used behind the liner (white grout on the top and gray grout on the bottom)



View of the wood “cribbing” used to support the existing sewer on the north end.



View of the concrete “cradle” below the RCP sewer at the south end. Remnants of the concrete pipe chase and the RCP are visible on both sides of the cradle. NAPL is also visible in the cradle itself.

DAILY PROGRESS REPORT 078: 2/21/12**66-INCH STORM SEWER REPLACEMENT
NEW YORK STATE ELECTRIC & GAS CORPORATION
COURT STREET FORMER MGP SITE, BINGHAMTON, NEW YORK**

This daily progress report summarizes project-related activities performed by AECOM and its subcontractors, on behalf of New York State Electric and Gas (NYSEG), at the Court Street Former MGP Site in Binghamton, New York (the site) for February 21, 2012 as observed by E. Michael Flynn of ARCADIS.

A. COMPLETED WORK/WORK IN PROGRESS

AECOM continued the demolition and removal of concrete from the pipe chase near MH-1 as well as the removal of soil from the southern area. Tioga completed the removal of impacted material from the northern excavation area. AECOM and Tioga load 4 truckloads of soil to ESMI.

AECOM continued dewatering from the northern and southern Phase Two areas. AECOM continued treatment in "batch" mode due to the limited volume of water being treated although after excavating for the manhole bases at MH-1A and MH-1D the volume of water increased substantially.

ARCADIS collected "AE-Batch 16-022112".

AECOM excavated the base for MH-1A and significant amounts of water began upwelling from the subgrade after a silt/sand confining unit was penetrated. AECOM managed the flow of water and will attempt to place additional stone in the area tomorrow to improve subgrade conditions. Tioga experienced similar conditions while installing the base for MH-1D although the flow of water was not as substantial. Tioga placed additional #2 drainage stone to improve the subgrade and then placed crusher run stone as the sub-base.

AECOM and Tioga continue bypassing water from MH-2 across the site to MH-1.

Tioga placed the base for MH-1D.

Tioga prepared and poured the emergency concrete spillway between MH-2 and MH-1C. Tioga also removed the remaining Phase One sheeting to the north of MH-1C so that the spillway could be completed. Once the sheeting was removed, additional water began upwelling from the subgrade near MH-1C. Tioga diverted the water towards the sump located near MH-2 and AECOM pumped the water to the TWTS.

Tioga installed a safety railing around the northern sheeting today.

Keystone Associates is onsite today to check the elevation and location of the bases for MH-1A and MH-1D. Keystone also verifies the elevations of MH-1B and MH-1C.

Atlantic Testing Labs (ATL) is onsite to perform compaction testing for the base for MH-1D.

AECOM continues odor control measures today including Biosolve spraying during excavation and loadout.

AECOM secured the excavation by placing orange construction fencing and parking both excavators and the loader around the perimeter of the open area.

B. HEALTH & SAFETY REMARKS

AECOM conducted tailgate safety meetings. All site personnel were required to sign in. Hard hats, safety glasses, reflective vests, and steel-toe boots were required to perform site work. Air monitoring is being performed on a daily basis using Multi-Rae and Dust Trak units. No incidents or accidents are reported today. AECOM performs additional lunch time safety briefing today.

Temperature: 28° F to 38°F

Cloud cover: Clear

Rainfall: showers: None

Wind Speed Average and Direction: 5-10 mph NNW

CAMP: CAMP Stations UP, DW 1 and DW 2 deployed. No exceedances.

Calibration: Dust Trak and PID units for each station calibrated at start of day.

C. OFFSITE DISPOSAL:

ESMI/Broome County Landfill Disposed Offsite (daily tons): **140/0**

ESMI/Broome County Landfill Disposed Offsite (total to date tons): **4200/2170**

D. SIGNIFICANT COMMUNICATIONS:

The weekly site progress meeting was held at the site today. Please refer to the meeting minutes for further details.

E. UPCOMING SITE ACTIVITIES

1. Continue with the demolition and removal of concrete from the southern area.
2. Continue offsite disposal of concrete and soil from the southern end.

3. Continue bypass pumping and removal of the existing sewer.
4. Install the HDPE between MH-1D and MH-2.
5. Install the concrete base for MH-1A.

F. DAILY SITE PHOTOGRAPHS



View of impacted water upwelling from the subgrade at MH-1A.



View of the safety railing being installed around the northern sheeting.



View of the concrete base for MH-1D. Wire “fabric” is also in place for the emergency concrete spillway between MH-2 and MH-1C. (MH-2 is visible at the top of the photo with RCP)



View of the emergency concrete spillway between MH-2 and MH-1C being poured.



View of the removal of the concrete pipe chase near MH-1 today showing impacted material from inside the pipe chase.

DAILY PROGRESS REPORT 079: 2/22/12**66-INCH STORM SEWER REPLACEMENT
NEW YORK STATE ELECTRIC & GAS CORPORATION
COURT STREET FORMER MGP SITE, BINGHAMTON, NEW YORK**

This daily progress report summarizes project-related activities performed by AECOM and its subcontractors, on behalf of New York State Electric and Gas (NYSEG), at the Court Street Former MGP Site in Binghamton, New York (the site) for February 22, 2012 as observed by E. Michael Flynn of ARCADIS.

A. COMPLETED WORK/WORK IN PROGRESS

AECOM performed demolition and removal activities at the concrete pipe chase near manhole MH-1. AECOM also completed removal of soil from the south end of the Phase Two area. AECOM loaded 4 truckloads of soil to ESMI. AECOM loaded 2 truckloads of soil for Broome County Landfill (BCL).

AECOM continued dewatering the north and south ends of the Phase Two area. AECOM treated the collected water under continuous discharge mode due to the volume of groundwater being treated following excavation for the manhole base at MH-1A.

AECOM over-excavated a silt/sand confining layer at the manhole MH-1A base location to allow for placement of a type 2 sub base. The area was excavated approximately 1'ft below the design grade. AECOM placed non-woven geotextile fabric over the excavated MH-1A base footprint. A 12" layer of 3-4" diameter stone was placed over the fabric to bridge the upwelling water. A dewatering sump was installed 2' below the excavation bottom to maintain the water level below the base of the excavation. After the sub base stone material was compacted, Tioga placed an additional layer of non-woven geotextile fabric followed by crusher run, followed by placement of the concrete base.

AECOM and Tioga maintained bypassing pumping activities from MH-2 across the site to MH-1.

Tioga placed crusher run material for the base between manholes MH-1C and MH-1D. Following compaction, Tioga placed the HDPE pipe between MH-1C and MH-1D. Tioga connected the HDPE pipe to manhole MH-1C and torqued the MH-1C collar fasteners. The connection at MH-1D will be performed after the upstream concrete collar at MH-1C has been poured.

AECOM began removing RCP sections from the abandoned portion of sewer. All C+D debris will be transported to Broome County Landfill.

AECOM performed odor control measures including Biosolve spraying during excavation and loadout.

AECOM secured the excavation by placing orange construction fencing and parking both excavators and the loader around the perimeter of the open area.

B. HEALTH & SAFETY REMARKS

AECOM conducted tailgate safety meetings. All site personnel were required to sign in. Hard hats, safety glasses, reflective vests, and steel-toe boots were required to perform site work. Air monitoring is being performed on a daily basis using Multi-Rae and Dust Trak units. No incidents or accidents are reported today. AECOM performs additional lunch time safety briefing today.

Temperature: 35° F to 50°F

Cloud cover: Clear

Rainfall: showers: None

Wind Speed Average and Direction: 5-10 mph SSW

CAMP: CAMP Stations UP, DW 1 and DW 2 deployed. No exceedances.

Calibration: Dust Trak and PID units for each station calibrated at start of day.

C. OFFSITE DISPOSAL:

ESMI/Broome County Landfill Disposed Offsite (daily tons): **140/70**

ESMI/Broome County Landfill Disposed Offsite (total to date tons): **4340/2240**

D. SIGNIFICANT COMMUNICATIONS:

None

E. UPCOMING SITE ACTIVITIES

1. Continue demolition and removal of concrete from the south end of the Phase Two area.
2. Continue offsite disposal of concrete from the south end of the Phase Two area.
3. Continue bypass pumping and removal of the existing RCP sewer.
4. Pour the concrete collar at manhole MH-1C.
5. Install the HDPE pipe between manholes MH-D and MH-2.
6. Install the HDPE pipe between manholes MH-1B and MH-1.

F. DAILY SITE PHOTOGRAPHS



View of 3-4" diameter stone being placed to form the type 2 sub base at MH-1A.



View of the stone at MH-1A showing the existing RCP at MH-1.



View of the crusher run sub base being compacted between MH-1C and MH-1D (looking north at MH-1D).



View of the second layer of Geotextile placed at MH-1A (covered with Crusher run) also showing the dewatering sumps (on the right/east) View is facing south at MH-1.



View of the concrete base for MH-1A being lowered into position.

DAILY PROGRESS REPORT 080: 2/23/12**66-INCH STORM SEWER REPLACEMENT
NEW YORK STATE ELECTRIC & GAS CORPORATION
COURT STREET FORMER MGP SITE, BINGHAMTON, NEW YORK**

This daily progress report summarizes project-related activities performed by AECOM and its subcontractors, on behalf of New York State Electric and Gas (NYSEG), at the Court Street Former MGP Site in Binghamton, New York (the site) for February 23, 2012 as observed by E. Michael Flynn of ARCADIS.

A. COMPLETED WORK/WORK IN PROGRESS

AECOM loaded sections of RCP removed from the abandoned section of sewer. AECOM sized the sections into pieces suitable for load out to Broome County Landfill as C+D debris. AECOM loaded 3 truckloads of C+D.

AECOM continued dewatering the north and south ends of the Phase Two area. AECOM operated the TWTS under continuous discharge mode due to the volume of water being treated following excavating of the MH-1A manhole base. Additional groundwater infiltration from the MH-1C excavation also occurred. AECOM will begin operating the TWTS continuously over a 24-hour period to address the increased volume of water. The current infiltration volume is estimated to be 100-125 gpm.

Tioga re-torqued the fasteners at the upstream collar for MH-1C. Tioga formed and poured the upstream concrete collar at MH-1C. ATL tested the concrete collar for air entrainment and slump, and both were within project specifications. ATL also collected concrete cylinders for compressive strength testing.

Tioga removed the remaining Phase One sheets located between MH-1A and MH-1B and used the sheets to enclose the remaining section of the Phase Two area at the north and south ends. All Phase Two sheeting is now in place.

Tioga prepared the subgrade between manholes MH-1B and MH-1-C with non-woven geotextile fabric and wire reinforcing mesh followed by concrete for the emergency spillway.

AECOM and Tioga continued performing bypassing activities from MH-2 across the site to MH-1.

ATL performed compaction testing measurements of the sub-base for MH-1A and the HDPE pipe base between manholes MH-1C and MH-1D.

Keystone Associates were onsite to survey the location and elevation of manholes MH-1A and MH-1D.

AECOM continued implementing odor control measures including Biosolve spraying during excavation and loadout activities.

AECOM secured the excavation by placing orange construction fencing and parking both excavators and the loader around the perimeter of the open area.

B. HEALTH & SAFETY REMARKS

AECOM conducted tailgate safety meetings. All site personnel were required to sign in. Hard hats, safety glasses, reflective vests, and steel-toe boots were required to perform site work. Air monitoring is being performed on a daily basis using Multi-Rae and Dust Trak units. No incidents or accidents are reported today. AECOM performs additional lunch time safety briefing today.

Temperature: 35° F to 45°F

Cloud cover: Cloudy

Rainfall: showers: None

Wind Speed Average and Direction: 5-10 mph WNW

CAMP: CAMP Stations UP, DW 1 and DW 2 deployed. No exceedances.

Calibration: Dust Trak and PID units for each station calibrated at start of day.

C. OFFSITE DISPOSAL:

ESMI/Broome County Landfill Disposed Offsite (daily tons): **0/105**

ESMI/Broome County Landfill Disposed Offsite (total to date tons): **4340/2345**

D. SIGNIFICANT COMMUNICATIONS:

None

E. UPCOMING SITE ACTIVITIES

1. Continue offsite disposal of the RCP sections to BCL.
2. Continue bypass pumping.
3. Install the HDPE pipe between manholes MH1-D and MH-2.
4. Install the HDPE pipe between manholes MH-1A and MH-1.

F. DAILY SITE PHOTOGRAPHS



View of the concrete base for MH-1A.



View of the concrete forms being placed at the upstream concrete collar of MH-1C.



View of the RCP sections being downsized for offsite disposal.



View of the Phase One sheeting being removed near MH-1B.



View of the emergency spillway between manholes MH-1B and MH-1A. (Manhole MH-1B is visible in the distance)

DAILY PROGRESS REPORT 084: 2/29/12**66-INCH STORM SEWER REPLACEMENT
NEW YORK STATE ELECTRIC & GAS CORPORATION
COURT STREET FORMER MGP SITE, BINGHAMTON, NEW YORK**

This daily progress report summarizes project-related activities performed by AECOM and its subcontractors, on behalf of New York State Electric and Gas (NYSEG), at the Court Street Former MGP Site in Binghamton, New York (the site) for February 29, 2012 as observed by E. Michael Flynn of ARCADIS.

A. COMPLETED WORK/WORK IN PROGRESS

AECOM has completed excavation and offsite disposal.

AECOM continued dewatering the north and south ends Phase Two area. AECOM operated the TWTS under continuous discharge mode due to the volume of water being treated. AECOM plans to maintain 24-hr operation of the TWTS over the weekend to maintain a dry excavation condition. The current volume of groundwater infiltration is estimated to be 100-125 gpm.

AECOM and Tioga maintained bypassing pumping activities from MH-2 across the site to MH-1.

Tioga completed the concrete formwork at the north and south collars of manhole MH-1D and poured the concrete. Atlantic Testing Labs (ATL) performed air entrainment and slump tests, all test results were within project specifications. ATL also collected concrete cylinders for compressive strength testing.

The existing RCP at manhole MH-1 was positioned directly on top of a concrete cradle structure and interfered with installation of the Fernco connector. Tioga removed the concrete cradle below the existing RCP with jackhammers

Tioga installed HDPE spacers around the inner perimeter of the RCP to center the HDPE pipe inside the RCP. Tioga installed manhole MH-1A and slip lined the connecting portion of HDPE pipe into the existing RCP at manhole MH-1. Tioga installed 4 grout tubes at the top of the existing RCP that will be used to transfer grout into the annular space between the HDPE pipe and the RCP.

ATL performed compaction testing along the crusher run stone pipe base between manholes MH-1A and MH-1B. All compaction test results were > 95% of the standard proctor.

Keystone surveyed the locations of manholes MH-1A and MH-1D.

AECOM secured the excavation by placing orange construction fencing and parking both excavators and the loader around the perimeter of the open area.

B. HEALTH & SAFETY REMARKS

AECOM conducted tailgate safety meetings. All site personnel were required to sign in. Hard hats, safety glasses, reflective vests, and steel-toe boots were required to perform site work. Air monitoring is being performed on a daily basis using Multi-Rae and Dust Trak units. No incidents or accidents are reported today. AECOM performs additional lunch time safety briefing today.

Note that all workers were on alert today for potential water runoff entering the excavation area due to the snow showers and associate snowmelt.

Temperature: 30° F to 38°F

Cloud cover: Cloudy

Rainfall: Snow showers (<1/2")

Wind Speed Average and Direction: (a.m. 5-10 mph NNW) (p.m. 10-20 mph ESE)

(Stations moved at noon to new locations)

CAMP: CAMP Stations UP, DW 1 and DW 2 deployed. No exceedances.

Calibration: Dust Trak and PID units for each station calibrated at start of day.

C. OFFSITE DISPOSAL:

ESMI/Broome County Landfill Disposed Offsite (daily tons): **0/0**

ESMI/Broome County Landfill Disposed Offsite (total to date tons): **4340/2485**

D. SIGNIFICANT COMMUNICATIONS:

None

E. UPCOMING SITE ACTIVITIES

1. Continue bypass pumping.
2. Pour the concrete collars and the invert at MH1-A.
3. Grout the slip-lined sections at MH1 and MH2.

F. DAILY SITE PHOTOGRAPHS



View of MH-1A being lowered into position.



View of the concrete being poured for the collars at MH-1D.



View of the northern concrete collar at MH-1D.



View of the grout tube installed into the RCP at MH-1. (View from inside the RCP)



View of the HDPE spacers installed inside the RCP to center the HDPE pipe.



View of the HDPE being slipped into the RCP at MH-1.

DAILY PROGRESS REPORT 085: 3/01/12**66-INCH STORM SEWER REPLACEMENT
NEW YORK STATE ELECTRIC & GAS CORPORATION
COURT STREET FORMER MGP SITE, BINGHAMTON, NEW YORK**

This daily progress report summarizes project-related activities performed by AECOM and its subcontractors, on behalf of New York State Electric and Gas (NYSEG), at the Court Street Former MGP Site in Binghamton, New York (the site) for March 1, 2012 as observed by E. Michael Flynn of ARCADIS.

A. COMPLETED WORK/WORK IN PROGRESS

AECOM has completed excavation and offsite disposal.

AECOM dewatered the north and south ends Phase Two area. AECOM operated the TWTS under continuous discharge mode due to the volume of water being treated. AECOM plans to maintain 24hr operation of the TWTS over the weekend to maintain a dry excavation condition. The current volume of groundwater infiltration is estimated to be 100-125 gpm. AECOM back washed the carbon vessels at the TWTS.

AECOM and Tioga maintained bypassing pumping activities from MH-2 across the site to MH-1.

Tioga began installing the formwork for the concrete collars at MH-1A.

Tioga poured the concrete invert inside of MH-1A. Atlantic Testing Labs (ATL) performed air entrainment and slump testing. All test results were within project specifications.

Tioga installed the hydraulic cement within the outer annular space between the HDPE pipe and RCP at MH-1slip line connection. Tioga also placed hydraulic cement at the downstream end of the slip-lined section of MH-2.

AECOM secured the excavation by placing orange construction fencing and parking both excavators and the loader around the perimeter of the open area.

B. HEALTH & SAFETY REMARKS

AECOM conducted tailgate safety meetings. All site personnel were required to sign in. Hard hats, safety glasses, reflective vests, and steel-toe boots were required to perform site work. Air monitoring is being performed on a daily basis using Multi-Rae and Dust Trak units. No incidents or accidents are reported today. AECOM performs additional lunch time safety briefing today.

Note that all worker were on alert today to the potential for water to enter the HDPE pipe due to the rain overnight. In addition, AECOM places a spotter at both MH1-D and MH1-B while Tioga is inside MH1-A

pouring the inverts since the new sewer is now completely closed. The spotters are positioned so that in the event that water does overtake the upstream bypass pumps the workers do not become inundated.

Temperature: 34° F to 40°F

Cloud cover: Cloudy

Rainfall: Showers (<1/2")

Wind Speed Average and Direction: 5-10 mph ESE

CAMP: CAMP Stations UP, DW 1 and DW 2 deployed. No exceedances.

Calibration: Dust Trak and PID units for each station calibrated at start of day.

C. OFFSITE DISPOSAL:

ESMI/Broome County Landfill Disposed Offsite (daily tons): **0/0**

ESMI/Broome County Landfill Disposed Offsite (total to date tons): **4340/2485**

D. SIGNIFICANT COMMUNICATIONS:

None

E. UPCOMING SITE ACTIVITIES

1. Continue bypass pumping.
2. Pour the concrete collars at manhole MH-1A
3. Grout the slip-lined sections at manhole MH-1 and MH-2.

F. DAILY SITE PHOTOGRAPHS



View of the slip-lined portion of HDPE pipe at MH-1.



View of the northern concrete collar at MH-1A.



View of the hydraulic cement being installed between the HDPE pipe and the RCP at MH-1



View of the slip-lined section near MH-1 showing the completed hydraulic cement and the grout tube.

DAILY PROGRESS REPORT 086: 3/02/12**66-INCH STORM SEWER REPLACEMENT
NEW YORK STATE ELECTRIC & GAS CORPORATION
COURT STREET FORMER MGP SITE, BINGHAMTON, NEW YORK**

This daily progress report summarizes project-related activities performed by AECOM and its subcontractors, on behalf of New York State Electric and Gas (NYSEG), at the Court Street Former MGP Site in Binghamton, New York (the site) for March 2, 2012 as observed by E. Michael Flynn of ARCADIS.

A. COMPLETED WORK/WORK IN PROGRESS

AECOM has completed excavation and offsite disposal.

AECOM dewatered the north and south ends Phase Two area. AECOM operated the TWTS under continuous discharge mode due to the volume of water being treated. AECOM plans to maintain 24hr operation of the TWTS over the weekend to maintain a dry excavation condition. The current volume of groundwater infiltration is estimated to be 100-125 gpm. AECOM back washed the carbon vessels at the TWTS.

AECOM and Tioga maintained bypassing pumping activities from MH-2 across the site to MH-1.

Tioga completed the manhole MH-1A formwork and poured the concrete collars. Atlantic Testing Labs (ATL) performed air entrainment and slump testing. All testing results were within project specifications.

Tioga pumped grout into the annular space between the HDPE pipe and the RCP at MH-2. Grout was pumped through the grout tubes until the air is evacuated and grout begins seeping out of the vent tubes. Additional grout was poured into the tubes as the initial grout settled. Tioga unsuccessfully attempted to grout the slip-lined section at MH-1. Grout was pumped through the grout tubes and began leaking from an existing joint between two of the RCP sections. The leak was located at the back (i.e., manhole end) of the concrete pipe chase surrounding the RCP. The leak cannot be accessed or repaired without removing additional material from the area. Grouting was discontinued; Tioga and AECOM will remove the material from the pipe chase and repair the leaking RCP before re-attempting the grout.

AECOM secured the excavation by placing orange construction fencing and parking both excavators and the loader around the perimeter of the open area.

B. HEALTH & SAFETY REMARKS

AECOM conducted tailgate safety meetings. All site personnel were required to sign in. Hard hats, safety glasses, reflective vests, and steel-toe boots were required to perform site work. Air monitoring is being performed on a daily basis using Multi-Rae and Dust Trak units. No incidents or accidents are reported today. AECOM performs additional lunch time safety briefing today.

Temperature: 34° F to 50°F

Cloud cover: Clear

Rainfall: None

Wind Speed Average and Direction: 5-10 mph ESE

CAMP: CAMP Stations UP, DW 1 and DW 2 deployed. No exceedances.

Calibration: Dust Trak and PID units for each station calibrated at start of day.

C. OFFSITE DISPOSAL:

ESMI/Broome County Landfill Disposed Offsite (daily tons): **0/0**

ESMI/Broome County Landfill Disposed Offsite (total to date tons): **4340/2485**

D. SIGNIFICANT COMMUNICATIONS:

None

E. UPCOMING SITE ACTIVITIES

1. Continue bypass pumping.
2. Complete slip line grouting in the section at MH-1.

F. DAILY SITE PHOTOGRAPHS



View of the grout pump used for the slip-lined sections.



View of MH-2 prior to grouting.



View of the grout leaking from MH-1.



View of the concrete collar being poured at MH-1A.

DAILY PROGRESS REPORT 087: 3/05/12**66-INCH STORM SEWER REPLACEMENT
NEW YORK STATE ELECTRIC & GAS CORPORATION
COURT STREET FORMER MGP SITE, BINGHAMTON, NEW YORK**

This daily progress report summarizes project-related activities performed by AECOM and its subcontractors, on behalf of New York State Electric and Gas (NYSEG), at the Court Street Former MGP Site in Binghamton, New York (the site) for March 5, 2012 as observed by E. Michael Flynn of ARCADIS.

A. COMPLETED WORK/WORK IN PROGRESS

AECOM has completed excavation and offsite disposal.

AECOM continued dewatering from the northern and southern Phase Two areas. AECOM continued treatment under continuous discharge mode due to the volume of water being treated after excavating for the manhole base at MH-1A. AECOM continued 24hr treatment of water through the TWTS. Current volumes are estimated to be 100-125 gpm.

AECOM and Tioga continued bypass pumping water from MH-2 across the site to MH-1

Tioga removed the formwork from MH-1A.

Tioga placed backfill between MH-1A and MH-1B. Tioga placed approximately 2' of backfill. Atlantic Testing Labs was onsite to test compaction. All testing results were above 95% proctor values.

AECOM secured the excavation by placing orange construction fencing and parking both excavators and the loader around the perimeter of the open area.

B. HEALTH & SAFETY REMARKS

AECOM conducted tailgate safety meetings. All site personnel were required to sign in. Hard hats, safety glasses, reflective vests, and steel-toe boots were required to perform site work. Air monitoring is being performed on a daily basis using Multi-Rae and Dust Trak units. No incidents or accidents are reported today. AECOM performs additional lunch time safety briefing today.

Temperature: 22° F to 35°F

Cloud cover: Clear

Rainfall: None

Wind Speed Average and Direction: 5-10 mph NNW

CAMP: CAMP Stations UP, DW 1 and DW 2 deployed. No exceedances.

Calibration: Dust Trak and PID units for each station calibrated at start of day.

C. OFFSITE DISPOSAL:

ESMI/Broome County Landfill Disposed Offsite (daily tons): **0/0**

ESMI/Broome County Landfill Disposed Offsite (total to date tons): **4340/2485**

D. SIGNIFICANT COMMUNICATIONS:

None

E. UPCOMING SITE ACTIVITIES

1. Perform leak testing of HDPE pipe and manholes.
2. Continue backfill.

F. DAILY SITE PHOTOGRAPHS



View of compaction testing.



View of backfill near MH-1A.

DAILY PROGRESS REPORT 088: 3/06/12**66-INCH STORM SEWER REPLACEMENT
NEW YORK STATE ELECTRIC & GAS CORPORATION
COURT STREET FORMER MGP SITE, BINGHAMTON, NEW YORK**

This daily progress report summarizes project-related activities performed by AECOM and its subcontractors, on behalf of New York State Electric and Gas (NYSEG), at the Court Street Former MGP Site in Binghamton, New York (the site) for March 6, 2012 as observed by E. Michael Flynn of ARCADIS.

A. COMPLETED WORK/WORK IN PROGRESS

AECOM has completed excavation and offsite disposal.

AECOM continued dewatering from the northern and southern Phase Two areas. AECOM continued treatment under continuous discharge mode due to the volume of water being treated after excavating for the manhole base at MH-1A. AECOM continued 24hr treatment of water through the TWTS. Current volumes are estimated to be 100-125 gpm.

AECOM and Tioga continued bypass pumping water from MH-2 across the site to MH-1.

Tioga installed inflatable plugs at the northern and southern ends of the HDPE pipe (near MH-1 and MH-2, respectively). Tioga filled the HDPE pipe and all of the manholes with water from the city fire hydrant and performed leak testing of the system. The system maintained water level for the specified time (2 hours) and the test was completed. AECOM drained the water from the system overnight with 2" and 3" pumps.

AECOM removed material from between the existing RCP and the concrete pipe chase near MH-1. AECOM removed the material from the outside of the RCP in order to expose the leaking sections of RCP that were uncovered during the initial grouting of the HDPE pipe/RCP slip-line section.

Tioga continued placing backfill between MH-1A and MH-1B today. Atlantic Testing Labs was onsite to test compaction. All test results were above 95% Proctor values.

AECOM secured the excavation by placing orange construction fencing and parking both excavators and the loader around the perimeter of the open area.

B. HEALTH & SAFETY REMARKS

AECOM conducted tailgate safety meetings. All site personnel were required to sign in. Hard hats, safety glasses, reflective vests, and steel-toe boots were required to perform site work. Air monitoring is being performed on a daily basis using Multi-Rae and Dust Trak units. No incidents or accidents are reported today. AECOM performs additional lunch time safety briefing today.

Temperature: 22° F to 35°F

Cloud cover: Clear

Rainfall: None

Wind Speed Average and Direction: 5-10 mph NNW

CAMP: CAMP Stations UP, DW 1 and DW 2 deployed. No exceedances.

Calibration: Dust Trak and PID units for each station calibrated at start of day.

C. OFFSITE DISPOSAL:

ESMI/Broome County Landfill Disposed Offsite (daily tons): **0/0**

ESMI/Broome County Landfill Disposed Offsite (total to date tons): **4340/2485**

D. SIGNIFICANT COMMUNICATIONS:

The weekly site progress meeting was held at the site today. Please refer to the meeting minutes for further details.

E. UPCOMING SITE ACTIVITIES

1. Continue backfill.
2. Complete the grouting of the slip lined section of HDPE pipe/RCP near MH-1.

F. DAILY SITE PHOTOGRAPHS



View of AECOM cleaning material from the pipe chase near MH-1.



View of backfill near MH-1A.

DAILY PROGRESS REPORT 089: 3/07/12**66-INCH STORM SEWER REPLACEMENT
NEW YORK STATE ELECTRIC & GAS CORPORATION
COURT STREET FORMER MGP SITE, BINGHAMTON, NEW YORK**

This daily progress report summarizes project-related activities performed by AECOM and its subcontractors, on behalf of New York State Electric and Gas (NYSEG), at the Court Street Former MGP Site in Binghamton, New York (the site) for March 7, 2012 as observed by E. Michael Flynn of ARCADIS.

A. COMPLETED WORK/WORK IN PROGRESS

AECOM has completed excavation and offsite disposal.

AECOM continued dewatering from the southern Phase Two area. AECOM removed the dewatering sumps and discontinued dewatering from the northern area. AECOM continued treatment under continuous discharge mode due to the volume of water being treated after excavating for the manhole base at MH-1A. AECOM continued 24hr treatment of water through the TWTS. Current volumes are estimated to be 100-125 gpm.

ARCADIS collects sample "AE-batch 18-030712" from the TWTS today.

AECOM and Tioga removed the sandbags and bypass pumping equipment. AECOM opened the sluiceway at MH-2 and normal operation of the sewer resumed.

Tioga continued placing backfill between MH-1A and MH-1B. Tioga began placing backfill between manholes MH-1C and MH1-D. Atlantic Testing Labs was onsite to perform compaction testing. All test results were above 95% Proctor values.

AECOM secured the excavation by placing orange construction fencing and parking both excavators and the loader around the perimeter of the open area.

B. HEALTH & SAFETY REMARKS

AECOM conducted tailgate safety meetings. All site personnel were required to sign in. Hard hats, safety glasses, reflective vests, and steel-toe boots were required to perform site work. Air monitoring is being performed on a daily basis using Multi-Rae and Dust Trak units. No incidents or accidents are reported today. AECOM performs additional lunch time safety briefing today.

Temperature: 30° F to 65°F

Cloud cover: Clear

Rainfall: None

Wind Speed Average and Direction: 5-10 mph SSE

CAMP: CAMP Stations UP, DW 1 and DW 2 deployed. No exceedances.

Calibration: Dust Trak and PID units for each station calibrated at start of day.

C. OFFSITE DISPOSAL:

ESMI/Broome County Landfill Disposed Offsite (daily tons): **0/0**

ESMI/Broome County Landfill Disposed Offsite (total to date tons): **4340/2485**

D. SIGNIFICANT COMMUNICATIONS:

None

E. UPCOMING SITE ACTIVITIES

1. Continue backfill.
2. Complete the grouting of the slip lined section of HDPE pipe/RCP near MH-1.

F. DAILY SITE PHOTOGRAPHS



View of one of the inflatable pipe plugs used during the leak testing of the HDPE pipe.



View of AECOM removing the bypass pump lines from MH-1.

DAILY PROGRESS REPORT 090: 3/08/12**66-INCH STORM SEWER REPLACEMENT
NEW YORK STATE ELECTRIC & GAS CORPORATION
COURT STREET FORMER MGP SITE, BINGHAMTON, NEW YORK**

This daily progress report summarizes project-related activities performed by AECOM and its subcontractors, on behalf of New York State Electric and Gas (NYSEG), at the Court Street Former MGP Site in Binghamton, New York (the site) for March 8, 2012 as observed by E. Michael Flynn of ARCADIS.

A. COMPLETED WORK/WORK IN PROGRESS

AECOM has completed excavation and offsite disposal.

AECOM continued dewatering from the southern Phase Two area today. AECOM continued treatment under continuous discharge mode due to the volume of water being treated after excavating for the manhole base at MH-1A. AECOM continued 24hr treatment of water through the TWTS. Current volumes are estimated to be 100-125 gpm.

Tioga continued placing backfill between manholes MH-1A and MH-1B. Tioga also continued placing backfill between manholes MH-1C and MH-1D. Atlantic Testing Labs was not onsite to perform compaction testing due to a scheduling error. Tioga leaved a portion of today's backfill lifts open for testing tomorrow. Tioga placed utility locating tape above the centerline of the HDPE pipe between MH-1A and MH-1B.

AECOM continued housekeeping and site demobilization activities.

AECOM secured the excavation by placing orange construction fencing and parking both excavators and the loader around the perimeter of the open area.

B. HEALTH & SAFETY REMARKS

AECOM conducted tailgate safety meetings. All site personnel were required to sign in. Hard hats, safety glasses, reflective vests, and steel-toe boots were required to perform site work. Air monitoring is being performed on a daily basis using Multi-Rae and Dust Trak units. No incidents or accidents are reported today. AECOM performs additional lunch time safety briefing today.

Temperature: 42° F to 65°F

Cloud cover: Cloudy

Rainfall: (a.m. showers <1/2")

Wind Speed Average and Direction: 5-10 mph SSW

CAMP: CAMP Stations UP, DW 1 and DW 2 deployed. No exceedances.

Calibration: Dust Trak and PID units for each station calibrated at start of day.

C. OFFSITE DISPOSAL:

ESMI/Broome County Landfill Disposed Offsite (daily tons): **0/0**

ESMI/Broome County Landfill Disposed Offsite (total to date tons): **4340/2485**

D. SIGNIFICANT COMMUNICATIONS:

None

E. UPCOMING SITE ACTIVITIES

1. Continue backfill.
2. Complete the grouting of the slip lined section of HDPE pipe/RCP near MH-1.

F. DAILY SITE PHOTOGRAPHS



View of backfill between manholes MH-1C and MH-1D.



View of utility locating tape placed between manholes MH-1A and MH-1B.

DAILY PROGRESS REPORT 092: 3/12/12**66-INCH STORM SEWER REPLACEMENT
NEW YORK STATE ELECTRIC & GAS CORPORATION
COURT STREET FORMER MGP SITE, BINGHAMTON, NEW YORK**

This daily progress report summarizes project-related activities performed by AECOM and its subcontractors, on behalf of New York State Electric and Gas (NYSEG), at the Court Street Former MGP Site in Binghamton, New York (the site) for March 12, 2012 as observed by E. Michael Flynn of ARCADIS.

A. COMPLETED WORK/WORK IN PROGRESS

AECOM has completed excavation and offsite disposal.

AECOM continued dewatering from the southern Phase Two area. AECOM continued treatment under continuous discharge mode due to the volume of water being treated after excavating for the manhole base at MH-1A. AECOM continues 24hr treatment of water through the TWTS. Current volumes are estimated to be 100-125 gpm.

Tioga resumed placing backfill between manholes MH-1A and MH-1B. Tioga also began placing backfill between the concrete collars at MH-1B. Atlantic Testing Labs was onsite to perform compaction testing. All test results were within project specifications.

Tioga excavated along the existing RCP to check for the presence of the concrete collar that is surrounding the existing RCP. Tioga excavated from the southern end northward to the existing manhole between MH-1 and MH-2 (formerly named MH-1B). The pipe chase ends at this manhole, which is approximately the northern end of the former No. 4 gas holder. Tioga confirmed that the abandonment of the existing sewer will not be an issue.

Tioga began cutting the steel sheets that were embedded into the concrete collars at each of the manholes. Tioga cut the sheets at the top of the concrete collars in order to prevent possible damage to the collars during sheeting removal. Tioga plans to cut approximately 16 sheets (2 on each side of each collar)

AECOM continued housekeeping and site demobilization activities today including demobilization of bypass pumping equipment.

AECOM secured the excavation by placing orange construction fencing and parking both excavators and the loader around the perimeter of the open area.

B. HEALTH & SAFETY REMARKS

AECOM conducted tailgate safety meetings. All site personnel were required to sign in. Hard hats, safety glasses, reflective vests, and steel-toe boots were required to perform site work. Air monitoring is being performed on a daily basis using Multi-Rae and Dust Trak units. No incidents or accidents are reported today. AECOM performs additional lunch time safety briefing today.

Temperature: 40° F to 63°F

Cloud cover: Cloudy

Rainfall: None

Wind Speed Average and Direction: 5-10 mph SSE

CAMP: CAMP Stations UP, DW 1 and DW 2 deployed. No exceedances.

Calibration: Dust Trak and PID units for each station calibrated at start of day.

C. OFFSITE DISPOSAL:

ESMI/Broome County Landfill Disposed Offsite (daily tons): **0/0**

ESMI/Broome County Landfill Disposed Offsite (total to date tons): **4340/2485**

D. SIGNIFICANT COMMUNICATIONS:

None

E. UPCOMING SITE ACTIVITIES

1. Continue backfill.
2. Complete the grouting of the slip lined section of HDPE pipe/RCP near MH-1.
3. Install and grout the Fernco connections.

F. DAILY SITE PHOTOGRAPHS



View of compaction testing near MH-1A.



View of test pit near manhole MH1-B showing northern end of the pipe chase.

DAILY PROGRESS REPORT 093: 3/13/12**66-INCH STORM SEWER REPLACEMENT
NEW YORK STATE ELECTRIC & GAS CORPORATION
COURT STREET FORMER MGP SITE, BINGHAMTON, NEW YORK**

This daily progress report summarizes project-related activities performed by AECOM and its subcontractors, on behalf of New York State Electric and Gas (NYSEG), at the Court Street Former MGP Site in Binghamton, New York (the site) for March 13, 2012 as observed by E. Michael Flynn of ARCADIS.

A. COMPLETED WORK/WORK IN PROGRESS

AECOM has completed excavation and offsite disposal.

AECOM continued dewatering from the southern Phase Two area. AECOM continued treatment under continuous discharge mode due to the volume of water being treated after excavating for the manhole base at MH-1A. AECOM continues 24hr treatment of water through the TWTS. Current volumes are estimated to be 100-125 gpm.

Tioga continued placing backfill between manholes MH-1A and MH-1B. Tioga also began placing backfill between the concrete collars at MH-1A. Atlantic Testing Labs was onsite to perform compaction testing. All test results were within project specifications.

Tioga excavated the southern end of the existing RCP (where the sheeting was installed to cut off the existing sewer) to prepare the area for abandonment tomorrow. Tioga will use the southern end for visual confirmation that the grout has completely filled the former sewer.

AECOM dewatered the former sewer to prepare for abandonment.

Tioga completed the removal of debris from the pipe chase near MH-1 and placed hydraulic cement in the leaking sections of RCP to prepare the slip-lined section for grout.

Tioga continued cutting the steel sheets that were embedded into the concrete collars at each of the manholes. Tioga will cut the sheets at the top of the concrete collars in order to prevent possible damage to the collars during sheeting removal. Tioga plans to cut approximately 16 sheets (2 on each side of each collar)

AECOM continued housekeeping and site demobilization activities today.

AECOM secured the excavation by placing orange construction fencing and parking both excavators and the loader around the perimeter of the open area.

B. HEALTH & SAFETY REMARKS

AECOM conducted tailgate safety meetings. All site personnel were required to sign in. Hard hats, safety glasses, reflective vests, and steel-toe boots were required to perform site work. Air monitoring is being performed on a daily basis using Multi-Rae and Dust Trak units. No incidents or accidents are reported today. AECOM performs additional lunch time safety briefing today.

Temperature: 42° F to 70°F

Cloud cover: None

Rainfall: None

Wind Speed Average and Direction: 5-10 mph WSW

CAMP: CAMP Stations UP, DW 1 and DW 2 deployed. No exceedances.

Calibration: Dust Trak and PID units for each station calibrated at start of day.

C. OFFSITE DISPOSAL:

ESMI/Broome County Landfill Disposed Offsite (daily tons): **0/0**

ESMI/Broome County Landfill Disposed Offsite (total to date tons): **4340/2485**

D. SIGNIFICANT COMMUNICATIONS:

None

E. UPCOMING SITE ACTIVITIES

1. Continue backfill.
2. Complete the grouting of the slip lined section of HDPE pipe/RCP near MH-1.
3. Abandon the existing sewer.
4. Install and grout the Fernco connections.

F. DAILY SITE PHOTOGRAPHS



View of Tioga removing debris from the pipe chase at MH-1.



View of Tioga cutting sheets at a concrete collar.

DAILY PROGRESS REPORT 094: 3/14/12**66-INCH STORM SEWER REPLACEMENT
NEW YORK STATE ELECTRIC & GAS CORPORATION
COURT STREET FORMER MGP SITE, BINGHAMTON, NEW YORK**

This daily progress report summarizes project-related activities performed by AECOM and its subcontractors, on behalf of New York State Electric and Gas (NYSEG), at the Court Street Former MGP Site in Binghamton, New York (the site) for March 14, 2012 as observed by E. Michael Flynn of ARCADIS.

A. COMPLETED WORK/WORK IN PROGRESS

AECOM has completed excavation and offsite disposal.

AECOM continued dewatering from the southern Phase Two area. AECOM continued treatment under continuous discharge mode due to the volume of water being treated after excavating for the manhole base at MH-1A. AECOM continued 24hr treatment of water through the TWTS. Current volumes are estimated to be 100-125 gpm.

Tioga did not place any backfill today.

Tioga resumed pulling sheets at the northern end of the site.

Tioga excavated five areas along the former RCP sewer and poured CLSM material into each of these locations to abandon the existing sewer. A total of 192 CY of CLSM was poured into the former sewer.

Chenango Contracting was onsite to begin fabricating the Fernco alternate for the slip-lined sections at MH-1 and MH-2

AECOM continued housekeeping and site demobilization activities.

B. HEALTH & SAFETY REMARKS

AECOM conducted tailgate safety meetings. All site personnel were required to sign in. Hard hats, safety glasses, reflective vests, and steel-toe boots were required to perform site work. Air monitoring is being performed on a daily basis using Multi-Rae and Dust Trak units. No incidents or accidents are reported today. AECOM performs additional lunch time safety briefing today.

Temperature: 42° F to 70°F

Cloud cover: None

Rainfall: None

Wind Speed Average and Direction: 5-10 mph WSW

CAMP: CAMP Stations UP, DW 1 and DW 2 deployed. No exceedances.

Calibration: Dust Trak and PID units for each station calibrated at start of day.

C. OFFSITE DISPOSAL:

ESMI/Broome County Landfill Disposed Offsite (daily tons): **0/0**

ESMI/Broome County Landfill Disposed Offsite (total to date tons): **4340/2485**

D. SIGNIFICANT COMMUNICATIONS:

The weekly site progress meeting was held at the site today. Please refer to the meeting minutes for details.

E. UPCOMING SITE ACTIVITIES

1. Continue backfill.
2. Complete the grouting of the slip lined section of HDPE pipe/RCP near MH-1.
3. Install and grout the Fernco connections.

F. DAILY SITE PHOTOGRAPHS



View of CLSM being poured into the existing sewer.



View of Chenango preparing to fabricate the Fernco alternate connector.



View of CLSM being poured into the former MH-1B.



View of existing sewer after CLSM has been poured.

DAILY PROGRESS REPORT 095: 3/15/12**66-INCH STORM SEWER REPLACEMENT
NEW YORK STATE ELECTRIC & GAS CORPORATION
COURT STREET FORMER MGP SITE, BINGHAMTON, NEW YORK**

This daily progress report summarizes project-related activities performed by AECOM and its subcontractors, on behalf of New York State Electric and Gas (NYSEG), at the Court Street Former MGP Site in Binghamton, New York (the site) for March 15, 2012 as observed by E. Michael Flynn of ARCADIS.

A. COMPLETED WORK/WORK IN PROGRESS

AECOM has completed excavation and offsite disposal.

AECOM continued dewatering from the southern Phase Two area. AECOM continued treatment under continuous discharge mode due to the volume of water being treated after excavating for the manhole base at MH-1A. AECOM continued 24hr treatment of water through the TWTS. Current volumes are estimated to be 100-125 gpm.

ARCADIS collected TWTS sample "AE-Batch 19-031512" today. This will be the final sample from the TWTS.

AECOM placed hydraulic cement into the leak at MH-2 today.

Tioga did not place any backfill today.

Tioga continued pulling sheets on the northern end of the site.

Chenango Contracting was onsite to fabricate the Fernco alternate for the slip-lined sections at MH-1 and MH-2. Chenango completed the Fernco at MH-1 and began the Fernco installation at MH-2.

AECOM continued housekeeping and site demobilization activities.

B. HEALTH & SAFETY REMARKS

AECOM conducted tailgate safety meetings. All site personnel were required to sign in. Hard hats, safety glasses, reflective vests, and steel-toe boots were required to perform site work. Air monitoring is being performed on a daily basis using Multi-Rae and Dust Trak units. No incidents or accidents are reported today. AECOM performs additional lunch time safety briefing today.

Temperature: 42° F to 70°F

Cloud cover: None

Rainfall: None

Wind Speed Average and Direction: 5-10 mph NNW

CAMP: CAMP Stations UP, DW 1 and DW 2 deployed. No exceedances.

Calibration: Dust Trak and PID units for each station calibrated at start of day.

C. OFFSITE DISPOSAL:

ESMI/Broome County Landfill Disposed Offsite (daily tons): **0/0**

ESMI/Broome County Landfill Disposed Offsite (total to date tons): **4340/2485**

D. SIGNIFICANT COMMUNICATIONS:

None

E. UPCOMING SITE ACTIVITIES

1. Continue backfill.
2. Complete the grouting of the slip lined section of HDPE pipe/RCP near MH-1.
3. Install and grout the Fernco connections.

F. DAILY SITE PHOTOGRAPHS



View of leak at MH-2 after hydraulic cement is applied to the leak.



View of Chenango installing the Viton seal for the Fernco connector.



View of Chenango welding the HDPE seam on the Fernco connector.



View of the completed Fernco connector at MH-1.

DAILY PROGRESS REPORT 096: 3/16/12**66-INCH STORM SEWER REPLACEMENT
NEW YORK STATE ELECTRIC & GAS CORPORATION
COURT STREET FORMER MGP SITE, BINGHAMTON, NEW YORK**

This daily progress report summarizes project-related activities performed by AECOM and its subcontractors, on behalf of New York State Electric and Gas (NYSEG), at the Court Street Former MGP Site in Binghamton, New York (the site) for March 16, 2012 as observed by E. Michael Flynn of ARCADIS.

A. COMPLETED WORK/WORK IN PROGRESS

AECOM has completed excavation and offsite disposal.

AECOM removed the remaining dewatering sumps from the southern end and all dewatering has been discontinued. The last remaining sump was filled with CLSM.

The Temporary Water Treatment System was shut down today.

AECOM placed non-shrink grout inside the Fernco connectors as CLSM was poured around the outside of each connector. The entire area between the southern concrete collar at MH-1A and MH-1 (including the concrete pipe chase) was filled with CLSM. The entire area between the northern concrete collar at MH-1D and MH-2 was filled with CLSM.

Tioga did not place any backfill today.

Tioga moved to the southern end of the site to pull sheets.

Chenango Contracting was onsite to complete the installation of the Fernco alternate connector at MH-2.

AECOM continued housekeeping and site demobilization activities.

B. HEALTH & SAFETY REMARKS

AECOM conducted tailgate safety meetings. All site personnel were required to sign in. Hard hats, safety glasses, reflective vests, and steel-toe boots were required to perform site work. Air monitoring is being performed on a daily basis using Multi-Rae and Dust Trak units. No incidents or accidents are reported today. AECOM performs additional lunch time safety briefing today.

Temperature: 40° F to 60°F

Cloud cover: Cloudy

Rainfall: None

Wind Speed Average and Direction: 5-10 mph ESE

CAMP: CAMP Stations UP, DW 1 and DW 2 deployed. No exceedances.

Calibration: Dust Trak and PID units for each station calibrated at start of day.

C. OFFSITE DISPOSAL:

ESMI/Broome County Landfill Disposed Offsite (daily tons): **0/0**

ESMI/Broome County Landfill Disposed Offsite (total to date tons): **4340/2485**

D. SIGNIFICANT COMMUNICATIONS:

None

E. UPCOMING SITE ACTIVITIES

1. Continue backfill.
2. Complete the grouting of the slip lined section of HDPE pipe/RCP near MH-1.

F. DAILY SITE PHOTOGRAPHS



View of grout being placed inside Fernco at MH-1 and CLSM being poured outside the Fernco.



View of the grout hole after it has been welded closed.



View of AECOM pouring grout into the Fernco at MH2.



View of MH-1 after completion.

DAILY PROGRESS REPORT 097: 3/20/12**66-INCH STORM SEWER REPLACEMENT
NEW YORK STATE ELECTRIC & GAS CORPORATION
COURT STREET FORMER MGP SITE, BINGHAMTON, NEW YORK**

This daily progress report summarizes project-related activities performed by AECOM and its subcontractors, on behalf of New York State Electric and Gas (NYSEG), at the Court Street Former MGP Site in Binghamton, New York (the site) for March 20, 2012 as observed by E. Michael Flynn of ARCADIS.

A. COMPLETED WORK/WORK IN PROGRESS

AECOM has completed excavation and offsite disposal.

AECOM has completed water treatment.

AECOM began decontamination of the Temporary Water Treatment System components and prepared the TWTS for demobilization. AECOM decontaminated two frac tanks today.

Tioga did not place any backfill.

Tioga continued to remove and decontaminate sheeting from the southern end of the site.

AECOM continued housekeeping and site demobilization activities.

B. HEALTH & SAFETY REMARKS

AECOM conducted tailgate safety meetings. All site personnel were required to sign in. Hard hats, safety glasses, reflective vests, and steel-toe boots were required to perform site work. Air monitoring is being performed on a daily basis using Multi-Rae and Dust Trak units. No incidents or accidents are reported today. AECOM performs additional lunch time safety briefing today.

Temperature: 50° F to 70°F

Cloud cover: Cloudy

Rainfall: None

Wind Speed Average and Direction: 5-10 mph E

CAMP: CAMP Stations UP, DW 1 and DW 2 deployed. No exceedances.

Calibration: Dust Trak and PID units for each station calibrated at start of day.

C. OFFSITE DISPOSAL:

ESMI/Broome County Landfill Disposed Offsite (daily tons): **0/0**

ESMI/Broome County Landfill Disposed Offsite (total to date tons): **4340/2485**

D. SIGNIFICANT COMMUNICATIONS:

None

E. UPCOMING SITE ACTIVITIES

1. Continue backfill.
2. Continue decontamination and demobilization of the Temporary Water Treatment System.

F. DAILY SITE PHOTOGRAPHS



View of sheeting removal near MH-1B.



View of two clean frac tanks ready for demobilization.

DAILY PROGRESS REPORT 098: 3/20/12**66-INCH STORM SEWER REPLACEMENT
NEW YORK STATE ELECTRIC & GAS CORPORATION
COURT STREET FORMER MGP SITE, BINGHAMTON, NEW YORK**

This daily progress report summarizes project-related activities performed by AECOM and its subcontractors, on behalf of New York State Electric and Gas (NYSEG), at the Court Street Former MGP Site in Binghamton, New York (the site) for March 20, 2012 as observed by E. Michael Flynn of ARCADIS.

A. COMPLETED WORK/WORK IN PROGRESS

AECOM has completed excavation and offsite disposal.

AECOM has completed water treatment.

AECOM continued decontamination of the Temporary Water Treatment System and prepared the TWTS for demobilization. AECOM demobilized two frac tanks today.

Tioga did not place any backfill.

Tioga continued to remove and decontaminate sheeting from the southern end of the site.

AECOM continued housekeeping and site demobilization activities.

B. HEALTH & SAFETY REMARKS

AECOM conducted tailgate safety meetings. All site personnel were required to sign in. Hard hats, safety glasses, reflective vests, and steel-toe boots were required to perform site work. Air monitoring is being performed on a daily basis using Multi-Rae and Dust Trak units. No incidents or accidents are reported today. AECOM performs additional lunch time safety briefing today.

Temperature: 45° F to 75°F

Cloud cover: Clear

Rainfall: None

Wind Speed Average and Direction: 5-10 mph ESE

CAMP: CAMP Stations UP, DW 1 and DW 2 deployed. No exceedances.

Calibration: Dust Trak and PID units for each station calibrated at start of day.

C. OFFSITE DISPOSAL:

ESMI/Broome County Landfill Disposed Offsite (daily tons): **0/0**

ESMI/Broome County Landfill Disposed Offsite (total to date tons): **4340/2485**

D. SIGNIFICANT COMMUNICATIONS:

None

E. UPCOMING SITE ACTIVITIES

1. Continue backfill.
2. Continue decontamination and demobilization of the Temporary Water Treatment System.

DAILY SITE PHOTOGRAPHS



View of sheeting removal near MH-1A.



View of the northern portion of the site.

DAILY PROGRESS REPORT 099: 3/21/12**66-INCH STORM SEWER REPLACEMENT
NEW YORK STATE ELECTRIC & GAS CORPORATION
COURT STREET FORMER MGP SITE, BINGHAMTON, NEW YORK**

This daily progress report summarizes project-related activities performed by AECOM and its subcontractors, on behalf of New York State Electric and Gas (NYSEG), at the Court Street Former MGP Site in Binghamton, New York (the site) for March 21, 2012 as observed by E. Michael Flynn of ARCADIS.

A. COMPLETED WORK/WORK IN PROGRESS

AECOM has completed excavation and offsite disposal.

AECOM has completed water treatment.

AECOM continued decontamination of the Temporary Water Treatment System and prepared the TWTS for demobilization.

Tioga and AECOM completed the grouting of the southern slip-lined HDPE that was started on 3/2/2012. The remaining section of HDPE pipe has been grouted at the southern area near MH-1.

Tioga resumed placing backfill around all of the new manholes today (MH-1A, MH-1B, MH-1C, and MH-1D). Atlantic Testing Labs (ATL) was onsite to perform compaction testing. All compaction testing results were within project specifications.

Tioga received delivery of the manhole covers.

AECOM's electrician was onsite to disconnect power from the TWTS.

Tioga and AECOM demobilized miscellaneous equipment.

Tioga continued to remove and decontaminate sheeting from the southern end of the site today.

AECOM continued housekeeping and site demobilization activities.

B. HEALTH & SAFETY REMARKS

AECOM conducted tailgate safety meetings. All site personnel were required to sign in. Hard hats, safety glasses, reflective vests, and steel-toe boots were required to perform site work. Air monitoring is being performed on a daily basis using Multi-Rae and Dust Trak units. No incidents or accidents are reported today. AECOM performs additional lunch time safety briefing today.

Temperature: 45° F to 75°F

Cloud cover: Clear

Rainfall: None

Wind Speed Average and Direction: 5-10 mph ESE

CAMP: CAMP Stations UP, DW 1 and DW 2 deployed. No exceedances.

Calibration: Dust Trak and PID units for each station calibrated at start of day.

C. OFFSITE DISPOSAL:

ESMI/Broome County Landfill Disposed Offsite (daily tons): **0/0**

ESMI/Broome County Landfill Disposed Offsite (total to date tons): **4340/2485**

D. SIGNIFICANT COMMUNICATIONS:

None

E. UPCOMING SITE ACTIVITIES

1. Continue backfill.
2. Continue decontamination and demobilization of the Temporary Water Treatment System.

F. DAILY SITE PHOTOGRAPHS



View of grouting of the slip-lined section of HDPE pipe at MH-1.



View of backfill being placed near MH-1C.

DAILY PROGRESS REPORT 100: 3/22/12**66-INCH STORM SEWER REPLACEMENT
NEW YORK STATE ELECTRIC & GAS CORPORATION
COURT STREET FORMER MGP SITE, BINGHAMTON, NEW YORK**

This daily progress report summarizes project-related activities performed by AECOM and its subcontractors, on behalf of New York State Electric and Gas (NYSEG), at the Court Street Former MGP Site in Binghamton, New York (the site) for March 22, 2012 as observed by E. Michael Flynn of ARCADIS.

A. COMPLETED WORK/WORK IN PROGRESS

AECOM has completed excavation and offsite disposal.

AECOM has completed water treatment.

Tioga completed the removal of the sheeting on the southern end of the site and then moved to the northern end of the site and resumed sheeting removal and decontamination.

AECOM continued housekeeping and site demobilization activities today.

B. HEALTH & SAFETY REMARKS

AECOM conducted tailgate safety meetings. All site personnel were required to sign in. Hard hats, safety glasses, reflective vests, and steel-toe boots were required to perform site work. Air monitoring is being performed on a daily basis using Multi-Rae and Dust Trak units. No incidents or accidents are reported today. AECOM performs additional lunch time safety briefing today.

Temperature: 45° F to 75°F

Cloud cover: Clear

Rainfall: None

Wind Speed Average and Direction: 5-10 mph E

CAMP: CAMP Stations UP, DW 1 and DW 2 deployed. No exceedances.

Calibration: Dust Trak and PID units for each station calibrated at start of day.

C. OFFSITE DISPOSAL:

ESMI/Broome County Landfill Disposed Offsite (daily tons): **0/0**

ESMI/Broome County Landfill Disposed Offsite (total to date tons): **4340/2485**

D. SIGNIFICANT COMMUNICATIONS:

None

E. UPCOMING SITE ACTIVITIES

1. Continue backfill.
2. Continue decontamination and demobilization of the Temporary Water Treatment System.

F. DAILY SITE PHOTOGRAPHS



View of the southern end of the site after all of the sheeting is removed.



View of sheeting removal on the northern end of the site.

DAILY PROGRESS REPORT 101: 3/23/12**66-INCH STORM SEWER REPLACEMENT
NEW YORK STATE ELECTRIC & GAS CORPORATION
COURT STREET FORMER MGP SITE, BINGHAMTON, NEW YORK**

This daily progress report summarizes project-related activities performed by AECOM and its subcontractors, on behalf of New York State Electric and Gas (NYSEG), at the Court Street Former MGP Site in Binghamton, New York (the site) for March 23, 2012 as observed by E. Michael Flynn of ARCADIS.

A. COMPLETED WORK/WORK IN PROGRESS

AECOM has completed excavation and offsite disposal.

AECOM has completed water treatment.

Tioga continued the removal and decontamination of the sheeting on the northern end of the site.

Tioga resumed placing backfill a MH-1A, MH-1D and MH-2. Atlantic Testing Labs was onsite to perform compaction testing. All compaction testing results were within project specifications.

AECOM continued housekeeping and site demobilization activities.

B. HEALTH & SAFETY REMARKS

AECOM conducted tailgate safety meetings. All site personnel were required to sign in. Hard hats, safety glasses, reflective vests, and steel-toe boots were required to perform site work. Air monitoring is being performed on a daily basis using Multi-Rae and Dust Trak units. No incidents or accidents are reported today. AECOM performs additional lunch time safety briefing today.

Temperature: 45° F to 75°F

Cloud cover: Clear

Rainfall: None

Wind Speed Average and Direction: 5-10 mph E

CAMP: CAMP Stations UP, DW 1 and DW 2 deployed. No exceedances.

Calibration: Dust Trak and PID units for each station calibrated at start of day.

C. OFFSITE DISPOSAL:

ESMI/Broome County Landfill Disposed Offsite (daily tons): **0/0**

ESMI/Broome County Landfill Disposed Offsite (total to date tons): **4340/2485**

D. SIGNIFICANT COMMUNICATIONS:

None

E. UPCOMING SITE ACTIVITIES

1. Continue backfill.
2. Continue decontamination and demobilization of the Temporary Water Treatment System.

F. DAILY SITE PHOTOGRAPHS



View of the southern end of the site at MH-1A



View of backfill being placed at MH-1D.

DAILY PROGRESS REPORT 102: 3/26/12**66-INCH STORM SEWER REPLACEMENT
NEW YORK STATE ELECTRIC & GAS CORPORATION
COURT STREET FORMER MGP SITE, BINGHAMTON, NEW YORK**

This daily progress report summarizes project-related activities performed by AECOM and its subcontractors, on behalf of New York State Electric and Gas (NYSEG), at the Court Street Former MGP Site in Binghamton, New York (the site) for March 26, 2012 as observed by E. Michael Flynn of ARCADIS.

A. COMPLETED WORK/WORK IN PROGRESS

AECOM has completed excavation and offsite disposal.

AECOM has completed water treatment.

Tioga completed the removal and decontamination of the sheeting on the northern end of the site.

Tioga resumed backfill placement at MH-1A and MH-1B. Atlantic Testing Labs was onsite to perform compaction testing. All compaction testing results were within project specifications.

AECOM mobilized Paragon Environmental and a vac-truck to the site to remove sludge from the bottom of the weir and frac tanks of the Temporary Water Treatment System. AECOM and Paragon dump the sludge from the tanks into the decontamination pad and solidify the material with LKD for offsite disposal.

B. HEALTH & SAFETY REMARKS

AECOM conducted tailgate safety meetings. All site personnel were required to sign in. Hard hats, safety glasses, reflective vests, and steel-toe boots were required to perform site work. Air monitoring is being performed on a daily basis using Multi-Rae and Dust Trak units. No incidents or accidents are reported today. AECOM performs additional lunch time safety briefing today.

Temperature: 32° F to 36°F

Cloud cover: Clear

Rainfall: None

Wind Speed Average and Direction: 10-20 mph NNW

CAMP: CAMP Stations UP, DW 1 and DW 2 deployed. No exceedances.

Calibration: Dust Trak and PID units for each station calibrated at start of day.

C. OFFSITE DISPOSAL:

ESMI/Broome County Landfill Disposed Offsite (daily tons): **0/0**

ESMI/Broome County Landfill Disposed Offsite (total to date tons): **4340/2485**

D. SIGNIFICANT COMMUNICATIONS:

None

E. UPCOMING SITE ACTIVITIES

1. Continue backfill.
2. Continue decontamination and demobilization of the Temporary Water Treatment System.

F. DAILY SITE PHOTOGRAPHS



View of sludge removal from the weir tanks.



View after sheeting is removed near MH-1D.

DAILY PROGRESS REPORT 103: 3/27/12**66-INCH STORM SEWER REPLACEMENT
NEW YORK STATE ELECTRIC & GAS CORPORATION
COURT STREET FORMER MGP SITE, BINGHAMTON, NEW YORK**

This daily progress report summarizes project-related activities performed by AECOM and its subcontractors, on behalf of New York State Electric and Gas (NYSEG), at the Court Street Former MGP Site in Binghamton, New York (the site) for March 27, 2012 as observed by E. Michael Flynn of ARCADIS.

A. COMPLETED WORK/WORK IN PROGRESS

AECOM has completed excavation and offsite disposal.

AECOM has completed water treatment.

Tioga assembled the form work and poured concrete for the manhole covers at MH-1A and MH-1B.

AECOM and Paragon Environmental continued work with the vac-truck to remove the carbon and organoclay from the vessels at the Temporary Water Treatment System. AECOM and Paragon dumped the sludge from the vessels into the decontamination pad and solidify the material with LKD for offsite disposal.

B. HEALTH & SAFETY REMARKS

AECOM conducted tailgate safety meetings. All site personnel were required to sign in. Hard hats, safety glasses, reflective vests, and steel-toe boots were required to perform site work. Air monitoring is being performed on a daily basis using Multi-Rae and Dust Trak units. No incidents or accidents are reported today. AECOM performs additional lunch time safety briefing today.

Temperature: 24° F to 50°F

Cloud cover: Clear

Rainfall: None

Wind Speed Average and Direction: 10-20 mph NNW

CAMP: CAMP Stations UP, DW 1 and DW 2 deployed. No exceedances.

Calibration: Dust Trak and PID units for each station calibrated at start of day.

C. OFFSITE DISPOSAL:

ESMI/Broome County Landfill Disposed Offsite (daily tons): **0/0**

ESMI/Broome County Landfill Disposed Offsite (total to date tons): **4340/2485**

D. SIGNIFICANT COMMUNICATIONS:

None

E. UPCOMING SITE ACTIVITIES

1. Continue backfill.
2. Continue decontamination and demobilization of the Temporary Water Treatment System.

F. DAILY SITE PHOTOGRAPHS



View of concrete being poured for MH-1A.



View of concrete being poured at MH-1B.

DAILY PROGRESS REPORT 104: 3/28/12**66-INCH STORM SEWER REPLACEMENT
NEW YORK STATE ELECTRIC & GAS CORPORATION
COURT STREET FORMER MGP SITE, BINGHAMTON, NEW YORK**

This daily progress report summarizes project-related activities performed by AECOM and its subcontractors, on behalf of New York State Electric and Gas (NYSEG), at the Court Street Former MGP Site in Binghamton, New York (the site) for March 28, 2012 as observed by E. Michael Flynn of ARCADIS.

A. COMPLETED WORK/WORK IN PROGRESS

AECOM has completed excavation and offsite disposal. AECOM loaded the final truckload of solidified sludge from the TWTS today. The material was transported to ESMI for thermal treatment. This will be the final material transported offsite.

AECOM has completed water treatment.

Tioga assembled the form work and poured concrete for the manhole covers at MH-1C and MH-1D. Atlantic Testing Laboratories (ATL) was onsite to perform concrete testing. All testing is within project specifications.

LRT was onsite to begin disassembly of the Temporary Water Treatment System. LRT began by disassembling the structure/tent covering the system.

B. HEALTH & SAFETY REMARKS

AECOM conducted tailgate safety meetings. All site personnel were required to sign in. Hard hats, safety glasses, reflective vests, and steel-toe boots were required to perform site work. Air monitoring is being performed on a daily basis using Multi-Rae and Dust Trak units. No incidents or accidents are reported today. AECOM performs additional lunch time safety briefing today.

Temperature: 38° F to 55°F

Cloud cover: Clear

Rainfall: None

Wind Speed Average and Direction: 5-10 mph East

CAMP: CAMP Stations UP, DW 1 and DW 2 deployed. No exceedances.

Calibration: Dust Trak and PID units for each station calibrated at start of day.

C. OFFSITE DISPOSAL:

ESMI/Broome County Landfill Disposed Offsite (daily tons): **410/0**

ESMI/Broome County Landfill Disposed Offsite (total to date tons): **4750/2485**

D. SIGNIFICANT COMMUNICATIONS:

None

E. UPCOMING SITE ACTIVITIES

1. Continue backfill.
2. Continue demobilization of the Temporary Water Treatment System.

F. DAILY SITE PHOTOGRAPHS



View of TWTS area after structure and system are removed.



View of concrete being poured at MH-1D.

DAILY PROGRESS REPORT 105: 3/29/12**66-INCH STORM SEWER REPLACEMENT
NEW YORK STATE ELECTRIC & GAS CORPORATION
COURT STREET FORMER MGP SITE, BINGHAMTON, NEW YORK**

This daily progress report summarizes project-related activities performed by AECOM and its subcontractors, on behalf of New York State Electric and Gas (NYSEG), at the Court Street Former MGP Site in Binghamton, New York (the site) for March 29, 2012 as observed by E. Michael Flynn of ARCADIS.

A. COMPLETED WORK/WORK IN PROGRESS

AECOM has completed excavation and offsite disposal.

AECOM has completed water treatment.

Tioga began disassembly of the crane.

LRT completed the disassembly and demobilization of the Temporary Water Treatment System today.

AECOM and Tioga continued demobilizing equipment from the site.

NYSEG disconnected power to the TWTS.

B. HEALTH & SAFETY REMARKS

AECOM conducted tailgate safety meetings. All site personnel were required to sign in. Hard hats, safety glasses, reflective vests, and steel-toe boots were required to perform site work. Air monitoring is being performed on a daily basis using Multi-Rae and Dust Trak units. No incidents or accidents are reported today. AECOM performs additional lunch time safety briefing today.

Temperature: 35° F to 45°F

Cloud cover: Clear

Rainfall: None

Wind Speed Average and Direction: 5-10 mph NNW

CAMP: CAMP Stations UP, DW 1 and DW 2 deployed. No exceedances.

Calibration: Dust Trak and PID units for each station calibrated at start of day.

NOTE: Today is the final day of CAMP monitoring as all intrusive activities have been completed.

C. OFFSITE DISPOSAL:

ESMI/Broome County Landfill Disposed Offsite (daily tons): **0/0**

ESMI/Broome County Landfill Disposed Offsite (total to date tons): **4750/2485**

D. SIGNIFICANT COMMUNICATIONS:

None

E. UPCOMING SITE ACTIVITIES

1. Complete demobilization

F. DAILY SITE PHOTOGRAPHS



View of TWTS being demobilized.



View of the crane being disassembled.



Appendix D

Photo Log



Photo #1 (2011.11.01): Looking east. Relocating and stockpiling HDPE pipes.



Photo #2 (2011.11.03): Looking east. Decontamination Pad Liner system (non-woven-geotextile HDPE liner)

Client: NYSEG

Project: B0013103.0001.00001

Site: Court Street Former MGP site

Site Location: Binghamton, New York

ARCADIS



Photo #3 (2011.11.07): AECOM performing pre-trenching along the east sheeting alignment.



Photo #4 (2011.11.07): Pre-trenches backfilled.

Client: NYSEG

Project: B0013103.0001.00001

Site: Court Street Former MGP site

Site Location: Binghamton, New York

ARCADIS



Photo #5 (2011.11.08): Pre-trenching at the north end of site.



Photo #6 (2011.11.09): North edge of Gas holder No. 4 foundation demolition.

Client: NYSEG

Project: B0013103.0001.00001

Site: Court Street Former MGP site

Site Location: Binghamton, New York

ARCADIS



Photo #7 (2011.11.15): Gas holder NO. 4 foundation deolition, 30" diameter pipe encountered.



Photo #8 (2011.11.15): Installing sheets along west sheting alignment.

Client: NYSEG

Project: B0013103.0001.00001

Site: Court Street Former MGP site

Site Location: Binghamton, New York

ARCADIS



Photo #9 (2011.11.16): 30" diameter cast iron pipe, embedded in concrete with visible coal tar product present.



Photo #10 (2011.11.18): Facing southwest. East and west sheeting alignments.

Client: NYSEG

Project: B0013103.0001.00001

Site: Court Street Former MGP site

Site Location: Binghamton, New York

ARCADIS



Photo #11 (2011.11.21): Facing northwest. Sheetting installation along east alignment.



Photo #12 (2011.11.23): Facing south. Backfilling and rough grading pipe trench alignment.

Client: NYSEG

Project: B0013103.0001.00001

Site: Court Street Former MGP site

Site Location: Binghamton, New York

ARCADIS



Photo #13 (2011.11.28): Facing south. Performing trench excavation.



Photo #14 (2011.11.28): Facing south. Application of Rusmar foam.

Client: NYSEG

Project: B0013103.0001.00001

Site: Court Street Former MGP site

Site Location: Binghamton, New York

ARCADIS



Photo #15 (2011.12.01): Facing north. View of pipe trench alignment from the No. 4 Gas Holder.



Photo #16 (2011.12.05): Facing west. Temporary Water Treatment System components shown after initial system start up.

Client: NYSEG

Project: B0013103.0001.00001

Site: Court Street Former MGP site

Site Location: Binghamton, New York

ARCADIS



Photo #17 (2011.12.06): Excavation at the north end of the site facing south, odor suppressant foam can be seen on the material staged for load-out.



Photo #18 (2011.12.08): Facing south west. Final sheets being installed at south end of trench alignment.

Client: NYSEG

Project: B0013103.0001.00001

Site: Court Street Former MGP site

Site Location: Binghamton, New York

ARCADIS



Photo #19 (2011.12.13): Facing north. Trench excavation at northern end. AECOM performing dewatering activities in base of trench.



Photo #20 (2011.12.19): Facing west at the northern end of trench. Tioga placing geo-textile over #1 and #2 stone excavation for MH-1C.

Client: NYSEG

Project: B0013103.0001.00001

Site: Court Street Former MGP site

Site Location: Binghamton, New York

ARCADIS



Photo #21 (2011.12.21): Facing north. View of concrete forms for MH-1C.



Photo #22 (2011.12.22): Facing north. AECOM and Tioga placing concrete in form for MH-1C.

Client: NYSEG

Project: B0013103.0001.00001

Site: Court Street Former MGP site

Site Location: Binghamton, New York

ARCADIS



Photo #22 (2011.12.27): Facing west. Vari-Tech setting up the south flange and an approximately 54-foot pipe section for surface 'trimming'.



Photo #24 (2011.12.27): Facing west. A completed butt fusion of the south flange and an approximately 54-foot section of HDPE.

Client: NYSEG

Project: B0013103.0001.00001

Site: Court Street Former MGP site

Site Location: Binghamton, New York

ARCADIS



Photo #25 (2011.12.28): Facing south. Vari-Tech butt-fusing a section of HDPE and constructing a temporary structure.



Photo #26 (2011.12.30): Facing southwest. A completed butt-fused section of HDPE piping.

Client: NYSEG

Project: B0013103.0001.00001

Site: Court Street Former MGP site

Site Location: Binghamton, New York

ARCADIS



Photo #27 (2011.12.30): Facing west. A butt-fused section of HDPE and a flange.



Photo #2 (2012.01.09): View of MH-1C being lowered into position.

Client: NYSEG

Project: B0013103.0001.00001

Site: Court Street Former MGP site

Site Location: Binghamton, New York

ARCADIS



Photo #29 (2012.01.09): View of re-bar being placed for the southern collar at MH-1C.



Photo #30 (2012.01.11): View of forms and re-bar for the base of MH-1B.

Client: NYSEG

Project: B0013103.0001.00001

Site: Court Street Former MGP site

Site Location: Binghamton, New York

ARCADIS



Photo #31 (2012.01.13): View of the invert at MH-1C facing south.



Photo #32 (2012.01.16): View of a backer ring cut in half to fit over the HDPE ring.

Client: NYSEG

Project: B0013103.0001.00001

Site: Court Street Former MGP site

Site Location: Binghamton, New York

ARCADIS



Photo #33 (2012.01.16): View showing a split backer ring installed on the pipe.



Photo #34 (2012.01.17): Facing west. View of blind flange attached to HDPE pipe for leak test.

Client: NYSEG

Project: B0013103.0001.00001

Site: Court Street Former MGP site

Site Location: Binghamton, New York

ARCADIS



Photo #35 (2012.01.19): View of temporary connection at MH-1C (to secure HDPE for backfill). ~ ~



Photo #36 (2012.01.19): View of Tioga placing the first lift of crusher run stone around the HDPE pipe.

Client: NYSEG

Project: B0013103.0001.00001

Site: Court Street Former MGP site

Site Location: Binghamton, New York

ARCADIS



Photo #37 (2012.01.23): Facing north. View of backfill being placed on top of HDPE pipe. Geotextile ~ fabric is visible on each side of the trench.

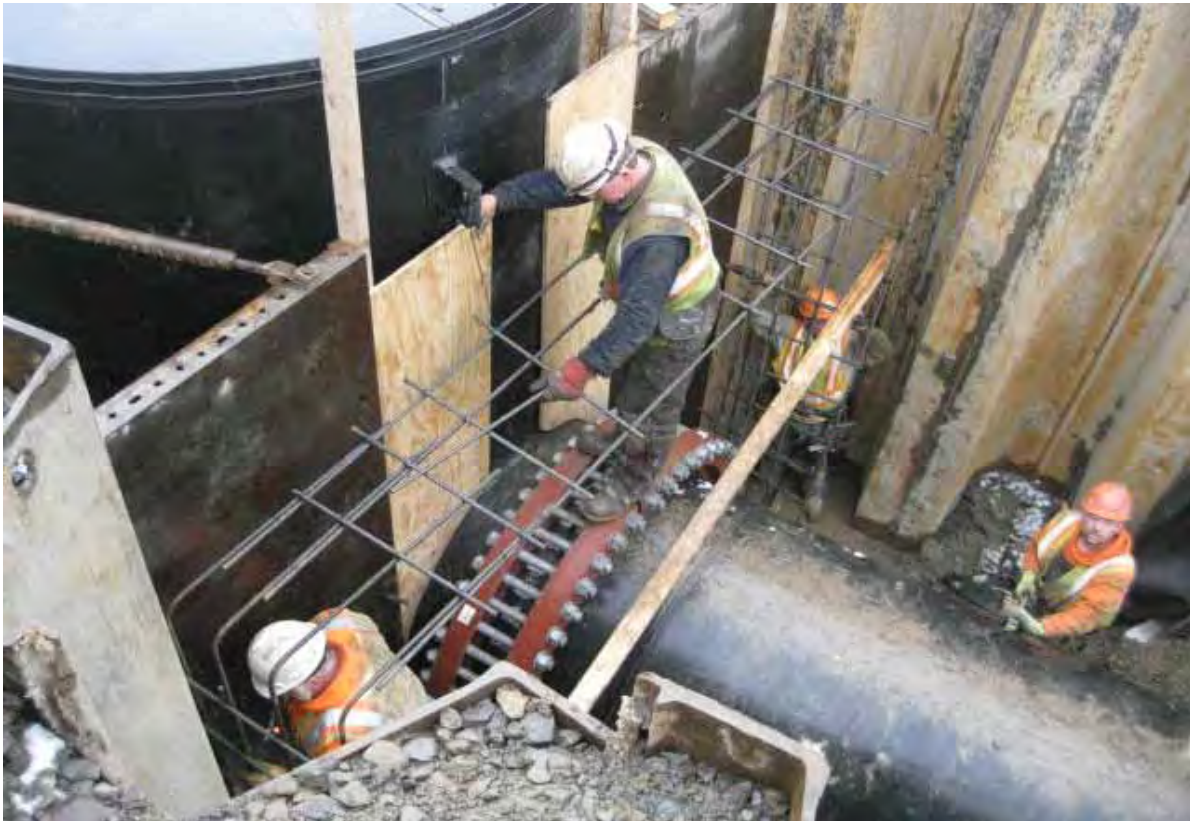


Photo #38 (2012.01.26): View of concrete formwork for the northern collar at MH-1B.

Client: NYSEG

Project: B0013103.0001.00001

Site: Court Street Former MGP site

Site Location: Binghamton, New York

ARCADIS



Photo #39 (2012.01.30): View of concrete collar at MH-1B.



Photo #40 (2012.02.01): Facing south. View of Tioga personnel removing phase one sheets.

Client: NYSEG

Project: B0013103.0001.00001

Site: Court Street Former MGP site

Site Location: Binghamton, New York

ARCADIS



Photo #41 (2012.02.01): View of concrete pipe chase and exposed RCP sewer.



Photo #42 (2012.02.02): Facing east. View of Tioga personnel driving the northern section of the phase two sheets.

Client: NYSEG

Project: B0013103.0001.00001

Site: Court Street Former MGP site

Site Location: Binghamton, New York

ARCADIS



Photo #43 (2012.02.09): View of the northern Phase Two excavation.



Photo #44 (2012.02.20): View of the existing RCP sewer being removed.

Client: NYSEG

Project: B0013103.0001.00001

Site: Court Street Former MGP site

Site Location: Binghamton, New York

ARCADIS



Photo #45 (2012.02.21): View of the emergency concrete spillway between MH-2 and MH-1C being poured.



Photo #46 (2012.02.22): Looking north at MH-1D. View of the crusher run sub base being compacted between MH-1C and MH-1D.

Client: NYSEG

Project: B0013103.0001.00001

Site: Court Street Former MGP site

Site Location: Binghamton, New York

ARCADIS



Photo #47 (2012.02.22): View of the concrete base for MH-1A being lowered into position.



Photo #48 (2012.02.27): View of the HDPE pipe being slipped inside of the existing RCP sewer at MH-2.

Client: NYSEG

Project: B0013103.0001.00001

Site: Court Street Former MGP site

Site Location: Binghamton, New York

ARCADIS



Photo #49 (2012.02.27):View of the spacing between the HDPE and the existing RCP.



Photo #50 (2012.02.28): View of the HDPE pipe/RCP after the hydraulic cement has been installed. sewer at MH-2.

Client: NYSEG

Project: B0013103.0001.00001

Site: Court Street Former MGP site

Site Location: Binghamton, New York

ARCADIS



Photo #51 (2012.03.01): View of the slip-lined section near MH-1 showing the completed hydraulic cement and the grout tube.

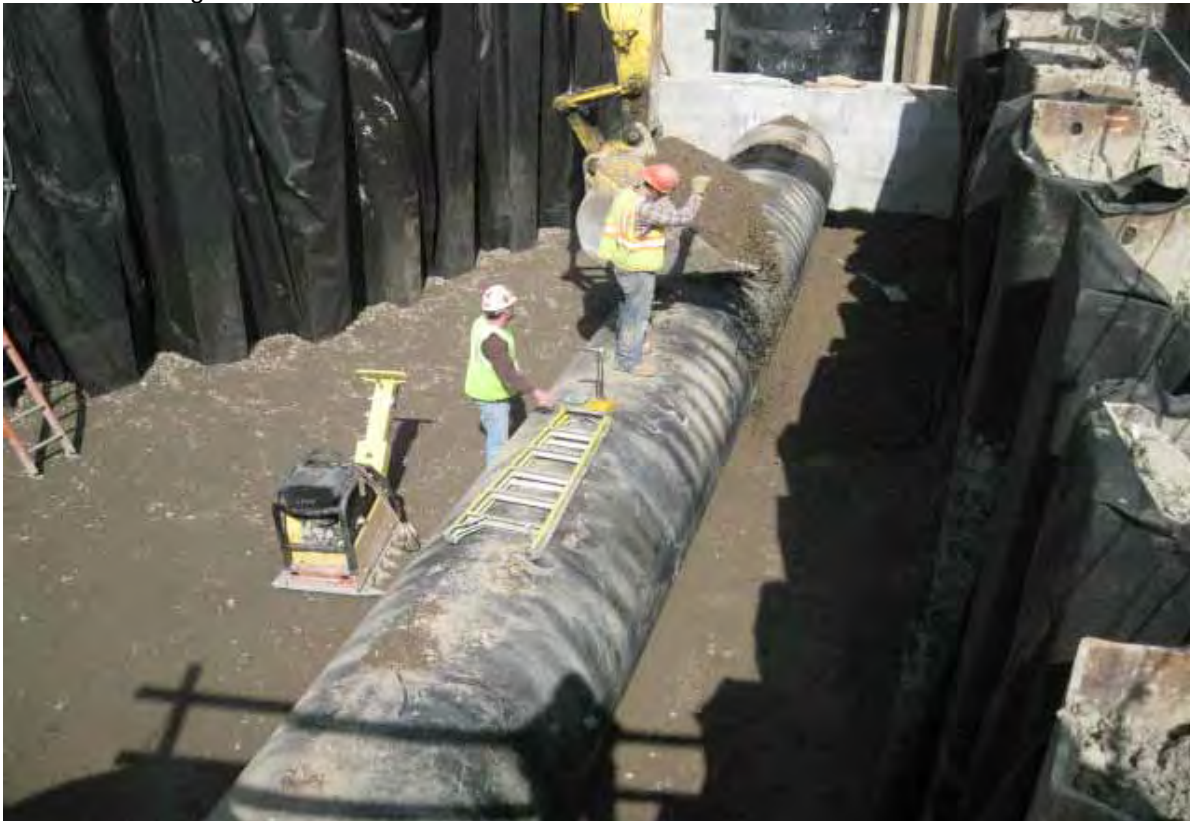


Photo #52 (2012.02.28): View of backfill near MH-1A.

Client: NYSEG

Project: B0013103.0001.00001

Site: Court Street Former MGP site

Site Location: Binghamton, New York

ARCADIS



Photo #53 (2012.03.08): View of backfill between manholes MH-1C and MH-1D.



Photo #54 (2012.03.09): View of backfill between MH-1D (foreground) and MH-1C (background).

Client: NYSEG

Project: B0013103.0001.00001

Site: Court Street Former MGP site

Site Location: Binghamton, New York

ARCADIS



Photo #55 (2012.03.15):View of the completed Fernco connector at MH-1.



Photo #56 (2012.03.16):View of grout being placed inside Fernco at MH-1 and CLSM being poured outside the Fernco.

Client: NYSEG

Project: B0013103.0001.00001

Site: Court Street Former MGP site

Site Location: Binghamton, New York

ARCADIS



Photo #57 (2012.03.21): View of grouting of the slip-lined section of HDPE pipe at MH-1.



Photo #58 (2012.03.23): View of the southern end of the site at MH-1A after sheetpiling was removed. concrete was poured outside the Fernco.

Client: NYSEG

Project: B0013103.0001.00001

Site: Court Street Former MGP site

Site Location: Binghamton, New York

ARCADIS



Photo #59 (2012.03.27): View of concrete being poured at MH-1B.



Photo #60 (2012.03.30): Looking south west at MH-1A and MH-1B.
poured outside the Fernco.

Client: NYSEG

Project: B0013103.0001.00001

Site: Court Street Former MGP site

Site Location: Binghamton, New York

ARCADIS

Appendix E

Request for Information (RFI)



40 British American Boulevard
Latham, New York 12110
(518) 951- 2200

LETTER OF TRANSMITTAL

Date: November 21, 2011

To: Jason Brien
Arcadis
6723 Towpath Rd.
PO Box 66
Syracuse, NY 13214

Project No.: 60225086
Project Name: NYSEG Court St. – Sewer Replac.
Re: RFI #1 – Tioga – Soldier Pile
Substitution

WE ARE SENDING YOU:

<input checked="" type="checkbox"/> Attached or <input type="checkbox"/> Under separate cover via _____ the following items:			
<input type="checkbox"/> Shop Drawings	<input type="checkbox"/> Prints	<input type="checkbox"/> Plans	<input type="checkbox"/> Change Order
<input type="checkbox"/> Specifications	<input type="checkbox"/> Letters	<input type="checkbox"/> Samples	<input checked="" type="checkbox"/> Other – RFI
<input type="checkbox"/> Reports	<input type="checkbox"/> Applications	<input type="checkbox"/> Permits	Request Memo

ITEMS ATTACHED:

COPIES	DATE	NO.	DESCRIPTION
1	11/15/11		RFI #1 – Tioga request for Soldier Pile Substitution

THESE ARE TRANSMITTED AS CHECKED BELOW:

<input checked="" type="checkbox"/> For your approval	<input type="checkbox"/> Approved as submitted	<input type="checkbox"/> Resubmit _____ copies for approval
<input type="checkbox"/> For your use	<input type="checkbox"/> Approved as noted	<input type="checkbox"/> Submit _____ copies for distribution
<input type="checkbox"/> As requested	<input type="checkbox"/> Returned for corrections	<input type="checkbox"/> Return _____ corrected prints
<input type="checkbox"/> For review and comment	<input type="checkbox"/> For your signature	<input type="checkbox"/> Other
<input type="checkbox"/> FOR BIDS DUE _____	<input type="checkbox"/> PRINTS RETURNED AFTER LOAN TO US	

REMARKS:

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Copy to: Files

Signed: _____

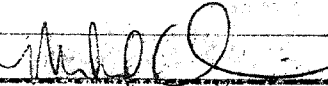

Steve Beam

Project Manager



TIOGA CONSTRUCTION

REQUEST FOR INFORMATION

Project No.:		RFI Number: 1	
Project Name: NYSEG Court Street 66" Sewer		Date Received:	
Owner's Project Manager: AECOM		Date Required:	
Owner's Project Engineer: Arcadis		Forwarded To:	
Contractor: Tioga Construction		Date Responded:	
Specification No.:		Page No.:	
check one: <input checked="" type="checkbox"/> RFI	<input type="checkbox"/> Design Modification	<input type="checkbox"/> Special Provision	
check one: <input type="checkbox"/> Standard Specification	<input type="checkbox"/> Supplemental Specification		
Plan Sheet No.: 10		Detail: 3	
REQUEST: The above referenced detail calls for HP12x63 Solid Piles at 49' length. We request permission to substitute similar length HP14x89 pile that we already have in stock.			
PROPOSED SOLUTION (If applicable): 			
By: Michael Dillon		Signature: 	Date: 11/15/2011
RESPONSE: Acceptable substitution.			
By: Jason Brien		Signature: 	Date: 11/22/11
After reviewing the response, does the contractor anticipate: That a change order will be required? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No That there will be an increase in the cost of the project? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> NO			



AECOM
40 British American Boulevard
Latham, NY 12110

518.951.2200 tel
518.951.2300 fax

December 8, 2011

Mr. Jason Brien
Arcadis
6723 Towpath Road
Syracuse, NY 13214

Subject: RFI #2 – Placing clean #2 and/or #3 stone on bottom of trench

Dear Mr. Brien,

AECOM is requesting information regarding placing clean #2 and/or #3 stone in the bottom of the trench in place of runner crush. Based on the groundwater table, and composition of the material on the bottom of the trench, AECOM is proposing to place clean stone on the bottom of the trench to help support a solid clean base. The placement of this clean stone will also allow for better handling of the base should it freeze. If runner crush was placed in the bottom of the trench and then proceed to freeze, it would be more difficult to obtain proper grades for the pipe. Please advise on the placement of the clean stone in the bottom of the trench.

Please feel free to contact me at anytime should you have any questions or require any additional information.

Thanks

Yours sincerely,

A handwritten signature in black ink, appearing to read "Steve Beam".

Steve Beam
Project Manager
Stephen.beam@aecom.com



ARCADIS
6723 Towpath Road
P.O. Box 66
Syracuse
New York 13214-0066
Tel 315.446.9120
Fax 315.449.0017

REQUEST FOR INFORMATION REVIEW FORM

Request For Information Number:

RFI - 3

Project:

NYSEG – Court St.

Description:

Concrete collar details

Date of Transmittal:

1/5/12

Reviewed By:

Matt DeGracia

Date:

1/5/12


Remarks:

None.

<input checked="checked" type="checkbox"/> REVIEWED	<input type="checkbox"/> REJECTED
<input type="checkbox"/> REVIEWED & NOTED	<input type="checkbox"/> For information only
<input type="checkbox"/> REVISE & RESUBMIT	<input type="checkbox"/> Received, no action taken

Reviewed solely for general conformance with contract documents

ARCADIS of New York, Inc.

 1/5/12
Signature Date



40 British American Boulevard
Latham, New York 12110
(518) 951- 2200

LETTER OF TRANSMITTAL

Date: January 5, 2011

To: Jason Brien
Arcadis
6723 Towpath Rd.
PO Box 66
Syracuse, NY 13214

Project No.: 60225086
Project Name: NYSEG Court St. – Sewer Replac.
Re: RFI #3 – Concrete Collar Details

WE ARE SENDING YOU:

<input checked="" type="checkbox"/> Attached or <input type="checkbox"/> Under separate cover via _____ the following items:			
<input type="checkbox"/> Shop Drawings	<input type="checkbox"/> Prints	<input type="checkbox"/> Plans	<input type="checkbox"/> Change Order
<input type="checkbox"/> Specifications	<input type="checkbox"/> Letters	<input type="checkbox"/> Samples	<input checked="" type="checkbox"/> Other – RFI
<input type="checkbox"/> Reports	<input type="checkbox"/> Applications	<input type="checkbox"/> Permits	Request Memo

ITEMS ATTACHED:

COPIES	DATE	NO.	DESCRIPTION
1	1/3/11		RFI #3 – Concrete Collar Details

THESE ARE TRANSMITTED AS CHECKED BELOW:

<input checked="" type="checkbox"/> For your approval	<input type="checkbox"/> Approved as submitted	<input type="checkbox"/> Resubmit _____ copies for approval
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<input type="checkbox"/> As requested	<input type="checkbox"/> Returned for corrections	<input type="checkbox"/> Return _____ corrected prints
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<input type="checkbox"/> FOR BIDS DUE _____		<input type="checkbox"/> PRINTS RETURNED AFTER LOAN TO US

REMARKS:

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Copy to: Files

Signed:

Steve Beam

Project Manager



January 3, 2012

Mr. Jason Brien
Arcadis
6723 Towpath Road
Syracuse, NY 13214

Subject: RFI #3 – Concrete Collars location and details

Dear Mr. Brien,

AECOM is requesting information regarding the location and details of the Concrete Collars that will be poured around the flanges connecting the pipes to the Manholes. As shown on the factory drawings for each of the manholes that were previously submitted to ARCADIS, the stub section from the manhole will be 18" long. As originally specified, the concrete collars were supposed to be poured to 4' wide with the flanges centered within the collars. Based on the stub sections being 18" from the manhole, a 4' collar with the flanges centered is not obtainable. Also, the new collars will be poured directly on top of the previously poured manhole bases. Attached to this RFI, please find 2 drawings that detail AECOM's proposed plan for these collars and the associated bases. Please be advised that the collar bases are being installed to help aid in water retention for phase 2 work only. The collars will still meet the specified distance around the flange but will be 1' shorter in width.

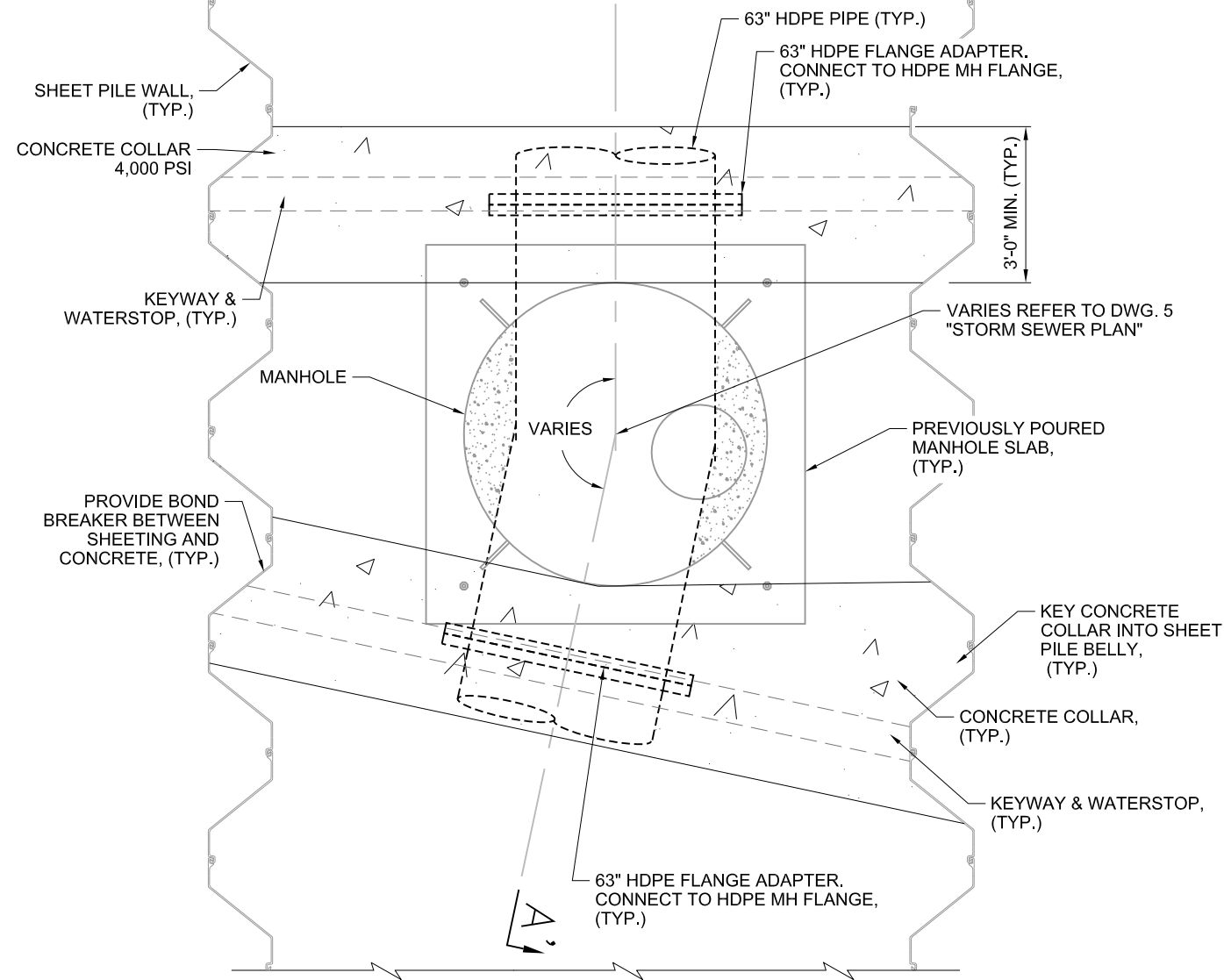
Please feel free to contact me at anytime should you have any questions or require any additional information.

Thanks

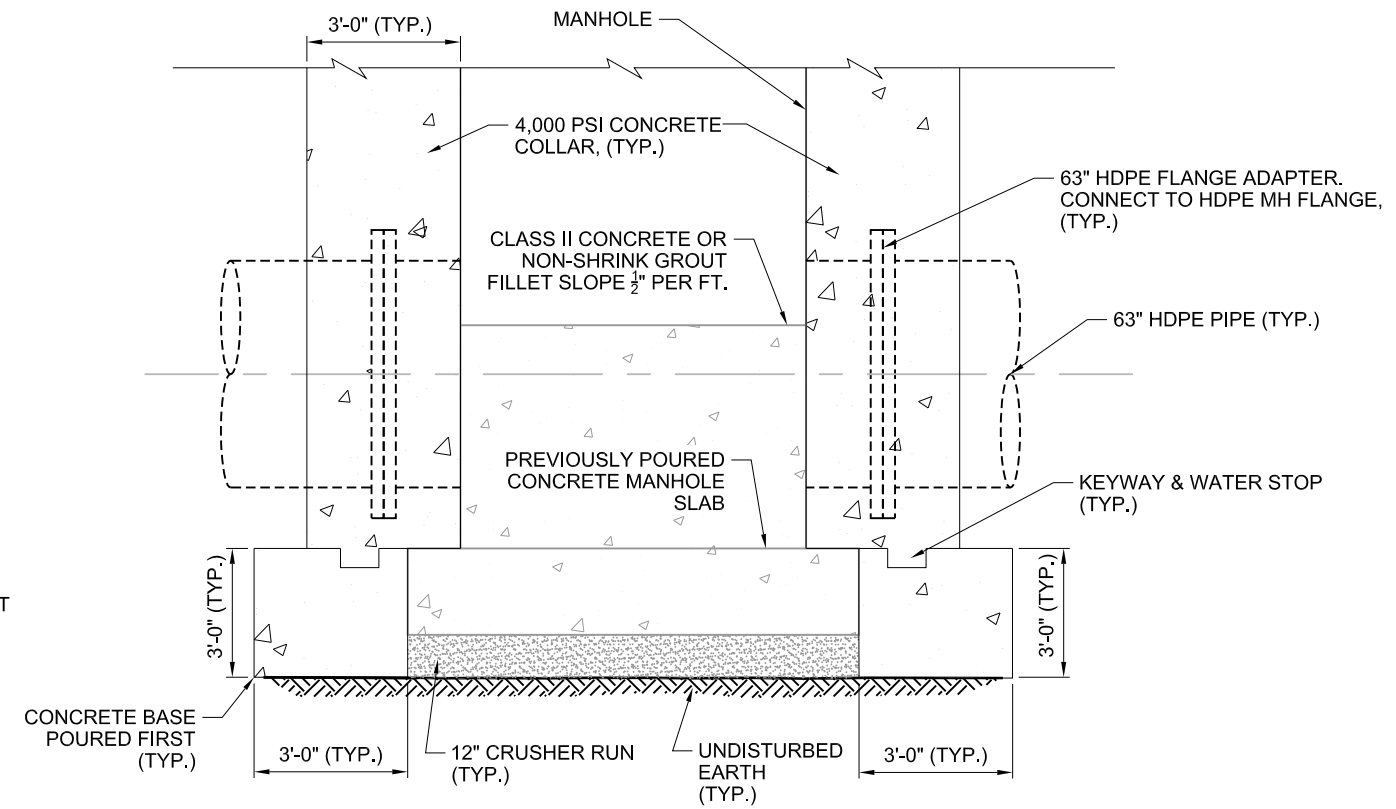
Yours sincerely,



Steve Beam
Project Manager
Stephen.beam@aecom.com




SOUTH END
MANHOLE 1-B
PLAN VIEW
NOT TO SCALE



SECTION A-A'

NOT TO SCALE

NYSEG - COURT STREET 66-INCH STORM SEWER REPLACEMENT BINGHAMTON, NEW YORK				DRN BY: BAA		1"=4"CH=1" VERIFY SCALE IF PLAN SHEET IS REDUCED	
		AECOM TECHNICAL SERVICES NORTHEAST, INC. 40 BRITISH AMERICAN BLVD. LATHAM, NY 12110 T 518.951.2200 F 518.951.2300 www.aecom.com		DES BY: xxx			
				CHK BY: xxx			
				APP BY: xxx			
				REV		DESCRIPTION DRN CHK DATE (M/D/Y)	
PROJECT START DATE (M / Y) DECEMBER 2011							
PROJECT NO. 60225086							
FILENAME							
SHEET NO. 1 OF 1							
DRAWING NO.		1					



40 British American Boulevard
Latham, New York 12110
(518) 951- 2200

LETTER OF TRANSMITTAL

Date: January 23, 2011

To: Jason Brien
Arcadis
6723 Towpath Rd.
PO Box 66
Syracuse, NY 13214

Project No.: 60225086
Project Name: NYSEG Court St. – Sewer Replac.
Re: RFI #4 – Soldier Pile Connection
Detail

WE ARE SENDING YOU:

<input checked="" type="checkbox"/> Attached or <input type="checkbox"/> Under separate cover via _____ the following items:			
<input type="checkbox"/> Shop Drawings	<input type="checkbox"/> Prints	<input type="checkbox"/> Plans	<input type="checkbox"/> Change Order
<input type="checkbox"/> Specifications	<input type="checkbox"/> Letters	<input type="checkbox"/> Samples	<input checked="" type="checkbox"/> Other – RFI
<input type="checkbox"/> Reports	<input type="checkbox"/> Applications	<input type="checkbox"/> Permits	Request Memo

ITEMS ATTACHED:

COPIES	DATE	NO.	DESCRIPTION
1	1/23/11		RFI #4 – Proposed Soldier Pile Connection Detail

THESE ARE TRANSMITTED AS CHECKED BELOW:

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<input type="checkbox"/> FOR BIDS DUE _____		<input type="checkbox"/> PRINTS RETURNED AFTER LOAN TO US

REMARKS:

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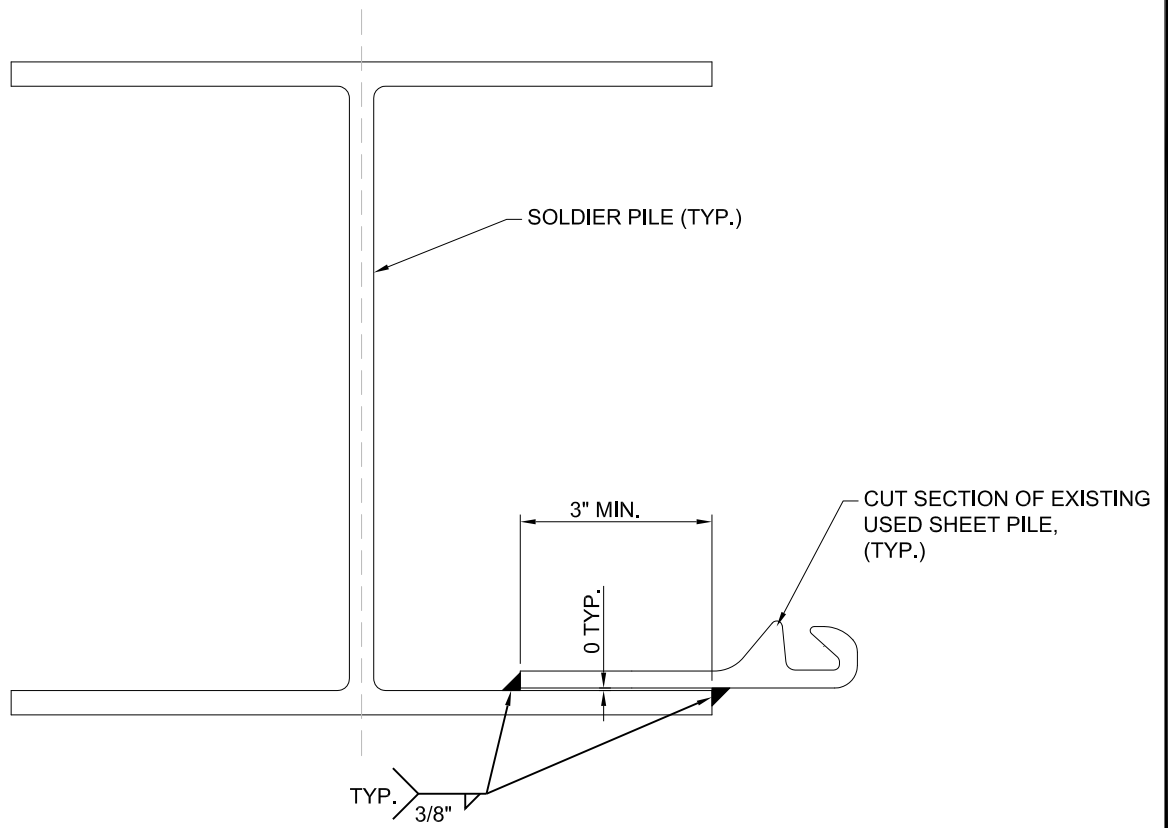
Copy to: Files

Signed:

Steve Beam

Project Manager





PROPOSED SOLDIER PILE CONNECTION DETAIL

PLAN VIEW

NOT TO SCALE

AECOM

SOLDIER PILE CONNECTION DETAIL 66-INCH STORM SEWER REPLACEMENT

NYSEG - COURT STREET
BINGHAMTON, NEW YORK

FILE NAME:	DRN	PROJECT NO.	DATE	FIGURE NO.
DETAILS.dwg	--	60225086	01/2012	1



ARCADIS
6723 Towpath Road
P.O. Box 66
Syracuse
New York 13214-0066
Tel 315.446.9120
Fax 315.449.0017

REQUEST FOR INFORMATION REVIEW FORM

Request For Information Number:

RFI – 5 rev 3

Project:

NYSEG – Court St.

Description:

Pre-Cast Manhole Footers

Date of Transmittal:

2/15/12

Reviewed By:

**Matt Lotczyk
Matt DeGracia**

Date:

2/16/12

Remarks:

- Please see comments on attached submittal.
- Please provide the additional calculations for tension capacity consistent with the International Council Code, Evaluation Service (ICC-ES) Evaluation Report as commented on the attached.
- Please specify what embedment depth will be used for the anchors.



February 14, 2012

Mr. Jason Brien
Arcadis
6723 Towpath Road
Syracuse, NY 13214**Subject: Epoxied Anchor bolts for Pre-cast manhole bases**

Dear Mr. Brien,

Below, please find the information on the anchor bolts that will be epoxied into place in the pre-cast manhole bases:

The anchor bolts used are Grade 304 Stainless Steel.

Proof Strength: 205 MPa / 30 ksi
Diameter: $\frac{3}{4}$ inArea of 4 bolts = 1.767 in² $1.767 \text{ in}^2 \times 30,000 \text{ lb/in}^2 = 53,000 \text{ lb}$

Weight of Slab: 43,200 lb

Factor of Safety: 1.23

Additional information is attached including spec sheets and technical data.

Please feel free to contact me at anytime should you have any questions or require any additional information.

Yours sincerely,

Steve Beam
Project Manager
Stephen.beam@aecom.com

USE A_{SE} (EFFECTIVE CROSS-SECTIONAL AREA OF
THREADED ROD) = $0.335 \text{ in}^2 \times 4 = 1.34 \text{ in}^2 \text{ TOTAL}$

FLOATATION RESISTANCE NEEDED (DEAD LOAD OF
BASE SLAB AND SOIL ON BASE SLAB) = 55,000#

— WHAT EMBEDMENT IS ADHESIVE ANCHOR DESIGN
BASED ON?

3 STEPS FOR DETERMINING TENSION CAPACITY

CALCULATIONS BASED ON ICC-ES EVALUATION REPORT
(ESR-2582) FOR POWERS AC100+ GOLD ADHESIVE
ANCHOR PRODUCT) NEED SUBMITTED. CURRENT CALCULATIONS
ARE INSUFFICIENT.



Grades of Stainless Steel - Grade 304

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[COMPANIES](#)
[PRODUCTS](#)
[TECH INFO](#)
[TOURISM](#)
[ABOUT US](#)
[LINKS](#)

[Grades](#) | [Material selection](#) | [Fabrication](#) | [Surface Finishes](#) | [Cleaning](#)
[Grade 304](#) | [Grade 316](#) | [309](#) | [310](#) | [321](#) | [3CR12](#) | [430](#) | [Cromanite](#)

SX 304 / 304L Technical Data

Summary

SX 304 is the most versatile and the most widely used of all stainless steels. Its chemical composition, mechanical properties, weldability and corrosion/oxidation resistance provide the best all-round performance stainless steel at relatively low cost. It also has excellent low temperature properties and responds well to hardening by cold working. If intergranular corrosion in the heat affected zone may occur, it is suggested that SX 304L be used.

Typical Applications

SX 304 is used in all industrial, commercial and domestic fields because of its good corrosion and heat resisting properties. Some applications include:

Tanks and containers for a large variety of liquids and solids.

Process equipment in the mining, chemical, cryogenic, food, dairy and pharmaceutical industries.

Chemical Composition (ASTM A240)

SX	°C	Mn	P	S	Si	Cr	Ni
304	0.08 max	2.0	0.045	0.030	1.0	18.0 to	8.0 to 10.50
304L	0.03 max	max	max	max	max	20.0	8.0 - 12.0

Typical Properties in the Annealed Condition

The properties quoted in this publication are typical of mill production and unless indicated should not be regarded as guaranteed minimum values for specification purposes.

1. Mechanical Properties at Room Temperature

	304		304L	
	Typical	Minimum	Typical	Minimum
Tensile Strength, MPa	600	515	590	485
Proof Strength, (Offset 0.2 %), MPa	310	205	310	170
Elongation (Percent in 50mm)	60	40	60	40
Hardness (Brinell)	170	-	170	-
Endurance (fatigue) limit, MPa	240	-	240	-

2. Properties at elevated temperatures

All these values refer to 304 only.

304L values are not given because its strength decreases markedly above 425°C.

Time Elevated Temperature Tensile Strength

Temperature, °C	600	700	800	900	1000
Tensile Strength, MPa	380	270	170	90	50

Creep data Stress for a creep rate of 1% in 10 000 h.

Temperature, °C	550	600	650	700	800
Stress, MPa	120	80	50	30	10

Maximum Recommended Service Temperature (Oxidising Conditions)

Continuous Service 925°C
Intermittent Service 850°C

3. Properties at Sub-Zero Temperatures (SX 304 / 304L)

Temperature	°C	-78	-161	-196
Tensile Strength	MPa	1100/950	1450/1200	1600/1350
Proof Stress (Offset 0.2%)	MPa	300/180	380/220	400/220
Impact Strength (Charpy V-Notch)	J	180/175	160/160	155/150

4. Corrosion Resistance

Aqueous

As a rough guide the following examples are given for certain pure acid-water mixtures-

Temperature °C	20					80				
Concentration, % by mass	10	20	40	60	80	10	20	40	60	80
Sulphuric Acid	2 1	2 0	2	2		2 2	2	2	2	2
Nitric Acid	0 2	0 0	0	0		0 2	0	0	0	1
Phosphoric Acid	0 0	0 2	0	0		0 2	0	0	0	1
Formic Acid	0 0	0 0	0	0		0 0	1	2	2	1

Key: 0 = resistant - corrosion rate less than 100 µm/year
 1 = partly resistant - corrosion rate 100µ to 1000 µm/year
 2 = non resistant - corrosion rate more than 1000 µm/year

4.2 Atmospheric

The performance of SX 304 compared with other metals in various environments is shown in the following table. The corrosion rates are based on a 10 year exposure.

Environment	Corrosion Rate (µm/year)		
	SX 304	Aluminium-3S	Mild Steel
Rural	0.0025	0.025	5.8
Marine	0.0076	0.432	34.0
Marine Industrial	0.0076	0.686	46.2

Thermal Processing

1. **Annealing.** Heat from 1010°C to 1120°C and cool rapidly in air or water. The best corrosion resistance is obtained when the final annealing is above 1070°C and cooling is rapid.
2. **Stress relieving.** SX 304L can be stress relieved at 450-600°C for one hour with little danger of sensitisation. A lower stress relieving temperature of 400°C maximum must be used.
3. **Hot working**

Initial forging and pressing: 1150 to 1260°C

Finishing temperature: 900 to 925°C

All hotworking operations should be followed by annealing.

Note: Soaking times to ensure uniformity of temperature are longer for stainless steels than for carbon steels - approximately 12 times.

Cold Working

SX 304 / 304L being extremely tough and ductile, are readily fabricated by cold working. Typical operations include bending, forming, deep drawing and upsetting

All web comments to: [webmaster](#)
 Copyright Action Stainless Kwa Zulu Natal 2001 - 2011
[Disclaimer](#)

FASTENAL®

Image Not
Available

**Diameter = 3/4" Material = 304 S/S
Grade = (null) Thread Pitch = 10 tpi
Style = Rnd Bnd Inside Length = 24 "
Thread Length = 5 " J-Depth = 4.125 J-
Width = 4**

Price Not Available

Fastenal Approved Vendor

**Package Quantity: 1
(EA)**

Fastenal Part No. (SKU): 10229353

Manufacturer:

Fastenal
Approved
Vendor

Show Inventory Availability for
my local Fastenal store

I do not have an account with
Fastenal - show Inventory
Availability for Web Store

Check another store for
availability

**Quantity 1
x 1 (EA)**

Add to Cart

**This is not a standard
Fastenal.com product*

Product Details

Copyright © 2012 Fastenal Company. All Rights Reserved.



ARCADIS
6723 Towpath Road
P.O. Box 66
Syracuse
New York 13214-0066
Tel 315.446.9120
Fax 315.449.0017

REQUEST FOR INFORMATION REVIEW FORM

Request For Information Number:

RFI - 6

Project:

NYSEG – Court St.

Description:

**Concrete Collar Details – Slip Joint
Connections**

Date of Transmittal:

2/6/12

Reviewed By:

**Matt DeGracia B. Scott Cary
Jason Brien Andy Fraser**

Date:

2/9/12

Remarks:

1. The existing site conditions (i.e., existing 66" internal diameter [ID] sewer) do not preclude the use of Fernco™ couplings. The nominal diameter for a concrete pipe of this ID is 81" based on required pipe cross-section necessary to be self-supporting.
2. If AECOM cannot source the required Fernco™ couplers as specified in the design drawings, ARCADIS recommends AECOM submit an alternative product that functions similarly to that of the Fernco™ couple.
3. A plausible alternative product is described below:
 - a. At the pipe interface between new and existing pipe, install non-shrink grout to fill all void space as originally specified. Leave sight holes to verify full grout installation around the pipes annular gap.
 - b. Install an expanding adhesive cold joint waterstop at the interface between the existing pipe and the new HDPE.
 - c. Install a viton sheet material wrap over the joint interface lapping each pipe material by a minimum of 12-inches, and overlap (i.e., end-over-end) the viton sheet by a minimum of 12-inches. Seal the viton sheet at the overlap joint. The viton seam to be bonded will have to be prepped and cleaned per the manufacturers' recommendations.

The viton product can be purchased from Warco Biltrite (product code 75F2124 1/16thx36". Vendor Number 877-229-2726

The adhesive can be purchased from 3M, product code 3M™ Scotch-Weld™ Epoxy Kit No. 2 Vendor Number: 1-800-249-3333



- d. Install two band clamps over each pipe material interface. Band clamps can be daisy chained together to provide the lengths required to lap both pipes.

AECOM is requested to resubmit an alternative to the Fernco™ couple as presented in the design.



40 British American Boulevard
Latham, New York 12110
(518) 951- 2200

LETTER OF TRANSMITTAL

Date: February 6, 2012

To: Jason Brien
Arcadis
6723 Towpath Rd.
PO Box 66
Syracuse, NY 13214

Project No.: 60225086
Project Name: NYSEG Court St. – Sewer Replac.
Re: RFI #6 – Concrete Collar Details
Slip Joint Connection

WE ARE SENDING YOU:

<input checked="" type="checkbox"/> Attached or <input type="checkbox"/> Under separate cover via _____ the following items:			
<input type="checkbox"/> Shop Drawings	<input type="checkbox"/> Prints	<input type="checkbox"/> Plans	<input type="checkbox"/> Change Order
<input type="checkbox"/> Specifications	<input type="checkbox"/> Letters	<input type="checkbox"/> Samples	<input checked="" type="checkbox"/> Other – RFI
<input type="checkbox"/> Reports	<input type="checkbox"/> Applications	<input type="checkbox"/> Permits	Request Memo

ITEMS ATTACHED:

COPIES	DATE	NO.	DESCRIPTION
1	2/6/12		RFI #6 – Concrete Collar Details – Slip Joint Connection

THESE ARE TRANSMITTED AS CHECKED BELOW:

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<input type="checkbox"/> As requested	<input type="checkbox"/> Returned for corrections	<input type="checkbox"/> Return _____ corrected prints
<input type="checkbox"/> For review and comment	<input type="checkbox"/> For your signature	<input type="checkbox"/> Other
<input type="checkbox"/> FOR BIDS DUE _____		<input type="checkbox"/> PRINTS RETURNED AFTER LOAN TO US

REMARKS:

--

Copy to: Files

Signed:

Steve Beam

Project Manager



February 6, 2012

Mr. Jason Brien
Arcadis
6723 Towpath Road
Syracuse, NY 13214

Subject: RFI #6 – Concrete Collar Details – Slip Joint Connection

Dear Mr. Brien,

AECOM is requesting information regarding the slip joint connection between the 63" HDPE pipe and the existing concrete storm sewer pipe. Existing site conditions preclude the use of Fernco™ couplings. AECOM proposes to utilize swell seal and concrete collars that will be poured around the slip joint connections as shown on the attached drawing. Upon insertion of the 63" HDPE pipe into the existing concrete storm sewer pipe, swell seal will be use to form a watertight seal at each side of the slip joint. A three foot wide concrete collar centered on the outside slip joint will then be formed and poured around the slip joint connection. Please refer to the drawing below for further details.

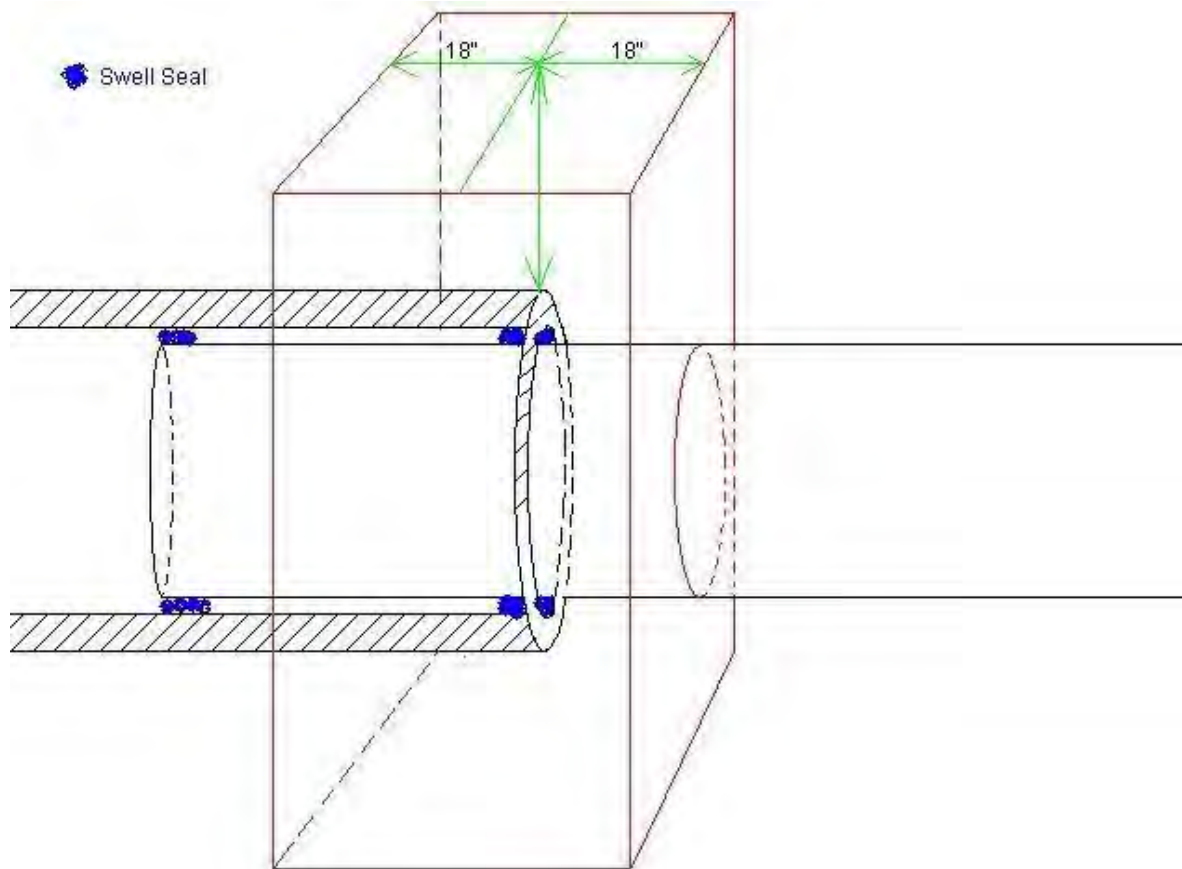
Please feel free to contact me at anytime should you have any questions or require any additional information.

Thanks

Yours sincerely,



Steve Beam
Project Manager
Stephen.beam@aecom.com



Drawing not to Scale



Appendix F

SPDES Permit Equivalent

(Compact Disk only)

New York State Department of Environmental Conservation

Division of Water

Bureau of Water Permits, 4th Floor

625 Broadway, Albany, New York 12233-3505

Phone: (518) 402-8111 • **Fax:** (518) 402-9029

Website: www.dec.ny.gov



Joe Martens
Commissioner

MEMORANDUM

TO: Amen Omorogbe, Section Chief
Section D, Remedial Bureau C, DER

FROM: Rashid Ahmed

SUBJECT: NYSEG Court Street Storm Sewer Replacement Project, Binghamton, New York
DER Site Number: 7-04-031
Receiving Water: Susquehanna River

DATE: October 12, 2011

In response to SPDES Permit Equivalent Application that ARCADIS of New York Inc. submitted to us on August 15, 2011, attached please find effluent limitations and monitoring requirements for the above noted remediation discharge.

The DOW does not have any regulatory authority over a discharge from a State, PRP, or Federal Superfund Site. DER will be responsible for ensuring compliance with the attached effluent limitations and monitoring requirements, and approval of all engineering submissions. Footnote 1 identifies the appropriate DER Section Chief as the place to send all effluent results, engineering submissions, and modification requests. The Regional Water Engineer should be kept appraised of the status of this discharge and, in accordance with the attached criteria, receive a copy of the effluent results for informational purposes.

If you have any questions, please call me at (518) 402 – 8272.

Attachment (Effluent Limitations and Monitoring Requirements)

cc: Regional Water Engineer (w/attach)
BWP Section Chief, DOW (w/attach)
Anthony Karwiel, DER (w/attach)

NYSEG Court Street Storm Sewer Replacement project
Binghamton, New York

Permit Equivalent Number: 7-04-031

EFFLUENT LIMITATIONS AND MONITORING REQUIREMENTS

During the period beginning: October 2011 and lasting until: March 31, 2012

the discharges from the treatment facility to Susquehanna River shall be limited and monitored by the operator as specified below:

Outfall and Parameter	Discharge Limitation		Units	Minimum Monitoring Requirements	
	Monthly Avg.	Daily Max.		Measurement Frequency	Sample Type
Outfall 001: Stormwater outfall that will be used to discharge the treated groundwater from the storm sewer replacement project to Susquehanna River					
Flow		0.72	MGD	Continuous	Meter
pH (range)	6.5 to 8.5		SU	1/day	Grab
Oil and Grease		15	mg/l	1/day	Grab
TSS		10	mg/l	1/day	Grab
Benzene		1	ug/l	1/week	Grab
Ethylbenzene		5	ug/l	1/week	Grab
Toluene		5	ug/l	1/week	Grab
Total Xylenes		5	ug/l	1/week	Grab
Acenaphthene		10	ug/l	1/week	Grab
Acenaphthylene		10	ug/l	1/week	Grab
Anthracene		10	ug/l	1/week	Grab
Benzo(a)anthracene		5	ug/l	1/week	Grab
Benzo(a)pyrene		5	ug/l	1/week	Grab
Benzo(b)fluoranthene		5	ug/l	1/week	Grab
Benzo(g,h,i)perylene		5	ug/l	1/week	Grab
Benzo(k)fluoranthene		5	ug/l	1/week	Grab
Biphenyl		5	ug/l	1/week	Grab
Chrysene		5	ug/l	1/week	Grab
Fluoranthene		10	ug/l	1/week	Grab
Fluorene		5	ug/l	1/week	Grab
Indeno(1,2,3-cd)pyrene		10	ug/l	1/week	Grab
Naphthalene		10	ug/l	1/week	Grab
Phenanthrene		10	ug/l	1/week	Grab
Pyrene		10	ug/l	1/week	Grab
Cyanide		60	ug/l	1/week	Grab
Aluminum		Monitor	mg/l	1/month	24-hr composite
Iron		Monitor	mg/l	1/month	24-hr composite
Cobalt		Monitor	mg/l	1/month	24-hr composite
Lead		Monitor	mg/l	1/month	24-hr composite
Manganese		Monitor	mg/l	1/month	24-hr composite

NYSEG Court Street Storm Sewer Replacement Project,

Site Number DER: 7-04-031

Additional Conditions:

- (1) Discharge is not authorized until such time as an engineering submission showing the method of treatment is approved by the Department. The discharge rate may not exceed the effective or design treatment system capacity. All monitoring data, engineering submissions and modification requests must be submitted to:

Section Chief, Section D, Remedial Bureau C
Division of Environmental Remediation
NYSDEC, 625 Broadway, Albany, New York 12233-7015
Phone: (518) 402-9662

With a copy sent to:
Department of Environmental Conservation
Regional Water Engineer
615 Erie Boulevard West
Syracuse, New York 13204-2400
Phone: 315 426-7500

- (2) Only site generated wastewater is authorized for treatment and discharge.
- (3) Authorization to discharge is valid only for the period noted above but may be renewed if appropriate. A request for renewal must be received 60 days prior to the expiration date to allow for a review of monitoring data and reassessment of monitoring requirements.
- (4) Any use of corrosion/scale inhibitors, biocidal-type compounds, or other water treatment chemicals used in the treatment process must be approved by the department prior to use.
- (5) This discharge and administration of this discharge must comply with the substantive requirements of 6NYCRR Part 750.



Appendix G

City of Binghamton Hydrant Permit

(Compact Disk only)

Has meter
Start reading

0471041001 Ser # 1335054 3"

PERMIT APPLICATION FOR PURCHASE OF

WATER FROM CITY OF BINGHAMTON HYDRANTS FOR CONTRACTORS

Company Name: AE com (Construction) Environment

Company Address: 5015 Campus Wood, E Syracuse NY

Responsible Individual (signature): [Signature]

Business Phone # 315-569-0474 Cell/Emergency # _____

Project/Purpose: Storm Sewer Main Replaced

Hydrant Location: 293 Court Street

Certification
Backflow Prevention Device Make/Model: Wilkins 3268716 dated 11/10/11 ^{2 inch}

(All tank facilities/hose connection must be equipped with an approved backflow preventer to prevent backflow and contamination.)

Permit Start Date: 11/10/11 Anticipated use dates: 11/10/11 - 4/1/12

Hydrant permit is only valid Monday-Friday unless otherwise noted above.

END 045407100 Copy of current DOH-1013 must be attached to all applications.

Indemnification and Release

Using a fire hydrant may cause soil erosion, damage to landscaping, curbs, streets and the hydrant itself. Therefore, the undersigned, individually and on behalf of the above Company, hereby agrees to indemnify and hold the City of Binghamton harmless against any and all damages, costs and expenses, including reasonable attorney's fees, which may be caused by his or her use of the fire hydrant or the failure to properly close the fire hydrant; and hereby releases the City of Binghamton from any and all damages, cost or expenses which the undersigned or the Company may incur regarding use of the fire hydrant.

Please sign: [Signature] Date: 11/10/11

Application Fee: \$ 40.00 Paid: \$ 71.90 check 757 Date: 11/10/11

Rates: First 1000 Cubic Feet \$ 31.90
Every 100 Cubic feet, thereafter \$ 2.99

Approved by the City of Binghamton Water Department

By: Debbie Nannery, Principal Clerk
(Title)

George Fisher - 315-569-11474

40.00
31.90
74.80 gals
\$71.90
Ed will supply meter
may make
connection
11/11

Report on Test and Maintenance of Backflow Prevention Device

PART A		Please use a separate form for each device.			For the year <u>2011</u> <input type="checkbox"/> Initial test - Complete entire form <input checked="" type="checkbox"/> Annual test - Complete Part A only	
Public Water Supply <u>City of Binghamton</u>		Account No.		County <u>Broome</u>	Block	Lot
Facility Name <u>AECOM</u>				Location of Device <u>HYDRANT RPL</u>		
Address <u>40 Beattish Avenue, Lathrop, NY 14110</u> Street City Zip				<u>373 COURT ST. Binghamton, NY</u>		
Device Information	Manufacturer <u>WILKINS</u>	Type <input checked="" type="checkbox"/> RPZ <input type="checkbox"/> PCV	Model <u>975XL</u>	Size (in inches) <u>2"</u>	Serial Number <u>3268716</u>	
Check Valve No. 1		Check Valve No. 2		Differential Pressure Relief Valve	Line Pressure <u>90</u> psi	
Test before repair	Leaked <input type="checkbox"/> Closed tight <input checked="" type="checkbox"/>	Leaked <input type="checkbox"/> Closed tight <input type="checkbox"/>	Opened at _____ psid		Date ____/____/____ M D Y	
	Pressure drop across first check valve _____ psid					
Describe repairs and materials used					Repaired by Name _____ Lic # _____ Date repaired: ____/____/____ M D Y	
Final test	Closed tight <input checked="" type="checkbox"/>	Closed tight <input checked="" type="checkbox"/>	Opened at <u>4.0</u> psid		Date <u>11</u> / <u>18</u> / <u>11</u> M D Y	
	Pressure drop across first check valve <u>0.1</u> psid					
Water Meter Number <u>3" 1355084</u>		Meter Reading <u>047104 [00]</u>		Type of Service: (check one) • Domestic • Fire • Other <u>Hydrant RPL</u>		
Remarks (Describe deficiencies: bypasses, outlets before the device, connections between the device and point of entry, missing or inadequate airgaps, etc.)						
Certification: This device <input checked="" type="checkbox"/> meets, • <input type="checkbox"/> does NOT meet, the requirements of an acceptable containment device at the time of testing I hereby certify the foregoing data to be correct. <u>9144</u> <u>Kenn SC</u> <u>15, 31, 2011</u> Print Name Certified Tester No. Signature Expiration Date						
Property owners (or owners agent) certification that test was performed: <u>George Fisher</u> <u>SSO</u> <u>[Signature]</u> <u>315 526 0474</u> Print Name Title Signature Telephone						

PART B		Certification that installation is in accordance with the approved plans.		(To be completed by the design engineer or architect or water supplier.)	
I hereby certify that this installation is in accordance with the approved plans.					
Name		Title		Date	NYS DOH Log #
License Number		Phone ()		m d y	
Representing		Describe minor installation changes			
Address					
City State Zip					
Signature					

NOTE: Send one completed copy to the designated health department representative and one copy to the water supplier within 30 days of the testing device.
Notify owner and water supplier immediately if device fails test and repairs cannot immediately be made.



Appendix H

Compaction Testing Reports

(Compact Disk only)



ATLANTIC TESTING LABORATORIES

SOIL REPORT ET2665S-01-12-11

CLIENT: AECOM
PROJECT: NYSEG Yard, Court Street
Binghamton, NY
CONTRACTOR: AECOM/Tioga Construction

DATE: December 20, 2011
ATL REPRESENTATIVE: R. Craig

Page 1 of
(Tuesday)

NUCLEAR DENSITY GAUGE DATA

Gauge Manufacturer: Troxler
Gauge Model No.: 3430
Gauge Serial No.: 21033

Moisture Standard: 633
Density Standard: 1956

FIELD INFORMATION

At the request of AECOM, nuclear moisture density testing was performed in accordance with ASTM D 2922 direct transmission and ASTM D 3017.

Density tests were performed on the select backfill material (ATL Sample No. ET2665S01) from Gorick's Construction, Nineveh, NY pit, placed and compacted as subbase beneath the manhole and storm line.

Project specifications require 95% of the maximum dry density, as determined by ASTM D 1557.

IN-PLACE FIELD DENSITY TEST RESULTS

Test No.	Test Location	Elevation	Optimum Moisture Content (%)	Maximum Dry Density (pcf)	Field Wet Density (pcf)	Field Moisture Content (%)	Field Dry Density (pcf)	Compaction (%)
1	4' NE of the center of MH1C	0.0'	5.3	144.4	130.2	5.3	123.7	86
2	5' SW of the center of MH1C	0.0'	5.3	144.4	130.6	6.0	123.2	85
3	25' S of the center of MH1C	0.0'	5.3	144.4	134.6	5.4	127.7	88
4	78' S of the center of MH1C	0.0'	5.3	144.4	145.0	6.2	136.5	95
5	Retest of Test No. 3	0.0'	5.3	144.4	137.8	5.9	130.1	90
6	Retest of Test No. 5	0.0'	5.3	144.4	145.1	6.0	136.9	95
7	Retest of Test No. 2	0.0'	5.3	144.4	145.4	6.3	136.8	95
8	Retest of Test No. 1	0.0'	5.3	144.4	144.5	5.8	136.6	95
9	145' S of the center of MH1C	0.0'	5.3	144.4	146.8	6.8	137.5	95
10	199' S of the center of MH1C	0.0'	5.3	144.4	136.3	6.3	128.2	89
11	Retest of Test No. 10	0.0'	5.3	144.4	146.9	6.7	137.7	95

REMARKS

Test elevations are referenced from top of subbase.

Mr. Ryan Green, representing AECOM, was informed of all observations and test results prior to departure from the site.

Reviewed by:

Date:

12/29/11



ATLANTIC TESTING LABORATORIES

SOIL REPORT ET2665S-02-01-12

CLIENT: AECOM
PROJECT: NYSEG Yard, Court Street
Binghamton, NY
CONTRACTOR: AECOM/Tioga Construction

DATE: January 10, 2012 (Tuesday)
ATL REPRESENTATIVE: C. Bushaw

NUCLEAR DENSITY GAUGE DATA

Gauge Manufacturer: Troxler
Gauge Model No.: 3430
Gauge Serial No.: 21033
Moisture Standard: 633
Density Standard: 1948

FIELD INFORMATION

At the request of AECOM, nuclear moisture density testing was performed in accordance with ASTM D 2922 direct transmission and ASTM D 3017.

Density tests were performed on the select backfill material (ATL Sample No. ET2665S01) from Gorick Construction, Nineveh, NY pit, placed and compacted as subbase above the manhole stormline.

Project specifications require 95% of the maximum dry density, as determined by ASTM D 1557.

IN-PLACE FIELD DENSITY TEST RESULTS

Test No.	Test Location	Elevation	Optimum Moisture Content (%)	Maximum Dry Density (pcf)	Field Wet Density (pcf)	Field Moisture Content (%)	Field Dry Density (pcf)	Compaction (%)
1	40' N of S end of manhole trench center	0.0'	5.3	144.4	146.9	6.7	137.7	95
2	10' N of S end of manhole trench center	-3.0'	5.3	144.4	146.8	6.9	137.3	95
3	30' N of S end of manhole trench center	0.0'	5.3	144.4	147.6	6.1	139.1	96
4	12' N of S end wall, 2' W of E side wall	-3.0'	5.3	144.4	149.8	5.4	142.1	98
5	16' N of S end wall, 3' E of W side wall	-3.0'	5.3	144.4	146.1	6.2	137.6	95
6	58' N of S end trench center	0.0'	5.3	144.4	148.2	6.5	139.2	96

REMARKS

Test elevations are referenced from top of subbase.

Mr. Ryan Green, representing AECOM, was informed of all observations and test results prior to departure from the site.

Reviewed by:

Date:

1/16/12



ATLANTIC TESTING LABORATORIES

SOIL REPORT ET2665S-04-01-12

CLIENT: AECOM
PROJECT: NYSEG Yard, Court Street
Binghamton, NY
CONTRACTOR: AECOM/Tioga Construction

DATE: January 20, 2012
ATL REPRESENTATIVE: J. Orzel

Page 1 of 2
(Friday)

NUCLEAR DENSITY GAUGE DATA

Gauge Manufacturer: InstronTek
Gauge Model No.: Xplorer 3500
Gauge Serial No.: 865

Moisture Standard: 825
Density Standard: 2500

FIELD INFORMATION

At the request of AECOM, nuclear moisture density testing was performed in accordance with ASTM D 2922 direct transmission and ASTM D 3017.

Density tests were performed on the select fill material (ATL Sample No. ET2665S01) from Gorick Construction, Nineveh, NY pit, placed and compacted as backfill above the storm line.

Project specifications require 95% of the maximum dry density, as determined by ASTM D 1557.

IN-PLACE FIELD DENSITY TEST RESULTS

Test No.	Test Location	Elevation	Optimum Moisture Content (%)	Maximum Dry Density (pcf)	Field Wet Density (pcf)	Field Moisture Content (%)	Field Dry Density (pcf)	Compaction (%)
1	40' N, 2' E of the S manhole	-12.0'	5.3	144.4	146.2	6.5	137.3	95
2	80' N, 2' E of the S manhole	-12.0'	5.3	144.4	146.8	6.8	137.5	95
3	80' N, 2' W of the S manhole	-12.0'	5.3	144.4	148.1	6.7	138.8	96
4	30' N, 2' W of the S manhole	-12.0'	5.3	144.4	147.4	5.9	139.2	96
5	50' N, 2' E of the S manhole	-11.0'	5.3	144.4	147.0	6.2	138.4	96
6	110' N, 2' E of the S manhole	-11.0'	5.3	144.4	146.5	5.7	138.6	96
7	60' N, 2' W of the S manhole	-11.0'	5.3	144.4	149.2	6.5	140.1	97
8	120' N, 2' W of the S manhole	-11.0'	5.3	144.4	148.0	6.5	139.0	96
9	160' N, 2' W of the S manhole	-11.0'	5.3	144.4	147.5	6.6	138.4	96
10	200' N, 2' W of the S manhole	-11.0'	5.3	144.4	148.2	6.5	139.2	96
11	150' N, 1' E of the S manhole	-11.0'	5.3	144.4	145.0	6.0	136.8	95
12	200' N, 2' E of the S manhole	-11.0'	5.3	144.4	146.5	6.1	138.1	96
13	45' N, 2' E of the S manhole	-10.0'	5.3	144.4	147.1	6.2	138.5	96
14	105' N, 2' E of the S manhole	-10.0'	5.3	144.4	144.8	5.6	137.1	95

IN-PLACE FIELD DENSITY TEST RESULTS

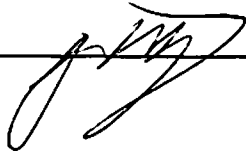
Test No.	Test Location	Elevation	Optimum Moisture Content (%)	Maximum Dry Density (pcf)	Field Wet Density (pcf)	Field Moisture Content (%)	Field Dry Density (pcf)	Compaction (%)
15	40' N, 2' W of the S manhole	-10.0'	5.3	144.4	149.2	6.3	140.4	97
16	90' N, 2' W of the S manhole	-10.0'	5.3	144.4	146.0	6.1	137.6	95
17	150' N, 2' W of the S manhole	-10.0'	5.3	144.4	147.8	6.2	139.2	96
18	160' N, 2' E of the S manhole	-10.0'	5.3	144.4	150.9	6.6	141.6	98
19	200' N, 1' E of the S manhole	-10.0'	5.3	144.4	146.4	7.2	136.6	95
20	205' N, 1' W of the S manhole	-10.0'	5.3	144.4	148.0	6.7	138.7	96

REMARKS

Test elevations are referenced from top of finish grade.

Mr. Ryan Green, representing AECOM, was informed of all observations and test results prior to departure from the site.

Reviewed by: _____



Date: _____

1/25/12



ATLANTIC TESTING LABORATORIES

SOIL REPORT ET2665S-03-01-12

CLIENT: AECOM
PROJECT: NYSEG Yard, Court Street
Binghamton, NY
CONTRACTOR: AECOM/Tioga Construction

DATE: January 19, 2012 (Wednesday)
ATL REPRESENTATIVE: H. Van Houten

NUCLEAR DENSITY GAUGE DATA

Gauge Manufacturer: Troxler
Gauge Model No.: 3411B
Gauge Serial No.: 13718
Moisture Standard: 618
Density Standard: 2082

FIELD INFORMATION

At the request of AECOM, nuclear moisture density testing was performed in accordance with ASTM D 2922 direct transmission and ASTM D 3017.

Density tests were performed on the select backfill material (ATL Sample No. ET2665S01) from Gorick Construction, Nineveh, NY pit, placed and compacted as backfill above manhole line.

Project specifications require 95% of the maximum dry density, as determined by ASTM D 1557.

IN-PLACE FIELD DENSITY TEST RESULTS

Test No.	Test Location	Elevation	Optimum Moisture Content (%)	Maximum Dry Density (pcf)	Field Wet Density (pcf)	Field Moisture Content (%)	Field Dry Density (pcf)	Compaction (%)
1	30' N, 2' E of S manhole	-12.0'	5.3	144.4	147.1	5.9	138.9	96
2	57' N, 2' W of S manhole	-12.0'	5.3	144.4	145.3	5.9	137.2	95

REMARKS

Test elevations are referenced from top of subgrade.

Mr. Ryan Green, representing AECOM, was informed of all observations and test results prior to departure from the site.

Reviewed by:

Date:

1/24/12



ATLANTIC TESTING LABORATORIES

SOIL REPORT ET2665S-05-01-12

Page 1 of 2

CLIENT: AECOM
PROJECT: NYSEG Yard, Court Street
Binghamton, NY
CONTRACTOR: AECOM/Tioga Construction

DATE: January 23, 2012
ATL REPRESENTATIVE: J. Orzel

(Monday)

NUCLEAR DENSITY GAUGE DATA

Gauge Manufacturer: InstroTek
Gauge Model No.: Xplorer 3500
Gauge Serial No.: 865

Moisture Standard: 828
Density Standard: 2502

FIELD INFORMATION

At the request of AECOM, nuclear moisture density testing was performed in accordance with ASTM D 2922 direct transmission and ASTM D 3017.

Density tests were performed on the select fill material (ATL Sample No. ET2665S01) from Gorick Construction, Nineveh, NY pit, placed and compacted as backfill above the storm water line.

Project specifications require 95% of the maximum dry density, as determined by ASTM D 1557.

IN-PLACE FIELD DENSITY TEST RESULTS

Test No.	Test Location	Elevation	Optimum Moisture Content (%)	Maximum Dry Density (pcf)	Field Wet Density (pcf)	Field Moisture Content (%)	Field Dry Density (pcf)	Compaction (%)
1	190' N, 2' E of the S end manhole	-9.0'	5.3	144.4	146.5	6.9	137.0	95
2	195' N, 2' W of the S end manhole	-9.0'	5.3	144.4	147.9	6.8	138.5	96
3	150' N, 2' E of the S end manhole	-9.0'	5.3	144.4	146.9	7.1	137.2	95
4	150' N, 2' W of the S end manhole	-9.0'	5.3	144.4	148.0	6.7	138.7	96
5	95' N, 2' W of the S end manhole	-9.0'	5.3	144.4	144.6	5.5	137.1	95
6	100' N, 2' E of the S end manhole	-9.0'	5.3	144.4	148.6	5.8	140.5	97
7	50' N, 2' E of the S end manhole	-9.0'	5.3	144.4	147.5	6.5	138.5	96
8	50' N, 1' W of the S end manhole	-9.0'	5.3	144.4	146.6	6.1	138.2	96
9	50' N, 3' W of the S end manhole	-8.0'	5.3	144.4	146.7	6.7	137.5	95
10	50' N, 1' E of the S end manhole	-8.0'	5.3	144.4	147.1	5.9	138.9	96
11	95' N, 3' E of the S end manhole	-8.0'	5.3	144.4	146.2	6.4	137.4	95
12	100' N, 2' W of the S end manhole	-8.0'	5.3	144.4	146.9	6.6	137.8	95
13	145' N, 2' W of the S end manhole	-8.0'	5.3	144.4	149.8	7.4	139.5	97
14	145' N, 2' E of the S end manhole	-8.0'	5.3	144.4	151.1	6.5	141.9	98
15	195' N, 2' E of the S end manhole	-8.0'	5.3	144.4	148.3	7.4	138.1	96

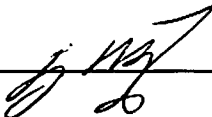
IN-PLACE FIELD DENSITY TEST RESULTS

Test No.	Test Location	Elevation	Optimum Moisture Content (%)	Maximum Dry Density (pcf)	Field Wet Density (pcf)	Field Moisture Content (%)	Field Dry Density (pcf)	Compaction (%)
16	200' N, 2' W of the S end manhole	-8.0'	5.3	144.4	148.0	6.7	138.7	96
17	195' N, 2' W of the S end manhole	-7.0'	5.3	144.4	151.6	6.8	141.9	98
18	195' N, 2' E of the S end manhole	-7.0'	5.3	144.4	148.2	7.8	137.5	95
19	150' N, 3' E of the S end manhole	-7.0'	5.3	144.4	146.5	5.7	138.6	96
20	150' N, 2' W of the S end manhole	-7.0'	5.3	144.4	147.3	7.0	137.7	95
21	100' N, 2' E of the S end manhole	-7.0'	5.3	144.4	148.5	7.2	138.5	96
22	100' N, 2' W of the S end manhole	-7.0'	5.3	144.4	146.2	6.8	136.9	95
23	50' N, 2' E of the S end manhole	-7.0'	5.3	144.4	150.8	7.5	140.3	97
24	50' N, 2 W of the S end manhole	-7.0'	5.3	144.4	149.1	7.3	139.0	96

REMARKS

Test elevations are referenced from top of finish grade.

Mr. Ryan Green, representing AECOM, was informed of all observations and test results prior to departure from the site.

Reviewed by:  Date: 2/2/12



ATLANTIC TESTING LABORATORIES

SOIL REPORT ET2665S-06-01-12

CLIENT: AECOM
PROJECT: NYSEG Yard, Court Street
Binghamton, NY
CONTRACTOR: AECOM/Tioga Construction

DATE: January 25, 2012 (Wednesday)
ATL REPRESENTATIVE: J. Orzel

NUCLEAR DENSITY GAUGE DATA

Gauge Manufacturer: InstroTek
Gauge Model No.: Xplorer 3500
Gauge Serial No.: 865

Moisture Standard: 830
Density Standard: 2510

FIELD INFORMATION

At the request of AECOM, nuclear moisture density testing was performed in accordance with ASTM D 2922 direct transmission and ASTM D 3017.

Density tests were performed on the select fill material (ATL Sample No. ET2665S01) from Gorick Construction, Nineveh, NY pit, placed and compacted as backfill above the storm water line.

Project specifications require 95% of the maximum dry density, as determined by ASTM D 1557.

IN-PLACE FIELD DENSITY TEST RESULTS

Test No.	Test Location	Elevation	Optimum Moisture Content (%)	Maximum Dry Density (pcf)	Field Wet Density (pcf)	Field Moisture Content (%)	Field Dry Density (pcf)	Compaction (%)
1	50' N, 1' E of the S manhole	-6.0'	5.3	144.4	146.2	7.0	136.6	95
2	100' N, 3' W of the S manhole	-6.0'	5.3	144.4	148.0	5.9	139.8	97
3	150' N, 2' E of the S manhole	-6.0'	5.3	144.4	146.9	6.2	138.3	96
4	200' N, 2' W of the S manhole	-6.0'	5.3	144.4	148.5	6.0	140.1	97
5	45' N, 2' W of the S manhole	-5.0'	5.3	144.4	145.8	6.4	137.0	95
6	110' N, 1' E of the S manhole	-5.0'	5.3	144.4	144.7	5.8	136.8	95
7	150' N, 2' W of the S manhole	-5.0'	5.3	144.4	146.1	5.5	138.5	96
8	200' N, 2' E of the S manhole	-5.0'	5.3	144.4	146.7	6.6	137.6	95

REMARKS

Test elevations are referenced from top of finish grade.

Mr. Ryan Green, representing AECOM, was informed of all observations and test results prior to departure from the site.

Reviewed by:

Date:

2/2/12



ATLANTIC TESTING LABORATORIES

SOIL REPORT ET2665S-08-01-12

CLIENT: AECOM
PROJECT: NYSEG Yard, Court Street
Binghamton, NY
CONTRACTOR: AECOM/Tioga Construction

DATE: January 26, 2012 (Thursday)
ATL REPRESENTATIVE: N. Fabrizio

NUCLEAR DENSITY GAUGE DATA

Gauge Manufacturer: InstronTek
Gauge Model No.: Xplorer 3500
Gauge Serial No.: 865

Moisture Standard: 833
Density Standard: 2805

FIELD INFORMATION

At the request of AECOM, nuclear moisture density testing was performed in accordance with ASTM D 2922 direct transmission and ASTM D 3017.

Density tests were performed on the select fill material from Gorick Construction, Nineveh, NY pit, placed and compacted as backfill above the storm water line.

The Maximum Dry Density and Optimum Moisture Content values for this material were provided by AECOM.

Project specifications require 95% of the maximum dry density, as determined by ASTM D 1557.

IN-PLACE FIELD DENSITY TEST RESULTS

Test No.	Test Location	Elevation	Optimum Moisture Content (%)	Maximum Dry Density (pcf)	Field Wet Density (pcf)	Field Moisture Content (%)	Field Dry Density (pcf)	Compaction (%)
1	50' N of S manhole	-2.0'	6.1	143.1	150.4	7.7	139.6	98
2	100' N of S manhole	-2.0'	6.1	143.1	151.0	7.5	140.5	98
3	150' N of S manhole	-2.0'	6.1	143.1	152.3	7.7	141.4	99
4	190' N of S manhole	-2.0'	6.1	143.1	153.1	7.3	142.7	100
5	50' N of S manhole	-1.0'	6.1	143.1	154.8	7.7	143.7	100
6	100' N of S manhole	-1.0'	6.1	143.1	155.2	8.2	143.4	100
7	150' N of S manhole	-1.0'	6.1	143.1	150.7	7.9	139.7	98
8	190' N of S manhole	-1.0'	6.1	143.1	151.7	7.8	140.7	98
9	50' N of S manhole	0.0'	6.1	143.1	151.9	7.9	140.8	98
10	100' N of S manhole	0.0'	6.1	143.1	154.9	8.7	142.5	100
11	150' N of S manhole	0.0'	6.1	143.1	153.2	8.6	141.1	99
12	190' N of S manhole	0.0'	6.1	143.1	151.4	8.2	139.9	98

REMARKS

Test elevations are referenced from top of finish grade.

Mr. Ryan Green, representing AECOM, was informed of all observations and test results prior to departure from the site.

Reviewed by:

Date:

2/2/12



ATLANTIC TESTING LABORATORIES

SOIL REPORT ET2665S-07-01-12

CLIENT: AECOM
PROJECT: NYSEG Yard, Court Street
Binghamton, NY
CONTRACTOR: AECOM/Tioga Construction

DATE: January 25, 2012 (Wednesday)
ATL REPRESENTATIVE: J. Orzel

NUCLEAR DENSITY GAUGE DATA

Gauge Manufacturer: InstroTek
Gauge Model No.: Xplorer 3500
Gauge Serial No.: 865

Moisture Standard: 830
Density Standard: 2510

FIELD INFORMATION

At the request of AECOM, nuclear moisture density testing was performed in accordance with ASTM D 2922 direct transmission and ASTM D 3017.

Density tests were performed on the select fill material from Gorick Construction, Nineveh, NY pit, placed and compacted as backfill above the storm water line.

The Maximum Dry Density and Optimum Moisture Content values for this material were provided by AECOM.

Project specifications require 95% of the maximum dry density, as determined by ASTM D 1557.

IN-PLACE FIELD DENSITY TEST RESULTS

Test No.	Test Location	Elevation	Optimum Moisture Content (%)	Maximum Dry Density (pcf)	Field Wet Density (pcf)	Field Moisture Content (%)	Field Dry Density (pcf)	Compaction (%)
1	50' N of the S manhole	-4.0'	6.1	143.1	148.5	8.4	137.0	96
2	100' N, 2' W of the S manhole	-4.0'	6.1	143.1	148.2	8.2	137.0	96
3	150' N, 2' E of the S manhole	-4.0'	6.1	143.1	146.8	7.8	136.2	95
4	200' N of the S manhole	-4.0'	6.1	143.1	149.0	8.0	138.0	96
5	50' N of the S manhole	-3.0'	6.1	143.1	146.7	8.2	135.6	95
6	100' N, 2' E of the S manhole	-3.0'	6.1	143.1	152.6	7.7	141.7	99
7	150' N, 2' W of the S manhole	-3.0'	6.1	143.1	150.8	8.4	139.1	97
8	190' N of the S manhole	-3.0'	6.1	143.1	150.2	8.0	139.1	97

REMARKS

Test elevations are referenced from top of finish grade.

Mr. Ryan Green, representing AECOM, was informed of all observations and test results prior to departure from the site.

Reviewed by:

Date:

2/2/12



ATLANTIC TESTING LABORATORIES

SOIL REPORT ET2665S-09-01-12

Page 1 of 2

CLIENT: AECOM
PROJECT: NYSEG Yard, Court Street
Binghamton, NY
CONTRACTOR: AECOM/Tioga Construction

DATE: January 30, 2012 (Monday)
ATL REPRESENTATIVE: N. Fabrizio

NUCLEAR DENSITY GAUGE DATA

Gauge Manufacturer: Troxler
Gauge Model No.: 3411B
Gauge Serial No.: 14588

Moisture Standard: 698
Density Standard: 1820

FIELD INFORMATION

At the request of AECOM, nuclear moisture density testing was performed in accordance with ASTM D 2922 direct transmission and ASTM D 3017.

Density tests were performed on the select fill material (ATL Sample No. ET2665S01) from Gorick Construction, Nineveh, NY pit, and on the select fill material from Gorick Construction, Nineveh, NY pit, placed and compacted as backfill above the storm water line.

The Maximum Dry Density and Optimum Moisture Content values for this material were provided by AECOM.

Project specifications require 95% of the maximum dry density, as determined by ASTM D 1557.

IN-PLACE FIELD DENSITY TEST RESULTS

Test No.	Test Location	Elevation	Optimum Moisture Content (%)	Maximum Dry Density (pcf)	Field Wet Density (pcf)	Field Moisture Content (%)	Field Dry Density (pcf)	Compaction (%)
Center line of S manhole (tests 1 & 2)/5' S of N manhole wall E/W of pipe (tests 3-16)								
1	50' N of S manhole	+1'-0"	6.1	143.1	152.5	7.9	141.3	99
2	100' n of S manhole	+1'-0"	6.1	143.1	149.5	8.6	137.7	96
3	E of pipe	-11'-0"	5.3	144.4	151.7	6.6	142.3	99
4	W of pipe	-11'-0"	5.3	144.4	149.3	6.2	140.6	97
5	W of pipe	-10'-0"	5.3	144.4	145.6	6.1	137.2	95
5' S of N manhole wall E/W of pipe (tests 3-16)								
6	E of pipe	-10'-0"	5.3	144.4	145.4	5.3	138.1	96
7	E of pipe	-9'-0"	5.3	144.4	146.8	5.5	139.1	96
8	W of pipe	-9'-0"	5.3	144.4	145.2	5.8	137.2	95
9	E of pipe	-8'-0"	5.3	144.4	147.6	6.2	139.0	96
10	W of pipe	-8'-0"	5.3	144.4	150.6	7.4	140.2	97
11	E of pipe	-7'-0"	5.3	144.4	148.5	7.1	138.7	96
12	E of pipe	-6'-0"	5.3	144.4	148.2	8.1	137.1	95
13	W of pipe	-7'-0"	5.3	144.4	148.0	6.9	138.5	96
14	E of pipe	-5'-0"	5.3	144.4	150.3	5.9	141.8	98
15	W of pipe	-6'-0"	5.3	144.4	147.7	6.0	139.3	96
16	W of pipe	-5'-0"	5.3	144.4	148.0	7.3	137.9	96
Test location 5' N of S manhole E/W of pipe (tests 17-34)								
17	W of pipe	-13'-0"	5.3	144.4	150.7	6.4	141.6	98
18	E of pipe	-13'-0"	5.3	144.4	144.6	5.9	136.5	95
19	W of pipe	-12'-0"	5.3	144.4	150.8	5.8	142.5	99
20	E of pipe	-12'-0"	5.3	144.4	147.8	6.2	139.2	96
21	W of pipe	-11'-0"	5.3	144.4	146.3	6.6	137.2	95
22	E of pipe	-11'-0"	5.3	144.4	148.3	6.5	139.2	96
23	W of pipe	-10'-0"	5.3	144.4	148.1	6.4	139.2	96

IN-PLACE FIELD DENSITY TEST RESULTS

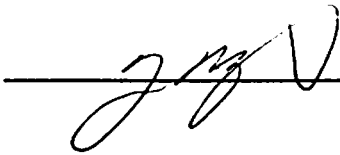
Test No.	Test Location	Elevation	Optimum Moisture Content (%)	Maximum Dry Density (pcf)	Field Wet Density (pcf)	Field Moisture Content (%)	Field Dry Density (pcf)	Compaction (%)
Test location 5' N of S manhole E/W of pipe (tests 17-34)								
24	E of pipe	-10'-0"	5.3	144.4	146.6	7.0	137.0	95
25	W of pipe	-9'-0"	5.3	144.4	145.9	6.1	137.5	95
26	E of pipe	-9'-0"	5.3	144.4	146.1	6.7	136.9	95
27	W of pipe	-8'-0"	5.3	144.4	144.9	5.3	137.6	95
28	E of pipe	-8'-0"	5.3	144.4	146.3	6.2	137.8	95
29	E of pipe	-7'-0"	5.3	144.4	148.6	7.0	138.9	96
30	W of pipe	-7'-0"	5.3	144.4	148.0	7.1	138.2	96
31	E of pipe	-6'-0"	5.3	144.4	153.0	7.1	140.3	97
32	W of pipe	-6'-0"	5.3	144.4	146.3	5.9	138.1	96
33	E of pipe	-5'-0"	5.3	144.4	146.1	6.3	137.4	95
34	W of pipe	-5'-0"	5.3	144.4	148.8	7.0	139.1	96

REMARKS

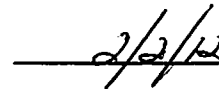
Test elevations are referenced from 3' above all/finished.

Mr. Ryan Green, representing AECOM, was informed of all observations and test results prior to departure from the site.

Reviewed by:



Date:





Appendix I

Concrete Testing Results

(Compact Disk only)



ATLANTIC TESTING LABORATORIES

CONCRETE REPORT ET2665C-01A-12-11

CLIENT: AECOM
PROJECT: NYSEG Court Street
(location) Binghamton, NY
CONTRACTOR: Tioga
PLACEMENT LOCATION: Manhole No. 1C

PLACEMENT DATE: December 22, 2011 (Thursday)
ATL REPRESENTATIVE: R. Lupold
SUPPLIER: C & C Ready Mix Corp.
PLANT LOCATION: Vestal, NY

MIX DESIGN DATA

MIX DATA OBTAINED FROM: Supplier
DESIGN STRENGTH AT 28 DAYS: 4000 psi
PER cy: CEMENT (lbs): 564
WATER (gals): 32.0
FINE AGG. (lbs): 1320
#1 COARSE AGG. (lbs): 450
#2 COARSE AGG. (lbs): 1300
AEA (oz): 1.0
WRA (oz): 4.0

Mix Designation: 060
CEMENT BRAND: ESSROC Cement – Type I/II
W/CM RATIO: Not Provided
FINE AGG. SOURCE: F.S. Lopke, Inc. – Owego, NY
COARSE AGG. SOURCE: F.S. Lopke, Inc. – Owego, NY
COARSE AGG. SOURCE: F.S. Lopke, Inc. – Owego, NY
AEA BRAND: BASF Chemical Co. – MBVR Std
WRA BRAND: BASF Chemical Co. – Polyheed 997

FIELD INFORMATION

At the request of AECOM, concrete testing was performed. Field testing was performed in accordance with the following ASTM methods: C 31, C 143, C 172, C 231 and C 1064.

Truck No.	Batch Time	Time Sampled	Finish Time	Air (%)	Slump (in)	Concrete Temp. (°F)	Air Temp. at the Point of Placement (°F)	Truck Volume (cy)	Water Added In Field (gal/cy)	Number of Cylinders Fabricated
57	12:18	1:00	1:45	5.6	3	66	46	8 1/2	0.0	4

Total Concrete Placed: 8 1/2 cy Total Concrete Tested: 8 1/2 cy Total Concrete Rejected: 0 cy

LABORATORY DATA (ASTM C 39, C 511, and C 1231)

Cylinder Number	Truck Number	Density (pcf)	Date of Test	Age (days)	Cylinder Diameter (in)	Cylinder Area (in ²)	Fracture Type (1-6)	Total Load (lbs)	Unit Load (psi)	Sample Location
2665C-01	57	147	12-29	7	5.99	28.18	2	115,170	4090	Bottom 1/3 of Manhole No. 1C
2665C-02				28						
2665C-03				28						
2665C-04				Hold						

REMARKS

The initial curing was performed outside the structure and the cylinders were covered with removable plastic lids. The final curing was performed in tanks filled with lime saturated water.

Cylinders were received on December 23, 2011.

Densities are approximate and are calculated based on cylinder weights and volumes determined in the laboratory.

Mr. Ryan Green, representing AECOM, was informed of all observations and test results prior to departure from the site.

Reviewed by:

Date:

1/5/12



ATLANTIC TESTING LABORATORIES

CONCRETE REPORT ET2665C-02A-01-12

CLIENT: AECOM
PROJECT: NYSEG Court Street
(location) Binghamton, NY
CONTRACTOR: Tioga
PLACEMENT LOCATION: Collar for cutoff wall manhole no. 1C

PLACEMENT DATE: January 9, 2012 (Monday)
ATL REPRESENTATIVE: J. Orzel
SUPPLIER: C & C Ready Mix Corp.
PLANT LOCATION: Vestal, NY

MIX DESIGN DATA

MIX DATA OBTAINED FROM: Supplier

Mix Designation: 060

DESIGN STRENGTH AT 28 DAYS: 4000 psi

PER cy: CEMENT (lbs): 564
WATER (gals): 32.0
FINE AGG. (lbs): 1320
#1 COARSE AGG. (lbs): 450
#2 COARSE AGG. (lbs): 1300
AEA (oz): 1.0
WRA (oz): 4.0

CEMENT BRAND: ESSROC Cement – Type I/II
W/CM RATIO: Not Provided
FINE AGG. SOURCE: F.S. Lopke, Inc. – Owego, NY
COARSE AGG. SOURCE: F.S. Lopke, Inc. – Owego, NY
COARSE AGG. SOURCE: F.S. Lopke, Inc. – Owego, NY
AEA BRAND: BASF Chemical Co. – MBVR Std
WRA BRAND: BASF Chemical Co. – Polyheed 997

FIELD INFORMATION

At the request of AECOM, concrete testing was performed. Field testing was performed in accordance with the following ASTM methods: C 31, C 143, C 172, C 231 and C 1064.

Truck No.	Batch Time	Time Sampled	Finish Time	Air (%)	Slump (in)	Concrete Temp. (°F)	Air Temp. at the Point of Placement (°F)	Truck Volume (cy)	Water Added In Field (gal/cy)	Number of Cylinders Fabricated
18	12:23	1:15	1:45	5.0	2 1/2	68	42	7 1/2	0.0	4

Total Concrete Placed: 7 1/2 cy Total Concrete Tested: 7 1/2 cy Total Concrete Rejected: 0 cy

LABORATORY DATA (ASTM C 39, C 511, and C 1231)

Cylinder Number	Truck Number	Density (pcf)	Date of Test	Age (days)	Cylinder Diameter (in)	Cylinder Area (in ²)	Fracture Type (1-6)	Total Load (lbs)	Unit Load (psi)	Sample Location
2665C-05	18	147	01-16	7	5.98	28.09	3	116,120	4130	Collar for cutoff wall manhole no. 1C
2665C-06				28						
2665C-07				28						
2665C-08				Hold						

REMARKS

The initial curing was performed outside the structure and the cylinders were covered with removable plastic lids. The final curing was performed in tanks filled with lime saturated water.

Cylinders were received on January 10, 2012.

Densities are approximate and are calculated based on cylinder weights and volumes determined in the laboratory.

Mr. Ryan Green, representing AECOM, was informed of all observations and test results prior to departure from the site.

Reviewed by:

Date:

1/16/12



ATLANTIC TESTING LABORATORIES

CONCRETE REPORT ET2665C-03A-01-12

CLIENT: AECOM
PROJECT: NYSEG Court Street
(location) Binghamton, NY
CONTRACTOR: Tioga
PLACEMENT LOCATION: Manhole 1B base

PLACEMENT DATE: January 11, 2012 (Wednesday)
ATL REPRESENTATIVE: J. Orzel
SUPPLIER: C & C Ready Mix Corp.
PLANT LOCATION: Vestal, NY

MIX DESIGN DATA

MIX DATA OBTAINED FROM: Supplier Mix Designation: 060
DESIGN STRENGTH AT 28 DAYS: 4000 psi
PER cy: CEMENT (lbs): 564 CEMENT BRAND: ESSROC Cement – Type I/II
WATER (gals): 32.0 W/CM RATIO: Not Provided
FINE AGG. (lbs): 1320 FINE AGG. SOURCE: F.S. Lopke, Inc. – Owego, NY
#1 COARSE AGG. (lbs): 450 COARSE AGG. SOURCE: F.S. Lopke, Inc. – Owego, NY
#2 COARSE AGG. (lbs): 1300 COARSE AGG. SOURCE: F.S. Lopke, Inc. – Owego, NY
AEA (oz): 1.0 AEA BRAND: BASF Chemical Co. – MBVR Std
WRA (oz): 4.0 WRA BRAND: BASF Chemical Co. – Polyheed 997

FIELD INFORMATION

At the request of AECOM, concrete testing was performed. Field testing was performed in accordance with the following ASTM methods: C 31, C 143, C 172, C 231 and C 1064.

Truck No.	Batch Time	Time Sampled	Finish Time	Air (%)	Slump (in)	Concrete Temp. (°F)	Air Temp. at the Point of Placement (°F)	Truck Volume (cy)	Water Added In Field (gal/cy)	Number of Cylinders Fabricated
57	2:28	3:00	3:15	5.9	3	70	42	8 1/2	0.0	4

Total Concrete Placed: 8 1/2 cy Total Concrete Tested: 8 1/2 cy Total Concrete Rejected: 0 cy

LABORATORY DATA (ASTM C 39, C 511, and C 1231)

Cylinder Number	Truck Number	Density (pcf)	Date of Test	Age (days)	Cylinder Diameter (in)	Cylinder Area (in ²)	Fracture Type (1-6)	Total Load (lbs)	Unit Load (psi)	Sample Location
2665C-09	57	143	01-18	7	6.00	28.27	3	99,690	3530	Manhole 1B base
2665C-10				28						
2665C-11				28						
2665C-12				Hold						

REMARKS

The initial curing was performed outside the structure and the cylinders were covered with removable plastic lids. The final curing was performed in tanks filled with lime saturated water.

Cylinders were received on January 12, 2012.

Densities are approximate and are calculated based on cylinder weights and volumes determined in the laboratory.

Mr. Ryan Green, representing AECOM, was informed of all observations and test results prior to departure from the site.

Reviewed by: _____

Date: _____

1/19/12



ATLANTIC TESTING LABORATORIES

CONCRETE REPORT ET2665C-01B-12-11

CLIENT: AECOM
PROJECT: NYSEG Court Street
(location) Binghamton, NY
CONTRACTOR: Tioga
PLACEMENT LOCATION: Manhole No. 1C

PLACEMENT DATE: December 22, 2011 (Thursday)
ATL REPRESENTATIVE: R. Lupold
SUPPLIER: C & C Ready Mix Corp.
PLANT LOCATION: Vestal, NY

MIX DESIGN DATA

MIX DATA OBTAINED FROM: Supplier
DESIGN STRENGTH AT 28 DAYS: 4000 psi
PER cy: CEMENT (lbs): 564
WATER (gals): 32.0
FINE AGG. (lbs): 1320
#1 COARSE AGG. (lbs): 450
#2 COARSE AGG. (lbs): 1300
AEA (oz): 1.0
WRA (oz): 4.0

Mix Designation: 060
CEMENT BRAND: ESSROC Cement – Type I/II
W/CM RATIO: Not Provided
FINE AGG. SOURCE: F.S. Lopke, Inc. – Owego, NY
COARSE AGG. SOURCE: F.S. Lopke, Inc. – Owego, NY
COARSE AGG. SOURCE: F.S. Lopke, Inc. – Owego, NY
AEA BRAND: BASF Chemical Co. – MBVR Std
WRA BRAND: BASF Chemical Co. – Polyheed 997

FIELD INFORMATION

At the request of AECOM, concrete testing was performed. Field testing was performed in accordance with the following ASTM methods: C 31, C 143, C 172, C 231 and C 1064.

Truck No.	Batch Time	Time Sampled	Finish Time	Air (%)	Slump (in)	Concrete Temp. (°F)	Air Temp. at the Point of Placement (°F)	Truck Volume (cy)	Water Added In Field (gal/cy)	Number of Cylinders Fabricated
57	12:18	1:00	1:45	5.6	3	66	46	8 1/2	0.0	4

Total Concrete Placed: 8 1/2 cy Total Concrete Tested: 8 1/2 cy Total Concrete Rejected: 0 cy

LABORATORY DATA (ASTM C 39, C 511, and C 1231)

Cylinder Number	Truck Number	Density (pcf)	Date of Test	Age (days)	Cylinder Diameter (in)	Cylinder Area (in ²)	Fracture Type (1-6)	Total Load (lbs)	Unit Load (psi)	Sample Location
2665C-01	57	147	12-29	7	5.99	28.18	2	115,170	4090	Bottom 1/3 of Manhole No. 1C
2665C-02			01-19	28	5.99	28.18	5	157,610	5590	
2665C-03			01-19	28	5.99	28.18	5	158,550	5630	
2665C-04				Hold						

REMARKS

The initial curing was performed outside the structure and the cylinders were covered with removable plastic lids. The final curing was performed in tanks filled with lime saturated water.

Cylinders were received on December 23, 2011.

Densities are approximate and are calculated based on cylinder weights and volumes determined in the laboratory.

Mr. Ryan Green, representing AECOM, was informed of all observations and test results prior to departure from the site.

Reviewed by:

Date:

1/25/12



ATLANTIC TESTING LABORATORIES

CONCRETE REPORT ET2665C-04A-01-12

CLIENT: AECOM
PROJECT: NYSEG Court Street
(location) Binghamton, NY
CONTRACTOR: Tioga Construction
PLACEMENT LOCATION: Water stop wall: S end

PLACEMENT DATE: January 12, 2012 (Thursday)
ATL REPRESENTATIVE: C. Bushaw
SUPPLIER: C & C Ready Mix Corp.
PLANT LOCATION: Vestal, NY

MIX DESIGN DATA

MIX DATA OBTAINED FROM: Supplier Mix Designation: 060
DESIGN STRENGTH AT 28 DAYS: 4000 psi
PER cy: CEMENT (lbs): 564 CEMENT BRAND: ESSROC Cement – Type I/II
WATER (gals): 32.0 W/CM RATIO: Not Provided
FINE AGG. (lbs): 1320 FINE AGG. SOURCE: F.S. Lopke, Inc. – Owego, NY
#1 COARSE AGG. (lbs): 450 COARSE AGG. SOURCE: F.S. Lopke, Inc. – Owego, NY
#2 COARSE AGG. (lbs): 1300 COARSE AGG. SOURCE: F.S. Lopke, Inc. – Owego, NY
AEA (oz): 1.0 AEA BRAND: BASF Chemical Co. – MBVR Std
WRA (oz): 4.0 WRA BRAND: BASF Chemical Co. – Polyheed 997

FIELD INFORMATION

At the request of AECOM, concrete testing was performed. Field testing was performed in accordance with the following ASTM methods: C 31, C 143, C 172, C 231 and C 1064.

Truck No.	Batch Time	Time Sampled	Finish Time	Air (%)	Slump (in)	Concrete Temp. (°F)	Air Temp. at the Point of Placement (°F)	Truck Volume (cy)	Water Added In Field (gal/cy)	Number of Cylinders Fabricated
22	10:19	11:00	11:23	6.2	2 3/4	67	47	7	0.0	4

Total Concrete Placed: 7 cy Total Concrete Tested: 7 cy Total Concrete Rejected: 0 cy

LABORATORY DATA (ASTM C 39, C 511, and C 1231)

Cylinder Number	Truck Number	Density (pcf)	Date of Test	Age (days)	Cylinder Diameter (in)	Cylinder Area (in ²)	Fracture Type (1-6)	Total Load (lbs)	Unit Load (psi)	Sample Location
2665C-13	22	144	01-19	7	5.98	28.09	5	95,290	3390	E end of S water stop wall
2665C-14				28						
2665C-15				28						
2665C-16				Hold						

REMARKS

The initial curing was performed outside the structure and the cylinders were covered with removable plastic lids. The final curing was performed in tanks filled with lime saturated water.

Cylinders were received on January 13, 2012.

Densities are approximate and are calculated based on cylinder weights and volumes determined in the laboratory.

Mr. Ryan Green, representing AECOM, was informed of all observations and test results prior to departure from the site.

Reviewed by:  Date: 1/25/12



ATLANTIC TESTING LABORATORIES

CONCRETE REPORT ET2665C-05A-01-12

CLIENT: AECOM
PROJECT: NYSEG Court Street
(location) Binghamton, NY
CONTRACTOR: Tioga Construction
PLACEMENT LOCATION: Manhole 1C base

PLACEMENT DATE: January 13, 2012 (Friday)
ATL REPRESENTATIVE: C. Bushaw
SUPPLIER: C & C Ready Mix Corp.
PLANT LOCATION: Vestal, NY

MIX DESIGN DATA

MIX DATA OBTAINED FROM: ^(v)
DESIGN STRENGTH AT 28 DAYS: 2500 psi
Mix Designation: 011

FIELD INFORMATION

At the request of AECOM, concrete testing was performed. Field testing was performed in accordance with the following ASTM methods: C 31, C 143, C 172, C 231 and C 1064.

Truck No.	Batch Time	Time Sampled	Finish Time	Air (%)	Slump (in)	Concrete Temp. (°F)	Air Temp. at the Point of Placement (°F)	Truck Volume (cy)	Water Added In Field (gal/cy)	Number of Cylinders Fabricated
24	7:32	8:15	8:40	5.2	1 1/2	67	36	5	0.0	4

Total Concrete Placed: 5 cy Total Concrete Tested: 5 cy Total Concrete Rejected: 0 cy

LABORATORY DATA (ASTM C 39, C 511, and C 1231)

Cylinder Number	Truck Number	Density (pcf)	Date of Test	Age (days)	Cylinder Diameter (in)	Cylinder Area (in ²)	Fracture Type (1-6)	Total Load (lbs)	Unit Load (psi)	Sample Location
2665C-17	24	147	01-20	7	5.98	28.09	5	101,320	3610	Manhole 1C base
2665C-18				28						
2665C-19				28						
2665C-20				Hold						

REMARKS

The initial curing was performed outside the structure and the cylinders were covered with removable plastic lids. The final curing was performed in tanks filled with lime saturated water.

Cylinders were received on January 16, 2012.

Densities are approximate and are calculated based on cylinder weights and volumes determined in the laboratory.

^(v) An approved mix design was not available prior to placement.

Mr. Ryan Green, representing AECOM, was informed of all observations and test results prior to departure from the site.

Reviewed by:  Date: 1/25/12



ATLANTIC TESTING LABORATORIES

CONCRETE REPORT ET2665C-06A-01-12

CLIENT: AECOM
PROJECT: NYSEG Court Street
(location) Binghamton, NY
CONTRACTOR: Tioga Construction
PLACEMENT LOCATION: Manhole 1C spillway phase 2

PLACEMENT DATE: January 17, 2012 (Tuesday)
ATL REPRESENTATIVE: J. Orzel
SUPPLIER: C & C Ready Mix Corp.
PLANT LOCATION: Vestal, NY

MIX DESIGN DATA

MIX DATA OBTAINED FROM: ^(v)

Mix Designation: 030

DESIGN STRENGTH AT 28 DAYS: Class A

FIELD INFORMATION

At the request of AECOM, concrete testing was performed. Field testing was performed in accordance with the following ASTM methods: C 31, C 143, C 172, C 231 and C 1064.

Truck No.	Batch Time	Time Sampled	Finish Time	Air (%)	Slump (in)	Concrete Temp. (°F)	Air Temp. at the Point of Placement (°F)	Truck Volume (cy)	Water Added In Field (gal/cy)	Number of Cylinders Fabricated
57	12:04	12:35	1:10	6.0	3 1/4	68	39	5	1.0	4

Total Concrete Placed: 5 cy Total Concrete Tested: 5 cy Total Concrete Rejected: 0 cy

LABORATORY DATA (ASTM C 39, C 511, and C 1231)

Cylinder Number	Truck Number	Density (pcf)	Date of Test	Age (days)	Cylinder Diameter (in)	Cylinder Area (in ²)	Fracture Type (1-6)	Total Load (lbs)	Unit Load (psi)	Sample Location
2665C-21	57	141	01-24	7	6.00	28.27	3	81,580	2890	Manhole 1C spillway phase 2
2665C-22				28						
2665C-23				28						
2665C-24				Hold						

REMARKS

The initial curing was performed outside the structure and the cylinders were covered with removable plastic lids. The final curing was performed in tanks filled with lime saturated water.

Cylinders were received on January 18, 2012.

Densities are approximate and are calculated based on cylinder weights and volumes determined in the laboratory.

^(v) An approved mix design was not available prior to placement.

A representative of Tioga Construction was informed of all observations and test results prior to departure from the site.

Reviewed by:

Date:

1/26/12



ATLANTIC TESTING LABORATORIES

CONCRETE REPORT ET2665C-08B-01-12

CLIENT: AECOM

PROJECT: NYSEG Court Street
(location) Binghamton, NY

CONTRACTOR: Tioga Construction

PLACEMENT LOCATION: Manhole 1B (south) north collar

PLACEMENT DATE: January 27, 2012 (Friday)

ATL REPRESENTATIVE: H. Van Houten

SUPPLIER: C & C Ready Mix Corp.

PLANT LOCATION: Vestal, NY

MIX DESIGN DATA

MIX DATA OBTAINED FROM: Client

Mix Designation: 060

DESIGN STRENGTH AT 28 DAYS: 4000 psi

PER cy: CEMENT (lbs): 564

WATER (gals): 32.0

FINE AGG. (lbs): 1320

#1 COARSE AGG. (lbs): 450

#2 COARSE AGG. (lbs): 1300

AEA (oz): 1.0

WRA (oz): 4.0

CEMENT BRAND:

ESSROC Cement – Type I/II

W/CM RATIO:

Not Provided

FINE AGG. SOURCE:

F.S. Lopke, Inc. – Owego, NY

COARSE AGG. SOURCE:

F.S. Lopke, Inc. – Owego, NY

COARSE AGG. SOURCE:

F.S. Lopke, Inc. – Owego, NY

AEA BRAND:

BASF Chemical Co. – MBVR Std

WRA BRAND:

BASF Chemical Co. – Polyheed 997

FIELD INFORMATION

At the request of AECOM, concrete testing was performed. Field testing was performed in accordance with the following ASTM methods: C 31, C 143, C 172, C 231 and C 1064.

Truck No.	Batch Time	Time Sampled	Finish Time	Air (%)	Slump (in)	Concrete Temp. (°F)	Air Temp. at the Point of Placement (°F)	Truck Volume (cy)	Water Added In Field (gal/cy)	Number of Cylinders Fabricated
55	8:52	9:55	10:18	6.0	2	65	45	9	0.3	6
57	9:24	10:25	10:45	5.8	1 3/4	66	45	7	0.3	0
66	9:39	11:20	11:09	5.5	1 1/2	65	45	7	0.3	0

Total Concrete Placed: 23 cy Total Concrete Tested: 23 cy Total Concrete Rejected: 0 cy

LABORATORY DATA (ASTM C 39, C 511, and C 1231)

Cylinder Number	Truck Number	Density (pcf)	Date of Test	Age (days)	Cylinder Diameter (in)	Cylinder Area (in ²)	Fracture Type (1-6)	Total Load (lbs)	Unit Load (psi)	Sample Location
2665C-29	55	149	01-30	3	5.98	28.09	3	94,250	3360	Bottom 3' of N collar
2665C-30			01-31	4	5.98	28.09	2	108,140	3850	
2665C-31				7						
2665C-32				28						
2665C-33				28						
2665C-34				Hold						

REMARKS

The initial curing was performed outside the structure and the cylinders were covered with removable plastic lids. The final curing was performed in tanks filled with lime saturated water.

Cylinders were received on January 30, 2012.

Densities are approximate and are calculated based on cylinder weights and volumes determined in the laboratory.

A representative of Tioga Construction was informed of all observations and test results prior to departure from the site.

Reviewed by:

Date:

2/2/12



ATLANTIC TESTING LABORATORIES

CONCRETE REPORT ET2665C-09B-01-12

CLIENT: AECOM
PROJECT: NYSEG Court Street
(location) Binghamton, NY
CONTRACTOR: Tioga Construction
PLACEMENT LOCATION: N manhole – south collar

PLACEMENT DATE: January 27, 2012 (Friday)
ATL REPRESENTATIVE: H. Van Houten
SUPPLIER: C & C Ready Mix Corp.
PLANT LOCATION: Vestal, NY

MIX DESIGN DATA

MIX DATA OBTAINED FROM: Client

Mix Designation: 060

DESIGN STRENGTH AT 28 DAYS: 4000 psi

PER cy: CEMENT (lbs):	564	CEMENT BRAND:	ESSROC Cement – Type I/II
WATER (gals):	32.0	W/CM RATIO:	Not Provided
FINE AGG. (lbs):	1320	FINE AGG. SOURCE:	F.S. Lopke, Inc. – Owego, NY
#1 COARSE AGG. (lbs):	450	COARSE AGG. SOURCE:	F.S. Lopke, Inc. – Owego, NY
#2 COARSE AGG. (lbs):	1300	COARSE AGG. SOURCE:	F.S. Lopke, Inc. – Owego, NY
AEA (oz):	1.0	AEA BRAND:	BASF Chemical Co. – MBVR Std
WRA (oz):	4.0	WRA BRAND:	BASF Chemical Co. – Polyheed 997

FIELD INFORMATION

At the request of AECOM, concrete testing was performed. Field testing was performed in accordance with the following ASTM methods: C 31, C 143, C 172, C 231 and C 1064.

Truck No.	Batch Time	Time Sampled	Finish Time	Air (%)	Slump (in)	Concrete Temp. (°F)	Air Temp. at the Point of Placement (°F)	Truck Volume (cy)	Water Added In Field (gal/cy)	Number of Cylinders Fabricated
57	1:46	2:35	2:50	6.5	2 1/2	63	38	9 1/2	0.3	6
56	2:19	3:05	3:30	6.0	3	64	38	9	0.4	0

Total Concrete Placed: 18 1/2 cy Total Concrete Tested: 18 1/2 cy Total Concrete Rejected: 0 cy

LABORATORY DATA (ASTM C 39, C 511, and C 1231)

Cylinder Number	Truck Number	Density (pcf)	Date of Test	Age (days)	Cylinder Diameter (in)	Cylinder Area (in ²)	Fracture Type (1-6)	Total Load (lbs)	Unit Load (psi)	Sample Location
2665C-35	57	145	01-30	3	5.98	28.09	2	91,080	3240	3' above bottom of collar
2665C-36			01-31	4	5.99	28.18	5	98,850	3510	
2665C-37				7						
2665C-38				28						
2665C-39				28						
2665C-40				Hold						

REMARKS

The initial curing was performed outside the structure and the cylinders were covered with removable plastic lids. The final curing was performed in tanks filled with lime saturated water.

Cylinders were received on January 30, 2012.

Densities are approximate and are calculated based on cylinder weights and volumes determined in the laboratory.

A representative of Tioga Construction was informed of all observations and test results prior to departure from the site.

Reviewed by:

Date:

2/2/12



ATLANTIC TESTING LABORATORIES

CONCRETE REPORT ET2665C-07A-01-12

CLIENT: AECOM
PROJECT: NYSEG Court Street
(location) Binghamton, NY
CONTRACTOR: Tioga Construction
PLACEMENT LOCATION: SE manhole

PLACEMENT DATE: January 19, 2012 (Thursday)
ATL REPRESENTATIVE: H. Van Houten
SUPPLIER: C & C Ready Mix Corp.
PLANT LOCATION: Vestal, NY

MIX DESIGN DATA

MIX DATA OBTAINED FROM: ^(v)
DESIGN STRENGTH AT 28 DAYS: Class A

Mix Designation: 011

FIELD INFORMATION

At the request of AECOM, concrete testing was performed. Field testing was performed in accordance with the following ASTM methods: C 31, C 143, C 172, C 231 and C 1064.

Truck No.	Batch Time	Time Sampled	Finish Time	Air (%)	Slump (in)	Concrete Temp. (°F)	Air Temp. at the Point of Placement (°F)	Truck Volume (cy)	Water Added In Field (gal/cy)	Number of Cylinders Fabricated
52	8:53	9:45	10:15	4.0	1 1/2	65	30	5	0.1	4

Total Concrete Placed: 5 cy Total Concrete Tested: 5 cy Total Concrete Rejected: 0 cy

LABORATORY DATA (ASTM C 39, C 511, and C 1231)

Cylinder Number	Truck Number	Density (pcf)	Date of Test	Age (days)	Cylinder Diameter (in)	Cylinder Area (in ²)	Fracture Type (1-6)	Total Load (lbs)	Unit Load (psi)	Sample Location
2665C-25	52	149	01-26	7	5.98	28.09	5	74,730	2660	SE manhole
2665C-26				28						
2665C-27				28						
2665C-28				Hold						

REMARKS

The initial curing was performed outside the structure and the cylinders were covered with removable plastic lids. The final curing was performed in tanks filled with lime saturated water.

Cylinders were received on January 20, 2012.

Densities are approximate and are calculated based on cylinder weights and volumes determined in the laboratory.

^(v) An approved mix design was not available prior to placement.

A representative of Tioga Construction was informed of all observations and test results prior to departure from the site.

Reviewed by:

Date:

2/2/12



ATLANTIC TESTING LABORATORIES

CONCRETE REPORT ET2665C-08A-01-12

CLIENT: AECOM
PROJECT: NYSEG Court Street
(location) Binghamton, NY
CONTRACTOR: Tioga Construction
PLACEMENT LOCATION: Manhole 1B (south) north collar

PLACEMENT DATE: January 27, 2012 (Friday)
ATL REPRESENTATIVE: H. Van Houten
SUPPLIER: C & C Ready Mix Corp.
PLANT LOCATION: Vestal, NY

MIX DESIGN DATA

MIX DATA OBTAINED FROM: Client
DESIGN STRENGTH AT 28 DAYS: 4000 psi
Mix Designation: 060

PER cy: CEMENT (lbs):	564	CEMENT BRAND:	ESSROC Cement – Type I/II
WATER (gals):	32.0	W/CM RATIO:	Not Provided
FINE AGG. (lbs):	1320	FINE AGG. SOURCE:	F.S. Lopke, Inc. – Owego, NY
#1 COARSE AGG. (lbs):	450	COARSE AGG. SOURCE:	F.S. Lopke, Inc. – Owego, NY
#2 COARSE AGG. (lbs):	1300	COARSE AGG. SOURCE:	F.S. Lopke, Inc. – Owego, NY
AEA (oz):	1.0	AEA BRAND:	BASF Chemical Co. – MBVR Std
WRA (oz):	4.0	WRA BRAND:	BASF Chemical Co. – Polyheed 997

FIELD INFORMATION

At the request of AECOM, concrete testing was performed. Field testing was performed in accordance with the following ASTM methods: C 31, C 143, C 172, C 231 and C 1064.

Truck No.	Batch Time	Time Sampled	Finish Time	Air (%)	Slump (in)	Concrete Temp. (°F)	Air Temp. at the Point of Placement (°F)	Truck Volume (cy)	Water Added In Field (gal/cy)	Number of Cylinders Fabricated
55	8:52	9:55	10:18	6.0	2	65	45	9	0.3	6
57	9:24	10:25	10:45	5.8	1 3/4	66	45	7	0.3	0
66	9:39	11:20	11:09	5.5	1 1/2	65	45	7	0.3	0

Total Concrete Placed: 23 cy Total Concrete Tested: 23 cy Total Concrete Rejected: 0 cy

LABORATORY DATA (ASTM C 39, C 511, and C 1231)

Cylinder Number	Truck Number	Density (pcf)	Date of Test	Age (days)	Cylinder Diameter (in)	Cylinder Area (in ²)	Fracture Type (1-6)	Total Load (lbs)	Unit Load (psi)	Sample Location
2665C-29	55	149	01-30	3	5.98	28.09	3	94,250	3360	Bottom 3' of N collar
2665C-30				4						
2665C-31				7						
2665C-32				28						
2665C-33				28						
2665C-34				Hold						

REMARKS

The initial curing was performed outside the structure and the cylinders were covered with removable plastic lids. The final curing was performed in tanks filled with lime saturated water.
Cylinders were received on January 30, 2012.
Densities are approximate and are calculated based on cylinder weights and volumes determined in the laboratory.
A representative of Tioga Construction was informed of all observations and test results prior to departure from the site.

Reviewed by:

Date:

2/2/12



ATLANTIC TESTING LABORATORIES

CONCRETE REPORT ET2665C-09A-01-12

CLIENT: AECOM
PROJECT: NYSEG Court Street
(location) Binghamton, NY
CONTRACTOR: Tioga Construction
PLACEMENT LOCATION: N manhole – south collar

PLACEMENT DATE: January 27, 2012 (Friday)
ATL REPRESENTATIVE: H. Van Houten
SUPPLIER: C & C Ready Mix Corp.
PLANT LOCATION: Vestal, NY

MIX DESIGN DATA

MIX DATA OBTAINED FROM: Client

Mix Designation: 060

DESIGN STRENGTH AT 28 DAYS: 4000 psi

PER cy:	CEMENT (lbs):	564	CEMENT BRAND:	ESSROC Cement – Type I/II
	WATER (gals):	32.0	W/CM RATIO:	Not Provided
	FINE AGG. (lbs):	1320	FINE AGG. SOURCE:	F.S. Lopke, Inc. – Owego, NY
	#1 COARSE AGG. (lbs):	450	COARSE AGG. SOURCE:	F.S. Lopke, Inc. – Owego, NY
	#2 COARSE AGG. (lbs):	1300	COARSE AGG. SOURCE:	F.S. Lopke, Inc. – Owego, NY
	AEA (oz):	1.0	AEA BRAND:	BASF Chemical Co. – MBVR Std
	WRA (oz):	4.0	WRA BRAND:	BASF Chemical Co. – Polyheed 997

FIELD INFORMATION

At the request of AECOM, concrete testing was performed. Field testing was performed in accordance with the following ASTM methods: C 31, C 143, C 172, C 231 and C 1064.

Truck No.	Batch Time	Time Sampled	Finish Time	Air (%)	Slump (in)	Concrete Temp. (°F)	Air Temp. at the Point of Placement (°F)	Truck Volume (cy)	Water Added In Field (gal/cy)	Number of Cylinders Fabricated
57	1:46	2:35	2:50	6.5	2 1/2	63	38	9 1/2	0.3	6
56	2:19	3:05	3:30	6.0	3	64	38	9	0.4	0

Total Concrete Placed: 18 1/2 cy Total Concrete Tested: 18 1/2 cy Total Concrete Rejected: 0 cy

LABORATORY DATA (ASTM C 39, C 511, and C 1231)

Cylinder Number	Truck Number	Density (pcf)	Date of Test	Age (days)	Cylinder Diameter (in)	Cylinder Area (in ²)	Fracture Type (1-6)	Total Load (lbs)	Unit Load (psi)	Sample Location
2665C-35	57	145	01-30	3	5.98	28.09	2	91,080	3240	3' above bottom of collar
2665C-36				4						
2665C-37				7						
2665C-38				28						
2665C-39				28						
2665C-40				Hold						

REMARKS

The initial curing was performed outside the structure and the cylinders were covered with removable plastic lids. The final curing was performed in tanks filled with lime saturated water.

Cylinders were received on January 30, 2012.

Densities are approximate and are calculated based on cylinder weights and volumes determined in the laboratory.

A representative of Tioga Construction was informed of all observations and test results prior to departure from the site.

Reviewed by:  Date: 2/2/12



ATLANTIC TESTING LABORATORIES

CONCRETE REPORT ET2665C-02B-01-12

CLIENT: AECOM
 PROJECT: NYSEG Court Street
 (location) Binghamton, NY
 CONTRACTOR: Tioga
 PLACEMENT LOCATION: Collar for cutoff wall manhole no. 1C

PLACEMENT DATE: January 9, 2012 (Monday)
 ATL REPRESENTATIVE: J. Orzel
 SUPPLIER: C & C Ready Mix Corp.
 PLANT LOCATION: Vestal, NY

MIX DESIGN DATA

MIX DATA OBTAINED FROM: Supplier
 DESIGN STRENGTH AT 28 DAYS: 4000 psi
 PER cy: CEMENT (lbs): 564
 WATER (gals): 32.0
 FINE AGG. (lbs): 1320
 #1 COARSE AGG. (lbs): 450
 #2 COARSE AGG. (lbs): 1300
 AEA (oz): 1.0
 WRA (oz): 4.0

Mix Designation: 060
 CEMENT BRAND: ESSROC Cement – Type I/II
 W/CM RATIO: Not Provided
 FINE AGG. SOURCE: F.S. Lopke, Inc. – Owego, NY
 COARSE AGG. SOURCE: F.S. Lopke, Inc. – Owego, NY
 COARSE AGG. SOURCE: F.S. Lopke, Inc. – Owego, NY
 AEA BRAND: BASF Chemical Co. – MBVR Std
 WRA BRAND: BASF Chemical Co. – Polyheed 997

FIELD INFORMATION

At the request of AECOM, concrete testing was performed. Field testing was performed in accordance with the following ASTM methods: C 31, C 143, C 172, C 231 and C 1064.

Truck No.	Batch Time	Time Sampled	Finish Time	Air (%)	Slump (in)	Concrete Temp. (°F)	Air Temp. at the Point of Placement (°F)	Truck Volume (cy)	Water Added In Field (gal/cy)	Number of Cylinders Fabricated
18	12:23	1:15	1:45	5.0	2 1/2	68	42	7 1/2	0.0	4

Total Concrete Placed: 7 1/2 cy Total Concrete Tested: 7 1/2 cy Total Concrete Rejected: 0 cy

LABORATORY DATA (ASTM C 39, C 511, and C 1231)

Cylinder Number	Truck Number	Density (pcf)	Date of Test	Age (days)	Cylinder Diameter (in)	Cylinder Area (in ²)	Fracture Type (1-6)	Total Load (lbs)	Unit Load (psi)	Sample Location
2665C-05	18	147	01-16	7	5.98	28.09	3	116,120	4130	Collar for cutoff wall manhole no. 1C
2665C-06			02-06	28	5.98	28.09	5	141,560	5040	
2665C-07			02-06	28	5.98	28.09	2	143,400	5110	
2665C-08				Hold						

REMARKS

The initial curing was performed outside the structure and the cylinders were covered with removable plastic lids. The final curing was performed in tanks filled with lime saturated water.

Cylinders were received on January 10, 2012.

Densities are approximate and are calculated based on cylinder weights and volumes determined in the laboratory.

Mr. Ryan Green, representing AECOM, was informed of all observations and test results prior to departure from the site.

Reviewed by:

Date:

2/10/12



ATLANTIC TESTING LABORATORIES

CONCRETE REPORT ET2665C-03B-01-12

CLIENT: AECOM
PROJECT: NYSEG Court Street
(location) Binghamton, NY
CONTRACTOR: Tioga
PLACEMENT LOCATION: Manhole 1B base

PLACEMENT DATE: January 11, 2012 (Wednesday)
ATL REPRESENTATIVE: J. Orzel
SUPPLIER: C & C Ready Mix Corp.
PLANT LOCATION: Vestal, NY

MIX DESIGN DATA

MIX DATA OBTAINED FROM: Supplier
DESIGN STRENGTH AT 28 DAYS: **4000 psi**
PER cy: CEMENT (lbs): 564
WATER (gals): 32.0
FINE AGG. (lbs): 1320
#1 COARSE AGG. (lbs): 450
#2 COARSE AGG. (lbs): 1300
AEA (oz): 1.0
WRA (oz): 4.0

Mix Designation: 060
CEMENT BRAND: ESSROC Cement – Type I/II
W/CM RATIO: Not Provided
FINE AGG. SOURCE: F.S. Lopke, Inc. – Owego, NY
COARSE AGG. SOURCE: F.S. Lopke, Inc. – Owego, NY
COARSE AGG. SOURCE: F.S. Lopke, Inc. – Owego, NY
AEA BRAND: BASF Chemical Co. – MBVR Std
WRA BRAND: BASF Chemical Co. – Polyheed 997

FIELD INFORMATION

At the request of AECOM, concrete testing was performed. Field testing was performed in accordance with the following ASTM methods: C 31, C 143, C 172, C 231 and C 1064.

Truck No.	Batch Time	Time Sampled	Finish Time	Air (%)	Slump (in)	Concrete Temp. (°F)	Air Temp. at the Point of Placement (°F)	Truck Volume (cy)	Water Added In Field (gal/cy)	Number of Cylinders Fabricated
57	2:28	3:00	3:15	5.9	3	70	42	8 1/2	0.0	4

Total Concrete Placed: 8 1/2 cy Total Concrete Tested: 8 1/2 cy Total Concrete Rejected: 0 cy

LABORATORY DATA (ASTM C 39, C 511, and C 1231)

Cylinder Number	Truck Number	Density (pcf)	Date of Test	Age (days)	Cylinder Diameter (in)	Cylinder Area (in ²)	Fracture Type (1-6)	Total Load (lbs)	Unit Load (psi)	Sample Location
2665C-09	57	143	01-18	7	6.00	28.27	3	99,690	3530	Manhole 1B base
2665C-10			02-08	28	6.00	28.27	5	133,090	4710	
2665C-11			02-08	28	6.00	28.27	6	126,930	4490	
2665C-12				Hold						

REMARKS

The initial curing was performed outside the structure and the cylinders were covered with removable plastic lids. The final curing was performed in tanks filled with lime saturated water.

Cylinders were received on January 12, 2012.

Densities are approximate and are calculated based on cylinder weights and volumes determined in the laboratory.

Mr. Ryan Green, representing AECOM, was informed of all observations and test results prior to departure from the site.

Reviewed by:

Date:

2/6/12



ATLANTIC TESTING LABORATORIES

CONCRETE REPORT ET2665C-04B-01-12

CLIENT: AECOM
PROJECT: NYSEG Court Street
(location) Binghamton, NY
CONTRACTOR: Tioga Construction
PLACEMENT LOCATION: Water stop wall: S end

PLACEMENT DATE: January 12, 2012 (Thursday)
ATL REPRESENTATIVE: C. Bushaw
SUPPLIER: C & C Ready Mix Corp.
PLANT LOCATION: Vestal, NY

MIX DESIGN DATA

MIX DATA OBTAINED FROM: Supplier Mix Designation: 060
DESIGN STRENGTH AT 28 DAYS: 4000 psi
PER cy: CEMENT (lbs): 564 CEMENT BRAND: ESSROC Cement – Type I/II
WATER (gals): 32.0 W/CM RATIO: Not Provided
FINE AGG. (lbs): 1320 FINE AGG. SOURCE: F.S. Lopke, Inc. – Owego, NY
#1 COARSE AGG. (lbs): 450 COARSE AGG. SOURCE: F.S. Lopke, Inc. – Owego, NY
#2 COARSE AGG. (lbs): 1300 COARSE AGG. SOURCE: F.S. Lopke, Inc. – Owego, NY
AEA (oz): 1.0 AEA BRAND: BASF Chemical Co. – MBVR Std
WRA (oz): 4.0 WRA BRAND: BASF Chemical Co. – Polyheed 997

FIELD INFORMATION

At the request of AECOM, concrete testing was performed. Field testing was performed in accordance with the following ASTM methods: C 31, C 143, C 172, C 231 and C 1064.

Truck No.	Batch Time	Time Sampled	Finish Time	Air (%)	Slump (in)	Concrete Temp. (°F)	Air Temp. at the Point of Placement (°F)	Truck Volume (cy)	Water Added In Field (gal/cy)	Number of Cylinders Fabricated
22	10:19	11:00	11:23	6.2	2 3/4	67	47	7	0.0	4

Total Concrete Placed: 7 cy Total Concrete Tested: 7 cy Total Concrete Rejected: 0 cy

LABORATORY DATA (ASTM C 39, C 511, and C 1231)

Cylinder Number	Truck Number	Density (pcf)	Date of Test	Age (days)	Cylinder Diameter (in)	Cylinder Area (in ²)	Fracture Type (1-6)	Total Load (lbs)	Unit Load (psi)	Sample Location
2665C-13	22	144	01-19	7	5.98	28.09	5	95,290	3390	E end of S water stop wall
2665C-14			02-09	28	6.00	28.27	5	129,510	4580	
2665C-15			02-09	28	6.00	28.27	2	125,040	4420	
2665C-16				Hold						

REMARKS

The initial curing was performed outside the structure and the cylinders were covered with removable plastic lids. The final curing was performed in tanks filled with lime saturated water.

Cylinders were received on January 13, 2012.

Densities are approximate and are calculated based on cylinder weights and volumes determined in the laboratory.

Mr. Ryan Green, representing AECOM, was informed of all observations and test results prior to departure from the site.

Reviewed by:

Date:

2/10/12



ATLANTIC TESTING LABORATORIES

CONCRETE REPORT ET2665C-08C-01-12

CLIENT: AECOM
PROJECT: NYSEG Court Street
(location) Binghamton, NY
CONTRACTOR: Tioga Construction
PLACEMENT LOCATION: Manhole 1B (south) north collar

PLACEMENT DATE: January 27, 2012 (Friday)
ATL REPRESENTATIVE: H. Van Houten
SUPPLIER: C & C Ready Mix Corp.
PLANT LOCATION: Vestal, NY

MIX DESIGN DATA

MIX DATA OBTAINED FROM: Client
DESIGN STRENGTH AT 28 DAYS: 4000 psi
PER cy: CEMENT (lbs): 564
WATER (gals): 32.0
FINE AGG. (lbs): 1320
#1 COARSE AGG. (lbs): 450
#2 COARSE AGG. (lbs): 1300
AEA (oz): 1.0
WRA (oz): 4.0

Mix Designation: 060
CEMENT BRAND: ESSROC Cement – Type I/II
W/CM RATIO: Not Provided
FINE AGG. SOURCE: F.S. Lopke, Inc. – Owego, NY
COARSE AGG. SOURCE: F.S. Lopke, Inc. – Owego, NY
COARSE AGG. SOURCE: F.S. Lopke, Inc. – Owego, NY
AEA BRAND: BASF Chemical Co. – MBVR Std
WRA BRAND: BASF Chemical Co. – Polyheed 997

FIELD INFORMATION

At the request of AECOM, concrete testing was performed. Field testing was performed in accordance with the following ASTM methods: C 31, C 143, C 172, C 231 and C 1064.

Truck No.	Batch Time	Time Sampled	Finish Time	Air (%)	Slump (in)	Concrete Temp. (°F)	Air Temp. at the Point of Placement (°F)	Truck Volume (cy)	Water Added In Field (gal/cy)	Number of Cylinders Fabricated
55	8:52	9:55	10:18	6.0	2	65	45	9	0.3	6
57	9:24	10:25	10:45	5.8	1 3/4	66	45	7	0.3	0
66	9:39	11:20	11:09	5.5	1 1/2	65	45	7	0.3	0

Total Concrete Placed: 23 cy Total Concrete Tested: 23 cy Total Concrete Rejected: 0 cy

LABORATORY DATA (ASTM C 39, C 511, and C 1231)

Cylinder Number	Truck Number	Density (pcf)	Date of Test	Age (days)	Cylinder Diameter (in)	Cylinder Area (in ²)	Fracture Type (1-6)	Total Load (lbs)	Unit Load (psi)	Sample Location
2665C-29	55	149	01-30	3	5.98	28.09	3	94,250	3360	Bottom 3' of N collar
2665C-30			01-31	4	5.98	28.09	2	108,140	3850	
2665C-31			02-03	7	5.99	28.18	5	121,790	4320	
2665C-32				28						
2665C-33				28						
2665C-34				Hold						

REMARKS

The initial curing was performed outside the structure and the cylinders were covered with removable plastic lids. The final curing was performed in tanks filled with lime saturated water.

Cylinders were received on January 30, 2012.

Densities are approximate and are calculated based on cylinder weights and volumes determined in the laboratory.

A representative of Tioga Construction was informed of all observations and test results prior to departure from the site.

Reviewed by:

Date:

2/10/12



ATLANTIC TESTING LABORATORIES

CONCRETE REPORT ET2665C-09C-01-12

CLIENT: AECOM
PROJECT: NYSEG Court Street
(location) Binghamton, NY
CONTRACTOR: Tioga Construction
PLACEMENT LOCATION: N manhole – south collar

PLACEMENT DATE: January 27, 2012 (Friday)
ATL REPRESENTATIVE: H. Van Houten
SUPPLIER: C & C Ready Mix Corp.
PLANT LOCATION: Vestal, NY

MIX DESIGN DATA

MIX DATA OBTAINED FROM: Client

Mix Designation: 060

DESIGN STRENGTH AT 28 DAYS: 4000 psi

PER cy:	CEMENT (lbs):	564	CEMENT BRAND:	ESSROC Cement – Type I/II
	WATER (gals):	32.0	W/CM RATIO:	Not Provided
	FINE AGG. (lbs):	1320	FINE AGG. SOURCE:	F.S. Lopke, Inc. – Owego, NY
	#1 COARSE AGG. (lbs):	450	COARSE AGG. SOURCE:	F.S. Lopke, Inc. – Owego, NY
	#2 COARSE AGG. (lbs):	1300	COARSE AGG. SOURCE:	F.S. Lopke, Inc. – Owego, NY
	AEA (oz):	1.0	AEA BRAND:	BASF Chemical Co. – MBVR Std
	WRA (oz):	4.0	WRA BRAND:	BASF Chemical Co. – Polyheed 997

FIELD INFORMATION

At the request of AECOM, concrete testing was performed. Field testing was performed in accordance with the following ASTM methods: C 31, C 143, C 172, C 231 and C 1064.

Truck No.	Batch Time	Time Sampled	Finish Time	Air (%)	Slump (in)	Concrete Temp. (°F)	Air Temp. at the Point of Placement (°F)	Truck Volume (cy)	Water Added In Field (gal/cy)	Number of Cylinders Fabricated
57	1:46	2:35	2:50	6.5	2 1/2	63	38	9 1/2	0.3	6
56	2:19	3:05	3:30	6.0	3	64	38	9	0.4	0

Total Concrete Placed: 18 1/2 cy Total Concrete Tested: 18 1/2 cy Total Concrete Rejected: 0 cy

LABORATORY DATA (ASTM C 39, C 511, and C 1231)

Cylinder Number	Truck Number	Density (pcf)	Date of Test	Age (days)	Cylinder Diameter (in)	Cylinder Area (in ²)	Fracture Type (1-6)	Total Load (lbs)	Unit Load (psi)	Sample Location
2665C-35	57	145	01-30	3	5.98	28.09	2	91,080	3240	3' above bottom of collar
2665C-36			01-31	4	5.99	28.18	5	98,850	3510	
2665C-37			02-03	7	6.00	28.27	5	126,890	4490	
2665C-38				28						
2665C-39				28						
2665C-40				Hold						

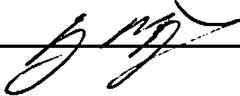
REMARKS

The initial curing was performed outside the structure and the cylinders were covered with removable plastic lids. The final curing was performed in tanks filled with lime saturated water.

Cylinders were received on January 30, 2012.

Densities are approximate and are calculated based on cylinder weights and volumes determined in the laboratory.

A representative of Tioga Construction was informed of all observations and test results prior to departure from the site.

Reviewed by:  Date: 2/10/12



ATLANTIC TESTING LABORATORIES

CONCRETE REPORT ET2665C-05B-01-12

CLIENT: AECOM
PROJECT: NYSEG Court Street
(location) Binghamton, NY
CONTRACTOR: Tioga Construction
PLACEMENT LOCATION: Manhole 1C base

PLACEMENT DATE: January 13, 2012 (Friday)
ATL REPRESENTATIVE: C. Bushaw
SUPPLIER: C & C Ready Mix Corp.
PLANT LOCATION: Vestal, NY

MIX DESIGN DATA

MIX DATA OBTAINED FROM: ^(v)
DESIGN STRENGTH AT 28 DAYS: 2500 psi

Mix Designation: 011

FIELD INFORMATION

At the request of AECOM, concrete testing was performed. Field testing was performed in accordance with the following ASTM methods: C 31, C 143, C 172, C 231 and C 1064.

Truck No.	Batch Time	Time Sampled	Finish Time	Air (%)	Slump (in)	Concrete Temp. (°F)	Air Temp. at the Point of Placement (°F)	Truck Volume (cy)	Water Added In Field (gal/cy)	Number of Cylinders Fabricated
24	7:32	8:15	8:40	5.2	1 1/2	67	36	5	0.0	4

Total Concrete Placed: 5 cy Total Concrete Tested: 5 cy Total Concrete Rejected: 0 cy

LABORATORY DATA (ASTM C 39, C 511, and C 1231)

Cylinder Number	Truck Number	Density (pcf)	Date of Test	Age (days)	Cylinder Diameter (in)	Cylinder Area (in ²)	Fracture Type (1-6)	Total Load (lbs)	Unit Load (psi)	Sample Location
2665C-17	24	147	01-20	7	5.98	28.09	5	101,320	3610	Manhole 1C base
2665C-18			02-10	28	5.99	28.18	2	145,050	5150	
2665C-19			02-10	28	5.99	28.18	6	148,490	5270	
2665C-20				Hold						

REMARKS

The initial curing was performed outside the structure and the cylinders were covered with removable plastic lids. The final curing was performed in tanks filled with lime saturated water.

Cylinders were received on January 16, 2012.

Densities are approximate and are calculated based on cylinder weights and volumes determined in the laboratory.

^(v) An approved mix design was not available prior to placement.

Mr. Ryan Green, representing AECOM, was informed of all observations and test results prior to departure from the site.

Reviewed by:

Date:

2/20/12



ATLANTIC TESTING LABORATORIES

CONCRETE REPORT ET2665C-06B-01-12

CLIENT: AECOM
PROJECT: NYSEG Court Street
(location) Binghamton, NY
CONTRACTOR: Tioga Construction
PLACEMENT LOCATION: Manhole 1C spillway phase 2

PLACEMENT DATE: January 17, 2012 (Tuesday)
ATL REPRESENTATIVE: J. Orzel
SUPPLIER: C & C Ready Mix Corp.
PLANT LOCATION: Vestal, NY

MIX DESIGN DATA

MIX DATA OBTAINED FROM: ^(v)

Mix Designation: 030

DESIGN STRENGTH AT 28 DAYS: Class A

FIELD INFORMATION

At the request of AECOM, concrete testing was performed. Field testing was performed in accordance with the following ASTM methods: C 31, C 143, C 172, C 231 and C 1064.

Truck No.	Batch Time	Time Sampled	Finish Time	Air (%)	Slump (in)	Concrete Temp. (°F)	Air Temp. at the Point of Placement (°F)	Truck Volume (cy)	Water Added In Field (gal/cy)	Number of Cylinders Fabricated
57	12:04	12:35	1:10	6.0	3 1/4	68	39	5	1.0	4

Total Concrete Placed: 5 cy Total Concrete Tested: 5 cy Total Concrete Rejected: 0 cy

LABORATORY DATA (ASTM C 39, C 511, and C 1231)

Cylinder Number	Truck Number	Density (pcf)	Date of Test	Age (days)	Cylinder Diameter (in)	Cylinder Area (in ²)	Fracture Type (1-6)	Total Load (lbs)	Unit Load (psi)	Sample Location
2665C-21	57	141	01-24	7	6.00	28.27	3	81,580	2890	Manhole 1C spillway phase 2
2665C-22			02-14	28	6.00	28.27	5	119,530	4230	
2665C-23			02-14	28	6.00	28.27	6	119,670	4230	
2665C-24				Hold						

REMARKS

The initial curing was performed outside the structure and the cylinders were covered with removable plastic lids. The final curing was performed in tanks filled with lime saturated water.

Cylinders were received on January 18, 2012.

Densities are approximate and are calculated based on cylinder weights and volumes determined in the laboratory.

^(v) An approved mix design was not available prior to placement.

A representative of Tioga Construction was informed of all observations and test results prior to departure from the site.

Reviewed by:  Date: 2/20/12



ATLANTIC TESTING LABORATORIES

CONCRETE REPORT ET2665C-07B-01-12

CLIENT: AECOM
PROJECT: NYSEG Court Street
(location) Binghamton, NY
CONTRACTOR: Tioga Construction
PLACEMENT LOCATION: SE manhole

PLACEMENT DATE: January 19, 2012 (Thursday)
ATL REPRESENTATIVE: H. Van Houten
SUPPLIER: C & C Ready Mix Corp.
PLANT LOCATION: Vestal, NY

MIX DESIGN DATA

MIX DATA OBTAINED FROM: ^(v)
DESIGN STRENGTH AT 28 DAYS: Class A Mix Designation: 011

FIELD INFORMATION

At the request of AECOM, concrete testing was performed. Field testing was performed in accordance with the following ASTM methods: C 31, C 143, C 172, C 231 and C 1064.

Truck No.	Batch Time	Time Sampled	Finish Time	Air (%)	Slump (in)	Concrete Temp. (°F)	Air Temp. at the Point of Placement (°F)	Truck Volume (cy)	Water Added In Field (gal/cy)	Number of Cylinders Fabricated
52	8:53	9:45	10:15	4.0	1 1/2	65	30	5	0.1	4

Total Concrete Placed: 5 cy Total Concrete Tested: 5 cy Total Concrete Rejected: 0 cy

LABORATORY DATA (ASTM C 39, C 511, and C 1231)

Cylinder Number	Truck Number	Density (pcf)	Date of Test	Age (days)	Cylinder Diameter (in)	Cylinder Area (in ²)	Fracture Type (1-6)	Total Load (lbs)	Unit Load (psi)	Sample Location
2665C-25	52	149	01-26	7	5.98	28.09	5	74,730	2660	SE manhole
2665C-26			02-16	28	5.98	28.09	6	111,160	3960	
2665C-27			02-16	28	5.98	28.09	5	111,730	3980	
2665C-28				Hold						

REMARKS

The initial curing was performed outside the structure and the cylinders were covered with removable plastic lids. The final curing was performed in tanks filled with lime saturated water.

Cylinders were received on January 20, 2012.

Densities are approximate and are calculated based on cylinder weights and volumes determined in the laboratory.

^(v) An approved mix design was not available prior to placement.

A representative of Tioga Construction was informed of all observations and test results prior to departure from the site.

Reviewed by:

Date:

2/20/12



ATLANTIC TESTING LABORATORIES

CONCRETE REPORT ET2665C-10A-02-12

CLIENT: AECOM
PROJECT: NYSEG Court Street
(location) Binghamton, NY
CONTRACTOR: Tioga Construction
PLACEMENT LOCATION: Manhole 1A and manhole 1D

PLACEMENT DATE: February 15, 2012 (Wednesday)
ATL REPRESENTATIVE: N. Fabrizio
SUPPLIER: C & C Ready Mix Corp.
PLANT LOCATION: Vestal, NY

MIX DESIGN DATA

MIX DATA OBTAINED FROM: Client
DESIGN STRENGTH AT 28 DAYS: **4000 psi**
PER cy: CEMENT (lbs): 564
WATER (gals): 32.0
FINE AGG. (lbs): 1320
#1 COARSE AGG. (lbs): 450
#2 COARSE AGG. (lbs): 1300
AEA (oz): 1.0
WRA (oz): 4.0

Mix Designation: 060
CEMENT BRAND: ESSROC Cement – Type I/II
W/CM RATIO: Not Provided
FINE AGG. SOURCE: F.S. Lopke, Inc. – Owego, NY
COARSE AGG. SOURCE: F.S. Lopke, Inc. – Owego, NY
COARSE AGG. SOURCE: F.S. Lopke, Inc. – Owego, NY
AEA BRAND: BASF Chemical Co. – MBVR Std
WRA BRAND: BASF Chemical Co. – Polyheed 997

FIELD INFORMATION

At the request of AECOM, concrete testing was performed. Field testing was performed in accordance with the following ASTM methods: C 31, C 143, C 172, C 231 and C 1064.

Truck No.	Batch Time	Time Sampled	Finish Time	Air (%)	Slump (in)	Concrete Temp. (°F)	Air Temp. at the Point of Placement (°F)	Truck Volume (cy)	Water Added In Field (gal/cy)	Number of Cylinders Fabricated
24	9:22	10:10	10:15	5.0	2	72	41	6	0.0	5
66	9:30	10:30	10:35	5.0	1	70	42	5 1/2	0.0	0
57	1:44	2:40	2:50	5.0	2	71	41	6	0.0	5
66	2:00	3:00	3:15	5.0	2	70	41	5 1/2	0.0	0

Total Concrete Placed: 23 cy Total Concrete Tested: 23 cy Total Concrete Rejected: 0 cy

LABORATORY DATA (ASTM C 39, C 511, and C 1231)

Cylinder Number	Truck Number	Density (pcf)	Date of Test	Age (days)	Cylinder Diameter (in)	Cylinder Area (in ²)	Fracture Type (1-6)	Total Load (lbs)	Unit Load (psi)	Sample Location
2665C-41	24	145	02-18	3	6.00	28.27	2	114,290	4040	Bottom lift (MH1A)
2665C-42				7						
2665C-43				28						
2665C-44				28						
2665C-45				Hold						
2665C-46	57	145	02-18	3	5.99	28.18	2	88,300	3130	Center of MH1
2665C-47				7						
2665C-48				28						
2665C-49				28						
2665C-50				Hold						

REMARKS

The initial curing was performed outside the structure and the cylinders were covered with removable plastic lids. The final curing was performed in tanks filled with lime saturated water.

Cylinders were received on February 16, 2012.

Densities are approximate and are calculated based on cylinder weights and volumes determined in the laboratory.

A representative of Tioga Construction was informed of all observations and test results prior to departure from the site.

Reviewed by:

Date:

2/23/12



ATLANTIC TESTING LABORATORIES

CONCRETE REPORT ET2665C-08D-01-12

CLIENT: AECOM
PROJECT: NYSEG Court Street
(location) Binghamton, NY
CONTRACTOR: Tioga Construction
PLACEMENT LOCATION: Manhole 1B (south) north collar

PLACEMENT DATE: January 27, 2012 (Friday)
ATL REPRESENTATIVE: H. Van Houten
SUPPLIER: C & C Ready Mix Corp.
PLANT LOCATION: Vestal, NY

MIX DESIGN DATA

MIX DATA OBTAINED FROM: Client
DESIGN STRENGTH AT 28 DAYS: 4000 psi
PER cy: CEMENT (lbs): 564
WATER (gals): 32.0
FINE AGG. (lbs): 1320
#1 COARSE AGG. (lbs): 450
#2 COARSE AGG. (lbs): 1300
AEA (oz): 1.0
WRA (oz): 4.0

Mix Designation: 060
CEMENT BRAND: ESSROC Cement – Type I/II
W/CM RATIO: Not Provided
FINE AGG. SOURCE: F.S. Lopke, Inc. – Owego, NY
COARSE AGG. SOURCE: F.S. Lopke, Inc. – Owego, NY
COARSE AGG. SOURCE: F.S. Lopke, Inc. – Owego, NY
AEA BRAND: BASF Chemical Co. – MBVR Std
WRA BRAND: BASF Chemical Co. – Polyheed 997

FIELD INFORMATION

At the request of AECOM, concrete testing was performed. Field testing was performed in accordance with the following ASTM methods: C 31, C 143, C 172, C 231 and C 1064.

Truck No.	Batch Time	Time Sampled	Finish Time	Air (%)	Slump (in)	Concrete Temp. (°F)	Air Temp. at the Point of Placement (°F)	Truck Volume (cy)	Water Added In Field (gal/cy)	Number of Cylinders Fabricated
55	8:52	9:55	10:18	6.0	2	65	45	9	0.3	6
57	9:24	10:25	10:45	5.8	1 3/4	66	45	7	0.3	0
66	9:39	11:20	11:09	5.5	1 1/2	65	45	7	0.3	0

Total Concrete Placed: 23 cy Total Concrete Tested: 23 cy Total Concrete Rejected: 0 cy

LABORATORY DATA (ASTM C 39, C 511, and C 1231)

Cylinder Number	Truck Number	Density (pcf)	Date of Test	Age (days)	Cylinder Diameter (in)	Cylinder Area (in ²)	Fracture Type (1-6)	Total Load (lbs)	Unit Load (psi)	Sample Location
2665C-29	55	149	01-30	3	5.98	28.09	3	94,250	3360	Bottom 3' of N collar
2665C-30			01-31	4	5.98	28.09	2	108,140	3850	
2665C-31			02-03	7	5.99	28.18	5	121,790	4320	
2665C-32			02-24	28	6.00	28.27	3	159,720	5650	
2665C-33			02-24	28	6.00	28.27	3	148,630	5260	
2665C-34				Hold						

REMARKS

The initial curing was performed outside the structure and the cylinders were covered with removable plastic lids. The final curing was performed in tanks filled with lime saturated water.

Cylinders were received on January 30, 2012.

Densities are approximate and are calculated based on cylinder weights and volumes determined in the laboratory.

A representative of Tioga Construction was informed of all observations and test results prior to departure from the site.

Reviewed by: Stephen F. Houten Date: 2-28-12



ATLANTIC TESTING LABORATORIES

CONCRETE REPORT ET2665C-09D-01-12

CLIENT: AECOM
PROJECT: NYSEG Court Street
(location) Binghamton, NY
CONTRACTOR: Tioga Construction
PLACEMENT LOCATION: N manhole – south collar

PLACEMENT DATE: January 27, 2012 (Friday)
ATL REPRESENTATIVE: H. Van Houten
SUPPLIER: C & C Ready Mix Corp.
PLANT LOCATION: Vestal, NY

MIX DESIGN DATA

MIX DATA OBTAINED FROM: Client

Mix Designation: 060

DESIGN STRENGTH AT 28 DAYS: 4000 psi

PER cy:	CEMENT (lbs):	564	CEMENT BRAND:	ESSROC Cement – Type I/II
	WATER (gals):	32.0	W/CM RATIO:	Not Provided
	FINE AGG. (lbs):	1320	FINE AGG. SOURCE:	F.S. Lopke, Inc. – Owego, NY
	#1 COARSE AGG. (lbs):	450	COARSE AGG. SOURCE:	F.S. Lopke, Inc. – Owego, NY
	#2 COARSE AGG. (lbs):	1300	COARSE AGG. SOURCE:	F.S. Lopke, Inc. – Owego, NY
	AEA (oz):	1.0	AEA BRAND:	BASF Chemical Co. – MBVR Std
	WRA (oz):	4.0	WRA BRAND:	BASF Chemical Co. – Polyheed 997

FIELD INFORMATION

At the request of AECOM, concrete testing was performed. Field testing was performed in accordance with the following ASTM methods: C 31, C 143, C 172, C 231 and C 1064.

Truck No.	Batch Time	Time Sampled	Finish Time	Air (%)	Slump (in)	Concrete Temp. (°F)	Air Temp. at the Point of Placement (°F)	Truck Volume (cy)	Water Added In Field (gal/cy)	Number of Cylinders Fabricated
57	1:46	2:35	2:50	6.5	2 1/2	63	38	9 1/2	0.3	6
56	2:19	3:05	3:30	6.0	3	64	38	9	0.4	0

Total Concrete Placed: 18 1/2 cy Total Concrete Tested: 18 1/2 cy Total Concrete Rejected: 0 cy

LABORATORY DATA (ASTM C 39, C 511, and C 1231)

Cylinder Number	Truck Number	Density (pcf)	Date of Test	Age (days)	Cylinder Diameter (in)	Cylinder Area (in ²)	Fracture Type (1-6)	Total Load (lbs)	Unit Load (psi)	Sample Location
2665C-35	57	145	01-30	3	5.98	28.09	2	91,080	3240	3' above bottom of collar
2665C-36			01-31	4	5.99	28.18	5	98,850	3510	
2665C-37			02-03	7	6.00	28.27	5	126,890	4490	
2665C-38			02-24	28	6.00	28.27	2	151,800	5370	
2665C-39			02-24	28	6.00	28.27	2	154,810	5480	
2665C-40				Hold						

REMARKS

The initial curing was performed outside the structure and the cylinders were covered with removable plastic lids. The final curing was performed in tanks filled with lime saturated water.

Cylinders were received on January 30, 2012.

Densities are approximate and are calculated based on cylinder weights and volumes determined in the laboratory.

A representative of Tioga Construction was informed of all observations and test results prior to departure from the site.

Reviewed by:

Stephen J. Van Houten

Date:

2-28-12



ATLANTIC TESTING LABORATORIES

CONCRETE REPORT ET2665C-17B-03-12

CLIENT: AECOM
PROJECT: NYSEG Court Street
(location) Binghamton, NY
CONTRACTOR: Tioga Construction
PLACEMENT LOCATION: Pad: manhole numbers 1A and 1B

PLACEMENT DATE: March 27, 2012 (Tuesday)
ATL REPRESENTATIVE: C. Bushaw
SUPPLIER: C & C Ready Mix Corp.
PLANT LOCATION: Vestal, NY

MIX DESIGN DATA

MIX DATA OBTAINED FROM: Client

Mix Designation: 060

DESIGN STRENGTH AT 28 DAYS: 4000 psi

PER cy: CEMENT (lbs): 564
WATER (gals): 32.0
FINE AGG. (lbs): 1320
#1 COARSE AGG. (lbs): 450
#2 COARSE AGG. (lbs): 1300
AEA (oz): 1.0
WRA (oz): 4.0

CEMENT BRAND: ESSROC Cement – Type I/II
W/CM RATIO: 0.47
FINE AGG. SOURCE: F.S. Lopke, Inc. – Owego, NY
COARSE AGG. SOURCE: F.S. Lopke, Inc. – Owego, NY
COARSE AGG. SOURCE: F.S. Lopke, Inc. – Owego, NY
AEA BRAND: BASF Chemical Co. – MBVR Standard
WRA BRAND: BASF Chemical Co. – Polyheed 997

FIELD INFORMATION

At the request of AECOM, concrete testing was performed. Field testing was performed in accordance with the following ASTM methods: C 31, C 143, C 172, C 231 and C 1064.

Truck No.	Batch Time	Time Sampled	Finish Time	Air (%)	Slump (in)	Concrete Temp. (°F)	Air Temp. at the Point of Placement (°F)	Truck Volume (cy)	Water Added In Field (gal/cy)	Number of Cylinders Fabricated
55	1:19	2:03	2:45	6.0	3	65	42	10	0.0	4

Total Concrete Placed: 10 cy Total Concrete Tested: 10 cy Total Concrete Rejected: 0 cy

LABORATORY DATA (ASTM C 39, C 511, and C 1231)

Cylinder Number	Truck Number	Density (pcf)	Date of Test	Age (days)	Cylinder Diameter (in)	Cylinder Area (in ²)	Fracture Type (1-6)	Total Load (lbs)	Unit Load (psi)	Sample Location
2665C-93	55	143	04-03	7	6.02	28.46	5	86,220	3030	Pad: manhole numbers 1A and 1B
2665C-94			04-24	28	6.01	28.37	5	120,360	4240	
2665C-95			04-24	28	6.00	28.27	5	119,270	4220	
2665C-96				Hold						

REMARKS

The initial curing was performed outside the structure and the cylinders were covered with removable plastic lids. The final curing was performed in tanks filled with lime saturated water.

Cylinders were received on March 28, 2012.

Densities are approximate and are calculated based on cylinder weights and volumes determined in the laboratory.

Mr. Ryan Green, representing AECOM, was informed of all observations and test results prior to departure from the site.

Reviewed by:

Stephen J. Green

Date:

5-1-12



ATLANTIC TESTING LABORATORIES

CONCRETE REPORT ET2665C-18B-03-12

CLIENT: AECOM
PROJECT: NYSEG Court Street
(location) Binghamton, NY
CONTRACTOR: Tioga Construction
PLACEMENT LOCATION: Manhole numbers 1C and 1D top slab

PLACEMENT DATE: March 28, 2012 (Wednesday)
ATL REPRESENTATIVE: J. Orzel
SUPPLIER: C & C Ready Mix Corp.
PLANT LOCATION: Vestal, NY

MIX DESIGN DATA

MIX DATA OBTAINED FROM: Client
DESIGN STRENGTH AT 28 DAYS: 4000 psi
PER cy: CEMENT (lbs): 564
WATER (gals): 32.0
FINE AGG. (lbs): 1320
#1 COARSE AGG. (lbs): 450
#2 COARSE AGG. (lbs): 1300
AEA (oz): 1.0
WRA (oz): 4.0

Mix Designation: 060
CEMENT BRAND: ESSROC Cement – Type I/II
W/CM RATIO: 0.47
FINE AGG. SOURCE: F.S. Lopke, Inc. – Owego, NY
COARSE AGG. SOURCE: F.S. Lopke, Inc. – Owego, NY
COARSE AGG. SOURCE: F.S. Lopke, Inc. – Owego, NY
AEA BRAND: BASF Chemical Co. – MBVR Standard
WRA BRAND: BASF Chemical Co. – Polyheed 997

FIELD INFORMATION

At the request of AECOM, concrete testing was performed. Field testing was performed in accordance with the following ASTM methods: C 31, C 143, C 172, C 231 and C 1064.

Truck No.	Batch Time	Time Sampled	Finish Time	Air (%)	Slump (in)	Concrete Temp. (°F)	Air Temp. at the Point of Placement (°F)	Truck Volume (cy)	Water Added In Field (gal/cy)	Number of Cylinders Fabricated
68	2:47	3:25	3:45	5.0	3	75	72	10	1.0	4

Total Concrete Placed: 10 cy Total Concrete Tested: 10 cy Total Concrete Rejected: 0 cy

LABORATORY DATA (ASTM C 39, C 511, and C 1231)

Cylinder Number	Truck Number	Density (pcf)	Date of Test	Age (days)	Cylinder Diameter (in)	Cylinder Area (in ²)	Fracture Type (1-6)	Total Load (lbs)	Unit Load (psi)	Sample Location
2665C-97	68	147	04-04	7	5.98	28.09	6	105,460	3750	Manhole numbers 1C and 1D top slab
2665C-98			04-25	28	5.99	28.18	5	145,620	5170	
2665C-99			04-25	28	5.98	28.09	5	145,820	5190	
2665C-100				Hold						

REMARKS

The initial curing was performed in insulated boxes and the cylinders were covered with removable plastic lids. The final curing was performed in tanks filled with lime saturated water.

Cylinders were received on March 29, 2012.

Densities are approximate and are calculated based on cylinder weights and volumes determined in the laboratory.

Mr. Ryan Green, representing AECOM, was informed of all observations and test results prior to departure from the site.

Reviewed by:

Date:

5-1-12



Appendix J

Air Monitoring Results

(Compact Disk only)

Instrument: MiniRAE 2000 (PGM7600) Serial Number: 007111
User ID: 00000001 Site ID: 00000020
Data Points: 35 Gas Name: Isobutylene Sample Period: 900 sec
Last Calibration Time: 11/07/2011 08:44

```
=====
Measurement Type:                Min(ppm)                Avg(ppm)
High Alarm Levels:                100                    100
Low Alarm Levels:                 5.2                     5.2
=====
```

```
=====
Line#    Date Time        Min(ppm) Alarm    Avg(ppm) Alarm    Max(ppm)
=====
```

1	11/7/2011 8:55	0		0		0
2	11/7/2011 9:10	0		0		0
3	11/7/2011 9:25	0		0		0
4	11/7/2011 9:40	0		0		0
5	11/7/2011 9:55	0		0		0
6	11/7/2011 10:10	0		0		0
7	11/7/2011 10:25	0		0		0
8	11/7/2011 10:40	0		0		0
9	11/7/2011 10:55	0		0		0
10	11/7/2011 11:10	0		0		0
11	11/7/2011 11:25	0		0		0
12	11/7/2011 11:40	0		0		0.1
13	11/7/2011 11:55	0		0		0.5
14	11/7/2011 12:10	0		0		0.3
15	11/7/2011 12:25	0		0		0.6
16	11/7/2011 12:40	0		0		0
17	11/7/2011 12:55	0		0		0
18	11/7/2011 13:10	0		0		0.1
19	11/7/2011 13:25	0		0		0
20	11/7/2011 13:40	0		0		0
21	11/7/2011 13:55	0		0		0
22	11/7/2011 14:10	0		0		0
23	11/7/2011 14:25	0		0		0
24	11/7/2011 14:40	0		0		0
25	11/7/2011 14:55	0		0		0
26	11/7/2011 15:10	0		0		0
27	11/7/2011 15:25	0		0		0
28	11/7/2011 15:40	0		0		0
29	11/7/2011 15:55	0		0		0
30	11/7/2011 16:10	0		0		0
31	11/7/2011 16:25	0		0		0
32	11/7/2011 16:40	0		0		0
33	11/7/2011 16:55	0		0		0
34	11/7/2011 17:10	0		0		0
35	11/7/2011 17:25	0		0		0

```
=====
```

=====

Max(ppm)

100

5.2

=====

Alarm

=====

TrakPro Version 4.30 ASCII Data File

Model: Dust Trak
Model Num 8520
Serial Num 85200391
Test ID: 2
Test Abbreviation:
Start Date: 11/7/2011
Start Time: 9:27:41
Duration (c 0:08:45:00
Time const 10
Log Interval 15:00
Number of 35
Notes: DW2

Statistics Channel: Aerosol
Units: mg/m³
Average: 0.027
Minimum: 0.02
Time of Min 15:57:41
Date of Min 11/7/2011
Maximum: 0.038
Time of Max 11:12:41
Date of Max 11/7/2011

Calibration Sensor: Aerosol
Cal. date 11/7/2011

Date	Time	Aerosol
MM/dd/yyyy	hh:mm:ss	mg/m ³
11/7/2011	9:42:41	0.033
11/7/2011	9:57:41	0.035
11/7/2011	10:12:41	0.034
11/7/2011	10:27:41	0.035
11/7/2011	10:42:41	0.034
11/7/2011	10:57:41	0.036
11/7/2011	11:12:41	0.038
11/7/2011	11:27:41	0.034
11/7/2011	11:42:41	0.032
11/7/2011	11:57:41	0.03
11/7/2011	12:12:41	0.028
11/7/2011	12:27:41	0.033
11/7/2011	12:42:41	0.027
11/7/2011	12:57:41	0.026
11/7/2011	13:12:41	0.022
11/7/2011	13:27:41	0.028
11/7/2011	13:42:41	0.026

11/7/2011	13:57:41	0.025
11/7/2011	14:12:41	0.024
11/7/2011	14:27:41	0.024
11/7/2011	14:42:41	0.023
11/7/2011	14:57:41	0.021
11/7/2011	15:12:41	0.021
11/7/2011	15:27:41	0.021
11/7/2011	15:42:41	0.021
11/7/2011	15:57:41	0.02
11/7/2011	16:12:41	0.021
11/7/2011	16:27:41	0.02
11/7/2011	16:42:41	0.02
11/7/2011	16:57:41	0.022
11/7/2011	17:12:41	0.024
11/7/2011	17:27:41	0.024
11/7/2011	17:42:41	0.023
11/7/2011	17:57:41	0.027
11/7/2011	18:12:41	0.032

Instrument: MiniRAE 2000 (PGM7600) Serial Number: 902335
User ID: 00000001 Site ID: 00000009
Data Points: 34 Gas Name: Isobutylene Sample Period: 900 sec
Last Calibration Time: 11/07/2011 08:39

```
=====
Measurement Type:           Min(ppm)           Avg(ppm)           Max(ppm)
High Alarm Levels:           25              25              25
Low Alarm Levels:            5.2             5.2             5.2
=====
```

```
=====
Line#   Date Time       Min(ppm) Alarm   Avg(ppm) Alarm   Max(ppm) Alarm
=====
```

1	11/7/2011 9:22	1.8	3.2	4.8
2	11/7/2011 9:37	0	0.7	2.2
3	11/7/2011 9:52	0	0	0
4	11/7/2011 10:07	0	0	0
5	11/7/2011 10:22	0	0	0
6	11/7/2011 10:37	0	0	0
7	11/7/2011 10:52	0	0	0
8	11/7/2011 11:07	0	0	0
9	11/7/2011 11:22	0	0	0
10	11/7/2011 11:37	0	0	0
11	11/7/2011 11:52	0	0	0
12	11/7/2011 12:07	0	0	0
13	11/7/2011 12:22	0	0	0
14	11/7/2011 12:37	0	0	0
15	11/7/2011 12:52	0	0	0
16	11/7/2011 13:07	0	0	0
17	11/7/2011 13:22	0	0	0
18	11/7/2011 13:37	0	0	0
19	11/7/2011 13:52	0	0	0
20	11/7/2011 14:07	0	0	0
21	11/7/2011 14:22	0	0	0
22	11/7/2011 14:37	0	0	0
23	11/7/2011 14:52	0	0	0
24	11/7/2011 15:07	0	0	0
25	11/7/2011 15:22	0	0	0
26	11/7/2011 15:37	0	0	0
27	11/7/2011 15:52	0	0	0
28	11/7/2011 16:07	0	0	0
29	11/7/2011 16:22	0	0	0
30	11/7/2011 16:37	0	0	0
31	11/7/2011 16:52	0	0	0
32	11/7/2011 17:07	0	0	0
33	11/7/2011 17:22	0	0	0
34	11/7/2011 17:37	0	0	0

```
=====
```

=====

=====

=====

TrakPro Version 4.30 ASCII Data File

Model: Dust Trak
Model Num 8520
Serial Num 85197769
Test ID: 4
Test Abbreviation:
Start Date: 11/7/2011
Start Time: 9:19:41
Duration (c 0:08:30:00
Time const 10
Log Interval 15:00
Number of 34
Notes: UP

Statistics Channel: Aerosol
Units: mg/m³
Average: 0.029
Minimum: 0.019
Time of Min 15:34:41
Date of Min 11/7/2011
Maximum: 0.042
Time of Max 12:04:41
Date of Max 11/7/2011

Calibration Sensor: Aerosol
Cal. date 11/7/2011

Date	Time	Aerosol
MM/dd/yyyy	hh:mm:ss	mg/m ³
11/7/2011	9:34:41	0.041
11/7/2011	9:49:41	0.04
11/7/2011	10:04:41	0.039
11/7/2011	10:19:41	0.039
11/7/2011	10:34:41	0.039
11/7/2011	10:49:41	0.04
11/7/2011	11:04:41	0.038
11/7/2011	11:19:41	0.036
11/7/2011	11:34:41	0.035
11/7/2011	11:49:41	0.034
11/7/2011	12:04:41	0.042
11/7/2011	12:19:41	0.033
11/7/2011	12:34:41	0.025
11/7/2011	12:49:41	0.023
11/7/2011	13:04:41	0.03
11/7/2011	13:19:41	0.031
11/7/2011	13:34:41	0.029

11/7/2011	13:49:41	0.026
11/7/2011	14:04:41	0.029
11/7/2011	14:19:41	0.022
11/7/2011	14:34:41	0.022
11/7/2011	14:49:41	0.024
11/7/2011	15:04:41	0.022
11/7/2011	15:19:41	0.026
11/7/2011	15:34:41	0.019
11/7/2011	15:49:41	0.019
11/7/2011	16:04:41	0.024
11/7/2011	16:19:41	0.02
11/7/2011	16:34:41	0.021
11/7/2011	16:49:41	0.024
11/7/2011	17:04:41	0.022
11/7/2011	17:19:41	0.028
11/7/2011	17:34:41	0.024
11/7/2011	17:49:41	0.026

Instrument: MiniRAE 2000 (PGM7600) Serial Number: 013450
 User ID: 00000001 Site ID: 00000006
 Data Points: 35 Gas Name: Isobutylene Sample Period: 900 sec
 Last Calibration Time: 11/07/2011 08:48

```
=====
Measurement Type:                Min(ppm)                Avg(ppm)
High Alarm Levels:                100                    100
Low Alarm Levels:                 5.2                     5.2
=====
```

```
=====
Line#    Date Time                Min(ppm) Alarm    Avg(ppm) Alarm    Max(ppm)
=====
```

1	11/7/2011 9:07	0.1		0.1		0.3
2	11/7/2011 9:22	0.2		0.3		0.4
3	11/7/2011 9:37	0.3		0.3		0.4
4	11/7/2011 9:52	0.3		0.4		0.5
5	11/7/2011 10:07	0.4		0.5		0.7
6	11/7/2011 10:22	0.6		0.7		1
7	11/7/2011 10:37	0.7		0.8		1
8	11/7/2011 10:52	0.9		1		1.2
9	11/7/2011 11:07	0.7		0.8		1
10	11/7/2011 11:22	0.5		0.6		0.8
11	11/7/2011 11:37	0.4		0.4		0.6
12	11/7/2011 11:52	0.4		0.4		0.5
13	11/7/2011 12:07	0.3		0.3		0.4
14	11/7/2011 12:22	0.3		0.4		0.5
15	11/7/2011 12:37	0.3		0.3		0.4
16	11/7/2011 12:52	0.3		0.3		0.4
17	11/7/2011 13:07	0.3		0.3		0.6
18	11/7/2011 13:22	0.3		0.3		0.4
19	11/7/2011 13:37	0.3		0.3		0.5
20	11/7/2011 13:52	0.3		0.3		0.4
21	11/7/2011 14:07	0.3		0.3		0.4
22	11/7/2011 14:22	0.3		0.3		0.7
23	11/7/2011 14:37	0.3		0.3		0.5
24	11/7/2011 14:52	0.3		0.3		0.5
25	11/7/2011 15:07	0.3		0.3		0.4
26	11/7/2011 15:22	0.3		0.3		1
27	11/7/2011 15:37	0.3		0.3		0.6
28	11/7/2011 15:52	0.3		0.3		0.7
29	11/7/2011 16:07	0.3		0.3		0.7
30	11/7/2011 16:22	0.3		0.3		0.5
31	11/7/2011 16:37	0.3		0.4		0.8
32	11/7/2011 16:52	0.3		0.4		0.6
33	11/7/2011 17:07	0.4		0.4		0.5
34	11/7/2011 17:22	0.4		0.4		0.5
35	11/7/2011 17:37	0.4		0.4		0.6

```
=====
```

```
=====
Max(ppm)
    100
    5.2
=====
Alarm
=====
```

TrakPro Version 4.30 ASCII Data File

Model: Dust Trak
Model Num 8520
Serial Num 85200085
Test ID: 7
Test Abbreviation:
Start Date: 11/8/2011
Start Time: 10:08:16
Duration (c 0:08:00:00
Time const 10
Log Interval 15:00
Number of 32
Notes: DW 1

Statistics Channel: Aerosol
Units: mg/m³
Average: 0.03
Minimum: 0.019
Time of Min 16:23:16
Date of Min 11/8/2011
Maximum: 0.081
Time of Max 10:23:16
Date of Max 11/8/2011

Calibration Sensor: Aerosol
Cal. date 11/8/2011

Date	Time	Aerosol
MM/dd/yyyy	hh:mm:ss	mg/m ³
11/8/2011	10:23:16	0.081
11/8/2011	10:38:16	0.033
11/8/2011	10:53:16	0.031
11/8/2011	11:08:16	0.059
11/8/2011	11:23:16	0.036
11/8/2011	11:38:16	0.033
11/8/2011	11:53:16	0.029
11/8/2011	12:08:16	0.032
11/8/2011	12:23:16	0.029
11/8/2011	12:38:16	0.026
11/8/2011	12:53:16	0.024
11/8/2011	13:08:16	0.025
11/8/2011	13:23:16	0.025
11/8/2011	13:38:16	0.023
11/8/2011	13:53:16	0.021
11/8/2011	14:08:16	0.023
11/8/2011	14:23:16	0.025

11/8/2011	14:38:16	0.023
11/8/2011	14:53:16	0.022
11/8/2011	15:08:16	0.057
11/8/2011	15:23:16	0.027
11/8/2011	15:38:16	0.031
11/8/2011	15:53:16	0.028
11/8/2011	16:08:16	0.024
11/8/2011	16:23:16	0.019
11/8/2011	16:38:16	0.023
11/8/2011	16:53:16	0.022
11/8/2011	17:08:16	0.021
11/8/2011	17:23:16	0.023
11/8/2011	17:38:16	0.021
11/8/2011	17:53:16	0.026
11/8/2011	18:08:16	0.033

Instrument: MiniRAE 2000 (PGM7600)

Serial Number: 902335

User ID: 00000001 Site ID: 00000011

Data Points: 36 Gas Name: Isobutylene

Sample Period: 900 sec

Last Calibration Time: 11/08/2011 08:40

Measurement Type:

Min(ppm)

Avg(ppm)

High Alarm Levels:

25

25

Low Alarm Levels:

5.2

5.2

Line#	Date Time	Min(ppm)	Alarm	Avg(ppm)	Alarm	Max(ppm)
1	11/8/2011 8:52	0		0		0
2	11/8/2011 9:07	0		0		0
3	11/8/2011 9:22	0		0		0
4	11/8/2011 9:37	0		0		0
5	11/8/2011 9:52	0		0		0
6	11/8/2011 10:07	0		0		0
7	11/8/2011 10:22	0		0		0
8	11/8/2011 10:37	0		0		0
9	11/8/2011 10:52	0		0		0
10	11/8/2011 11:07	0		0		0
11	11/8/2011 11:22	0		0		0
12	11/8/2011 11:37	0		0		0
13	11/8/2011 11:52	0		0		0
14	11/8/2011 12:07	0		0		0
15	11/8/2011 12:22	0		0		0
16	11/8/2011 12:37	0		0		0
17	11/8/2011 12:52	0		0		0
18	11/8/2011 13:07	0		0		0
19	11/8/2011 13:22	0		0		0
20	11/8/2011 13:37	0		0		0
21	11/8/2011 13:52	0		0		0
22	11/8/2011 14:07	0		0		0
23	11/8/2011 14:22	0		0		0
24	11/8/2011 14:37	0		0		0
25	11/8/2011 14:52	0		0		0
26	11/8/2011 15:07	0		0		0
27	11/8/2011 15:22	0		0		0
28	11/8/2011 15:37	0		0		0
29	11/8/2011 15:52	0		0		0
30	11/8/2011 16:07	0		0		0
31	11/8/2011 16:22	0		0		0
32	11/8/2011 16:37	0		0		0
33	11/8/2011 16:52	0		0		0
34	11/8/2011 17:07	0		0		0
35	11/8/2011 17:22	0		0		0

36

11/8/2011 17:37

0

0

0

=====

Max(ppm)

25

5.2

=====

Alarm

=====

Instrument: MiniRAE 2000 (PGM7600) Serial Number: 902335
User ID: 00000001 Site ID: 00000011
Data Points: 36 Gas Name: Isobutylene Sample Period: 900 sec
Last Calibration Time: 11/08/2011 08:45

```
=====
Measurement Type:                Min(ppm)                Avg(ppm)
High Alarm Levels:                25                      25
Low Alarm Levels:                 5.2                     5.2
=====
```

```
=====
Line#   Date Time      Min(ppm) Alarm   Avg(ppm) Alarm   Max(ppm)
=====
```

1	11/8/2011 8:52	0		0		0
2	11/8/2011 9:07	0		0		0
3	11/8/2011 9:22	0		0		0
4	11/8/2011 9:37	0		0		0
5	11/8/2011 9:52	0		0		0
6	11/8/2011 10:07	0		0		0
7	11/8/2011 10:22	0		0		0
8	11/8/2011 10:37	0		0		0
9	11/8/2011 10:52	0		0		0
10	11/8/2011 11:07	0		0		0
11	11/8/2011 11:22	0		0		0
12	11/8/2011 11:37	0		0		0
13	11/8/2011 11:52	0		0		0
14	11/8/2011 12:07	0		0		0
15	11/8/2011 12:22	0		0		0
16	11/8/2011 12:37	0		0		0
17	11/8/2011 12:52	0		0		0
18	11/8/2011 13:07	0		0		0
19	11/8/2011 13:22	0		0		0
20	11/8/2011 13:37	0		0		0
21	11/8/2011 13:52	0		0		0
22	11/8/2011 14:07	0		0		0
23	11/8/2011 14:22	0		0		0
24	11/8/2011 14:37	0		0		0
25	11/8/2011 14:52	0		0		0
26	11/8/2011 15:07	0		0		0
27	11/8/2011 15:22	0		0		0
28	11/8/2011 15:37	0		0		0
29	11/8/2011 15:52	0		0		0
30	11/8/2011 16:07	0		0		0
31	11/8/2011 16:22	0		0		0
32	11/8/2011 16:37	0		0		0
33	11/8/2011 16:52	0		0		0
34	11/8/2011 17:07	0		0		0
35	11/8/2011 17:22	0		0		0

```
=====
```


=====

Max(ppm)

25

5.2

=====

Alarm

=====

TrakPro Version 4.30 ASCII Data File

Model: Dust Trak
 Model Number: 8520
 Serial Number: 85197769
 Test ID: 5
 Test Abbreviation:
 Start Date: 11/8/2011
 Start Time: 8:44:01
 Duration (dd:hh:mm:ss): 0:09:15:00
 Time constant (seconds): 10
 Log Interval (mm:ss): 15:00
 Number of points: 37
 Notes: UP

Statistics	Channel:	Aerosol
	Units:	mg/m ³
	Average:	0.027
	Minimum:	0.016
	Time of Minimum:	14:14:01
	Date of Minimum:	11/8/2011
	Maximum:	0.043
	Time of Maximum:	9:29:01
	Date of Maximum:	11/8/2011

Calibration	Sensor:	Aerosol
	Cal. date	11/8/2011

Date MM/dd/yyyy	Time hh:mm:ss	Aerosol mg/m ³
11/8/2011	8:59:01	0.036
11/8/2011	9:14:01	0.034
11/8/2011	9:29:01	0.043
11/8/2011	9:44:01	0.036
11/8/2011	9:59:01	0.036
11/8/2011	10:14:01	0.043
11/8/2011	10:29:01	0.038
11/8/2011	10:44:01	0.036
11/8/2011	10:59:01	0.032
11/8/2011	11:14:01	0.038
11/8/2011	11:29:01	0.034
11/8/2011	11:44:01	0.037
11/8/2011	11:59:01	0.03
11/8/2011	12:14:01	0.029
11/8/2011	12:29:01	0.024
11/8/2011	12:44:01	0.023
11/8/2011	12:59:01	0.022

11/8/2011	13:14:01	0.023
11/8/2011	13:29:01	0.021
11/8/2011	13:44:01	0.02
11/8/2011	13:59:01	0.018
11/8/2011	14:14:01	0.016
11/8/2011	14:29:01	0.016
11/8/2011	14:44:01	0.016
11/8/2011	14:59:01	0.023
11/8/2011	15:14:01	0.037
11/8/2011	15:29:01	0.018
11/8/2011	15:44:01	0.023
11/8/2011	15:59:01	0.023
11/8/2011	16:14:01	0.022
11/8/2011	16:29:01	0.02
11/8/2011	16:44:01	0.022
11/8/2011	16:59:01	0.025
11/8/2011	17:14:01	0.024
11/8/2011	17:29:01	0.021
11/8/2011	17:44:01	0.027
11/8/2011	17:59:01	0.031

Instrument: MiniRAE 2000 (PGM7600) Serial Number: 013450
 User ID: 00000001 Site ID: 00000006
 Data Points: 36 Gas Name: Isobutylene Sample Period: 900 sec
 Last Calibration Time: 11/08/2011 08:49

```
=====
Measurement Type:                Min(ppm)                Avg(ppm)
High Alarm Levels:                100                    100
Low Alarm Levels:                 5.2                     5.2
=====
```

```
=====
Line#    Date Time        Min(ppm) Alarm    Avg(ppm) Alarm    Max(ppm)
=====
```

1	11/8/2011 9:01	0		0		0.1
2	11/8/2011 9:16	0		0.1		0.2
3	11/8/2011 9:31	0.1		0.1		0.2
4	11/8/2011 9:46	0.2		0.2		0.2
5	11/8/2011 10:01	0.2		0.2		0.3
6	11/8/2011 10:16	0.2		0.2		0.3
7	11/8/2011 10:31	0.2		0.2		0.3
8	11/8/2011 10:46	0.2		0.2		0.3
9	11/8/2011 11:01	0.2		0.2		0.3
10	11/8/2011 11:16	0.3		0.3		0.3
11	11/8/2011 11:31	0.3		0.3		0.4
12	11/8/2011 11:46	0.3		0.3		0.4
13	11/8/2011 12:01	0.2		0.2		0.3
14	11/8/2011 12:16	0.2		0.3		0.4
15	11/8/2011 12:31	0.2		0.2		0.4
16	11/8/2011 12:46	0.2		0.2		0.3
17	11/8/2011 13:01	0.2		0.2		0.3
18	11/8/2011 13:16	0.2		0.2		0.4
19	11/8/2011 13:31	0.2		0.2		0.3
20	11/8/2011 13:46	0.2		0.2		0.3
21	11/8/2011 14:01	0.2		0.2		0.3
22	11/8/2011 14:16	0.2		0.2		0.2
23	11/8/2011 14:31	0.2		0.2		0.2
24	11/8/2011 14:46	0.2		0.2		0.2
25	11/8/2011 15:01	0.1		0.2		0.6
26	11/8/2011 15:16	0.2		0.2		0.3
27	11/8/2011 15:31	0.2		0.2		0.3
28	11/8/2011 15:46	0.2		0.2		1.5
29	11/8/2011 16:01	0.2		0.2		1
30	11/8/2011 16:16	0.2		0.2		0.3
31	11/8/2011 16:31	0.2		0.2		1
32	11/8/2011 16:46	0.2		0.2		0.4
33	11/8/2011 17:01	0.3		0.3		0.5
34	11/8/2011 17:16	0.3		0.3		0.5
35	11/8/2011 17:31	0.3		0.3		1.4

```
=====
```

36

11/8/2011 17:46

0.3

0.3

0.5

```
=====
Max(ppm)
    100
    5.2
=====
Alarm
=====
```


TrakPro Version 4.30 ASCII Data File

Model: Dust Trak
 Model Nun 8520
 Serial Nurr 85200391
 Test ID: 3
 Test Abbreviation:
 Start Date: 11/8/2011
 Start Time: 8:58:42
 Duration (c 0:09:15:00
 Time const 10
 Log Interv: 15:00
 Number of 37
 Notes: DW 2

Statistics Channel: Aerosol
 Units: mg/m^3
 Average: 0.028
 Minimum: 0.017
 Time of Minimum: 15:28:42
 Date of Minimum: 11/8/2011
 Maximum: 0.043
 Time of Maximum: 10:13:42
 Date of Maximum: 11/8/2011

Calibration Sensor: Aerosol
 Cal. date 11/8/2011

Date	Time	Aerosol
MM/dd/yyyy	hh:mm:ss	mg/m^3
11/8/2011	9:13:42	0.034
11/8/2011	9:28:42	0.034
11/8/2011	9:43:42	0.038
11/8/2011	9:58:42	0.034
11/8/2011	10:13:42	0.043
11/8/2011	10:28:42	0.039
11/8/2011	10:43:42	0.043
11/8/2011	10:58:42	0.034
11/8/2011	11:13:42	0.042
11/8/2011	11:28:42	0.039
11/8/2011	11:43:42	0.035
11/8/2011	11:58:42	0.037
11/8/2011	12:13:42	0.035
11/8/2011	12:28:42	0.037
11/8/2011	12:43:42	0.026
11/8/2011	12:58:42	0.027
11/8/2011	13:13:42	0.029

11/8/2011	13:28:42	0.024
11/8/2011	13:43:42	0.029
11/8/2011	13:58:42	0.023
11/8/2011	14:13:42	0.019
11/8/2011	14:28:42	0.018
11/8/2011	14:43:42	0.019
11/8/2011	14:58:42	0.018
11/8/2011	15:13:42	0.018
11/8/2011	15:28:42	0.017
11/8/2011	15:43:42	0.02
11/8/2011	15:58:42	0.021
11/8/2011	16:13:42	0.023
11/8/2011	16:28:42	0.022
11/8/2011	16:43:42	0.023
11/8/2011	16:58:42	0.021
11/8/2011	17:13:42	0.026
11/8/2011	17:28:42	0.021
11/8/2011	17:43:42	0.02
11/8/2011	17:58:42	0.032
11/8/2011	18:13:42	0.032

Instrument: MiniRAE 2000 (PGM7600)

Serial Number: 902335

User ID: 00000001 Site ID: 00000013

Data Points: 36 Gas Name: Isobutylene

Sample Period: 900 sec

Last Calibration Time: 11/09/2011 08:40

Measurement Type:

Min(ppm)

Avg(ppm)

High Alarm Levels:

25

25

Low Alarm Levels:

5.2

5.2

Line#	Date Time	Min(ppm)	Alarm	Avg(ppm)	Alarm	Max(ppm)
1	11/9/2011 8:54	0		0		0
2	11/9/2011 9:09	0		0		0
3	11/9/2011 9:24	0		0		0
4	11/9/2011 9:39	0		0		0
5	11/9/2011 9:54	0		0		0
6	11/9/2011 10:09	0		0		0
7	11/9/2011 10:24	0		0		0
8	11/9/2011 10:39	0		0		0
9	11/9/2011 10:54	0		0		0
10	11/9/2011 11:09	0		0		0
11	11/9/2011 11:24	0		0		0
12	11/9/2011 11:39	0		0		0
13	11/9/2011 11:54	0		0		0
14	11/9/2011 12:09	0		0		0
15	11/9/2011 12:24	0		0		0
16	11/9/2011 12:39	0		0		0
17	11/9/2011 12:54	0		0		0
18	11/9/2011 13:09	0		0		0
19	11/9/2011 13:24	0		0		0
20	11/9/2011 13:39	0		0		0
21	11/9/2011 13:54	0		0		0
22	11/9/2011 14:09	0		0		0
23	11/9/2011 14:24	0		0		0
24	11/9/2011 14:39	0		0		0
25	11/9/2011 14:54	0		0		0
26	11/9/2011 15:09	0		0		0
27	11/9/2011 15:24	0		0		0
28	11/9/2011 15:39	0		0		0
29	11/9/2011 15:54	0		0		0
30	11/9/2011 16:09	0		0		0
31	11/9/2011 16:24	0		0		0
32	11/9/2011 16:39	0		0		0
33	11/9/2011 16:54	0		0		0
34	11/9/2011 17:09	0		0		0
35	11/9/2011 17:24	0		0		0

=====

Max(ppm)

25

5.2

=====

Alarm

=====

TrakPro Version 4.30 ASCII Data File

Model: Dust Trak
Model Num 8520
Serial Num 85200085
Test ID: 8
Test Abbreviation:
Start Date: 11/9/2011
Start Time: 8:47:42
Duration (c 0:09:15:00
Time const 10
Log Interval 15:00
Number of 37
Notes: DW 1

Statistics Channel: Aerosol
Units: mg/m³
Average: 0.031
Minimum: 0.012
Time of Min 15:47:42
Date of Min 11/9/2011
Maximum: 0.076
Time of Max 9:02:42
Date of Max 11/9/2011

Calibration Sensor: Aerosol
Cal. date 11/9/2011

Date	Time	Aerosol
MM/dd/yyyy	hh:mm:ss	mg/m ³
11/9/2011	9:02:42	0.076
11/9/2011	9:17:42	0.034
11/9/2011	9:32:42	0.036
11/9/2011	9:47:42	0.037
11/9/2011	10:02:42	0.034
11/9/2011	10:17:42	0.041
11/9/2011	10:32:42	0.047
11/9/2011	10:47:42	0.033
11/9/2011	11:02:42	0.041
11/9/2011	11:17:42	0.049
11/9/2011	11:32:42	0.048
11/9/2011	11:47:42	0.022
11/9/2011	12:02:42	0.02
11/9/2011	12:17:42	0.018
11/9/2011	12:32:42	0.02
11/9/2011	12:47:42	0.072
11/9/2011	13:02:42	0.033

11/9/2011	13:17:42	0.023
11/9/2011	13:32:42	0.034
11/9/2011	13:47:42	0.03
11/9/2011	14:02:42	0.022
11/9/2011	14:17:42	0.019
11/9/2011	14:32:42	0.024
11/9/2011	14:47:42	0.024
11/9/2011	15:02:42	0.023
11/9/2011	15:17:42	0.032
11/9/2011	15:32:42	0.02
11/9/2011	15:47:42	0.012
11/9/2011	16:02:42	0.072
11/9/2011	16:17:42	0.019
11/9/2011	16:32:42	0.02
11/9/2011	16:47:42	0.022
11/9/2011	17:02:42	0.025
11/9/2011	17:17:42	0.014
11/9/2011	17:32:42	0.014
11/9/2011	17:47:42	0.016
11/9/2011	18:02:42	0.013

Instrument: MiniRAE 2000 (PGM7600) Serial Number: 007111
 User ID: 00000001 Site ID: 00000020
 Data Points: 36 Gas Name: Isobutylene Sample Period: 900 sec
 Last Calibration Time: 11/09/2011 08:44

```
=====
Measurement Type:                Min(ppm)                Avg(ppm)
High Alarm Levels:                100                    100
Low Alarm Levels:                 5.2                     5.2
=====
```

```
=====
Line#    Date Time                Min(ppm) Alarm    Avg(ppm) Alarm    Max(ppm)
=====
```

1	11/9/2011 9:03	0		0		0
2	11/9/2011 9:18	0		0		0
3	11/9/2011 9:33	0		0		0
4	11/9/2011 9:48	0		0		0
5	11/9/2011 10:03	0		0		0
6	11/9/2011 10:18	0		0		0
7	11/9/2011 10:33	0		0		0
8	11/9/2011 10:48	0		0		0
9	11/9/2011 11:03	0		0		0
10	11/9/2011 11:18	0		0		0
11	11/9/2011 11:33	0		0		0
12	11/9/2011 11:48	0		0		0
13	11/9/2011 12:03	0		0		0
14	11/9/2011 12:18	0		0		0
15	11/9/2011 12:33	0		0		0
16	11/9/2011 12:48	0		0		0
17	11/9/2011 13:03	0		0		0
18	11/9/2011 13:18	0		0		0
19	11/9/2011 13:33	0		0		0
20	11/9/2011 13:48	0		0		0
21	11/9/2011 14:03	0		0		0
22	11/9/2011 14:18	0		0		0
23	11/9/2011 14:33	0		0		0
24	11/9/2011 14:48	0		0		0
25	11/9/2011 15:03	0		0		0.2
26	11/9/2011 15:18	0		0		0
27	11/9/2011 15:33	0		0		0
28	11/9/2011 15:48	0		0		0
29	11/9/2011 16:03	0		0		0
30	11/9/2011 16:18	0		0		0
31	11/9/2011 16:33	0		0		0
32	11/9/2011 16:48	0		0		0
33	11/9/2011 17:03	0		0		0
34	11/9/2011 17:18	0		0		0
35	11/9/2011 17:33	0		0		0

```
=====
```

36

11/9/2011 17:48

0

0

0

```
=====
Max(ppm)
    100
    5.2
=====
Alarm
=====
```

TrakPro Version 4.30 ASCII Data File

Model: Dust Trak
 Model Number: 8520
 Serial Number: 85200391
 Test ID: 4
 Test Abbreviation:
 Start Date: 11/9/2011
 Start Time: 9:01:36
 Duration (dd:hh:mm:ss): 0:08:45:00
 Time constant (seconds): 10
 Log Interval (mm:ss): 15:00
 Number of points: 35
 Notes: DW2

Statistics Channel: Aerosol
 Units: mg/m³
 Average: 0.024
 Minimum: 0.013
 Time of Minimum: 14:31:36
 Date of Minimum: 11/9/2011
 Maximum: 0.048
 Time of Maximum: 11:31:36
 Date of Maximum: 11/9/2011

Calibration Sensor: Aerosol
 Cal. date: 11/9/2011

Date MM/dd/yyyy	Time hh:mm:ss	Aerosol mg/m ³
11/9/2011	9:16:36	0.036
11/9/2011	9:31:36	0.034
11/9/2011	9:46:36	0.035
11/9/2011	10:01:36	0.038
11/9/2011	10:16:36	0.04
11/9/2011	10:31:36	0.039
11/9/2011	10:46:36	0.043
11/9/2011	11:01:36	0.033
11/9/2011	11:16:36	0.034
11/9/2011	11:31:36	0.048
11/9/2011	11:46:36	0.045
11/9/2011	12:01:36	0.021
11/9/2011	12:16:36	0.014
11/9/2011	12:31:36	0.016
11/9/2011	12:46:36	0.018
11/9/2011	13:01:36	0.016
11/9/2011	13:16:36	0.019

11/9/2011	13:31:36	0.014
11/9/2011	13:46:36	0.015
11/9/2011	14:01:36	0.017
11/9/2011	14:16:36	0.018
11/9/2011	14:31:36	0.013
11/9/2011	14:46:36	0.016
11/9/2011	15:01:36	0.023
11/9/2011	15:16:36	0.015
11/9/2011	15:31:36	0.021
11/9/2011	15:46:36	0.021
11/9/2011	16:01:36	0.013
11/9/2011	16:16:36	0.018
11/9/2011	16:31:36	0.016
11/9/2011	16:46:36	0.017
11/9/2011	17:01:36	0.016
11/9/2011	17:16:36	0.015
11/9/2011	17:31:36	0.017
11/9/2011	17:46:36	0.019

TrakPro Version 4.30 ASCII Data File

Model: Dust Trak
 Model Number: 8520
 Serial Number: 85197769
 Test ID: 6
 Test Abbreviation:
 Start Date: 11/9/2011
 Start Time: 8:36:26
 Duration (dd:hh:mm:ss): 0:09:30:00
 Time constant (seconds): 10
 Log Interval (mm:ss): 15:00
 Number of points: 38
 Notes: UP

Statistics Channel: Aerosol
 Units: mg/m³
 Average: 0.022
 Minimum: 0.009
 Time of Minimum: 17:21:26
 Date of Minimum: 11/9/2011
 Maximum: 0.056
 Time of Maximum: 11:21:26
 Date of Maximum: 11/9/2011

Calibration Sensor: Aerosol
 Cal. date 11/9/2011

Date MM/dd/yyyy	Time hh:mm:ss	Aerosol mg/m ³
11/9/2011	8:51:26	0.035
11/9/2011	9:06:26	0.034
11/9/2011	9:21:26	0.038
11/9/2011	9:36:26	0.039
11/9/2011	9:51:26	0.041
11/9/2011	10:06:26	0.034
11/9/2011	10:21:26	0.042
11/9/2011	10:36:26	0.038
11/9/2011	10:51:26	0.037
11/9/2011	11:06:26	0.052
11/9/2011	11:21:26	0.056
11/9/2011	11:36:26	0.031
11/9/2011	11:51:26	0.03
11/9/2011	12:06:26	0.019
11/9/2011	12:21:26	0.025
11/9/2011	12:36:26	0.022
11/9/2011	12:51:26	0.016

11/9/2011	13:06:26	0.016
11/9/2011	13:21:26	0.015
11/9/2011	13:36:26	0.015
11/9/2011	13:51:26	0.014
11/9/2011	14:06:26	0.014
11/9/2011	14:21:26	0.014
11/9/2011	14:36:26	0.013
11/9/2011	14:51:26	0.012
11/9/2011	15:06:26	0.014
11/9/2011	15:21:26	0.012
11/9/2011	15:36:26	0.011
11/9/2011	15:51:26	0.011
11/9/2011	16:06:26	0.012
11/9/2011	16:21:26	0.011
11/9/2011	16:36:26	0.011
11/9/2011	16:51:26	0.012
11/9/2011	17:06:26	0.01
11/9/2011	17:21:26	0.009
11/9/2011	17:36:26	0.01
11/9/2011	17:51:26	0.011
11/9/2011	18:06:26	0.011

Instrument: MiniRAE 2000 (PGM7600) Serial Number: 013450
User ID: 00000001 Site ID: 00000006
Data Points: 37 Gas Name: Isobutylene Sample Period: 900 sec
Last Calibration Time: 11/07/2011 08:48

```
=====
Measurement Type:           Min(ppm)           Avg(ppm)           Max(ppm)
High Alarm Levels:         100             100             100
Low Alarm Levels:          5.2             5.2             5.2
=====
```

```
=====
Line#   Date Time       Min(ppm) Alarm   Avg(ppm) Alarm   Max(ppm) Alarm
=====
```

1	11/9/2011 8:52	0	0	0.1
2	11/9/2011 9:07	0.1	0.1	0.2
3	11/9/2011 9:22	0.1	0.1	0.2
4	11/9/2011 9:37	0.2	0.2	0.3
5	11/9/2011 9:52	0.2	0.2	0.3
6	11/9/2011 10:07	0.2	0.2	0.3
7	11/9/2011 10:22	0.2	0.2	0.3
8	11/9/2011 10:37	0.2	0.2	0.3
9	11/9/2011 10:52	0.3	0.3	0.4
10	11/9/2011 11:07	0.3	0.3	0.5
11	11/9/2011 11:22	0.4	0.4	0.5
12	11/9/2011 11:37	0.4	0.4	0.5
13	11/9/2011 11:52	0.4	0.4	0.5
14	11/9/2011 12:07	0.4	0.4	0.5
15	11/9/2011 12:22	0.4	0.4	0.5
16	11/9/2011 12:37	0.4	0.4	0.7
17	11/9/2011 12:52	0.4	0.4	0.5
18	11/9/2011 13:07	0.4	0.4	0.4
19	11/9/2011 13:22	0.3	0.3	0.5
20	11/9/2011 13:37	0.3	0.3	0.6
21	11/9/2011 13:52	0.3	0.3	0.5
22	11/9/2011 14:07	0.3	0.3	0.4
23	11/9/2011 14:22	0.3	0.3	0.4
24	11/9/2011 14:37	0.3	0.3	0.5
25	11/9/2011 14:52	0.3	0.3	0.5
26	11/9/2011 15:07	0.3	0.3	0.4
27	11/9/2011 15:22	0.3	0.3	0.4
28	11/9/2011 15:37	0.3	0.3	0.5
29	11/9/2011 15:52	0.3	0.3	0.7
30	11/9/2011 16:07	0.3	0.3	0.4
31	11/9/2011 16:22	0.3	0.3	0.5
32	11/9/2011 16:37	0.3	0.3	0.4
33	11/9/2011 16:52	0.3	0.3	0.4
34	11/9/2011 17:07	0.3	0.3	0.4
35	11/9/2011 17:22	0.3	0.3	0.5

```
=====
```

36	11/9/2011 17:37	0.3	0.3	0.4
37	11/9/2011 17:52	0.3	0.3	0.5

=====

=====

=====

Instrument: MiniRAE 2000 (PGM7600) Serial Number: 007111
User ID: 00000001 Site ID: 00000020
Data Points: 14 Gas Name: Isobutylene Sample Period: 900 sec
Last Calibration Time: 11/10/2011 11:43

```
=====
Measurement Type:                Min(ppm)                Avg(ppm)
High Alarm Levels:                100                    100
Low Alarm Levels:                 5.2                     5.2
=====
```

```
=====
Line#    Date Time      Min(ppm) Alarm    Avg(ppm) Alarm    Max(ppm)
=====
```

1	11/14/2011 8:25	0		0		0.1
2	11/14/2011 8:40	0		0		0
3	11/14/2011 8:55	0		0		0
4	11/14/2011 9:10	0		0		0.1
5	11/14/2011 9:25	0		0		0.1
6	11/14/2011 9:40	0		0		0
7	11/14/2011 9:55	0		0		0
8	11/14/2011 10:10	0		0		0.1
9	11/14/2011 10:25	0		0		0.1
10	11/14/2011 10:40	0		0		0.2
11	11/14/2011 10:55	0		0		0
12	11/14/2011 11:10	0		0		0.1
13	11/14/2011 11:25	0		0		0.1
14	11/14/2011 11:40	0		0		0.1

```
=====
```



```
=====
Max(ppm)
    100
    5.2
=====
Alarm
=====
```

TrakPro Version 4.30 ASCII Data File

Model: Dust Trak
 Model Number: 8520
 Serial Number: 85200391
 Test ID: 6
 Test Abbreviation:
 Start Date: 11/14/2011
 Start Time: 8:52:28
 Duration (dd:hh 0:08:00:00
 Time constant (: 10
 Log Interval (mr 15:00
 Number of point 32
 Notes: DW 2

Statistics Channel: Aerosol
 Units: mg/m³
 Average: 0.021
 Minimum: 0.016
 Time of Minimum 9:07:28
 Date of Minimum 11/14/2011
 Maximum: 0.035
 Time of Maximum 13:07:28
 Date of Maximum 11/14/2011

Calibration Sensor: Aerosol
 Cal. date 11/14/2011

Date MM/dd/yyyy	Time hh:mm:ss	Aerosol mg/m ³
11/14/2011	9:07:28	0.016
11/14/2011	9:22:28	0.018
11/14/2011	9:37:28	0.022
11/14/2011	9:52:28	0.019
11/14/2011	10:07:28	0.022
11/14/2011	10:22:28	0.022
11/14/2011	10:37:28	0.017
11/14/2011	10:52:28	0.019
11/14/2011	11:07:28	0.018
11/14/2011	11:22:28	0.017
11/14/2011	11:37:28	0.018
11/14/2011	11:52:28	0.033
11/14/2011	12:07:28	0.03
11/14/2011	12:22:28	0.022
11/14/2011	12:37:28	0.018
11/14/2011	12:52:28	0.033
11/14/2011	13:07:28	0.035

11/14/2011	13:22:28	0.021
11/14/2011	13:37:28	0.021
11/14/2011	13:52:28	0.018
11/14/2011	14:07:28	0.018
11/14/2011	14:22:28	0.02
11/14/2011	14:37:28	0.021
11/14/2011	14:52:28	0.021
11/14/2011	15:07:28	0.019
11/14/2011	15:22:28	0.018
11/14/2011	15:37:28	0.019
11/14/2011	15:52:28	0.018
11/14/2011	16:07:28	0.018
11/14/2011	16:22:28	0.021
11/14/2011	16:37:28	0.021
11/14/2011	16:52:28	0.02

Instrument: MiniRAE 2000 (PGM7600) Serial Number: 902335
User ID: 00000001 Site ID: 00000016
Data Points: 32 Gas Name: Isobutylene Sample Period: 900 sec
Last Calibration Time: 11/10/2011 11:43

```
=====
Measurement Type:                Min(ppm)                Avg(ppm)
High Alarm Levels:                25                      25
Low Alarm Levels:                 5.2                      5.2
=====
```

```
=====
Line#    Date Time    Min(ppm) Alarm    Avg(ppm) Alarm    Max(ppm)
=====
```

1	11/14/2011 8:25	0		0		0
2	11/14/2011 8:40	0		0		0
3	11/14/2011 8:55	0		0		0
4	11/14/2011 9:10	0		0		0
5	11/14/2011 9:25	0		0		0
6	11/14/2011 9:40	0		0		0
7	11/14/2011 9:55	0		0		0
8	11/14/2011 10:10	0		0		0
9	11/14/2011 10:25	0		0		0
10	11/14/2011 10:40	0		0		0
11	11/14/2011 10:55	0		0		0
12	11/14/2011 11:10	0		0		0
13	11/14/2011 11:25	0		0		0
14	11/14/2011 11:40	0		0		0
15	11/14/2011 11:55	0		0		0
16	11/14/2011 12:10	0		0		0
17	11/14/2011 12:25	0		0		0
18	11/14/2011 12:40	0		0		0
19	11/14/2011 12:55	0		0		0
20	11/14/2011 13:10	0		0		0
21	11/14/2011 13:25	0		0		0
22	11/14/2011 13:40	0		0		0
23	11/14/2011 13:55	0		0		0
24	11/14/2011 14:10	0		0		0
25	11/14/2011 14:25	0		0		0
26	11/14/2011 14:40	0		0		0
27	11/14/2011 14:55	0		0		0
28	11/14/2011 15:10	0		0		0
29	11/14/2011 15:25	0		0		0
30	11/14/2011 15:40	0		0		0
31	11/14/2011 15:55	0		0		0
32	11/14/2011 16:10	0		0		0

```
=====
```

```
=====
Max(ppm)
    25
    5.2
=====
Alarm
=====
```

TrakPro Version 4.30 ASCII Data File

Model: Dust Trak
 Model Number 8520
 Serial Number 85200085
 Test ID: 9
 Test Abbreviation:
 Start Date: 11/14/2011
 Start Time: 8:25:54
 Duration (dd:mm:ss) 10:08:15:00
 Time constant 10
 Log Interval (min) 15:00
 Number of points 33
 Notes: DW 1

Statistics Channel: Aerosol
 Units: mg/m³
 Average: 0.023
 Minimum: 0.017
 Time of Minimum 8:55:54
 Date of Minimum 11/14/2011
 Maximum: 0.051
 Time of Maximum 8:40:54
 Date of Maximum 11/14/2011

Calibration Sensor: Aerosol
 Cal. date 11/10/2011

Date MM/dd/yyyy	Time hh:mm:ss	Aerosol mg/m ³
11/14/2011	8:40:54	0.051
11/14/2011	8:55:54	0.017
11/14/2011	9:10:54	0.021
11/14/2011	9:25:54	0.019
11/14/2011	9:40:54	0.027
11/14/2011	9:55:54	0.026
11/14/2011	10:10:54	0.024
11/14/2011	10:25:54	0.034
11/14/2011	10:40:54	0.021
11/14/2011	10:55:54	0.018
11/14/2011	11:10:54	0.018
11/14/2011	11:25:54	0.023
11/14/2011	11:40:54	0.018
11/14/2011	11:55:54	0.024
11/14/2011	12:10:54	0.023
11/14/2011	12:25:54	0.02
11/14/2011	12:40:54	0.023

11/14/2011	12:55:54	0.019
11/14/2011	13:10:54	0.022
11/14/2011	13:25:54	0.03
11/14/2011	13:40:54	0.021
11/14/2011	13:55:54	0.022
11/14/2011	14:10:54	0.023
11/14/2011	14:25:54	0.023
11/14/2011	14:40:54	0.018
11/14/2011	14:55:54	0.019
11/14/2011	15:10:54	0.019
11/14/2011	15:25:54	0.019
11/14/2011	15:40:54	0.02
11/14/2011	15:55:54	0.021
11/14/2011	16:10:54	0.022
11/14/2011	16:25:54	0.021
11/14/2011	16:40:54	0.022

TrakPro Version 4.30 ASCII Data File

Model: Dust Trak
 Model Number: 8520
 Serial Number: 85200391
 Test ID: 6
 Test Abbreviation:
 Start Date: 11/14/2011
 Start Time: 8:52:28
 Duration (dd:hh:mm:ss) 0:08:00:00
 Time constant (secor) 10
 Log Interval (mm:ss): 15:00
 Number of points: 2/1/1900 0:00
 Notes: DW 2

Statistics	Channel:	Aerosol
	Units:	mg/m ³
	Average:	0.021
	Minimum:	0.016
	Time of Minimum:	9:07:28
	Date of Minimum:	11/14/2011
	Maximum:	0.035
	Time of Maximum:	13:07:28
	Date of Maximum:	11/14/2011

Calibration	Sensor:	Aerosol
	Cal. date	11/10/2011

Date	Time	Aerosol
MM/dd/yyyy	hh:mm:ss	mg/m ³
11/14/2011	9:07:28	0.016
11/14/2011	9:22:28	0.018
11/14/2011	9:37:28	0.022
11/14/2011	9:52:28	0.019
11/14/2011	10:07:28	0.022
11/14/2011	10:22:28	0.022
11/14/2011	10:37:28	0.017
11/14/2011	10:52:28	0.019
11/14/2011	11:07:28	0.018
11/14/2011	11:22:28	0.017
11/14/2011	11:37:28	0.018
11/14/2011	11:52:28	0.033
11/14/2011	12:07:28	0.03
11/14/2011	12:22:28	0.022
11/14/2011	12:37:28	0.018
11/14/2011	12:52:28	0.033
11/14/2011	13:07:28	0.035

11/14/2011	13:22:28	0.021
11/14/2011	13:37:28	0.021
11/14/2011	13:52:28	0.018
11/14/2011	14:07:28	0.018
11/14/2011	14:22:28	0.02
11/14/2011	14:37:28	0.021
11/14/2011	14:52:28	0.021
11/14/2011	15:07:28	0.019
11/14/2011	15:22:28	0.018
11/14/2011	15:37:28	0.019
11/14/2011	15:52:28	0.018
11/14/2011	16:07:28	0.018
11/14/2011	16:22:28	0.021
11/14/2011	16:37:28	0.021
11/14/2011	16:52:28	0.02

Instrument: MiniRAE 2000 (PGM7600)

Serial Number: 013450

User ID: 00000001 Site ID: 00000006

Data Points: 23 Gas Name: Isobutylene

Sample Period: 900 sec

Last Calibration Time: 11/10/2011 11:33

Measurement Type:

Min(ppm)

Avg(ppm)

High Alarm Levels:

100

100

Low Alarm Levels:

5.2

5.2

Line#	Date Time	Min(ppm)	Alarm	Avg(ppm)	Alarm	Max(ppm)
-------	-----------	----------	-------	----------	-------	----------

1	11/14/2011 8:26	0.1		0.1		0.2
2	11/14/2011 8:41	0.1		0.1		0.3
3	11/14/2011 8:56	0.2		0.2		0.4
4	11/14/2011 9:11	0.2		0.2		0.4
5	11/14/2011 9:26	0.2		0.2		0.3
6	11/14/2011 9:41	0.3		0.3		0.5
7	11/14/2011 9:56	0.3		0.4		0.6
8	11/14/2011 10:11	0.3		0.4		0.5
9	11/14/2011 10:26	0.4		0.4		0.5
10	11/14/2011 10:41	0.4		0.4		0.5
11	11/14/2011 10:56	0.4		0.4		0.5
12	11/14/2011 11:11	0.4		0.4		0.5
13	11/14/2011 11:26	0.4		0.4		0.5
14	11/14/2011 11:41	0.4		0.4		0.5
15	11/14/2011 11:56	0.4		0.5		0.7
16	11/14/2011 12:11	0.5		0.5		0.7
17	11/14/2011 12:26	0.5		0.5		0.6
18	11/14/2011 12:41	0.4		0.4		0.5
19	11/14/2011 12:56	0.4		0.4		0.6
20	11/14/2011 13:11	0.4		0.4		0.5
21	11/14/2011 13:26	0.4		0.4		0.6
22	11/14/2011 13:41	0.4		0.4		0.5
23	11/14/2011 13:56	0.4		0.4		0.7

```
=====
Max(ppm)
    100
    5.2
=====
Alarm
=====
```

TrakPro Version 4.30 ASCII Data File

Model: Dust Trak
 Model Number 8520
 Serial Number 85200085
 Test ID: 10
 Test Abbreviation:
 Start Date: 11/15/2011
 Start Time: 8:51:40
 Duration (dd:hh:mm:ss) 0:09:30:00
 Time constant 10
 Log Interval (r) 15:00
 Number of points 38
 Notes: DW1

Statistics Channel: Aerosol
 Units: mg/m³
 Average: 0.019
 Minimum: 0.013
 Time of Minimum 10:21:40
 Date of Minimum: 11/15/2011
 Maximum: 0.035
 Time of Maximum 9:06:40
 Date of Maximum 11/15/2011

Calibration Sensor: Aerosol
 Cal. date 11/15/2011

Date MM/dd/yyyy	Time hh:mm:ss	Aerosol mg/m ³
11/15/2011	9:06:40	0.035
11/15/2011	9:21:40	0.019
11/15/2011	9:36:40	0.025
11/15/2011	9:51:40	0.017
11/15/2011	10:06:40	0.015
11/15/2011	10:21:40	0.013
11/15/2011	10:36:40	0.014
11/15/2011	10:51:40	0.015
11/15/2011	11:06:40	0.016
11/15/2011	11:21:40	0.019
11/15/2011	11:36:40	0.018
11/15/2011	11:51:40	0.017
11/15/2011	12:06:40	0.02
11/15/2011	12:21:40	0.017
11/15/2011	12:36:40	0.015
11/15/2011	12:51:40	0.017
11/15/2011	13:06:40	0.02

11/15/2011	13:21:40	0.023
11/15/2011	13:36:40	0.022
11/15/2011	13:51:40	0.023
11/15/2011	14:06:40	0.022
11/15/2011	14:21:40	0.019
11/15/2011	14:36:40	0.016
11/15/2011	14:51:40	0.024
11/15/2011	15:06:40	0.02
11/15/2011	15:21:40	0.02
11/15/2011	15:36:40	0.019
11/15/2011	15:51:40	0.019
11/15/2011	16:06:40	0.021
11/15/2011	16:21:40	0.019
11/15/2011	16:36:40	0.019
11/15/2011	16:51:40	0.018
11/15/2011	17:06:40	0.018
11/15/2011	17:21:40	0.02
11/15/2011	17:36:40	0.021
11/15/2011	17:51:40	0.02
11/15/2011	18:06:40	0.021
11/15/2011	18:21:40	0.021

Instrument: MiniRAE 2000 (PGM7600) Serial Number: 007111
User ID: 00000001 Site ID: 00000020
Data Points: 34 Gas Name: Isobutylene Sample Period: 900 sec
Last Calibration Time: 11/15/2011 08:17

```
=====
Measurement Type:                Min(ppm)                Avg(ppm)
High Alarm Levels:                100                    100
Low Alarm Levels:                 5.2                     5.2
=====
```

```
=====
Line#    Date Time      Min(ppm) Alarm    Avg(ppm) Alarm    Max(ppm)
=====
```

1	11/15/2011 9:08	0		0		0.2
2	11/15/2011 9:23	0		0		0.2
3	11/15/2011 9:38	0		0		0.4
4	11/15/2011 9:53	0		0		0.1
5	11/15/2011 10:08	0		0		0.1
6	11/15/2011 10:23	0		0		0.1
7	11/15/2011 10:38	0		0		0.1
8	11/15/2011 10:53	0		0		0.1
9	11/15/2011 11:08	0		0		0.1
10	11/15/2011 11:23	0		0		0.1
11	11/15/2011 11:38	0		0		0.1
12	11/15/2011 11:53	0		0		0.1
13	11/15/2011 12:08	0		0		0.1
14	11/15/2011 12:23	0		0		0.2
15	11/15/2011 12:38	0		0		0.1
16	11/15/2011 12:53	0		0		0.1
17	11/15/2011 13:08	0		0		0.1
18	11/15/2011 13:23	0		0		0.1
19	11/15/2011 13:38	0		0		0.2
20	11/15/2011 13:53	0		0		0.2
21	11/15/2011 14:08	0		0		0.2
22	11/15/2011 14:23	0		0		0.2
23	11/15/2011 14:38	0		0		0.1
24	11/15/2011 14:53	0		0		0.1
25	11/15/2011 15:08	0		0		0.1
26	11/15/2011 15:23	0		0		0.3
27	11/15/2011 15:38	0		0		0.1
28	11/15/2011 15:53	0		0		0.1
29	11/15/2011 16:08	0		0		0.2
30	11/15/2011 16:23	0		0		0.1
31	11/15/2011 16:38	0		0		0.2
32	11/15/2011 16:53	0		0		0.2
33	11/15/2011 17:08	0		0		0.2
34	11/15/2011 17:23	0		0		0.1

```
=====
```

=====

Max(ppm)

100

5.2

=====

Alarm

=====

TrakPro Version 4.30 ASCII Data File

Model: Dust Trak
 Model Number: 8520
 Serial Number: 85200391
 Test ID: 7
 Test Abbreviation:
 Start Date: 11/15/2011
 Start Time: 9:08:47
 Duration (dd:hh:mm:ss): 0:09:30:00
 Time constant (sec): 10
 Log Interval (mm:ss): 15:00
 Number of points: 38
 Notes: DW2

Statistics Channel: Aerosol
 Units: mg/m³
 Average: 0.017
 Minimum: 0.011
 Time of Minimum: 9:23:47
 Date of Minimum: 11/15/2011
 Maximum: 0.021
 Time of Maximum: 12:23:47
 Date of Maximum: 11/15/2011

Calibration Sensor: Aerosol
 Cal. date 11/15/2011

Date MM/dd/yyyy	Time hh:mm:ss	Aerosol mg/m ³
11/15/2011	9:23:47	0.011
11/15/2011	9:38:47	0.017
11/15/2011	9:53:47	0.019
11/15/2011	10:08:47	0.016
11/15/2011	10:23:47	0.014
11/15/2011	10:38:47	0.013
11/15/2011	10:53:47	0.012
11/15/2011	11:08:47	0.016
11/15/2011	11:23:47	0.015
11/15/2011	11:38:47	0.016
11/15/2011	11:53:47	0.017
11/15/2011	12:08:47	0.017
11/15/2011	12:23:47	0.021
11/15/2011	12:38:47	0.017
11/15/2011	12:53:47	0.015
11/15/2011	13:08:47	0.014
11/15/2011	13:23:47	0.018

11/15/2011	13:38:47	0.017
11/15/2011	13:53:47	0.017
11/15/2011	14:08:47	0.018
11/15/2011	14:23:47	0.018
11/15/2011	14:38:47	0.016
11/15/2011	14:53:47	0.014
11/15/2011	15:08:47	0.019
11/15/2011	15:23:47	0.019
11/15/2011	15:38:47	0.017
11/15/2011	15:53:47	0.015
11/15/2011	16:08:47	0.016
11/15/2011	16:23:47	0.018
11/15/2011	16:38:47	0.016
11/15/2011	16:53:47	0.016
11/15/2011	17:08:47	0.015
11/15/2011	17:23:47	0.016
11/15/2011	17:38:47	0.017
11/15/2011	17:53:47	0.018
11/15/2011	18:08:47	0.018
11/15/2011	18:23:47	0.018
11/15/2011	18:38:47	0.021

Instrument: MiniRAE 2000 (PGM7600) Serial Number: 902335
User ID: 00000001 Site ID: 00000018
Data Points: 39 Gas Name: Isobutylene Sample Period: 900 sec
Last Calibration Time: 11/15/2011 08:18

```
=====
Measurement Type:                Min(ppm)                Avg(ppm)
High Alarm Levels:                25                      25
Low Alarm Levels:                 5.2                      5.2
=====
```

```
=====
Line#    Date Time    Min(ppm) Alarm    Avg(ppm) Alarm    Max(ppm)
=====
```

1	11/15/2011 8:39	0		0		0
2	11/15/2011 8:54	0		0		0
3	11/15/2011 9:09	0		0		0
4	11/15/2011 9:24	0		0		0
5	11/15/2011 9:39	0		0		0
6	11/15/2011 9:54	0		0		0
7	#####	0		0		0
8	#####	0		0		0
9	#####	0		0		0
10	#####	0		0		0
11	#####	0		0		0
12	#####	0		0		0
13	#####	0		0		0
14	#####	0		0		0
15	#####	0		0		0
16	#####	0		0		0
17	#####	0		0		0
18	#####	0		0		0
19	#####	0		0		0
20	#####	0		0		0
21	#####	0		0		0
22	#####	0		0		0
23	#####	0		0		0
24	#####	0		0		0
25	#####	0		0		0
26	#####	0		0		0
27	#####	0		0		0
28	#####	0		0		0
29	#####	0		0		0
30	#####	0		0		0
31	#####	0		0		0
32	#####	0		0		0
33	#####	0		0		0
34	#####	0		0		0
35	#####	0		0		0

```
=====
```


36	#####	0	0	0
37	#####	0	0	0
38	#####	0	0	0
39	#####	0	0	0

=====

Max(ppm)

25

5.2

=====

Alarm

=====

TrakPro Version 4.30 ASCII Data File

Model: Dust Trak
 Model Number: 8520
 Serial Number: 85197769
 Test ID: 8
 Test Abbreviation:
 Start Date: 11/15/2011
 Start Time: 8:35:29
 Duration (dd:hh 0:09:45:00
 Time constant (10
 Log Interval (mi 15:00
 Number of poin 39
 Notes: UP

Statistics Channel: Aerosol
 Units: mg/m³
 Average: 0.022
 Minimum: 0.014
 Time of Minimu 10:20:29
 Date of Minimu 11/15/2011
 Maximum: 0.034
 Time of Maximu 12:05:29
 Date of Maximu 11/15/2011

Calibration Sensor: Aerosol
 Cal. date 11/15/2011

Date MM/dd/yyyy	Time hh:mm:ss	Aerosol mg/m ³
11/15/2011	8:50:29	0.02
11/15/2011	9:05:29	0.015
11/15/2011	9:20:29	0.022
11/15/2011	9:35:29	0.016
11/15/2011	9:50:29	0.017
11/15/2011	10:05:29	0.018
11/15/2011	10:20:29	0.014
11/15/2011	10:35:29	0.014
11/15/2011	10:50:29	0.026
11/15/2011	11:05:29	0.031
11/15/2011	11:20:29	0.03
11/15/2011	11:35:29	0.029
11/15/2011	11:50:29	0.025
11/15/2011	12:05:29	0.034
11/15/2011	12:20:29	0.026
11/15/2011	12:35:29	0.02
11/15/2011	12:50:29	0.03

11/15/2011	13:05:29	0.023
11/15/2011	13:20:29	0.022
11/15/2011	13:35:29	0.021
11/15/2011	13:50:29	0.022
11/15/2011	14:05:29	0.023
11/15/2011	14:20:29	0.024
11/15/2011	14:35:29	0.018
11/15/2011	14:50:29	0.029
11/15/2011	15:05:29	0.023
11/15/2011	15:20:29	0.023
11/15/2011	15:35:29	0.019
11/15/2011	15:50:29	0.021
11/15/2011	16:05:29	0.022
11/15/2011	16:20:29	0.021
11/15/2011	16:35:29	0.02
11/15/2011	16:50:29	0.02
11/15/2011	17:05:29	0.02
11/15/2011	17:20:29	0.022
11/15/2011	17:35:29	0.024
11/15/2011	17:50:29	0.022
11/15/2011	18:05:29	0.022
11/15/2011	18:20:29	0.022

Instrument: MiniRAE 2000 (PGM7600) Serial Number: 013450
User ID: 00000001 Site ID: 00000006
Data Points: 40 Gas Name: Isobutylene Sample Period: 900 sec
Last Calibration Time: 11/15/2011 08:15

```
=====
Measurement Type:                Min(ppm)                Avg(ppm)
High Alarm Levels:                100                    100
Low Alarm Levels:                 5.2                     5.2
=====
```

```
=====
Line#    Date Time      Min(ppm) Alarm    Avg(ppm) Alarm    Max(ppm)
=====
```

1	11/15/2011 8:36	0.1		0.1		0.5
2	11/15/2011 8:51	0.1		0.1		0.1
3	11/15/2011 9:06	0.1		0.1		0.2
4	11/15/2011 9:21	0.1		0.1		0.2
5	11/15/2011 9:36	0.1		0.1		0.3
6	11/15/2011 9:51	0.1		0.1		0.2
7	11/15/2011 10:06	0.1		0.1		0.2
8	11/15/2011 10:21	0.2		0.2		0.2
9	11/15/2011 10:36	0.2		0.2		0.3
10	11/15/2011 10:51	0.2		0.2		0.6
11	11/15/2011 11:06	0.2		0.2		0.3
12	11/15/2011 11:21	0.2		0.2		0.4
13	11/15/2011 11:36	0.3		0.3		0.6
14	11/15/2011 11:51	0.3		0.3		0.6
15	11/15/2011 12:06	0.3		0.3		0.6
16	11/15/2011 12:21	0.3		0.3		0.4
17	11/15/2011 12:36	0.3		0.3		0.5
18	11/15/2011 12:51	0.3		0.3		0.3
19	11/15/2011 13:06	0.3		0.3		0.3
20	11/15/2011 13:21	0.3		0.3		5.2
21	11/15/2011 13:36	0.3		0.3		0.3
22	11/15/2011 13:51	0.3		0.3		0.4
23	11/15/2011 14:06	0.3		0.3		0.7
24	11/15/2011 14:21	0.3		0.3		0.6
25	11/15/2011 14:36	0.3		0.3		0.4
26	11/15/2011 14:51	0.3		0.3		0.4
27	11/15/2011 15:06	0.3		0.3		0.4
28	11/15/2011 15:21	0.3		0.3		0.3
29	11/15/2011 15:36	0.3		0.3		0.4
30	11/15/2011 15:51	0.3		0.3		0.4
31	11/15/2011 16:06	0.3		0.3		0.4
32	11/15/2011 16:21	0.3		0.3		0.4
33	11/15/2011 16:36	0.3		0.3		0.5
34	11/15/2011 16:51	0.3		0.3		0.4
35	11/15/2011 17:06	0.3		0.3		0.4

```
=====
```

36	11/15/2011 17:21	0.3	0.3	0.4
37	11/15/2011 17:36	0.3	0.3	0.4
38	11/15/2011 17:51	0.3	0.3	0.4
39	11/15/2011 18:06	0.3	0.3	0.4
40	11/15/2011 18:21	0.3	0.3	0.4


```
=====
Max(ppm)
    100
    5.2
=====
Alarm
=====
```

TrakPro Version 4.30 ASCII Data File

Model: Dust Trak
 Model Number: 8520
 Serial Number: 85200391
 Test ID: 8
 Test Abbreviation:
 Start Date: 11/16/2011
 Start Time: 9:31:09
 Duration (dd:hh:mm:ss): 0:08:15:00
 Time constant (:): 10
 Log Interval (min): 15:00
 Number of points: 33
 Notes: DW 1

Statistics Channel: Aerosol
 Units: mg/m³
 Average: 0.026
 Minimum: 0.014
 Time of Minimum: 13:46:09
 Date of Minimum: 11/16/2011
 Maximum: 0.04
 Time of Maximum: 10:16:09
 Date of Maximum: 11/16/2011

Calibration Sensor: Aerosol
 Cal. date: 11/16/2011

Date MM/dd/yyyy	Time hh:mm:ss	Aerosol mg/m ³
11/16/2011	9:46:09	0.038
11/16/2011	10:01:09	0.034
11/16/2011	10:16:09	0.04
11/16/2011	10:31:09	0.036
11/16/2011	10:46:09	0.037
11/16/2011	11:01:09	0.037
11/16/2011	11:16:09	0.037
11/16/2011	11:31:09	0.029
11/16/2011	11:46:09	0.03
11/16/2011	12:01:09	0.029
11/16/2011	12:16:09	0.032
11/16/2011	12:31:09	0.019
11/16/2011	12:46:09	0.018
11/16/2011	13:01:09	0.023
11/16/2011	13:16:09	0.018
11/16/2011	13:31:09	0.015
11/16/2011	13:46:09	0.014

11/16/2011	14:01:09	0.015
11/16/2011	14:16:09	0.017
11/16/2011	14:31:09	0.019
11/16/2011	14:46:09	0.021
11/16/2011	15:01:09	0.022
11/16/2011	15:16:09	0.023
11/16/2011	15:31:09	0.03
11/16/2011	15:46:09	0.026
11/16/2011	16:01:09	0.024
11/16/2011	16:16:09	0.022
11/16/2011	16:31:09	0.023
11/16/2011	16:46:09	0.023
11/16/2011	17:01:09	0.023
11/16/2011	17:16:09	0.026
11/16/2011	17:31:09	0.025
11/16/2011	17:46:09	0.021

Instrument: MiniRAE 2000 (PGM7600) Serial Number: 007111
 User ID: 00000001 Site ID: 00000020
 Data Points: 32 Gas Name: Isobutylene Sample Period: 900 sec
 Last Calibration Time: 11/16/2011 08:21

```
=====
Measurement Type:                Min(ppm)                Avg(ppm)
High Alarm Levels:                100                    100
Low Alarm Levels:                 5.2                     5.2
=====
```

```
=====
Line#    Date Time      Min(ppm) Alarm    Avg(ppm) Alarm    Max(ppm)
=====
```

1	11/16/2011 9:23	0		0	0
2	11/16/2011 9:38	0		0	0
3	11/16/2011 9:53	0		0	0
4	11/16/2011 10:08	0		0	0
5	11/16/2011 10:23	0		0	0
6	11/16/2011 10:38	0		0	0.2
7	11/16/2011 10:53	0		0	0.4
8	11/16/2011 11:08	0:00:00		0	0.3
9	11/16/2011 11:23	1/0/1900		0	0.3
10	11/16/2011 11:38	0		0	0.3
11	11/16/2011 11:53	0:00:00		0	0.4
12	11/16/2011 12:08	1/0/1900		0	0.3
13	11/16/2011 12:23	0		0	0.4
14	11/16/2011 12:38	0		0	0.2
15	11/16/2011 12:53	1/0/1900		0	0.3
16	11/16/2011 13:08	0		0	0.3
17	11/16/2011 13:23	0		0	0.5
18	11/16/2011 13:38	0		0	0.4
1/19/1900	11/16/2011 13:53	0		0.1	0.4
1/20/1900	11/16/2011 14:08	0		0.1	0.4
1/21/1900	11/16/2011 14:23	0		0.1	0.4
1/22/1900	11/16/2011 14:38	0		0.1	0.4
1/23/1900	11/16/2011 14:53	0		0.1	0.4
1/24/1900	11/16/2011 15:08	0		0.1	0.4
1/25/1900	11/16/2011 15:23	0		0.2	0.3
1/26/1900	11/16/2011 15:38	0		0.2	0.3
1/27/1900	11/16/2011 15:53	0.1		0.2	0.4
1/28/1900	11/16/2011 16:08	0.1		0.2	0.4
1/29/1900	11/16/2011 16:23	0		0.2	0.5
1/30/1900	11/16/2011 16:38	0		0.2	0.6
1/31/1900	11/16/2011 16:53	0		0.2	0.6
2/1/1900	11/16/2011 17:08	0		0.2	0.4

```
=====
```

```
=====
Max(ppm)
    100
    5.2
=====
Alarm
=====
```

TrakPro Version 4.30 ASCII Data File

Model: Dust Trak
 Model Number: 8520
 Serial Number: 85200085
 Test ID: 11
 Test Abbreviation:
 Start Date: 11/16/2011
 Start Time: 9:07:01
 Duration (dd:hh:mm:ss): 00:08:15:00
 Time constant (sec): 10
 Log Interval (mm:ss): 15:00
 Number of points: 33
 Notes: DW 2

Statistics Channel: Aerosol
 Units: mg/m³
 Average: 0.036
 Minimum: 0.017
 Time of Minimum: 13:22:01
 Date of Minimum: 11/16/2011
 Maximum: 0.098
 Time of Maximum: 12:37:01
 Date of Maximum: 11/16/2011

Calibration Sensor: Aerosol
 Cal. date 11/16/2011

Date MM/dd/yyyy	Time hh:mm:ss	Aerosol mg/m ³
11/16/2011	9:22:01	0.06
11/16/2011	9:37:01	0.038
11/16/2011	9:52:01	0.041
11/16/2011	10:07:01	0.04
11/16/2011	10:22:01	0.039
11/16/2011	10:37:01	0.042
11/16/2011	10:52:01	0.042
11/16/2011	11:07:01	0.058
11/16/2011	11:22:01	0.035
11/16/2011	11:37:01	0.038
11/16/2011	11:52:01	0.05
11/16/2011	12:07:01	0.052
11/16/2011	12:22:01	0.04
11/16/2011	12:37:01	0.098
11/16/2011	12:52:01	0.023
11/16/2011	13:07:01	0.02
11/16/2011	13:22:01	0.017

11/16/2011	13:37:01	0.02
11/16/2011	13:52:01	0.021
11/16/2011	14:07:01	0.031
11/16/2011	14:22:01	0.031
11/16/2011	14:37:01	0.038
11/16/2011	14:52:01	0.03
11/16/2011	15:07:01	0.036
11/16/2011	15:22:01	0.034
11/16/2011	15:37:01	0.032
11/16/2011	15:52:01	0.027
11/16/2011	16:07:01	0.028
11/16/2011	16:22:01	0.026
11/16/2011	16:37:01	0.025
11/16/2011	16:52:01	0.029
11/16/2011	17:07:01	0.032
11/16/2011	17:22:01	0.029

Instrument: MiniRAE 2000 (PGM7600) Serial Number: 902335
User ID: 00000001 Site ID: 00000021
Data Points: 34 Gas Name: Isobutylene Sample Period: 900 sec
Last Calibration Time: 11/16/2011 08:17

=====

Measurement Type:	Min(ppm)	Avg(ppm)
High Alarm Levels:	25	25
Low Alarm Levels:	5.2	5.2

=====

=====

Line#	Date Time	Min(ppm)	Alarm	Avg(ppm)	Alarm	Max(ppm)
-------	-----------	----------	-------	----------	-------	----------

=====

1	11/16/2011 8:44	0		0		0
2	11/16/2011 8:59	0		0		0
3	11/16/2011 9:14	0		0		0
4	11/16/2011 9:29	0		0		0
5	11/16/2011 9:44	0		0		0
6	11/16/2011 9:59	0		0		0
7	11/16/2011 10:14	0		0		0
8	11/16/2011 10:29	0		0		0
9	11/16/2011 10:44	0		0		0
10	11/16/2011 10:59	0		0		0
11	11/16/2011 11:14	0		0		0
12	11/16/2011 11:29	0		0		0
13	11/16/2011 11:44	0		0		0
14	11/16/2011 11:59	0		0		0
15	11/16/2011 12:14	0		0		0
16	11/16/2011 12:29	0		0		0
17	11/16/2011 12:44	0		0		0
18	11/16/2011 12:59	0		0		0
19	11/16/2011 13:14	0		0		0
20	11/16/2011 13:29	0		0		0
21	11/16/2011 13:44	0		0		0
22	11/16/2011 13:59	0		0		0
23	11/16/2011 14:14	0		0		0
24	11/16/2011 14:29	0		0		0
25	11/16/2011 14:44	0		0		0
26	11/16/2011 14:59	0		0		0
27	11/16/2011 15:14	0		0		0
28	11/16/2011 15:29	0		0		0
29	11/16/2011 15:44	0		0		0
30	11/16/2011 15:59	0		0		0
31	11/16/2011 16:14	0		0		0
32	11/16/2011 16:29	0		0		0
33	11/16/2011 16:44	0		0		0
34	11/16/2011 16:59	0		0		0

=====

=====

Max(ppm)

25

5.2

=====

Alarm

=====

TrakPro Version 4.30 ASCII Data File

Model: Dust Trak
 Model Number: 8520
 Serial Number: 85197769
 Test ID: 9
 Test Abbreviation:
 Start Date: 11/16/2011
 Start Time: 8:57:52
 Duration (dd:hh:mm:ss): 0:08:15:00
 Time constant (s): 10
 Log Interval (min): 15:00
 Number of points: 33
 Notes: UP

Statistics Channel: Aerosol
 Units: mg/m³
 Average: 0.027
 Minimum: 0.014
 Time of Minimum: 13:12:52
 Date of Minimum: 11/16/2011
 Maximum: 0.043
 Time of Maximum: 9:57:52
 Date of Maximum: 11/16/2011

Calibration Sensor: Aerosol
 Cal. date: 11/16/2011

Date MM/dd/yyyy	Time hh:mm:ss	Aerosol mg/m ³
11/16/2011	9:12:52	0.036
11/16/2011	9:27:52	0.031
11/16/2011	9:42:52	0.038
11/16/2011	9:57:52	0.043
11/16/2011	10:12:52	0.038
11/16/2011	10:27:52	0.042
11/16/2011	10:42:52	0.039
11/16/2011	10:57:52	0.039
11/16/2011	11:12:52	0.032
11/16/2011	11:27:52	0.031
11/16/2011	11:42:52	0.027
11/16/2011	11:57:52	0.022
11/16/2011	12:12:52	0.019
11/16/2011	12:27:52	0.019
11/16/2011	12:42:52	0.016
11/16/2011	12:57:52	0.016
11/16/2011	13:12:52	0.014

11/16/2011	13:27:52	0.016
11/16/2011	13:42:52	0.016
11/16/2011	13:57:52	0.018
11/16/2011	14:12:52	0.021
11/16/2011	14:27:52	0.024
11/16/2011	14:42:52	0.024
11/16/2011	14:57:52	0.024
11/16/2011	15:12:52	0.032
11/16/2011	15:27:52	0.028
11/16/2011	15:42:52	0.025
11/16/2011	15:57:52	0.025
11/16/2011	16:12:52	0.026
11/16/2011	16:27:52	0.025
11/16/2011	16:42:52	0.026
11/16/2011	16:57:52	0.028
11/16/2011	17:12:52	0.029

Instrument: MiniRAE 2000 (PGM7600)

Serial Number: 013450

User ID: 00000001 Site ID: 00000006

Data Points: 35 Gas Name: Isobutylene

Sample Period: 900 sec

Last Calibration Time: 11/16/2011 08:17

Measurement Type:

Min(ppm)

Avg(ppm)

High Alarm Levels:

100

100

Low Alarm Levels:

5.2

5.2

Line#	Date Time	Min(ppm)	Alarm	Avg(ppm)	Alarm	Max(ppm)
1	11/16/2011 8:36	0		0		0.2
2	11/16/2011 8:51	0		0		0
3	11/16/2011 9:06	0		0		0
4	11/16/2011 9:21	0		0		0
5	11/16/2011 9:36	0		0		0
6	11/16/2011 9:51	0		0		0
7	11/16/2011 10:06	0		0		0
8	11/16/2011 10:21	0:00:00		0		0
9	11/16/2011 10:36	1/0/1900		0		0
10	11/16/2011 10:51	0		0		0
11	11/16/2011 11:06	0:00:00		0		0
12	11/16/2011 11:21	1/0/1900		0		0
13	11/16/2011 11:36	0		0		0
14	11/16/2011 11:51	0		0		0
15	11/16/2011 12:06	1/0/1900		0		0
16	11/16/2011 12:21	0		0		0
17	11/16/2011 12:36	0		0		0.1
18	11/16/2011 12:51	0		0		0
1/19/1900	11/16/2011 13:06	0		0		0
1/20/1900	11/16/2011 13:21	0		0		0
1/21/1900	11/16/2011 13:36	0		0		0
1/22/1900	11/16/2011 13:51	0		0		0
1/23/1900	11/16/2011 14:06	0		0		0.1
1/24/1900	11/16/2011 14:21	0		0		0.2
1/25/1900	11/16/2011 14:36	0		0		0
1/26/1900	11/16/2011 14:51	0		0		0
1/27/1900	11/16/2011 15:06	0		0		0
1/28/1900	11/16/2011 15:21	0		0		0
1/29/1900	11/16/2011 15:36	0		0		0
1/30/1900	11/16/2011 15:51	0		0		0
1/31/1900	11/16/2011 16:06	0		0		0.1
2/1/1900	11/16/2011 16:21	0		0		0.2
2/2/1900	11/16/2011 16:36	0		0		0.2
2/3/1900	11/16/2011 16:51	0		0		0.3
2/4/1900	11/16/2011 17:06	0		0		0

=====

Max(ppm)

100

5.2

=====

Alarm

=====

11_16_11 VOC UP.txt
Instrument: MiniRAE 2000 (PGM7600) Serial Number: 013450
User ID: 00000001 Site ID: 00000006
Data Points: 35 Gas Name: Isobutylene Sample Period: 900 sec
Last Calibration Time: 11/16/2011 08:17

```

=====
Measurement Type:              Mi n(ppm)              Avg(ppm)
Max(ppm)
Hi gh Al arm Level s:          100. 0              100. 0              100. 0
Low Al arm Level s:            5. 2              5. 2              5. 2
=====

```

```

=====
Li ne#   Date   Time           Mi n(ppm)           Al arm   Avg(ppm)           Al arm   Max(ppm)
Al arm
=====
1       11/16/2011 08: 36           0. 0              0. 0              0. 2
2       11/16/2011 08: 51           0. 0              0. 0              0. 0
3       11/16/2011 09: 06           0. 0              0. 0              0. 0
4       11/16/2011 09: 21           0. 0              0. 0              0. 0
5       11/16/2011 09: 36           0. 0              0. 0              0. 0
6       11/16/2011 09: 51           0. 0              0. 0              0. 0
7       11/16/2011 10: 06           0. 0              0. 0              0. 0
8       11/16/2011 10: 21           0. 0              0. 0              0. 0
9       11/16/2011 10: 36           0. 0              0. 0              0. 0
10      11/16/2011 10: 51           0. 0              0. 0              0. 0
11      11/16/2011 11: 06           0. 0              0. 0              0. 0
12      11/16/2011 11: 21           0. 0              0. 0              0. 0
13      11/16/2011 11: 36           0. 0              0. 0              0. 0
14      11/16/2011 11: 51           0. 0              0. 0              0. 0
15      11/16/2011 12: 06           0. 0              0. 0              0. 0
16      11/16/2011 12: 21           0. 0              0. 0              0. 0
17      11/16/2011 12: 36           0. 0              0. 0              0. 1
18      11/16/2011 12: 51           0. 0              0. 0              0. 0
19      11/16/2011 13: 06           0. 0              0. 0              0. 0
20      11/16/2011 13: 21           0. 0              0. 0              0. 0
21      11/16/2011 13: 36           0. 0              0. 0              0. 0
22      11/16/2011 13: 51           0. 0              0. 0              0. 0
23      11/16/2011 14: 06           0. 0              0. 0              0. 1
24      11/16/2011 14: 21           0. 0              0. 0              0. 2
25      11/16/2011 14: 36           0. 0              0. 0              0. 0
26      11/16/2011 14: 51           0. 0              0. 0              0. 0
27      11/16/2011 15: 06           0. 0              0. 0              0. 0
28      11/16/2011 15: 21           0. 0              0. 0              0. 0
29      11/16/2011 15: 36           0. 0              0. 0              0. 0
30      11/16/2011 15: 51           0. 0              0. 0              0. 0
31      11/16/2011 16: 06           0. 0              0. 0              0. 1
32      11/16/2011 16: 21           0. 0              0. 0              0. 2
33      11/16/2011 16: 36           0. 0              0. 0              0. 2
34      11/16/2011 16: 51           0. 0              0. 0              0. 3
35      11/16/2011 17: 06           0. 0              0. 0              0. 0

```

TrakPro Version 4.30 ASCII Data File

Model: Dust Trak
 Model Number: 8520
 Serial Number: 85200085
 Test ID: 12
 Test Abbreviation:
 Start Date: 11/17/2011
 Start Time: 8:21:15
 Duration (dd:hh:mm): 0:10:00:00
 Time constant (sec): 10
 Log Interval (mm:ss): 15:00
 Number of points: 40
 Notes: DW 1

Statistics Channel: Aerosol
 Units: mg/m³
 Average: 0.014
 Minimum: 0.006
 Time of Minimum: 15:51:15
 Date of Minimum: 11/17/2011
 Maximum: 0.027
 Time of Maximum: 9:51:15
 Date of Maximum: 11/17/2011

Calibration Sensor: Aerosol
 Cal. date 11/17/2011

Date MM/dd/yyyy	Time hh:mm:ss	Aerosol mg/m ³
11/17/2011	8:36:15	0.026
11/17/2011	8:51:15	0.026
11/17/2011	9:06:15	0.021
11/17/2011	9:21:15	0.026
11/17/2011	9:36:15	0.016
11/17/2011	9:51:15	0.027
11/17/2011	10:06:15	0.023
11/17/2011	10:21:15	0.016
11/17/2011	10:36:15	0.016
11/17/2011	10:51:15	0.018
11/17/2011	11:06:15	0.024
11/17/2011	11:21:15	0.017
11/17/2011	11:36:15	0.02
11/17/2011	11:51:15	0.02
11/17/2011	12:06:15	0.02
11/17/2011	12:21:15	0.017
11/17/2011	12:36:15	0.016

11/17/2011	12:51:15	0.016
11/17/2011	13:06:15	0.016
11/17/2011	13:21:15	0.012
11/17/2011	13:36:15	0.011
11/17/2011	13:51:15	0.01
11/17/2011	14:06:15	0.008
11/17/2011	14:21:15	0.007
11/17/2011	14:36:15	0.008
11/17/2011	14:51:15	0.008
11/17/2011	15:06:15	0.009
11/17/2011	15:21:15	0.007
11/17/2011	15:36:15	0.015
11/17/2011	15:51:15	0.006
11/17/2011	16:06:15	0.006
11/17/2011	16:21:15	0.008
11/17/2011	16:36:15	0.007
11/17/2011	16:51:15	0.009
11/17/2011	17:06:15	0.009
11/17/2011	17:21:15	0.011
11/17/2011	17:36:15	0.01
11/17/2011	17:51:15	0.011
11/17/2011	18:06:15	0.011
11/17/2011	18:21:15	0.015

Instrument: MiniRAE 2000 (PGM7600)

Serial Number: 902335

User ID: 00000001 Site ID: 00000024

Data Points: 39 Gas Name: Isobutylene

Sample Period: 900 sec

Last Calibration Time: 11/17/2011 07:58

Measurement Type:

Min(ppm)

Avg(ppm)

High Alarm Levels:

25

25

Low Alarm Levels:

5.2

5.2

Line#	Date Time	Min(ppm)	Alarm	Avg(ppm)	Alarm	Max(ppm)
1	11/17/2011 8:38	0		0		0
2	11/17/2011 8:53	0		0		0
3	11/17/2011 9:08	0		0		0
4	11/17/2011 9:23	0		0		0
5	11/17/2011 9:38	0		0		0
6	11/17/2011 9:53	0		0		0
7	11/17/2011 10:08	0		0		0
8	11/17/2011 10:23	0		0		0
9	11/17/2011 10:38	0		0		0
10	11/17/2011 10:53	0		0		0
11	11/17/2011 11:08	0		0		0
12	11/17/2011 11:23	0		0		0
13	11/17/2011 11:38	0		0		0
14	11/17/2011 11:53	0		0		0
15	11/17/2011 12:08	0		0		0
16	11/17/2011 12:23	0		0		0
17	11/17/2011 12:38	0		0		0
18	11/17/2011 12:53	0		0		0
19	11/17/2011 13:08	0		0		0
20	11/17/2011 13:23	0		0		0
21	11/17/2011 13:38	0		0		0
22	11/17/2011 13:53	0		0		0
23	11/17/2011 14:08	0		0		0
24	11/17/2011 14:23	0		0		0
25	11/17/2011 14:38	0		0		0
26	11/17/2011 14:53	0		0		0
27	11/17/2011 15:08	0		0		0
28	11/17/2011 15:23	0		0		0
29	11/17/2011 15:38	0		0		0
30	11/17/2011 15:53	0		0		0
31	11/17/2011 16:08	0		0		0
32	11/17/2011 16:23	0		0		0
33	11/17/2011 16:38	0		0		0
34	11/17/2011 16:53	0		0		0
35	11/17/2011 17:08	0		0		0

36	11/17/2011 17:23	0	0	0
37	11/17/2011 17:38	0	0	0
38	11/17/2011 17:53	0	0	0
39	11/17/2011 18:08	0	0	0

=====

Max(ppm)

25

5.2

=====

Alarm

=====

TrakPro Version 4.30 ASCII Data File

Model: Dust Trak
 Model Number: 8520
 Serial Number: 85200391
 Test ID: 9
 Test Abbreviation:
 Start Date: 11/17/2011
 Start Time: 8:45:52
 Duration (dd:hh:mm:ss) 0:10:00:00
 Time constant (seconds) 10
 Log Interval (mm:ss): 15:00
 Number of points: 40
 Notes: DW 2

Statistics Channel: Aerosol
 Units: mg/m³
 Average: 0.024
 Minimum: 0.011
 Time of Minimum 18:00:52
 Date of Minimum 11/17/2011
 Maximum: 0.077
 Time of Maximum 15:45:52
 Date of Maximum 11/17/2011

Calibration Sensor: Aerosol
 Cal. date 11/17/2011

Date MM/dd/yyyy	Time hh:mm:ss	Aerosol mg/m ³
11/17/2011	9:00:52	0.034
11/17/2011	9:15:52	0.018
11/17/2011	9:30:52	0.026
11/17/2011	9:45:52	0.026
11/17/2011	10:00:52	0.023
11/17/2011	10:15:52	0.016
11/17/2011	10:30:52	0.016
11/17/2011	10:45:52	0.018
11/17/2011	11:00:52	0.019
11/17/2011	11:15:52	0.021
11/17/2011	11:30:52	0.023
11/17/2011	11:45:52	0.022
11/17/2011	12:00:52	0.024
11/17/2011	12:15:52	0.03
11/17/2011	12:30:52	0.033
11/17/2011	12:45:52	0.024
11/17/2011	13:00:52	0.024

11/17/2011	13:15:52	0.016
11/17/2011	13:30:52	0.018
11/17/2011	13:45:52	0.021
11/17/2011	14:00:52	0.021
11/17/2011	14:15:52	0.037
11/17/2011	14:30:52	0.019
11/17/2011	14:45:52	0.032
11/17/2011	15:00:52	0.014
11/17/2011	15:15:52	0.024
11/17/2011	15:30:52	0.034
11/17/2011	15:45:52	0.077
11/17/2011	16:00:52	0.041
11/17/2011	16:15:52	0.029
11/17/2011	16:30:52	0.015
11/17/2011	16:45:52	0.015
11/17/2011	17:00:52	0.016
11/17/2011	17:15:52	0.026
11/17/2011	17:30:52	0.03
11/17/2011	17:45:52	0.018
11/17/2011	18:00:52	0.011
11/17/2011	18:15:52	0.012
11/17/2011	18:30:52	0.012
11/17/2011	18:45:52	0.022

Instrument: MiniRAE 2000 (PGM7600)

Serial Number: 902335

User ID: 00000001 Site ID: 00000024

Data Points: 39 Gas Name: Isobutylene

Sample Period: 900 sec

Last Calibration Time: 11/17/2011 07:58

Measurement Type:

Min(ppm)

Avg(ppm)

High Alarm Levels:

25

25

Low Alarm Levels:

5.2

5.2

Line#	Date Time	Min(ppm)	Alarm	Avg(ppm)	Alarm	Max(ppm)
1	11/17/2011 8:38	0		0		0
2	11/17/2011 8:53	0		0		0
3	11/17/2011 9:08	0		0		0
4	11/17/2011 9:23	0		0		0
5	11/17/2011 9:38	0		0		0
6	11/17/2011 9:53	0		0		0
7	11/17/2011 10:08	0		0		0
8	11/17/2011 10:23	0		0		0
9	11/17/2011 10:38	0		0		0
10	11/17/2011 10:53	0		0		0
11	11/17/2011 11:08	0		0		0
12	11/17/2011 11:23	0		0		0
13	11/17/2011 11:38	0		0		0
14	11/17/2011 11:53	0		0		0
15	11/17/2011 12:08	0		0		0
16	11/17/2011 12:23	0		0		0
17	11/17/2011 12:38	0		0		0
18	11/17/2011 12:53	0		0		0
19	11/17/2011 13:08	0		0		0
20	11/17/2011 13:23	0		0		0
21	11/17/2011 13:38	0		0		0
22	11/17/2011 13:53	0		0		0
23	11/17/2011 14:08	0		0		0
24	11/17/2011 14:23	0		0		0
25	11/17/2011 14:38	0		0		0
26	11/17/2011 14:53	0		0		0
27	11/17/2011 15:08	0		0		0
28	11/17/2011 15:23	0		0		0
29	11/17/2011 15:38	0		0		0
30	11/17/2011 15:53	0		0		0
31	11/17/2011 16:08	0		0		0
32	11/17/2011 16:23	0		0		0
33	11/17/2011 16:38	0		0		0
34	11/17/2011 16:53	0		0		0
35	11/17/2011 17:08	0		0		0

36	11/17/2011 17:23	0	0	0
37	11/17/2011 17:38	0	0	0
38	11/17/2011 17:53	0	0	0
39	11/17/2011 18:08	0	0	0

```
=====
Max(ppm)
    25
    5.2
=====
Alarm
=====
```

TrakPro Version 4.30 ASCII Data File

Model: Dust Trak
 Model Number: 8520
 Serial Number: 85197769
 Test ID: 10
 Test Abbreviation:
 Start Date: 11/17/2011
 Start Time: 8:30:23
 Duration (dd:hh:mm:ss): 0:09:45:00
 Time constant (s): 10
 Log Interval (min): 15:00
 Number of points: 39
 Notes: UP

Statistics Channel: Aerosol
 Units: mg/m³
 Average: 0.016
 Minimum: 0.009
 Time of Minimum: 14:30:23
 Date of Minimum: 11/17/2011
 Maximum: 0.022
 Time of Maximum: 10:45:23
 Date of Maximum: 11/17/2011

Calibration Sensor: Aerosol
 Cal. date: 11/17/2011

Date MM/dd/yyyy	Time hh:mm:ss	Aerosol mg/m ³
11/17/2011	8:45:23	0.016
11/17/2011	9:00:23	0.019
11/17/2011	9:15:23	0.018
11/17/2011	9:30:23	0.018
11/17/2011	9:45:23	0.021
11/17/2011	10:00:23	0.017
11/17/2011	10:15:23	0.019
11/17/2011	10:30:23	0.02
11/17/2011	10:45:23	0.022
11/17/2011	11:00:23	0.02
11/17/2011	11:15:23	0.02
11/17/2011	11:30:23	0.02
11/17/2011	11:45:23	0.021
11/17/2011	12:00:23	0.019
11/17/2011	12:15:23	0.016
11/17/2011	12:30:23	0.018
11/17/2011	12:45:23	0.019

11/17/2011	13:00:23	0.022
11/17/2011	13:15:23	0.019
11/17/2011	13:30:23	0.014
11/17/2011	13:45:23	0.015
11/17/2011	14:00:23	0.011
11/17/2011	14:15:23	0.01
11/17/2011	14:30:23	0.009
11/17/2011	14:45:23	0.009
11/17/2011	15:00:23	0.009
11/17/2011	15:15:23	0.011
11/17/2011	15:30:23	0.009
11/17/2011	15:45:23	0.009
11/17/2011	16:00:23	0.01
11/17/2011	16:15:23	0.016
11/17/2011	16:30:23	0.013
11/17/2011	16:45:23	0.018
11/17/2011	17:00:23	0.014
11/17/2011	17:15:23	0.015
11/17/2011	17:30:23	0.012
11/17/2011	17:45:23	0.013
11/17/2011	18:00:23	0.016
11/17/2011	18:15:23	0.017

Instrument: MiniRAE 2000 (PGM7600) Serial Number: 902335
User ID: 00000001 Site ID: 00000024
Data Points: 39 Gas Name: Isobutylene Sample Period: 900 sec
Last Calibration Time: 11/17/2011 07:58

```
=====
Measurement Type:                Min(ppm)                Avg(ppm)
High Alarm Levels:                25                      25
Low Alarm Levels:                 5.2                     5.2
=====
```

```
=====
Line#    Date Time          Min(ppm) Alarm    Avg(ppm) Alarm    Max(ppm)
=====
```

1	11/17/2011 8:38	0		0		0
2	11/17/2011 8:53	0		0		0
3	11/17/2011 9:08	0		0		0
4	11/17/2011 9:23	0		0		0
5	11/17/2011 9:38	0		0		0
6	11/17/2011 9:53	0		0		0
7	11/17/2011 10:08	0		0		0
8	11/17/2011 10:23	0		0		0
9	11/17/2011 10:38	0		0		0
10	11/17/2011 10:53	0		0		0
11	11/17/2011 11:08	0		0		0
12	11/17/2011 11:23	0		0		0
13	11/17/2011 11:38	0		0		0
14	11/17/2011 11:53	0		0		0
15	11/17/2011 12:08	0		0		0
16	11/17/2011 12:23	0		0		0
17	11/17/2011 12:38	0		0		0
18	11/17/2011 12:53	0		0		0
19	11/17/2011 13:08	0		0		0
20	11/17/2011 13:23	0		0		0
21	11/17/2011 13:38	0		0		0
22	11/17/2011 13:53	0		0		0
23	11/17/2011 14:08	0		0		0
24	11/17/2011 14:23	0		0		0
25	11/17/2011 14:38	0		0		0
26	11/17/2011 14:53	0		0		0
27	11/17/2011 15:08	0		0		0
28	11/17/2011 15:23	0		0		0
29	11/17/2011 15:38	0		0		0
30	11/17/2011 15:53	0		0		0
31	11/17/2011 16:08	0		0		0
32	11/17/2011 16:23	0		0		0
33	11/17/2011 16:38	0		0		0
34	11/17/2011 16:53	0		0		0
35	11/17/2011 17:08	0		0		0

```
=====
```

36	11/17/2011 17:23	0	0	0
37	11/17/2011 17:38	0	0	0
38	11/17/2011 17:53	0	0	0
39	11/17/2011 18:08	0	0	0

=====

Max(ppm)

25

5.2

=====

Alarm

=====

TrakPro Version 4.30 ASCII Data File

Model: Dust Trak
 Model Number: 8520
 Serial Number: 85200085
 Test ID: 13
 Test Abbreviation:
 Start Date: 11/18/2011
 Start Time: 8:42:34
 Duration (dd:hh:mm:ss): 0:07:45:00
 Time constant (seconds): 10
 Log Interval (mm:ss): 15:00
 Number of points: 31
 Notes: DW 1

Statistics	Channel:	Aerosol
	Units:	mg/m ³
	Average:	0.015
	Minimum:	0.01
	Time of Minimum:	10:27:34
	Date of Minimum:	11/18/2011
	Maximum:	0.031
	Time of Maximum:	8:57:34
	Date of Maximum:	11/18/2011

Calibration	Sensor:	Aerosol
	Cal. date	11/18/2011

Date MM/dd/yyyy	Time hh:mm:ss	Aerosol mg/m ³
11/18/2011	8:57:34	0.031
11/18/2011	9:12:34	0.021
11/18/2011	9:27:34	0.018
11/18/2011	9:42:34	0.017
11/18/2011	9:57:34	0.025
11/18/2011	10:12:34	0.013
11/18/2011	10:27:34	0.01
11/18/2011	10:42:34	0.023
11/18/2011	10:57:34	0.017
11/18/2011	11:12:34	0.017
11/18/2011	11:27:34	0.016
11/18/2011	11:42:34	0.014
11/18/2011	11:57:34	0.016
11/18/2011	12:12:34	0.016
11/18/2011	12:27:34	0.017
11/18/2011	12:42:34	0.012
11/18/2011	12:57:34	0.012

11/18/2011	13:12:34	0.018
11/18/2011	13:27:34	0.011
11/18/2011	13:42:34	0.014
11/18/2011	13:57:34	0.014
11/18/2011	14:12:34	0.012
11/18/2011	14:27:34	0.013
11/18/2011	14:42:34	0.012
11/18/2011	14:57:34	0.013
11/18/2011	15:12:34	0.012
11/18/2011	15:27:34	0.011
11/18/2011	15:42:34	0.012
11/18/2011	15:57:34	0.013
11/18/2011	16:12:34	0.015
11/18/2011	16:27:34	0.012

Instrument: MiniRAE 2000 (PGM7600) Serial Number: 902335
User ID: 00000001 Site ID: 00000025
Data Points: 32 Gas Name: Isobutylene Sample Period: 900 sec
Last Calibration Time: 11/18/2011 08:27

```
=====
Measurement Type:                Min(ppm)                Avg(ppm)
High Alarm Levels:                25                      25
Low Alarm Levels:                 5.2                     5.2
=====
```

```
=====
Line#    Date Time      Min(ppm) Alarm    Avg(ppm) Alarm    Max(ppm)
=====
```

1	11/18/2011 8:36	0		0		0
2	11/18/2011 8:51	0		0		0
3	11/18/2011 9:06	0		0		0
4	11/18/2011 9:21	0		0		0
5	11/18/2011 9:36	0		0		0
6	11/18/2011 9:51	0		0		0
7	11/18/2011 10:06	0		0		0
8	11/18/2011 10:21	0		0		0
9	11/18/2011 10:36	0		0		0
10	11/18/2011 10:51	0		0		0
11	11/18/2011 11:06	0		0		0
12	11/18/2011 11:21	0		0		0
13	11/18/2011 11:36	0		0		0
14	11/18/2011 11:51	0		0		0
15	11/18/2011 12:06	0		0		0
16	11/18/2011 12:21	0		0		0
17	11/18/2011 12:36	0		0		0
18	11/18/2011 12:51	0		0		0
19	11/18/2011 13:06	0		0		0
20	11/18/2011 13:21	0		0		0
21	11/18/2011 13:36	0		0		0
22	11/18/2011 13:51	0		0		0
23	11/18/2011 14:06	0		0		0
24	11/18/2011 14:21	0		0		0
25	11/18/2011 14:36	0		0		0
26	11/18/2011 14:51	0		0		0
27	11/18/2011 15:06	0		0		0
28	11/18/2011 15:21	0		0		0
29	11/18/2011 15:36	0		0		0
30	11/18/2011 15:51	0		0		0
31	11/18/2011 16:06	0		0		0
32	11/18/2011 16:21	0		0		0

```
=====
```

=====

Max(ppm)

25

5.2

=====

Alarm

=====

TrakPro Version 4.30 ASCII Data File

Model: Dust Trak
 Model Number: 8520
 Serial Number: 85200391
 Test ID: 10
 Test Abbreviation:
 Start Date: 11/18/2011
 Start Time: 8:58:58
 Duration (dd:hh:mm): 0:07:45:00
 Time constant (sec): 10
 Log Interval (mm:ss): 15:00
 Number of points: 31
 Notes: DW 2

Statistics	Channel:	Aerosol	
	Units:	mg/m ³	
	Average:		0.02
	Minimum:		0.009
	Time of Minimum		11:43:58
	Date of Minimum:		11/18/2011
	Maximum:		0.054
	Time of Maximum		15:28:58
	Date of Maximum		11/18/2011

Calibration	Sensor:	Aerosol	
	Cal. date		11/18/2011

Date	Time	Aerosol	
MM/dd/yyyy	hh:mm:ss	mg/m ³	
11/18/2011	9:13:58		0.04
11/18/2011	9:28:58		0.031
11/18/2011	9:43:58		0.025
11/18/2011	9:58:58		0.012
11/18/2011	10:13:58		0.01
11/18/2011	10:28:58		0.017
11/18/2011	10:43:58		0.01
11/18/2011	10:58:58		0.011
11/18/2011	11:13:58		0.013
11/18/2011	11:28:58		0.013
11/18/2011	11:43:58		0.009
11/18/2011	11:58:58		0.013
11/18/2011	12:13:58		0.012
11/18/2011	12:28:58		0.025
11/18/2011	12:43:58		0.042
11/18/2011	12:58:58		0.013
11/18/2011	13:13:58		0.018

11/18/2011	13:28:58	0.014
11/18/2011	13:43:58	0.012
11/18/2011	13:58:58	0.01
11/18/2011	14:13:58	0.013
11/18/2011	14:28:58	0.019
11/18/2011	14:43:58	0.026
11/18/2011	14:58:58	0.022
11/18/2011	15:13:58	0.012
11/18/2011	15:28:58	0.054
11/18/2011	15:43:58	0.015
11/18/2011	15:58:58	0.015
11/18/2011	16:13:58	0.027
11/18/2011	16:28:58	0.029
11/18/2011	16:43:58	0.037

Instrument: MiniRAE 2000 (PGM7600) Serial Number: 902335
User ID: 00000001 Site ID: 00000025
Data Points: 32 Gas Name: Isobutylene Sample Period: 900 sec
Last Calibration Time: 11/18/2011 08:27

```
=====
Measurement Type:                Min(ppm)                Avg(ppm)
High Alarm Levels:                25                      25
Low Alarm Levels:                 5.2                     5.2
=====
```

```
=====
Line#    Date Time        Min(ppm) Alarm    Avg(ppm) Alarm    Max(ppm)
=====
```

1	11/18/2011 8:36	0		0		0
2	11/18/2011 8:51	0		0		0
3	11/18/2011 9:06	0		0		0
4	11/18/2011 9:21	0		0		0
5	11/18/2011 9:36	0		0		0
6	11/18/2011 9:51	0		0		0
7	11/18/2011 10:06	0		0		0
8	11/18/2011 10:21	0		0		0
9	11/18/2011 10:36	0		0		0
10	11/18/2011 10:51	0		0		0
11	11/18/2011 11:06	0		0		0
12	11/18/2011 11:21	0		0		0
13	11/18/2011 11:36	0		0		0
14	11/18/2011 11:51	0		0		0
15	11/18/2011 12:06	0		0		0
16	11/18/2011 12:21	0		0		0
17	11/18/2011 12:36	0		0		0
18	11/18/2011 12:51	0		0		0
19	11/18/2011 13:06	0		0		0
20	11/18/2011 13:21	0		0		0
21	11/18/2011 13:36	0		0		0
22	11/18/2011 13:51	0		0		0
23	11/18/2011 14:06	0		0		0
24	11/18/2011 14:21	0		0		0
25	11/18/2011 14:36	0		0		0
26	11/18/2011 14:51	0		0		0
27	11/18/2011 15:06	0		0		0
28	11/18/2011 15:21	0		0		0
29	11/18/2011 15:36	0		0		0
30	11/18/2011 15:51	0		0		0
31	11/18/2011 16:06	0		0		0
32	11/18/2011 16:21	0		0		0

```
=====
```

```
=====
Max(ppm)
    25
    5.2
=====
Alarm
=====
```

TrakPro Version 4.30 ASCII Data File

Model: Dust Trak
 Model Number: 8520
 Serial Number: 85197769
 Test ID: 11
 Test Abbreviation:
 Start Date: 11/18/2011
 Start Time: 8:44:27
 Duration (dd:hh:mm): 0:07:45:00
 Time constant (sec): 10
 Log Interval (mm:ss): 15:00
 Number of points: 1/31/1900 0:00
 Notes: UP

Statistics	Channel:	Aerosol
	Units:	mg/m ³
	Average:	0.013
	Minimum:	0.01
	Time of Minimum:	12:29:27
	Date of Minimum:	11/18/2011
	Maximum:	0.015
	Time of Maximum:	8:59:27
	Date of Maximum:	11/18/2011

Calibration	Sensor:	Aerosol
	Cal. date	11/18/2011

Date MM/dd/yyyy	Time hh:mm:ss	Aerosol mg/m ³
11/18/2011	8:59:27	0.015
11/18/2011	9:14:27	0.015
11/18/2011	9:29:27	0.013
11/18/2011	9:44:27	0.013
11/18/2011	9:59:27	0.014
11/18/2011	10:14:27	0.012
11/18/2011	10:29:27	0.012
11/18/2011	10:44:27	0.013
11/18/2011	10:59:27	0.014
11/18/2011	11:14:27	0.014
11/18/2011	11:29:27	0.012
11/18/2011	11:44:27	0.011
11/18/2011	11:59:27	0.013
11/18/2011	12:14:27	0.011
11/18/2011	12:29:27	0.01
11/18/2011	12:44:27	0.01
11/18/2011	12:59:27	0.01

11/18/2011	13:14:27	0.014
11/18/2011	13:29:27	0.014
11/18/2011	13:44:27	0.012
11/18/2011	13:59:27	0.013
11/18/2011	14:14:27	0.012
11/18/2011	14:29:27	0.011
11/18/2011	14:44:27	0.011
11/18/2011	14:59:27	0.013
11/18/2011	15:14:27	0.012
11/18/2011	15:29:27	0.012
11/18/2011	15:44:27	0.013
11/18/2011	15:59:27	0.013
11/18/2011	16:14:27	0.015
11/18/2011	16:29:27	0.013

Instrument: MiniRAE 2000 (PGM7600) Serial Number: 013450
User ID: 00000001 Site ID: 00000006
Data Points: 31 Gas Name: Isobutylene Sample Period: 900 sec
Last Calibration Time: 11/18/2011 08:28

```
=====
Measurement Type:                Min(ppm)                Avg(ppm)
High Alarm Levels:                100                    100
Low Alarm Levels:                 5.2                     5.2
=====
```

```
=====
Line#    Date Time                Min(ppm) Alarm    Avg(ppm) Alarm    Max(ppm)
=====
```

1	11/18/2011 8:48	0		0		0
2	11/18/2011 9:03	0		0		0
3	11/18/2011 9:18	0		0		0
4	11/18/2011 9:33	0		0		0
5	11/18/2011 9:48	0		0		0
6	11/18/2011 10:03	0		0		0
7	11/18/2011 10:18	0		0		0
8	11/18/2011 10:33	0		0		0
9	11/18/2011 10:48	0		0		0
10	11/18/2011 11:03	0		0		0
11	11/18/2011 11:18	0		0		0
12	11/18/2011 11:33	0		0		0
13	11/18/2011 11:48	0		0		0
14	11/18/2011 12:03	0		0		0
15	11/18/2011 12:18	0		0		0
16	11/18/2011 12:33	0		0		0
17	11/18/2011 12:48	0		0		0
18	11/18/2011 13:03	0		0		0
19	11/18/2011 13:18	0		0		0
20	11/18/2011 13:33	0		0		0
21	11/18/2011 13:48	0		0		0
22	11/18/2011 14:03	0		0		0
23	11/18/2011 14:18	0		0		0
24	11/18/2011 14:33	0		0		0
25	11/18/2011 14:48	0		0		0
26	11/18/2011 15:03	0		0		0
27	11/18/2011 15:18	0		0		0
28	11/18/2011 15:33	0		0		0
29	11/18/2011 15:48	0		0		0
30	11/18/2011 16:03	0		0		0
31	11/18/2011 16:18	0		0		0

```
=====
```


=====

Max(ppm)

100

5.2

=====

Alarm

=====

TrakPro Version 4.30 ASCII Data File

Model: Dust Trak
 Model Numb 8520
 Serial Numb 85200085
 Test ID: 14
 Test Abbreviation:
 Start Date: 11/21/2011
 Start Time: 8:28:03
 Duration (dd 0:09:30:00
 Time consta 10
 Log Interval 15:00
 Number of p 38
 Notes: DW 1

Statistics Channel: Aerosol
 Units: mg/m³
 Average: 0.017
 Minimum: 0.007
 Time of Minimum 13:58:03
 Date of Minimum 11/21/2011
 Maximum: 0.065
 Time of Maximum 9:28:03
 Date of Maximum 11/21/2011

Calibration Sensor: Aerosol
 Cal. date 11/21/2011

Date MM/dd/yyyy	Time hh:mm:ss	Aerosol mg/m ³
11/21/2011	8:43:03	0.038
11/21/2011	8:58:03	0.019
11/21/2011	9:13:03	0.02
11/21/2011	9:28:03	0.065
11/21/2011	9:43:03	0.008
11/21/2011	9:58:03	0.016
11/21/2011	10:13:03	0.013
11/21/2011	10:28:03	0.01
11/21/2011	10:43:03	0.008
11/21/2011	10:58:03	0.014
11/21/2011	11:13:03	0.026
11/21/2011	11:28:03	0.013
11/21/2011	11:43:03	0.011
11/21/2011	11:58:03	0.008
11/21/2011	12:13:03	0.012
11/21/2011	12:28:03	0.017
11/21/2011	12:43:03	0.015

11/21/2011	12:58:03	0.012
11/21/2011	13:13:03	0.01
11/21/2011	13:28:03	0.008
11/21/2011	13:43:03	0.013
11/21/2011	13:58:03	0.007
11/21/2011	14:13:03	0.019
11/21/2011	14:28:03	0.027
11/21/2011	14:43:03	0.01
11/21/2011	14:58:03	0.023
11/21/2011	15:13:03	0.007
11/21/2011	15:28:03	0.015
11/21/2011	15:43:03	0.013
11/21/2011	15:58:03	0.021
11/21/2011	16:13:03	0.016
11/21/2011	16:28:03	0.012
11/21/2011	16:43:03	0.012
11/21/2011	16:58:03	0.021
11/21/2011	17:13:03	0.016
11/21/2011	17:28:03	0.015
11/21/2011	17:43:03	0.033
11/21/2011	17:58:03	0.012

Instrument: MiniRAE 2000 (PGM7600) Serial Number: 002764
User ID: 00000001 Site ID: 00000069
Data Points: 36 Gas Name: Isobutylene Sample Period: 900 sec
Last Calibration Time: 11/17/2011 15:43

=====

Measurement Type:	Min(ppm)	Avg(ppm)
High Alarm Levels:	100	100
Low Alarm Levels:	50	50

=====

=====

Line#	Date Time	Min(ppm)	Alarm	Avg(ppm)	Alarm	Max(ppm)
-------	-----------	----------	-------	----------	-------	----------

=====

1	11/21/2011 8:11	0		0		0
2	11/21/2011 8:26	0		0		0
3	11/21/2011 8:41	0		0		0
4	11/21/2011 8:56	0		0		0
5	11/21/2011 9:11	0		0		0
6	11/21/2011 9:26	0		0		0
7	11/21/2011 9:41	0		0		0.3
8	11/21/2011 9:56	0		0		0
9	11/21/2011 10:11	0		0		0.6
10	11/21/2011 10:26	0		0		0
11	11/21/2011 10:41	0		0		0
12	11/21/2011 10:56	0		0		0
13	11/21/2011 11:11	0		0		0.5
14	11/21/2011 11:26	0		0		0.2
15	11/21/2011 11:41	0		0		0
16	11/21/2011 11:56	0		0		0
17	11/21/2011 12:11	0		0		0
18	11/21/2011 12:26	0		0		0
19	11/21/2011 12:41	0		0		0
20	11/21/2011 12:56	0		0		0.4
21	11/21/2011 13:11	0		0		0.6
22	11/21/2011 13:26	0		0		0
23	11/21/2011 13:41	0		0		0
24	11/21/2011 13:56	0		0		0
25	11/21/2011 14:11	0		0		0
26	11/21/2011 14:26	0		0		0
27	11/21/2011 14:41	0		0		0
28	11/21/2011 14:56	0		0		0.1
29	11/21/2011 15:11	0		0		0
30	11/21/2011 15:26	0		0		0
31	11/21/2011 15:41	0		0		0
32	11/21/2011 15:56	0		0		0
33	11/21/2011 16:11	0		0		0
34	11/21/2011 16:26	0		0		0
35	11/21/2011 16:41	0		0		0

=====


```
=====
Max(ppm)
    100
    50
=====
Alarm
=====
```

TrakPro Version 4.30 ASCII Data File

Model: Dust Trak
 Model Numb 8520
 Serial Numb 85200391
 Test ID: 11
 Test Abbreviation:
 Start Date: 11/21/2011
 Start Time: 8:50:13
 Duration (dd:0:09:30:00
 Time constar 10
 Log Interval (15:00
 Number of p 38
 Notes: DW 2

Statistics Channel: Aerosol
 Units: mg/m³
 Average: 0.013
 Minimum: 0.007
 Time of Minir 9:20:13
 Date of Minir 11/21/2011
 Maximum: 0.029
 Time of Maxir 15:05:13
 Date of Maxir 11/21/2011

Calibration Sensor: Aerosol
 Cal. date 11/21/2011

Date	Time	Aerosol
MM/dd/yyyy	hh:mm:ss	mg/m ³
11/21/2011	9:05:13	0.013
11/21/2011	9:20:13	0.007
11/21/2011	9:35:13	0.01
11/21/2011	9:50:13	0.007
11/21/2011	10:05:13	0.013
11/21/2011	10:20:13	0.014
11/21/2011	10:35:13	0.011
11/21/2011	10:50:13	0.014
11/21/2011	11:05:13	0.007
11/21/2011	11:20:13	0.007
11/21/2011	11:35:13	0.012
11/21/2011	11:50:13	0.009
11/21/2011	12:05:13	0.01
11/21/2011	12:20:13	0.011
11/21/2011	12:35:13	0.01
11/21/2011	12:50:13	0.009
11/21/2011	13:05:13	0.009

11/21/2011	13:20:13	0.013
11/21/2011	13:35:13	0.008
11/21/2011	13:50:13	0.008
11/21/2011	14:05:13	0.011
11/21/2011	14:20:13	0.018
11/21/2011	14:35:13	0.009
11/21/2011	14:50:13	0.017
11/21/2011	15:05:13	0.029
11/21/2011	15:20:13	0.014
11/21/2011	15:35:13	0.019
11/21/2011	15:50:13	0.013
11/21/2011	16:05:13	0.018
11/21/2011	16:20:13	0.015
11/21/2011	16:35:13	0.02
11/21/2011	16:50:13	0.017
11/21/2011	17:05:13	0.016
11/21/2011	17:20:13	0.011
11/21/2011	17:35:13	0.014
11/21/2011	17:50:13	0.012
11/21/2011	18:05:13	0.012
11/21/2011	18:20:13	0.014

Instrument: MiniRAE 2000 (PGM7600) Serial Number: 902335
User ID: 00000001 Site ID: 00000026
Data Points: 38 Gas Name: Isobutylene Sample Period: 900 sec
Last Calibration Time: 11/21/2011 08:15

```
=====
Measurement Type:                Min(ppm)                Avg(ppm)
High Alarm Levels:                25                      25
Low Alarm Levels:                 5.2                      5.2
=====
```

```
=====
Line#    Date Time          Min(ppm) Alarm    Avg(ppm) Alarm    Max(ppm)
=====
```

1	11/21/2011 8:30	0		0		0
2	11/21/2011 8:45	0		0		0
3	11/21/2011 9:00	0		0		0
4	11/21/2011 9:15	0		0		0
5	11/21/2011 9:30	0		0		0
6	11/21/2011 9:45	0		0		0
7	11/21/2011 10:00	0		0		0
8	11/21/2011 10:15	0		0		0
9	11/21/2011 10:30	0		0		0
10	11/21/2011 10:45	0		0		0
11	11/21/2011 11:00	0		0		0
12	11/21/2011 11:15	0		0		0
13	11/21/2011 11:30	0		0		0
14	11/21/2011 11:45	0		0		0
15	11/21/2011 12:00	0		0		0
16	11/21/2011 12:15	0		0		0
17	11/21/2011 12:30	0		0		0
18	11/21/2011 12:45	0		0		0
19	11/21/2011 13:00	0		0		0
20	11/21/2011 13:15	0		0		0
21	11/21/2011 13:30	0		0		0
22	11/21/2011 13:45	0		0		0
23	11/21/2011 14:00	0		0		0
24	11/21/2011 14:15	0		0		0
25	11/21/2011 14:30	0		0		0
26	11/21/2011 14:45	0		0		0
27	11/21/2011 15:00	0		0		0
28	11/21/2011 15:15	0		0		0
29	11/21/2011 15:30	0		0		0
30	11/21/2011 15:45	0		0		0
31	11/21/2011 16:00	0		0		0
32	11/21/2011 16:15	0		0		0
33	11/21/2011 16:30	0		0		0
34	11/21/2011 16:45	0		0		0
35	11/21/2011 17:00	0		0		0

```
=====
```

36	11/21/2011 17:15	0	0	0
37	11/21/2011 17:30	0	0	0
38	11/21/2011 17:45	0	0	0.4

=====

Max(ppm)

25

5.2

=====

Alarm

=====

TrakPro Version 4.30 ASCII Data File

Model: Dust Trak
 Model Number: 8520
 Serial Number: 85197769
 Test ID: 12
 Test Abbreviation:
 Start Date: 11/21/2011
 Start Time: 8:32:40
 Duration (dd:hh:mm:ss) 0:09:30:00
 Time constant (seconds) 10
 Log Interval (mm:ss): 15:00
 Number of points: 38
 Notes: UP

Statistics Channel: Aerosol
 Units: mg/m³
 Average: 0.011
 Minimum: 0.007
 Time of Minimum 11:02:40
 Date of Minimum 11/21/2011
 Maximum: 0.025
 Time of Maximum 17:17:40
 Date of Maximum 11/21/2011

Calibration Sensor: Aerosol
 Cal. date 11/21/2011

Date MM/dd/yyyy	Time hh:mm:ss	Aerosol mg/m ³
11/21/2011	8:47:40	0.009
11/21/2011	9:02:40	0.015
11/21/2011	9:17:40	0.008
11/21/2011	9:32:40	0.011
11/21/2011	9:47:40	0.009
11/21/2011	10:02:40	0.012
11/21/2011	10:17:40	0.013
11/21/2011	10:32:40	0.012
11/21/2011	10:47:40	0.01
11/21/2011	11:02:40	0.007
11/21/2011	11:17:40	0.016
11/21/2011	11:32:40	0.009
11/21/2011	11:47:40	0.009
11/21/2011	12:02:40	0.009
11/21/2011	12:17:40	0.008
11/21/2011	12:32:40	0.011
11/21/2011	12:47:40	0.011

11/21/2011	13:02:40	0.008
11/21/2011	13:17:40	0.007
11/21/2011	13:32:40	0.009
11/21/2011	13:47:40	0.008
11/21/2011	14:02:40	0.01
11/21/2011	14:17:40	0.011
11/21/2011	14:32:40	0.012
11/21/2011	14:47:40	0.011
11/21/2011	15:02:40	0.007
11/21/2011	15:17:40	0.011
11/21/2011	15:32:40	0.013
11/21/2011	15:47:40	0.014
11/21/2011	16:02:40	0.017
11/21/2011	16:17:40	0.018
11/21/2011	16:32:40	0.016
11/21/2011	16:47:40	0.016
11/21/2011	17:02:40	0.009
11/21/2011	17:17:40	0.025
11/21/2011	17:32:40	0.013
11/21/2011	17:47:40	0.01
11/21/2011	18:02:40	0.012

Instrument: MiniRAE 2000 (PGM7600) Serial Number: 013450
User ID: 00000001 Site ID: 00000006
Data Points: 39 Gas Name: Isobutylene Sample Period: 900 sec
Last Calibration Time: 11/21/2011 08:17

```
=====
Measurement Type:                Min(ppm)                Avg(ppm)
High Alarm Levels:                100                    100
Low Alarm Levels:                 5.2                     5.2
=====
```

```
=====
Line#    Date Time      Min(ppm) Alarm    Avg(ppm) Alarm    Max(ppm)
=====
```

1	11/21/2011 8:31	0		0		0
2	11/21/2011 8:46	0		0		0
3	11/21/2011 9:01	0		0		0
4	11/21/2011 9:16	0		0		0
5	11/21/2011 9:31	0		0		0
6	11/21/2011 9:46	0		0		0
7	11/21/2011 10:01	0		0		0
8	11/21/2011 10:16	0		0		0
9	11/21/2011 10:31	0		0		0
10	11/21/2011 10:46	0		0		0
11	11/21/2011 11:01	0		0		0
12	11/21/2011 11:16	0		0		0
13	11/21/2011 11:31	0		0		0
14	11/21/2011 11:46	0		0		0
15	11/21/2011 12:01	0		0		0
16	11/21/2011 12:16	0		0		0
17	11/21/2011 12:31	0		0		0
18	11/21/2011 12:46	0		0		0
19	11/21/2011 13:01	0		0		0
20	11/21/2011 13:16	0		0		0
21	11/21/2011 13:31	0		0		0.2
22	11/21/2011 13:46	0		0		0
23	11/21/2011 14:01	0		0		0
24	11/21/2011 14:16	0		0		0
25	11/21/2011 14:31	0		0		0
26	11/21/2011 14:46	0		0		0
27	11/21/2011 15:01	0		0		0
28	11/21/2011 15:16	0		0		0
29	11/21/2011 15:31	0		0		0
30	11/21/2011 15:46	0		0		0
31	11/21/2011 16:01	0		0		0
32	11/21/2011 16:16	0		0		0
33	11/21/2011 16:31	0		0		0
34	11/21/2011 16:46	0		0		0
35	11/21/2011 17:01	0		0		0.1

```
=====
```


36	11/21/2011 17:16	0	0	0.1
37	11/21/2011 17:31	0	0	0
38	11/21/2011 17:46	0	0	0
39	11/21/2011 18:01	0	0	0.1

=====

Max(ppm)

100

5.2

=====

Alarm

=====

TrakPro Version 4.30 ASCII Data File

Model: Dust Trak
 Model Number 8520
 Serial Number: 85200085
 Test ID: 15
 Test Abbreviation:
 Start Date: 11/22/2011
 Start Time: 8:27:33
 Duration (dd:hh:mm:ss): 0:08:45:00
 Time constant 10
 Log Interval (m) 15:00
 Number of pairs 35
 Notes: DW 1

Statistics Channel: Aerosol
 Units: mg/m³
 Average: 0.034
 Minimum: 0.027
 Time of Minimum 10:27:33
 Date of Minimum 11/22/2011
 Maximum: 0.045
 Time of Maximum 9:27:33
 Date of Maximum 11/22/2011

Calibration Sensor: Aerosol
 Cal. date 11/22/2011

Date MM/dd/yyyy	Time hh:mm:ss	Aerosol mg/m ³
11/22/2011	8:42:33	0.042
11/22/2011	8:57:33	0.035
11/22/2011	9:12:33	0.044
11/22/2011	9:27:33	0.045
11/22/2011	9:42:33	0.035
11/22/2011	9:57:33	0.036
11/22/2011	10:12:33	0.03
11/22/2011	10:27:33	0.027
11/22/2011	10:42:33	0.031
11/22/2011	10:57:33	0.036
11/22/2011	11:12:33	0.03
11/22/2011	11:27:33	0.032
11/22/2011	11:42:33	0.037
11/22/2011	11:57:33	0.03
11/22/2011	12:12:33	0.032
11/22/2011	12:27:33	0.031
11/22/2011	12:42:33	0.038

11/22/2011	12:57:33	0.037
11/22/2011	13:12:33	0.03
11/22/2011	13:27:33	0.03
11/22/2011	13:42:33	0.029
11/22/2011	13:57:33	0.04
11/22/2011	14:12:33	0.034
11/22/2011	14:27:33	0.034
11/22/2011	14:42:33	0.033
11/22/2011	14:57:33	0.035
11/22/2011	15:12:33	0.032
11/22/2011	15:27:33	0.033
11/22/2011	15:42:33	0.032
11/22/2011	15:57:33	0.028
11/22/2011	16:12:33	0.033
11/22/2011	16:27:33	0.036
11/22/2011	16:42:33	0.034
11/22/2011	16:57:33	0.035
11/22/2011	17:12:33	0.036

Instrument: MiniRAE 2000 (PGM7600) Serial Number: 002764
User ID: 00000001 Site ID: 00000070
Data Points: 35 Gas Name: Isobutylene Sample Period: 900 sec
Last Calibration Time: 11/22/2011 07:16

```
=====
Measurement Type:                Min(ppm)                Avg(ppm)
High Alarm Levels:                100                    100
Low Alarm Levels:                 50                     50
=====
```

```
=====
Line#    Date Time        Min(ppm) Alarm    Avg(ppm) Alarm    Max(ppm)
=====
```

1	11/22/2011 7:29	0		0		0
2	11/22/2011 7:44	0		0		0
3	11/22/2011 7:59	0		0		0.2
4	11/22/2011 8:14	0		0		0
5	11/22/2011 8:29	0		0		0
6	11/22/2011 8:44	0		0		0
7	11/22/2011 8:59	0		0		0
8	11/22/2011 9:14	0		0		0
9	11/22/2011 9:29	0		0		0
10	11/22/2011 9:44	0		0		0
11	11/22/2011 9:59	0		0		0
12	11/22/2011 10:14	0		0		0
13	11/22/2011 10:29	0		0		0
14	11/22/2011 10:44	0		0		0
15	11/22/2011 10:59	0		0		0
16	11/22/2011 11:14	0		0		0
17	11/22/2011 11:29	0		0		0
18	11/22/2011 11:44	0		0		0
19	11/22/2011 11:59	0		0		0
20	11/22/2011 12:14	0		0		0
21	11/22/2011 12:29	0		0		0
22	11/22/2011 12:44	0		0		0
23	11/22/2011 12:59	0		0		0
24	11/22/2011 13:14	0		0		0
25	11/22/2011 13:29	0		0		0
26	11/22/2011 13:44	0		0		0
27	11/22/2011 13:59	0		0		0
28	11/22/2011 14:14	0		0		0
29	11/22/2011 14:29	0		0		0
30	11/22/2011 14:44	0		0		0
31	11/22/2011 14:59	0		0		0
32	11/22/2011 15:14	0		0		0.2
33	11/22/2011 15:29	0		0		0
34	11/22/2011 15:44	0		0		0
35	11/22/2011 15:59	0		0		0

```
=====
```

=====

Max(ppm)

100

50

=====

Alarm

=====

TrakPro Version 4.30 ASCII Data File

Model: Dust Trak
 Model Number: 8520
 Serial Number: 85200391
 Test ID: 12
 Test Abbreviation:
 Start Date: 11/22/2011
 Start Time: 8:49:28
 Duration (dd:hh 0:08:45:00
 Time constant (10
 Log Interval (mi 15:00
 Number of poin 35
 Notes: DW 2

Statistics Channel: Aerosol
 Units: mg/m³
 Average: 0.032
 Minimum: 0.026
 Time of Minin 10:19:28
 Date of Minir 11/22/2011
 Maximum: 0.043
 Time of Maxi 14:19:28
 Date of Maxir 11/22/2011

Calibration Sensor: Aerosol
 Cal. date 11/22/2011

Date MM/dd/yyyy	Time hh:mm:ss	Aerosol mg/m ³
11/22/2011	9:04:28	0.037
11/22/2011	9:19:28	0.03
11/22/2011	9:34:28	0.03
11/22/2011	9:49:28	0.028
11/22/2011	10:04:28	0.028
11/22/2011	10:19:28	0.026
11/22/2011	10:34:28	0.027
11/22/2011	10:49:28	0.026
11/22/2011	11:04:28	0.028
11/22/2011	11:19:28	0.028
11/22/2011	11:34:28	0.03
11/22/2011	11:49:28	0.035
11/22/2011	12:04:28	0.028
11/22/2011	12:19:28	0.03
11/22/2011	12:34:28	0.037
11/22/2011	12:49:28	0.03
11/22/2011	13:04:28	0.032

11/22/2011	13:19:28	0.032
11/22/2011	13:34:28	0.031
11/22/2011	13:49:28	0.027
11/22/2011	14:04:28	0.031
11/22/2011	14:19:28	0.043
11/22/2011	14:34:28	0.035
11/22/2011	14:49:28	0.035
11/22/2011	15:04:28	0.036
11/22/2011	15:19:28	0.039
11/22/2011	15:34:28	0.036
11/22/2011	15:49:28	0.033
11/22/2011	16:04:28	0.033
11/22/2011	16:19:28	0.028
11/22/2011	16:34:28	0.031
11/22/2011	16:49:28	0.029
11/22/2011	17:04:28	0.032
11/22/2011	17:19:28	0.037
11/22/2011	17:34:28	0.036

Instrument: MiniRAE 2000 (PGM7600)

Serial Number: 902335

User ID: 00000001 Site ID: 00000027

Data Points: 34 Gas Name: Isobutylene

Sample Period: 900 sec

Last Calibration Time: 11/22/2011 08:16

Measurement Type:

Min(ppm)

High Alarm Levels:

25

Low Alarm Levels:

5.2

Line#	Date Time	Min(ppm)	Alarm	Avg(ppm)
1	11/22/2011 8:31		0	0
2	11/22/2011 8:46		0	0
3	11/22/2011 9:01		0	0
4	11/22/2011 9:16		0	0
5	11/22/2011 9:31		0	0
6	11/22/2011 9:46		0	0
7	11/22/2011 10:01		0	0
8	11/22/2011 10:16	0:00:00		0
9	11/22/2011 10:31	1/0/1900		0
10	11/22/2011 10:46	0		0
11	11/22/2011 11:01	0:00:00		0
12	11/22/2011 11:16	1/0/1900		0
13	11/22/2011 11:31	0		0
14	11/22/2011 11:46	0		0
15	11/22/2011 12:01	1/0/1900		0
16	11/22/2011 12:16	0		0
17	11/22/2011 12:31	0		0
18	11/22/2011 12:46	0		0
1/19/1900	11/22/2011 13:01	0		0
1/20/1900	11/22/2011 13:16	0		0
1/21/1900	11/22/2011 13:31	0		0
1/22/1900	11/22/2011 13:46	0		0
1/23/1900	11/22/2011 14:01	0		0
1/24/1900	11/22/2011 14:16	0		0
1/25/1900	11/22/2011 14:31	0		0
1/26/1900	11/22/2011 14:46	0		0
1/27/1900	11/22/2011 15:01	0		0
1/28/1900	11/22/2011 15:16	0		0
1/29/1900	11/22/2011 15:31	0		0
1/30/1900	11/22/2011 15:46	0		0
1/31/1900	11/22/2011 16:01	0		0
2/1/1900	11/22/2011 16:16	0		0
2/2/1900	11/22/2011 16:31	0		0
2/3/1900	11/22/2011 16:46	0		0

Avg(ppm)	Max(ppm)
25	25
5.2	5.2

Alarm Max(ppm) Alarm

[illegible]

TrakPro Version 4.30 ASCII Data File

Model: Dust Trak
Model Number: 8520
Serial Number: 85197769
Test ID: 13
Test Abbreviation:
Start Date: 11/22/2011
Start Time: 8:31:18
Duration (dd:hh:mm:ss): 00:08:45:00
Time constant (s): 10
Log Interval (min): 15:00
Number of points: 35
Notes: UP

Statistics Channel: Aerosol
Units: mg/m³
Average: 0.033
Minimum: 0.028
Time of Minimum: 10:01:18
Date of Minimum: 11/22/2011
Maximum: 0.04
Time of Maximum: 14:01:18
Date of Maximum: 11/22/2011

Calibration Sensor: Aerosol
Cal. date: 11/22/2011

Date MM/dd/yyyy	Time hh:mm:ss	Aerosol mg/m ³
11/22/2011	8:46:18	0.038
11/22/2011	9:01:18	0.03
11/22/2011	9:16:18	0.033
11/22/2011	9:31:18	0.029
11/22/2011	9:46:18	0.035
11/22/2011	10:01:18	0.028
11/22/2011	10:16:18	0.028
11/22/2011	10:31:18	0.029
11/22/2011	10:46:18	0.031
11/22/2011	11:01:18	0.031
11/22/2011	11:16:18	0.036
11/22/2011	11:31:18	0.034
11/22/2011	11:46:18	0.03
11/22/2011	12:01:18	0.035
11/22/2011	12:16:18	0.035
11/22/2011	12:31:18	0.033
11/22/2011	12:46:18	0.031

11/22/2011	13:01:18	0.03
11/22/2011	13:16:18	0.03
11/22/2011	13:31:18	0.03
11/22/2011	13:46:18	0.034
11/22/2011	14:01:18	0.04
11/22/2011	14:16:18	0.034
11/22/2011	14:31:18	0.039
11/22/2011	14:46:18	0.037
11/22/2011	15:01:18	0.033
11/22/2011	15:16:18	0.034
11/22/2011	15:31:18	0.033
11/22/2011	15:46:18	0.034
11/22/2011	16:01:18	0.032
11/22/2011	16:16:18	0.034
11/22/2011	16:31:18	0.033
11/22/2011	16:46:18	0.033
11/22/2011	17:01:18	0.035
11/22/2011	17:16:18	0.037

Instrument: MiniRAE 2000 (PGM7600)

Serial Number: 013450

User ID: 00000001 Site ID: 00000006

Data Points: 20 Gas Name: Isobutylene

Sample Period: 900 sec

Last Calibration Time: 11/22/2011 11:53

=====

Measurement Type:	Min(ppm)	Avg(ppm)
High Alarm Levels:	100	100
Low Alarm Levels:	5.2	5.2

=====

Line#	Date Time	Min(ppm)	Alarm	Avg(ppm)	Alarm	Max(ppm)
-------	-----------	----------	-------	----------	-------	----------

=====

1	11/22/2011 12:08	0		0		0
2	11/22/2011 12:23	0		0		0
3	11/22/2011 12:38	0		0		0
4	11/22/2011 12:53	0		0		0
5	11/22/2011 13:08	0		0		0
6	11/22/2011 13:23	0		0		0
7	11/22/2011 13:38	0		0		0
8	11/22/2011 13:53	0		0		0
9	11/22/2011 14:08	0		0		0
10	11/22/2011 14:23	0		0		0
11	11/22/2011 14:38	0		0		0
12	11/22/2011 14:53	0		0		0
13	11/22/2011 15:08	0		0		0
14	11/22/2011 15:23	0		0		0
15	11/22/2011 15:38	0		0		0
16	11/22/2011 15:53	0		0		0
17	11/22/2011 16:08	0		0		0
18	11/22/2011 16:23	0		0		0
19	11/22/2011 16:38	0		0		0
20	11/22/2011 16:53	0		0		0

=====

Max(ppm)

100

5.2

=====

Alarm

=====

TrakPro Version 4.30 ASCII Data File **1/2**

Model: Dust Trak
 Model Number: 8520
 Serial Number: 85200085
 Test ID: 16
 Test Abbreviation:
 Start Date: 11/23/2011
 Start Time: 8:27:11
 Duration (dd:hh:mm:ss): 0:02:15:00
 Time constant (seconds) 10
 Log Interval (mm:ss): 15:00
 Number of points: 9
 Notes: DW 1

Statistics Channel: Aerosol
 Units: mg/m³
 Average: 0.012
 Minimum: 0.001
 Time of Minimum: 9:27:11
 Date of Minimum: 11/23/2011
 Maximum: 0.043
 Time of Maximum: 10:42:11
 Date of Maximum: 11/23/2011

Calibration Sensor: Aerosol
 Cal. date 11/23/2011

Date MM/dd/yyyy	Time hh:mm:ss	Aerosol mg/m ³
11/23/2011	8:42:11	0.036
11/23/2011	8:57:11	0.002
11/23/2011	9:12:11	0.002
11/23/2011	9:27:11	0.001
11/23/2011	9:42:11	0.002
11/23/2011	9:57:11	0.003
11/23/2011	10:12:11	0.002
11/23/2011	10:27:11	0.015
11/23/2011	10:42:11	0.043

TrakPro Version 4.30 ASCII Data File **2/2**

Model: Dust Trak
 Model Number: 8520
 Serial Number: 85200085
 Test ID: 17
 Test Abbreviation:
 Start Date: 11/23/2011

Start Time: 12:28:30
Duration (dd:hh:mm:ss): 0:05:30:00
Time constant (seconds) 10
Log Interval (mm:ss): 15:00
Number of points: 22
Notes: DW 1

Statistics Channel: Aerosol
Units: mg/m³
Average: 0.013
Minimum: 0.003
Time of Minimum: 12:43:30
Date of Minimum: 11/23/2011
Maximum: 0.051
Time of Maximum: 14:43:30
Date of Maximum: 11/23/2011

Calibration Sensor: Aerosol
Cal. date 11/23/2011

Date MM/dd/yyyy	Time hh:mm:ss	Aerosol mg/m ³
11/23/2011	12:43:30	0.003
11/23/2011	12:58:30	0.011
11/23/2011	13:13:30	0.005
11/23/2011	13:28:30	0.007
11/23/2011	13:43:30	0.004
11/23/2011	13:58:30	0.016
11/23/2011	14:13:30	0.013
11/23/2011	14:28:30	0.018
11/23/2011	14:43:30	0.051
11/23/2011	14:58:30	0.018
11/23/2011	15:13:30	0.013
11/23/2011	15:28:30	0.005
11/23/2011	15:43:30	0.01
11/23/2011	15:58:30	0.033
11/23/2011	16:13:30	0.015
11/23/2011	16:28:30	0.007
11/23/2011	16:43:30	0.008
11/23/2011	16:58:30	0.009
11/23/2011	17:13:30	0.01
11/23/2011	17:28:30	0.008
11/23/2011	17:43:30	0.005
11/23/2011	17:58:30	0.009

Instrument: MiniRAE 2000 (PGM7600)

Serial Number: 002764 **1/2**

User ID: 00000001 Site ID: 00000071

Data Points: 9 Gas Name: Isobutylene

Sample Period: 900 sec

Last Calibration Time: 11/22/2011 07:16

Measurement Type:

Min(ppm)

Avg(ppm)

High Alarm Levels:

100

100

Low Alarm Levels:

50

50

Line#	Date Time	Min(ppm)	Alarm	Avg(ppm)	Alarm	Max(ppm)
1	11/23/2011 7:21	0		0		0
2	11/23/2011 7:36	0		0		0
3	11/23/2011 7:51	0		0		0
4	11/23/2011 8:06	0		0		0
5	11/23/2011 8:21	0		0		0
6	11/23/2011 8:36	0		0		0
7	11/23/2011 8:51	0		0		0
8	11/23/2011 9:06	0		0		0
9	11/23/2011 9:21	0		0		0

Instrument: MiniRAE 2000 (PGM7600)

Serial Number: 002764 **2/2**

User ID: 00000001 Site ID: 00000073

Data Points: 17 Gas Name: Isobutylene

Sample Period: 900 sec

Last Calibration Time: 11/22/2011 07:16

Measurement Type:

Min(ppm)

Avg(ppm)

High Alarm Levels:

100

100

Low Alarm Levels:

50

50

Line#	Date Time	Min(ppm)	Alarm	Avg(ppm)	Alarm	Max(ppm)
1	11/23/2011 12:29	0		0		0
2	11/23/2011 12:44	0		0		0
3	11/23/2011 12:59	0		0		0
4	11/23/2011 13:14	0		0		0
5	11/23/2011 13:29	0		0		0
6	11/23/2011 13:44	0		0		0
7	11/23/2011 13:59	0		0		0
8	11/23/2011 14:14	0		0		0
9	11/23/2011 14:29	0		0		0
10	11/23/2011 14:44	0		0		0
11	11/23/2011 14:59	0		0		0
12	11/23/2011 15:14	0		0		0
13	11/23/2011 15:29	0		0		0
14	11/23/2011 15:44	0		0		0

15	11/23/2011 15:59	0	0	0
16	11/23/2011 16:14	0	0	0
17	11/23/2011 16:29	0	0	1.4

```
=====
Max(ppm)
    100
    50
=====
Alarm
=====
```

```
=====
Max(ppm)
    100
    50
=====
Alarm
=====
```

TrakPro Version 4.30 ASCII Data File **1/2**

Model: Dust Trak
 Model Number: 8520
 Serial Number: 85200391
 Test ID: 13
 Test Abbreviation:
 Start Date: 11/23/2011
 Start Time: 8:48:42
 Duration (dd:hh:mm:ss): 0:00:01:00
 Time constant (seconds): 10
 Log Interval (mm:ss): 1:00
 Number of points: 1
 Notes: DW 2

Statistics Channel: Aerosol
 Units: mg/m³
 Average: 0.012
 Minimum: 0.012
 Time of Minimum: 8:49:42
 Date of Minimum: 11/23/2011
 Maximum: 0.012
 Time of Maximum: 8:49:42
 Date of Maximum: 11/23/2011

Calibration Sensor: Aerosol
 Cal. date 11/23/2011

Date	Time	Aerosol
MM/dd/yyyy	hh:mm:ss	mg/m ³
11/23/2011	8:49:42	0.012

TrakPro Version 4.30 ASCII Data File **2/2**

Model: Dust Trak
 Model Number: 8520
 Serial Number: 85200391
 Test ID: 14
 Test Abbreviation:
 Start Date: 11/23/2011
 Start Time: 12:46:27
 Duration (dd:hh:mm:ss): 0:05:30:00
 Time constant (seconds): 10
 Log Interval (mm:ss): 15:00
 Number of points: 22
 Notes: DW 2

Statistics Channel: Aerosol

Units: mg/m³
 Average: 0.003
 Minimum: 0
 Time of Minimum: 13:01:27
 Date of Minimum: 11/23/2011
 Maximum: 0.005
 Time of Maximum: 16:16:27
 Date of Maximum: 11/23/2011

Calibration Sensor: Aerosol
 Cal. date 11/23/2011

Date MM/dd/yyyy	Time hh:mm:ss	Aerosol mg/m ³
11/23/2011	13:01:27	0
11/23/2011	13:16:27	0.002
11/23/2011	13:31:27	0.003
11/23/2011	13:46:27	0.002
11/23/2011	14:01:27	0.003
11/23/2011	14:16:27	0.003
11/23/2011	14:31:27	0.002
11/23/2011	14:46:27	0.003
11/23/2011	15:01:27	0.001
11/23/2011	15:16:27	0.001
11/23/2011	15:31:27	0.002
11/23/2011	15:46:27	0.001
11/23/2011	16:01:27	0.004
11/23/2011	16:16:27	0.005
11/23/2011	16:31:27	0.004
11/23/2011	16:46:27	0.002
11/23/2011	17:01:27	0.003
11/23/2011	17:16:27	0.003
11/23/2011	17:31:27	0.002
11/23/2011	17:46:27	0.002
11/23/2011	18:01:27	0.005
11/23/2011	18:16:27	0.004

Instrument: MiniRAE 2000 (PGM7600) Serial Number: 902335 **1/2**
User ID: 00000001 Site ID: 00000028
Data Points: 9 Gas Name: Isobutylene Sample Period: 900 sec
Last Calibration Time: 11/23/2011 08:09

=====

Measurement Type:	Min(ppm)	Avg(ppm)
High Alarm Levels:	25	25
Low Alarm Levels:	5.2	5.2

=====

=====

Line#	Date Time	Min(ppm)	Alarm	Avg(ppm)	Alarm	Max(ppm)
-------	-----------	----------	-------	----------	-------	----------

=====

1	11/23/2011 8:23	0		0		0
2	11/23/2011 8:38	0		0		0
3	11/23/2011 8:53	0		0		0
4	11/23/2011 9:08	0		0		0
5	11/23/2011 9:23	0		0		0
6	11/23/2011 9:38	0		0		0
7	11/23/2011 9:53	0		0		0
8	11/23/2011 10:08	0		0		0
9	11/23/2011 10:23	0		0		0

=====

Instrument: MiniRAE 2000 (PGM7600) Serial Number: 902335 **2/2**
User ID: 00000001 Site ID: 00000029
Data Points: 18 Gas Name: Isobutylene Sample Period: 900 sec
Last Calibration Time: 11/23/2011 08:09

=====

Measurement Type:	Min(ppm)	Avg(ppm)
High Alarm Levels:	25	25
Low Alarm Levels:	5.2	5.2

=====

=====

Line#	Date Time	Min(ppm)	Alarm	Avg(ppm)	Alarm	Max(ppm)
-------	-----------	----------	-------	----------	-------	----------

=====

1	11/23/2011 13:24	0		0		0
2	11/23/2011 13:39	0		0		0
3	11/23/2011 13:54	0		0		0
4	11/23/2011 14:09	0		0		0
5	11/23/2011 14:24	0		0		0
6	11/23/2011 14:39	0		0		0
7	11/23/2011 14:54	0		0		0
8	11/23/2011 15:09	0		0		0
9	11/23/2011 15:24	0		0		0
10	11/23/2011 15:39	0		0		0
11	11/23/2011 15:54	0		0		0
12	11/23/2011 16:09	0		0		0
13	11/23/2011 16:24	0		0		0
14	11/23/2011 16:39	0		0		0

=====

15	11/23/2011 16:54	0	0	0
16	11/23/2011 17:09	0	0	0
17	11/23/2011 17:24	0	0	0
18	11/23/2011 17:39	0	0	0

```
=====
Max(ppm)
    25
    5.2
=====
Alarm
=====
```

```
=====
Max(ppm)
    25
    5.2
=====
Alarm
=====
```

TrakPro Version 4.30 ASCII Data File **1/2**

Model: Dust Trak
 Model Number: 8520
 Serial Number: 85197769
 Test ID: 14
 Test Abbreviation:
 Start Date: 11/23/2011
 Start Time: 8:22:50
 Duration (dd:hh:00:02:15:00)
 Time constant (: 10
 Log Interval (mr 15:00
 Number of point 9
 Notes: UP

Statistics Channel: Aerosol
 Units: mg/m³
 Average: 0.003
 Minimum: 0.001
 Time of Minimum 8:52:50
 Date of Minimum 11/23/2011
 Maximum: 0.006
 Time of Maximum 10:22:50
 Date of Maximum 11/23/2011

Calibration Sensor: Aerosol
 Cal. date 11/23/2011

Date MM/dd/yyyy	Time hh:mm:ss	Aerosol mg/m ³
11/23/2011	8:37:50	0.003
11/23/2011	8:52:50	0.001
11/23/2011	9:07:50	0.001
11/23/2011	9:22:50	0.001
11/23/2011	9:37:50	0.001
11/23/2011	9:52:50	0.002
11/23/2011	10:07:50	0.002
11/23/2011	10:22:50	0.006
11/23/2011	10:37:50	0.006

TrakPro Version 4.30 ASCII Data File **2/2**

Model: Dust Trak
 Model Number: 8520
 Serial Number: 85197769
 Test ID: 15
 Test Abbreviation:
 Start Date: 11/23/2011

Start Time: 12:22:46
Duration (dd:hh:0:05:30:00
Time constant (: 10
Log Interval (mr 15:00
Number of point 22
Notes: UP

Statistics Channel: Aerosol
Units: mg/m³
Average: 0.004
Minimum: 0.002
Time of Minimum 12:37:46
Date of Minimum 11/23/2011
Maximum: 0.007
Time of Maximum 13:37:46
Date of Maximum 11/23/2011

Calibration Sensor: Aerosol
Cal. date 11/23/2011

Date MM/dd/yyyy	Time hh:mm:ss	Aerosol mg/m ³
11/23/2011	12:37:46	0.002
11/23/2011	12:52:46	0.003
11/23/2011	13:07:46	0.004
11/23/2011	13:22:46	0.003
11/23/2011	13:37:46	0.007
11/23/2011	13:52:46	0.007
11/23/2011	14:07:46	0.005
11/23/2011	14:22:46	0.005
11/23/2011	14:37:46	0.005
11/23/2011	14:52:46	0.003
11/23/2011	15:07:46	0.003
11/23/2011	15:22:46	0.003
11/23/2011	15:37:46	0.004
11/23/2011	15:52:46	0.006
11/23/2011	16:07:46	0.006
11/23/2011	16:22:46	0.004
11/23/2011	16:37:46	0.003
11/23/2011	16:52:46	0.003
11/23/2011	17:07:46	0.007
11/23/2011	17:22:46	0.004
11/23/2011	17:37:46	0.004
11/23/2011	17:52:46	0.004

Instrument: MiniRAE 2000 (PGM7600) Serial Number: 013450 **1/3**
User ID: 00000001 Site ID: 00000006
Data Points: 9 Gas Name: Isobutylene Sample Period: 900 sec
Last Calibration Time: 11/23/2011 08:17

```
=====
Measurement Type:                Min(ppm)                Avg(ppm)
High Alarm Levels:                100                    100
Low Alarm Levels:                 5.2                     5.2
=====
```

```
=====
Line#    Date Time                Min(ppm) Alarm    Avg(ppm) Alarm    Max(ppm)
=====
      1    11/23/2011 8:29                0                0                0
      2    11/23/2011 8:44                0                0                0
      3    11/23/2011 8:59                0                0                0.1
      4    11/23/2011 9:14               0.1               0.1               0.3
      5    11/23/2011 9:29               0.2               0.3               0.4
      6    11/23/2011 9:44               0.2               0.4               0.7
      7    11/23/2011 9:59               0.6               0.8               1.2
      8    11/23/2011 10:14               1                1.3               1.7
      9    11/23/2011 10:29              1.7                2.1               2.6
=====
```

Instrument: MiniRAE 2000 (PGM7600) Serial Number: 013450 **2/3**
User ID: 00000001 Site ID: 00000006
Data Points: 2 Gas Name: Isobutylene Sample Period: 900 sec
Last Calibration Time: 11/23/2011 08:17

```
=====
Measurement Type:                Min(ppm)                Avg(ppm)
High Alarm Levels:                100                    100
Low Alarm Levels:                 5.2                     5.2
=====
```

```
=====
Line#    Date Time                Min(ppm) Alarm    Avg(ppm) Alarm    Max(ppm)
=====
      1    11/23/2011 12:39                0                4.1                5.9
      2    11/23/2011 12:54                3                3.5                4.3
=====
```

Instrument: MiniRAE 2000 (PGM7600) Serial Number: 013450 **3/3**
User ID: 00000001 Site ID: 00000006
Data Points: 17 Gas Name: Isobutylene Sample Period: 900 sec
Last Calibration Time: 11/23/2011 08:17

```
=====
Measurement Type:                Min(ppm)                Avg(ppm)
High Alarm Levels:                100                    100
Low Alarm Levels:                 5.2                     5.2
=====
```

```
=====
Line#    Date Time                Min(ppm) Alarm    Avg(ppm) Alarm    Max(ppm)
=====
```

1	11/23/2011 13:26	1.9	2.3	2.9
2	11/23/2011 13:41	2	2.3	2.8
3	11/23/2011 13:56	1.8	2.1	2.5
4	11/23/2011 14:11	1.7	2	2.6
5	11/23/2011 14:26	1.4	1.7	2.1
6	11/23/2011 14:41	1.3	1.5	1.8
7	11/23/2011 14:56	1.4	1.6	2
8	11/23/2011 15:11	1.4	1.7	2.1
9	11/23/2011 15:26	1.4	1.7	2.1
10	11/23/2011 15:41	1.6	1.6	1.9
11	11/23/2011 15:56	1.3	1.4	1.8
12	11/23/2011 16:11	1.2	1.3	1.5
13	11/23/2011 16:26	1.1	1.2	1.8
14	11/23/2011 16:41	1.1	1.2	1.4
15	11/23/2011 16:56	1	1.1	1.3
16	11/23/2011 17:11	1	1.1	1.3
17	11/23/2011 17:26	1	1	1.3

```
=====
Max(ppm)
    100
    5.2
=====
Alarm
=====
```

```
=====
Max(ppm)
    100
    5.2
=====
Alarm
=====
L
```

```
=====
Max(ppm)
    100
    5.2
=====
Alarm
=====
```

Instrument: MiniRAE 2000 (PGM7600)

Serial Number: 013450

User ID: 00000001 Site ID: 00000006

Data Points: 37 Gas Name: Isobutylene

Sample Period: 900 sec

Last Calibration Time: 11/28/2011 08:27

```
=====
Measurement Type:           Min(ppm)           Avg(ppm)
High Alarm Levels:           100                100
Low Alarm Levels:            5.2                5.2
=====
```

```
=====
Line#    Date Time      Min(ppm) Alarm    Avg(ppm) Alarm    Max(ppm)
=====
```

1	11/28/2011 8:39	0.4		0.8		5.4
2	11/28/2011 8:54	0.7		0.8		1.1
3	11/28/2011 9:09	1		1.1		1.3
4	11/28/2011 9:24	1.1		1.2		1.4
5	11/28/2011 9:39	1.1		1.2		1.4
6	11/28/2011 9:54	1.1		1.2		1.4
7	11/28/2011 10:09	1.2		1.2		1.4
8	11/28/2011 10:24	1.1		1.2		1.4
9	11/28/2011 10:39	1.1		1.1		1.4
10	11/28/2011 10:54	1		1		1.2
11	11/28/2011 11:09	1		1		1.3
12	11/28/2011 11:24	1		1		1.4
13	11/28/2011 11:39	0.9		1		1.2
14	11/28/2011 11:54	1		1		1.3
15	11/28/2011 12:09	1		1		1.2
16	11/28/2011 12:24	0.8		1		1.4
17	11/28/2011 12:39	0.9		1		1.4
18	11/28/2011 12:54	0.8		0.9		1.2
19	11/28/2011 13:09	0.7		0.7		1
20	11/28/2011 13:24	0.5		0.6		0.9
21	11/28/2011 13:39	0.4		0.4		0.8
22	11/28/2011 13:54	0.2		0.3		0.6
23	11/28/2011 14:09	0.2		0.3		0.5
24	11/28/2011 14:24	0.2		0.2		0.5
25	11/28/2011 14:39	0.1		0.2		0.5
26	11/28/2011 14:54	0.1		0.1		0.4
27	11/28/2011 15:09	0		0.1		0.3
28	11/28/2011 15:24	0		0		0.2
29	11/28/2011 15:39	0		0		0.4
30	11/28/2011 15:54	0		0.1		0.4
31	11/28/2011 16:09	0.1		0.1		0.5
32	11/28/2011 16:24	0.1		0.2		0.6
33	11/28/2011 16:39	0.1		0.1		0.5
34	11/28/2011 16:54	0.1		0.2		0.5
35	11/28/2011 17:09	0.1		0.1		0.3

```
=====
```


36	11/28/2011 17:24	0.1	0.2	0.5
37	11/28/2011 17:39	0.2	0.2	0.5

=====

Max(ppm)

100

5.2

=====

Alarm

=====

L

TrakPro Version 4.30 ASCII Data File

Model: Dust Trak
 Model Number: 8520
 Serial Number: 85200085
 Test ID: 18
 Test Abbreviation:
 Start Date: 11/28/2011
 Start Time: 8:41:24
 Duration (dd:hh:mm:ss): 0:09:15:00
 Time constant (seconds): 10
 Log Interval (mm:ss): 15:00
 Number of points: 37
 Notes: DW 1

Statistics Channel: Aerosol
 Units: mg/m³
 Average: 0.02
 Minimum: 0.013
 Time of Minimum: 14:56:24
 Date of Minimum: 11/28/2011
 Maximum: 0.055
 Time of Maximum: 16:41:24
 Date of Maximum: 11/28/2011

Calibration Sensor: Aerosol
 Cal. date 11/28/2011

Date MM/dd/yyyy	Time hh:mm:ss	Aerosol mg/m ³
11/28/2011	8:56:24	0.019
11/28/2011	9:11:24	0.016
11/28/2011	9:26:24	0.024
11/28/2011	9:41:24	0.018
11/28/2011	9:56:24	0.017
11/28/2011	10:11:24	0.017
11/28/2011	10:26:24	0.019
11/28/2011	10:41:24	0.016
11/28/2011	10:56:24	0.025
11/28/2011	11:11:24	0.02
11/28/2011	11:26:24	0.029
11/28/2011	11:41:24	0.025
11/28/2011	11:56:24	0.024
11/28/2011	12:11:24	0.022
11/28/2011	12:26:24	0.023
11/28/2011	12:41:24	0.025
11/28/2011	12:56:24	0.033

11/28/2011	13:11:24	0.028
11/28/2011	13:26:24	0.027
11/28/2011	13:41:24	0.017
11/28/2011	13:56:24	0.014
11/28/2011	14:11:24	0.015
11/28/2011	14:26:24	0.029
11/28/2011	14:41:24	0.016
11/28/2011	14:56:24	0.013
11/28/2011	15:11:24	0.015
11/28/2011	15:26:24	0.013
11/28/2011	15:41:24	0.016
11/28/2011	15:56:24	0.014
11/28/2011	16:11:24	0.016
11/28/2011	16:26:24	0.022
11/28/2011	16:41:24	0.055
11/28/2011	16:56:24	0.015
11/28/2011	17:11:24	0.013
11/28/2011	17:26:24	0.015
11/28/2011	17:41:24	0.013
11/28/2011	17:56:24	0.016

Instrument: MiniRAE 2000 (PGM7600)

Serial Number: 002764

User ID: 00000001 Site ID: 00000074

Data Points: 37 Gas Name: Isobutylene

Sample Period: 900 sec

Last Calibration Time: 11/28/2011 07:18

Measurement Type:

Min(ppm)

Avg(ppm)

High Alarm Levels:

100

100

Low Alarm Levels:

50

50

Line#	Date Time	Min(ppm)	Alarm	Avg(ppm)	Alarm	Max(ppm)
1	11/28/2011 7:37	0		0		0
2	11/28/2011 7:52	0		0		0
3	11/28/2011 8:07	0		0		0
4	11/28/2011 8:22	0		0		0
5	11/28/2011 8:37	0		0		0
6	11/28/2011 8:52	0		0		0
7	11/28/2011 9:07	0		0		0
8	11/28/2011 9:22	0		0		0
9	11/28/2011 9:37	0		0		0
10	11/28/2011 9:52	0		0		0
11	11/28/2011 10:07	0		0		0
12	11/28/2011 10:22	0		0		0
13	11/28/2011 10:37	0		0		0
14	11/28/2011 10:52	0		0		0
15	11/28/2011 11:07	0		0		0
16	11/28/2011 11:22	0		0		0
17	11/28/2011 11:37	0		0		0
18	11/28/2011 11:52	0		0		0
19	11/28/2011 12:07	0		0		0
20	11/28/2011 12:22	0		0		0
21	11/28/2011 12:37	0		0		0
22	11/28/2011 12:52	0		0		0
23	11/28/2011 13:07	0		0		0
24	11/28/2011 13:22	0		0		0
25	11/28/2011 13:37	0		0		0
26	11/28/2011 13:52	0		0		0
27	11/28/2011 14:07	0		0		0
28	11/28/2011 14:22	0		0		0
29	11/28/2011 14:37	0		0		0
30	11/28/2011 14:52	0		0		0
31	11/28/2011 15:07	0		0		0
32	11/28/2011 15:22	0		0		6.4
33	11/28/2011 15:37	0		0		0
34	11/28/2011 15:52	0		0		0
35	11/28/2011 16:07	0		0		0

36	11/28/2011 16:22	0	0	0
37	11/28/2011 16:37	0	0	0

```
=====
Max(ppm)
    100
    50
=====
Alarm
=====
```

TrakPro Version 4.30 ASCII Data File

Model: Dust Trak
 Model Number: 8520
 Serial Number: 85200391
 Test ID: 13
 Test Abbreviation:
 Start Date: 11/23/2011
 Start Time: 8:48:42
 Duration (dd:hh:mm:ss): 0:00:01:00
 Time constant (seconds): 10
 Log Interval (mm:ss): 1:00
 Number of points: 1
 Notes: DW 2

Statistics	Channel:	Aerosol	
	Units:	mg/m ³	
	Average:		0.012
	Minimum:		0.012
	Time of Minimum:		8:49:42
	Date of Minimum:		11/23/2011
	Maximum:		0.012
	Time of Maximum:		8:49:42
	Date of Maximum:		11/23/2011

Calibration	Sensor:	Aerosol	
	Cal. date		5/14/2010

Date	Time	Aerosol	
MM/dd/yyyy	hh:mm:ss	mg/m ³	
11/23/2011	8:49:42		0.012

TrakPro Version 4.30 ASCII Data File

Model: Dust Trak
 Model Number: 8520
 Serial Number: 85200391
 Test ID: 15
 Test Abbreviation:
 Start Date: 11/28/2011
 Start Time: 9:02:23
 Duration (dd:hh:mm:ss): 0:09:15:00
 Time constant (seconds): 10
 Log Interval (mm:ss): 15:00
 Number of points: 37
 Notes: DW 2

Statistics	Channel:	Aerosol	
	Units:	mg/m ³	
	Average:		0.027
	Minimum:		0.01
	Time of Minimum:		15:32:23
	Date of Minimum:		11/28/2011
	Maximum:		0.11
	Time of Maximum:		11:17:23
	Date of Maximum:		11/28/2011

Calibration	Sensor:	Aerosol	
	Cal. date		11/28/2011

Date	Time	Aerosol	
MM/dd/yyyy	hh:mm:ss	mg/m ³	
11/28/2011	9:17:23	0.025	
11/28/2011	9:32:23	0.018	
11/28/2011	9:47:23	0.016	
11/28/2011	10:02:23	0.025	
11/28/2011	10:17:23	0.022	
11/28/2011	10:32:23	0.041	
11/28/2011	10:47:23	0.019	
11/28/2011	11:02:23	0.051	
11/28/2011	11:17:23	0.11	
11/28/2011	11:32:23	0.051	
11/28/2011	11:47:23	0.054	
11/28/2011	12:02:23	0.027	
11/28/2011	12:17:23	0.032	
11/28/2011	12:32:23	0.046	
11/28/2011	12:47:23	0.036	
11/28/2011	13:02:23	0.052	
11/28/2011	13:17:23	0.035	
11/28/2011	13:32:23	0.024	
11/28/2011	13:47:23	0.019	
11/28/2011	14:02:23	0.015	
11/28/2011	14:17:23	0.011	
11/28/2011	14:32:23	0.015	
11/28/2011	14:47:23	0.014	
11/28/2011	15:02:23	0.012	
11/28/2011	15:17:23	0.022	
11/28/2011	15:32:23	0.01	
11/28/2011	15:47:23	0.012	
11/28/2011	16:02:23	0.014	
11/28/2011	16:17:23	0.016	
11/28/2011	16:32:23	0.026	
11/28/2011	16:47:23	0.017	

11/28/2011	17:02:23	0.021
11/28/2011	17:17:23	0.015
11/28/2011	17:32:23	0.019
11/28/2011	17:47:23	0.024
11/28/2011	18:02:23	0.021
11/28/2011	18:17:23	0.026

Instrument: MiniRAE 2000 (PGM7600)

Serial Number: 902335

User ID: 00000001 Site ID: 00000030

Data Points: 37 Gas Name: Isobutylene

Sample Period: 900 sec

Last Calibration Time: 11/28/2011 08:19

Measurement Type:

Min(ppm)

Avg(ppm)

High Alarm Levels:

25

25

Low Alarm Levels:

5.2

5.2

Line#	Date Time	Min(ppm)	Alarm	Avg(ppm)	Alarm	Max(ppm)
1	11/28/2011 8:33	0		0		0
2	11/28/2011 8:48	0		0		0
3	11/28/2011 9:03	0		0		0
4	11/28/2011 9:18	0		0		0
5	11/28/2011 9:33	0		0		0
6	11/28/2011 9:48	0		0		0
7	11/28/2011 10:03	0		0		0
8	11/28/2011 10:18	0		0		0
9	11/28/2011 10:33	0		0		0
10	11/28/2011 10:48	0		0		0
11	11/28/2011 11:03	0		0		0
12	11/28/2011 11:18	0		0		0
13	11/28/2011 11:33	0		0		0
14	11/28/2011 11:48	0		0		0
15	11/28/2011 12:03	0		0		0
16	11/28/2011 12:18	0		0		0
17	11/28/2011 12:33	0		0		0
18	11/28/2011 12:48	0		0		0
19	11/28/2011 13:03	0		0		0
20	11/28/2011 13:18	0		0		0
21	11/28/2011 13:33	0		0		0
22	11/28/2011 13:48	0		0		0
23	11/28/2011 14:03	0		0		0
24	11/28/2011 14:18	0		0		0
25	11/28/2011 14:33	0		0		0
26	11/28/2011 14:48	0		0		0
27	11/28/2011 15:03	0		0		0
28	11/28/2011 15:18	0		0		0
29	11/28/2011 15:33	0		0		0
30	11/28/2011 15:48	0		0		0
31	11/28/2011 16:03	0		0		0
32	11/28/2011 16:18	0		0		0
33	11/28/2011 16:33	0		0		0
34	11/28/2011 16:48	0		0		0
35	11/28/2011 17:03	0		0		0

36	11/28/2011 17:18	0	0	0
37	11/28/2011 17:33	0	0	0

=====

Max(ppm)

25

5.2

=====

Alarm

=====

TrakPro Version 4.30 ASCII Data File

Model: Dust Trak
 Model Number: 8520
 Serial Number: 85197769
 Test ID: 16
 Test Abbreviation:
 Start Date: 11/28/2011
 Start Time: 8:44:56
 Duration (dd:hh:mm:ss): 0:09:00:00
 Time constant (seconds): 10
 Log Interval (mm:ss): 15:00
 Number of points: 36
 Notes: UP

Statistics	Channel:	Aerosol
	Units:	mg/m ³
	Average:	0.015
	Minimum:	0.008
	Time of Minimum:	15:14:56
	Date of Minimum:	11/28/2011
	Maximum:	0.026
	Time of Maximum:	11:59:56
	Date of Maximum:	11/28/2011

Calibration	Sensor:	Aerosol
	Cal. date	11/28/2011

Date MM/dd/yyyy	Time hh:mm:ss	Aerosol mg/m ³
11/28/2011	8:59:56	0.016
11/28/2011	9:14:56	0.015
11/28/2011	9:29:56	0.015
11/28/2011	9:44:56	0.014
11/28/2011	9:59:56	0.014
11/28/2011	10:14:56	0.015
11/28/2011	10:29:56	0.015
11/28/2011	10:44:56	0.015
11/28/2011	10:59:56	0.018
11/28/2011	11:14:56	0.021
11/28/2011	11:29:56	0.021
11/28/2011	11:44:56	0.021
11/28/2011	11:59:56	0.026
11/28/2011	12:14:56	0.02
11/28/2011	12:29:56	0.024
11/28/2011	12:44:56	0.024
11/28/2011	12:59:56	0.024

11/28/2011	13:14:56	0.017
11/28/2011	13:29:56	0.02
11/28/2011	13:44:56	0.012
11/28/2011	13:59:56	0.01
11/28/2011	14:14:56	0.011
11/28/2011	14:29:56	0.012
11/28/2011	14:44:56	0.011
11/28/2011	14:59:56	0.011
11/28/2011	15:14:56	0.008
11/28/2011	15:29:56	0.013
11/28/2011	15:44:56	0.013
11/28/2011	15:59:56	0.013
11/28/2011	16:14:56	0.009
11/28/2011	16:29:56	0.014
11/28/2011	16:44:56	0.008
11/28/2011	16:59:56	0.008
11/28/2011	17:14:56	0.008
11/28/2011	17:29:56	0.01
11/28/2011	17:44:56	0.01

TrakPro Version 4.30 ASCII Data File

Model: Dust Trak
 Model Number: 8520
 Serial Number: 85200085
 Test ID: 20
 Test Abbreviation:
 Start Date: 11/29/2011
 Start Time: 10:26:30
 Duration (dd:hh:mm:ss): 0:03:45:00
 Time constant (seconds): 10
 Log Interval (mm:ss): 15:00
 Number of points: 15
 Notes: DW 1 a

Statistics	Channel:	Aerosol
	Units:	mg/m ³
	Average:	0.01
	Minimum:	0.005
	Time of Minimum:	13:26:30
	Date of Minimum:	11/29/2011
	Maximum:	0.016
	Time of Maximum:	10:41:30
	Date of Maximum:	11/29/2011

Calibration	Sensor:	Aerosol
	Cal. date	11/29/2011

Date	Time	Aerosol
MM/dd/yyyy	hh:mm:ss	mg/m ³
11/29/2011	10:41:30	0.016
11/29/2011	10:56:30	0.009
11/29/2011	11:11:30	0.008
11/29/2011	11:26:30	0.011
11/29/2011	11:41:30	0.012
11/29/2011	11:56:30	0.006
11/29/2011	12:11:30	0.012
11/29/2011	12:26:30	0.009
11/29/2011	12:41:30	0.013
11/29/2011	12:56:30	0.011
11/29/2011	13:11:30	0.012
11/29/2011	13:26:30	0.005
11/29/2011	13:41:30	0.005
11/29/2011	13:56:30	0.016
11/29/2011	14:11:30	0.009

TrakPro Version 4.30 ASCII Data File

Model: Dust Trak
 Model Number: 8520
 Serial Number: 85200085
 Test ID: 21
 Test Abbreviation:
 Start Date: 11/29/2011
 Start Time: 16:47:59
 Duration (dd:hh:mm:ss): 0:01:00:00
 Time constant (seconds): 10
 Log Interval (mm:ss): 15:00
 Number of points: 4
 Notes: DW 1 b

Statistics	Channel:	Aerosol	
	Units:	mg/m ³	
	Average:		0.013
	Minimum:		0.009
	Time of Minimum:		17:17:59
	Date of Minimum:		11/29/2011
	Maximum:		0.016
	Time of Maximum:		17:32:59
	Date of Maximum:		11/29/2011

Calibration	Sensor:	Aerosol
	Cal. date	11/29/2011

Date	Time	Aerosol	
MM/dd/yyyy	hh:mm:ss	mg/m ³	
11/29/2011	17:02:59		0.013
11/29/2011	17:17:59		0.009
11/29/2011	17:32:59		0.016
11/29/2011	17:47:59		0.012

Instrument: MiniRAE 2000 (PGM7600) Serial Number: 002764
User ID: 00000001 Site ID: 00000076
Data Points: 14 Gas Name: Isobutylene Sample Period: 900 sec
Last Calibration Time: 11/29/2011 07:18

```
=====
Measurement Type:                Min(ppm)                Avg(ppm)
High Alarm Levels:                100                    100
Low Alarm Levels:                 50                     50
=====
```

```
=====
Line#    Date Time        Min(ppm) Alarm    Avg(ppm) Alarm    Max(ppm)
=====
      1  11/29/2011 9:36        0.3              0.4              0.7
      2  11/29/2011 9:51        0.1              0.3              0.5
      3  11/29/2011 10:06        0                0                0.1
      4  11/29/2011 10:21        0                0                0
      5  11/29/2011 10:36        0                0                0
      6  11/29/2011 10:51        0                0                0
      7  11/29/2011 11:06        0                0                0
      8  11/29/2011 11:21        0                0                0
      9  11/29/2011 11:36        0                0                0
     10  11/29/2011 11:51        0                0                0
     11  11/29/2011 12:06        0                0                0
     12  11/29/2011 12:21        0                0                0
     13  11/29/2011 12:36        0                0                0
     14  11/29/2011 12:51        0                0                0
=====
```

Instrument: MiniRAE 2000 (PGM7600) Serial Number: 002764
User ID: 00000001 Site ID: 00000077
Data Points: 2 Gas Name: Isobutylene Sample Period: 900 sec
Last Calibration Time: 11/29/2011 07:18

```
=====
Measurement Type:                Min(ppm)                Avg(ppm)
High Alarm Levels:                100                    100
Low Alarm Levels:                 50                     50
=====
```

```
=====
Line#    Date Time        Min(ppm) Alarm    Avg(ppm) Alarm    Max(ppm)
=====
      1  11/29/2011 15:58        1.7              2.6              3.6
      2  11/29/2011 16:13        3.6              4.3              5.1
=====
```

```
=====
Max(ppm)
    100
    50
=====
Alarm
=====
```

```
=====
Max(ppm)
    100
    50
=====
Alarm
=====
```

TrakPro Version 4.30 ASCII Data File

Model: Dust Trak
 Model Number: 8520
 Serial Number: 85200391
 Test ID: 17
 Test Abbreviation:
 Start Date: 11/29/2011
 Start Time: 10:48:33
 Duration (dd:hh:mm:ss): 0:03:45:00
 Time constant (seconds): 10
 Log Interval (mm:ss): 15:00
 Number of points: 15
 Notes: DW 2 a

Statistics	Channel:	Aerosol	
	Units:	mg/m ³	
	Average:		0.007
	Minimum:		0.004
	Time of Minimum:		11:03:33
	Date of Minimum:		11/29/2011
	Maximum:		0.02
	Time of Maximum:		14:18:33
	Date of Maximum:		11/29/2011

Calibration	Sensor:	Aerosol	
	Cal. date		11/29/2011

Date	Time	Aerosol	
MM/dd/yyyy	hh:mm:ss	mg/m ³	
11/29/2011	11:03:33		0.004
11/29/2011	11:18:33		0.004
11/29/2011	11:33:33		0.004
11/29/2011	11:48:33		0.004
11/29/2011	12:03:33		0.005
11/29/2011	12:18:33		0.005
11/29/2011	12:33:33		0.006
11/29/2011	12:48:33		0.006
11/29/2011	13:03:33		0.008
11/29/2011	13:18:33		0.007
11/29/2011	13:33:33		0.006
11/29/2011	13:48:33		0.006
11/29/2011	14:03:33		0.01
11/29/2011	14:18:33		0.02
11/29/2011	14:33:33		0.006

TrakPro Version 4.30 ASCII Data File

Model: Dust Trak
Model Number: 8520
Serial Number: 85200391
Test ID: 18
Test Abbreviation:
Start Date: 11/29/2011
Start Time: 17:05:26
Duration (dd:hh:mm:ss): 0:01:00:00
Time constant (seconds): 10
Log Interval (mm:ss): 15:00
Number of points: 4
Notes: DW 2 b

Statistics Channel: Aerosol
Units: mg/m³
Average: 0.006
Minimum: 0.002
Time of Minimum: 17:20:26
Date of Minimum: 11/29/2011
Maximum: 0.01
Time of Maximum: 18:05:26
Date of Maximum: 11/29/2011

Calibration Sensor: Aerosol
Cal. date 11/29/2011

Date MM/dd/yyyy	Time hh:mm:ss	Aerosol mg/m ³
11/29/2011	17:20:26	0.002
11/29/2011	17:35:26	0.003
11/29/2011	17:50:26	0.007
11/29/2011	18:05:26	0.01

Instrument: MiniRAE 2000 (PGM7600) Serial Number: 902335
User ID: 00000001 Site ID: 00000032
Data Points: 14 Gas Name: Isobutylene Sample Period: 900 sec
Last Calibration Time: 11/29/2011 08:17

```
=====
Measurement Type:                Min(ppm)                Avg(ppm)
High Alarm Levels:                25                      25
Low Alarm Levels:                 5.2                     5.2
=====
```

```
=====
Line#    Date Time                Min(ppm) Alarm    Avg(ppm) Alarm    Max(ppm)
=====
   1  11/29/2011 10:39                0                      0                      0
   2  11/29/2011 10:54                0                      0                      0
   3  11/29/2011 11:09                0                      0                      0
   4  11/29/2011 11:24                0                      0                      0
   5  11/29/2011 11:39                0                      0                      0
   6  11/29/2011 11:54                0                      0                      0
   7  11/29/2011 12:09                0                      0                      0
   8  11/29/2011 12:24                0                      0                      0
   9  11/29/2011 12:39                0                      0                      0
  10  11/29/2011 12:54                0                      0                      0
  11  11/29/2011 13:09                0                      0                      0
  12  11/29/2011 13:24                0                      0                      0
  13  11/29/2011 13:39                0                      0                      0
  14  11/29/2011 13:54                0                      0                      0
=====
```

Instrument: MiniRAE 2000 (PGM7600) Serial Number: 902335
User ID: 00000001 Site ID: 00000033
Data Points: 3 Gas Name: Isobutylene Sample Period: 900 sec
Last Calibration Time: 11/29/2011 08:17

```
=====
Measurement Type:                Min(ppm)                Avg(ppm)
High Alarm Levels:                25                      25
Low Alarm Levels:                 5.2                     5.2
=====
```

```
=====
Line#    Date Time                Min(ppm) Alarm    Avg(ppm) Alarm    Max(ppm)
=====
   1  11/29/2011 16:56                0                      0                      0
   2  11/29/2011 17:11                0                      0                      0
   3  11/29/2011 17:26                0                      0                      0
=====
```

```
=====
Max(ppm)
    25
    5.2
=====
Alarm
=====
```

```
=====
Max(ppm)
    25
    5.2
=====
Alarm
=====
```

TrakPro Version 4.30 ASCII Data File

Model: Dust Trak
 Model Number: 8520
 Serial Number: 85197769
 Test ID: 1/17/1900
 Test Abbreviation:
 Start Date: 11/29/2011
 Start Time: 10:19:38
 Duration (dd:hh:mm:ss): 0:03:45:00
 Time constant (sec): 10
 Log Interval (mm:ss): 15:00
 Number of points: 15
 Notes: UP

Statistics	Channel:	Aerosol	
	Units:	mg/m ³	
	Average:		0:05:46
	Minimum:		1/0/1900
	Time of Minimum:		10:49:38
	Date of Minimum:		11/29/2011
	Maximum:		1/0/1900
	Time of Maximum:		12:49:38
	Date of Maximum:		11/29/2011

Calibration	Sensor:	Aerosol	
	Cal. date		11/29/2011

Date	Time	Aerosol	
MM/dd/yyyy	hh:mm:ss	mg/m ³	
11/29/2011	10:34:38		0.003
11/29/2011	10:49:38		0.002
11/29/2011	11:04:38		0.003
11/29/2011	11:19:38		0.002
11/29/2011	11:34:38		0.002
11/29/2011	11:49:38		0.004
11/29/2011	12:04:38		0.004
11/29/2011	12:19:38		0.004
11/29/2011	12:34:38		0.004
11/29/2011	12:49:38		0.005
11/29/2011	13:04:38		0.004
11/29/2011	13:19:38		0.004
11/29/2011	13:34:38		0.004
11/29/2011	13:49:38		0.005
11/29/2011	14:04:38		0.005

TrakPro Version 4.30 ASCII Data File

Model: Dust Trak
Model Number: 8520
Serial Number: 85197769
Test ID: 19
Test Abbreviation:
Start Date: 11/29/2011
Start Time: 16:49:30
Duration (dd:hh:mm:ss): 0:00:45:00
Time constant (sec): 10
Log Interval (mm:ss): 15:00
Number of points: 3
Notes: UP b

Statistics	Channel:	Aerosol	
	Units:	mg/m ³	
	Average:		0.002
	Minimum:		0.001
	Time of Minimum:		17:04:30
	Date of Minimum:		11/29/2011
	Maximum:		0.003
	Time of Maximum:		17:34:30
	Date of Maximum:		11/29/2011

Calibration	Sensor:	Aerosol	
	Cal. date		11/29/2011

Date	Time	Aerosol	
MM/dd/yyyy	hh:mm:ss	mg/m ³	
11/29/2011	17:04:30		0.001
11/29/2011	17:19:30		0.002
11/29/2011	17:34:30		0.003

Instrument: MiniRAE 2000 (PGM7600) Serial Number: 013450
User ID: 00000001 Site ID: 00000006
Data Points: 14 Gas Name: Isobutylene Sample Period: 900 sec
Last Calibration Time: 11/29/2011 08:24

Measurement Type:

High Alarm Levels:

Low Alarm Levels:

Line#	Date	Time	Min(ppm)
1	11/29/2011	10:37	0
2	11/29/2011	10:52	0
3	11/29/2011	11:07	0
1/4/1900	11/29/2011	11:22	0
5	11/29/2011	11:37	0
6	11/29/2011	11:52	0
7	11/29/2011	12:07	0
8	11/29/2011	12:22	0
9	11/29/2011	12:37	0
10	11/29/2011	12:52	0
11	11/29/2011	13:07	0
12	11/29/2011	13:22	0
13	11/29/2011		0
14	11/29/2011	13:52	0

Instrument: MiniRAE 2000 (PGM7600) Serial Number: 013450
User ID: 00000001 Site ID: 00000006
Data Points: 2 Gas Name: Isobutylene Sample Period: 900 sec
Last Calibration Time: 11/29/2011 08:24

Measurement Type:

High Alarm Levels:

Low Alarm Levels:

Line#	Date	Time	Min(ppm)
1	11/29/2011	17:06	0
2	11/29/2011	17:21	0:00:00

```

=====
Min(ppm)          Avg(ppm)          Max(ppm)
      100             100             100
      5.2             5.2             5.2

```

```

=====
Alarm    Avg(ppm) Alarm    Max(ppm) Alarm
=====
          0          0
          0          0
          0          0
          0          0
          0          0
          0          0
          0          0
          0          0
          0          0
          0          0
          0          0
          0          0
          0          0
          0          0
          0          0

```

```

=====
Min(ppm)          Avg(ppm)          Max(ppm)
      100             100             100
      5.2             5.2             5.2

```

```

=====
Alarm    Avg(ppm) Alarm    Max(ppm) Alarm
=====
          0          0
          0          0

```

TrakPro Version 4.30 ASCII Data File

Model: Dust Trak
 Model Number: 8520
 Serial Number: 85200085
 Test ID: 22
 Test Abbreviation:
 Start Date: 11/30/2011
 Start Time: 7:56:08
 Duration (dd:hh:mm:0:09:00:00)
 Time constant (seco 10
 Log Interval (mm:ss) 15:00
 Number of points: 36
 Notes: DW1

Statistics Channel: Aerosol
 Units: mg/m³
 Average: 0.012
 Minimum: 0.003
 Time of Minimum 16:41:08
 Date of Minimum 11/30/2011
 Maximum: 0.031
 Time of Maximum 15:26:08
 Date of Maximum 11/30/2011

Calibration Sensor: Aerosol
 Cal. date 11/30/2011

Date MM/dd/yyyy	Time hh:mm:ss	Aerosol mg/m ³
11/30/2011	8:11:08	0.011
11/30/2011	8:26:08	0.014
11/30/2011	8:41:08	0.013
11/30/2011	8:56:08	0.014
11/30/2011	9:11:08	0.021
11/30/2011	9:26:08	0.007
11/30/2011	9:41:08	0.005
11/30/2011	9:56:08	0.005
11/30/2011	10:11:08	0.006
11/30/2011	10:26:08	0.014
11/30/2011	10:41:08	0.016
11/30/2011	10:56:08	0.021
11/30/2011	11:11:08	0.02
11/30/2011	11:26:08	0.023
11/30/2011	11:41:08	0.015
11/30/2011	11:56:08	0.027
11/30/2011	12:11:08	0.008

11/30/2011	12:26:08	0.004
11/30/2011	12:41:08	0.004
11/30/2011	12:56:08	0.01
11/30/2011	13:11:08	0.006
11/30/2011	13:26:08	0.008
11/30/2011	13:41:08	0.018
11/30/2011	13:56:08	0.01
11/30/2011	14:11:08	0.013
11/30/2011	14:26:08	0.013
11/30/2011	14:41:08	0.016
11/30/2011	14:56:08	0.012
11/30/2011	15:11:08	0.02
11/30/2011	15:26:08	0.031
11/30/2011	15:41:08	0.017
11/30/2011	15:56:08	0.005
11/30/2011	16:11:08	0.004
11/30/2011	16:26:08	0.006
11/30/2011	16:41:08	0.003
11/30/2011	16:56:08	0.003

Instrument: MiniRAE 2000 (PGM7600)

Serial Number: 002764

User ID: 00000001 Site ID: 00000079

Data Points: 37 Gas Name: Isobutylene

Sample Period: 900 sec

Last Calibration Time: 11/30/2011 07:24

Measurement Type:

Min(ppm)

Avg(ppm)

High Alarm Levels:

100

100

Low Alarm Levels:

50

50

Line#	Date Time	Min(ppm)	Alarm	Avg(ppm)	Alarm	Max(ppm)
1	11/30/2011 7:39	0		0.6		58
2	11/30/2011 7:54	0		0		3.2
3	11/30/2011 8:09	0		0		0
4	11/30/2011 8:24	0		0		0
5	11/30/2011 8:39	0		0		0
6	11/30/2011 8:54	0		0		0
7	11/30/2011 9:09	0		0		0
8	11/30/2011 9:24	0		0		0
9	11/30/2011 9:39	0		0		0
10	11/30/2011 9:54	0		0		0
11	11/30/2011 10:09	0		0		0
12	11/30/2011 10:24	0		0		0.5
13	11/30/2011 10:39	0		0		0
14	11/30/2011 10:54	0		0		0
15	11/30/2011 11:09	0		0		0
16	11/30/2011 11:24	0		0		0
17	11/30/2011 11:39	0		0		0
18	11/30/2011 11:54	0		0		0
19	11/30/2011 12:09	0		0		0
20	11/30/2011 12:24	0		0		0
21	11/30/2011 12:39	0		0		0
22	11/30/2011 12:54	0		0		0
23	11/30/2011 13:09	0		0		0
24	11/30/2011 13:24	0		0		0
25	11/30/2011 13:39	0		0		0
26	11/30/2011 13:54	0		0		0
27	11/30/2011 14:09	0		0		0
28	11/30/2011 14:24	0		0		0
29	11/30/2011 14:39	0		0		0
30	11/30/2011 14:54	0		0		0
31	11/30/2011 15:09	0		0		0
32	11/30/2011 15:24	0		0		0
33	11/30/2011 15:39	0		0		0
34	11/30/2011 15:54	0		0		0
35	11/30/2011 16:09	0		0		0

36	11/30/2011 16:24	0	0	0
37	11/30/2011 16:39	0	0	0

```
=====
Max(ppm)
    100
    50
=====
Alarm
=====
L
```


TrakPro Version 4.30 ASCII Data File

Model: Dust Trak
 Model Number: 8520
 Serial Number: 85200391
 Test ID: 19
 Test Abbreviation:
 Start Date: 11/30/2011
 Start Time: 7:50:46
 Duration (dd:hh:mm:ss): 0:09:15:00
 Time constant (seconds): 10
 Log Interval (mm:ss): 15:00
 Number of points: 2/6/1900 0:00
 Notes: DW 2

Statistics	Channel:	Aerosol
	Units:	mg/m ³
	Average:	0.006
	Minimum:	0.002
	Time of Minimum:	16:20:46
	Date of Minimum:	11/30/2011
	Maximum:	0.015
	Time of Maximum:	15:35:46
	Date of Maximum:	11/30/2011

Calibration	Sensor:	Aerosol
	Cal. date	5/14/2010

Date	Time	Aerosol
MM/dd/yyyy	hh:mm:ss	mg/m ³
11/30/2011	8:05:46	0.004
11/30/2011	8:20:46	0.009
11/30/2011	8:35:46	0.005
11/30/2011	8:50:46	0.005
11/30/2011	9:05:46	0.007
11/30/2011	9:20:46	0.007
11/30/2011	9:35:46	0.006
11/30/2011	9:50:46	0.006
11/30/2011	10:05:46	0.006
11/30/2011	10:20:46	0.006
11/30/2011	10:35:46	0.007
11/30/2011	10:50:46	0.006
11/30/2011	11:05:46	0.007
11/30/2011	11:20:46	0.009
11/30/2011	11:35:46	0.009
11/30/2011	11:50:46	0.008
11/30/2011	12:05:46	0.008

11/30/2011	12:20:46	0.006
11/30/2011	12:35:46	0.005
11/30/2011	12:50:46	0.006
11/30/2011	13:05:46	0.004
11/30/2011	13:20:46	0.004
11/30/2011	13:35:46	0.006
11/30/2011	13:50:46	0.004
11/30/2011	14:05:46	0.003
11/30/2011	14:20:46	0.004
11/30/2011	14:35:46	0.005
11/30/2011	14:50:46	0.003
11/30/2011	15:05:46	0.003
11/30/2011	15:20:46	0.004
11/30/2011	15:35:46	0.015
11/30/2011	15:50:46	0.003
11/30/2011	16:05:46	0.003
11/30/2011	16:20:46	0.002
11/30/2011	16:35:46	0.004
11/30/2011	16:50:46	0.006
11/30/2011	17:05:46	0.003

Instrument: MiniRAE 2000 (PGM7600)

Serial Number: 902335

User ID: 00000001 Site ID: 00000036

Data Points: 37 Gas Name: Isobutylene

Sample Period: 900 sec

Last Calibration Time: 11/30/2011 07:28

Measurement Type:

Min(ppm)

Avg(ppm)

High Alarm Levels:

25

25

Low Alarm Levels:

5.2

5.2

Line#	Date Time	Min(ppm)	Alarm	Avg(ppm)	Alarm	Max(ppm)
1	11/30/2011 7:42	0		0.1		12.1
2	11/30/2011 7:57	0		0		0.8
3	11/30/2011 8:12	0		0.1		0.7
4	11/30/2011 8:27	0.1		0.2		0.4
5	11/30/2011 8:42	0		0.3		1.5
6	11/30/2011 8:57	0.2		0.4		0.6
7	11/30/2011 9:12	0.4		0.4		1.7
8	11/30/2011 9:27	0.4		0.5		0.6
9	11/30/2011 9:42	0.5		0.5		0.7
10	11/30/2011 9:57	0.5		0.6		0.7
11	11/30/2011 10:12	0.5		0.6		0.8
12	11/30/2011 10:27	0.5		0.6		0.8
13	11/30/2011 10:42	0.6		0.6		0.8
14	11/30/2011 10:57	0.6		0.6		0.8
15	11/30/2011 11:12	0.6		0.6		0.9
16	11/30/2011 11:27	0.6		0.7		0.9
17	11/30/2011 11:42	0.6		0.7		0.9
18	11/30/2011 11:57	0.6		0.7		0.9
19	11/30/2011 12:12	0.7		0.7		0.9
20	11/30/2011 12:27	0.6		0.8		0.9
21	11/30/2011 12:42	0.7		0.8		1
22	11/30/2011 12:57	0.7		0.8		0.9
23	11/30/2011 13:12	0.7		0.8		0.9
24	11/30/2011 13:27	0.7		0.8		1
25	11/30/2011 13:42	0.7		0.8		1
26	11/30/2011 13:57	0.8		0.8		1
27	11/30/2011 14:12	0.1		0.8		3
28	11/30/2011 14:27	0.8		0.8		1
29	11/30/2011 14:42	0.8		0.8		1
30	11/30/2011 14:57	0.7		0.8		0.9
31	11/30/2011 15:12	0.7		0.8		1
32	11/30/2011 15:27	0.7		0.8		1
33	11/30/2011 15:42	0.7		0.8		0.9
34	11/30/2011 15:57	0.7		0.7		0.9
35	11/30/2011 16:12	0.7		0.8		0.9

36	11/30/2011 16:27	0.7	0.8	0.9
37	11/30/2011 16:42	0.7	0.8	1.1

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Max(ppm)

25

5.2

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Alarm

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TrakPro Version 4.30 ASCII Data File

Model: Dust Trak
 Model Number: 8520
 Serial Number: 85197769
 Test ID: 20
 Test Abbreviation:
 Start Date: 11/30/2011
 Start Time: 7:53:13
 Duration (dd:hh:mm:ss): 0:09:00:00
 Time constant (seconds): 10
 Log Interval (mm:ss): 15:00
 Number of points: 36
 Notes: UP

Statistics Channel: Aerosol
 Units: mg/m³
 Average: 0.008
 Minimum: 0.003
 Time of Minimum: 15:08:13
 Date of Minimum: 11/30/2011
 Maximum: 0.014
 Time of Maximum: 11:38:13
 Date of Maximum: 11/30/2011

Calibration Sensor: Aerosol
 Cal. date 11/30/2011

Date MM/dd/yyyy	Time hh:mm:ss	Aerosol mg/m ³
11/30/2011	8:08:13	0.005
11/30/2011	8:23:13	0.005
11/30/2011	8:38:13	0.008
11/30/2011	8:53:13	0.007
11/30/2011	9:08:13	0.011
11/30/2011	9:23:13	0.012
11/30/2011	9:38:13	0.011
11/30/2011	9:53:13	0.011
11/30/2011	10:08:13	0.012
11/30/2011	10:23:13	0.013
11/30/2011	10:38:13	0.009
11/30/2011	10:53:13	0.01
11/30/2011	11:08:13	0.008
11/30/2011	11:23:13	0.011
11/30/2011	11:38:13	0.014
11/30/2011	11:53:13	0.012
11/30/2011	12:08:13	0.009

11/30/2011	12:23:13	0.009
11/30/2011	12:38:13	0.008
11/30/2011	12:53:13	0.009
11/30/2011	13:08:13	0.009
11/30/2011	13:23:13	0.01
11/30/2011	13:38:13	0.008
11/30/2011	13:53:13	0.006
11/30/2011	14:08:13	0.005
11/30/2011	14:23:13	0.007
11/30/2011	14:38:13	0.006
11/30/2011	14:53:13	0.005
11/30/2011	15:08:13	0.003
11/30/2011	15:23:13	0.003
11/30/2011	15:38:13	0.005
11/30/2011	15:53:13	0.006
11/30/2011	16:08:13	0.005
11/30/2011	16:23:13	0.004
11/30/2011	16:38:13	0.004
11/30/2011	16:53:13	0.004

Instrument: MiniRAE 2000 (PGM7600)

Serial Number: 013450

User ID: 00000001 Site ID: 00000006

Data Points: 38 Gas Name: Isobutylene

Sample Period: 900 sec

Last Calibration Time: 11/30/2011 07:23

Measurement Type:

Min(ppm)

Avg(ppm)

High Alarm Levels:

100

100

Low Alarm Levels:

5.2

5.2

Line#	Date Time	Min(ppm)	Alarm	Avg(ppm)	Alarm	Max(ppm)
1	11/30/2011 7:32	0		0		11.3
2	11/30/2011 7:47	0		0.7		72.8
3	11/30/2011 8:02	0		0		0
4	11/30/2011 8:17	0		0		0
5	11/30/2011 8:32	0		0		0
6	11/30/2011 8:47	0		0		0
7	11/30/2011 9:02	0		0		0
8	11/30/2011 9:17	0		0		0
9	11/30/2011 9:32	0		0		0
10	11/30/2011 9:47	0		0		0
11	11/30/2011 10:02	0		0		0.1
12	11/30/2011 10:17	0		0		0.1
13	11/30/2011 10:32	0		0		0.6
14	11/30/2011 10:47	0		0		0.1
15	11/30/2011 11:02	0		0		0.1
16	11/30/2011 11:17	0		0		0.1
17	11/30/2011 11:32	0		0		0.1
18	11/30/2011 11:47	0		0		0.1
19	11/30/2011 12:02	0		0		0.3
20	11/30/2011 12:17	0		0		0.1
21	11/30/2011 12:32	0		0		0.1
22	11/30/2011 12:47	0		0		0.1
23	11/30/2011 13:02	0		0		0.1
24	11/30/2011 13:17	0		0		0.2
25	11/30/2011 13:32	0		0		0.1
26	11/30/2011 13:47	0		0		0
27	11/30/2011 14:02	0		0		0
28	11/30/2011 14:17	0		0		0
29	11/30/2011 14:32	0		0		0.1
30	11/30/2011 14:47	0		0		0.2
31	11/30/2011 15:02	0		0.1		0.3
32	11/30/2011 15:17	0		0.1		0.2
33	11/30/2011 15:32	0		0.1		0.3
34	11/30/2011 15:47	0		0.1		0.3
35	11/30/2011 16:02	0		0		0.3

36	11/30/2011 16:17	0	0	0.1
37	11/30/2011 16:32	0	0	0
38	11/30/2011 16:47	0	0	0

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Max(ppm)

100

5.2

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Alarm

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TrakPro Version 4.30 ASCII Data File

Model: Dust Trak
 Model Num 8520
 Serial Num 85200391
 Test ID: 20
 Test Abbreviation:
 Start Date: 12/1/2011
 Start Time: 7:26:31
 Duration (c 0:09:45:00
 Time const 10
 Log Interval 15:00
 Number of 39
 Notes: DW 1

Statistics Channel: Aerosol
 Units: mg/m³
 Average: 0.011
 Minimum: 0.004
 Time of Minimum: 14:11:31
 Date of Minimum: 12/1/2011
 Maximum: 0.027
 Time of Maximum: 8:41:31
 Date of Maximum: 12/1/2011

Calibration Sensor: Aerosol
 Cal. date 12/1/2011

Date	Time	Aerosol
MM/dd/yyyy	hh:mm:ss	mg/m ³
12/1/2011	7:41:31	0.015
12/1/2011	7:56:31	0.013
12/1/2011	8:11:31	0.016
12/1/2011	8:26:31	0.014
12/1/2011	8:41:31	0.027
12/1/2011	8:56:31	0.018
12/1/2011	9:11:31	0.016
12/1/2011	9:26:31	0.014
12/1/2011	9:41:31	0.018
12/1/2011	9:56:31	0.011
12/1/2011	10:11:31	0.013
12/1/2011	10:26:31	0.013
12/1/2011	10:41:31	0.01
12/1/2011	10:56:31	0.011
12/1/2011	11:11:31	0.011
12/1/2011	11:26:31	0.01
12/1/2011	11:41:31	0.009

12/1/2011	11:56:31	0.014
12/1/2011	12:11:31	0.012
12/1/2011	12:26:31	0.007
12/1/2011	12:41:31	0.007
12/1/2011	12:56:31	0.01
12/1/2011	13:11:31	0.01
12/1/2011	13:26:31	0.008
12/1/2011	13:41:31	0.006
12/1/2011	13:56:31	0.005
12/1/2011	14:11:31	0.004
12/1/2011	14:26:31	0.005
12/1/2011	14:41:31	0.006
12/1/2011	14:56:31	0.005
12/1/2011	15:11:31	0.006
12/1/2011	15:26:31	0.005
12/1/2011	15:41:31	0.006
12/1/2011	15:56:31	0.007
12/1/2011	16:11:31	0.008
12/1/2011	16:26:31	0.013
12/1/2011	16:41:31	0.016
12/1/2011	16:56:31	0.011
12/1/2011	17:11:31	0.009

Instrument: MiniRAE 2000 (PGM7600)

Serial Number: 002764

User ID: 00000001 Site ID: 00000080

Data Points: 40 Gas Name: Isobutylene

Sample Period: 900 sec

Last Calibration Time: 12/01/2011 07:06

Measurement Type:

Min(ppm)

Avg(ppm)

High Alarm Levels:

100

100

Low Alarm Levels:

50

50

Line#	Date Time	Min(ppm)	Alarm	Avg(ppm)	Alarm	Max(ppm)
1	12/1/2011 7:22	0		0.3		33.4
2	12/1/2011 7:37	0		0		0.1
3	12/1/2011 7:52	0		0		0.1
4	12/1/2011 8:07	0		0		0.2
5	12/1/2011 8:22	0		0		0.2
6	12/1/2011 8:37	0.1		0.1		0.2
7	12/1/2011 8:52	0.1		0.1		0.2
8	12/1/2011 9:07	0.1		0.1		0.2
9	12/1/2011 9:22	0.1		0.1		0.3
10	12/1/2011 9:37	0.1		0.1		0.2
11	12/1/2011 9:52	0.1		0.1		0.2
12	12/1/2011 10:07	0.1		0.1		0.3
13	12/1/2011 10:22	0.2		0.2		0.2
14	12/1/2011 10:37	0.2		0.2		0.3
15	12/1/2011 10:52	0.2		0.2		0.4
16	12/1/2011 11:07	0.2		0.2		0.3
17	12/1/2011 11:22	0.2		0.2		0.4
18	12/1/2011 11:37	0.2		0.2		0.3
19	12/1/2011 11:52	0.2		0.2		0.3
20	12/1/2011 12:07	0		0.3		1.8
21	12/1/2011 12:22	0.2		0.2		0.3
22	12/1/2011 12:37	0.2		0.2		0.3
23	12/1/2011 12:52	0.2		0.2		0.3
24	12/1/2011 13:07	0.3		0.3		0.3
25	12/1/2011 13:22	0.2		0.2		0.3
26	12/1/2011 13:37	0.2		0.3		0.4
27	12/1/2011 13:52	0.2		0.2		0.4
28	12/1/2011 14:07	0.2		0.2		0.3
29	12/1/2011 14:22	0.3		0.3		0.3
30	12/1/2011 14:37	0.3		0.3		0.4
31	12/1/2011 14:52	0.2		0.3		0.4
32	12/1/2011 15:07	0.3		0.3		0.4
33	12/1/2011 15:22	0.3		0.3		0.4
34	12/1/2011 15:37	0.3		0.3		0.4
35	12/1/2011 15:52	0.3		0.3		0.5

36	12/1/2011 16:07	0.3	0.3	0.4
37	12/1/2011 16:22	0.3	0.3	0.4
38	12/1/2011 16:37	0.3	0.3	0.4
39	12/1/2011 16:52	0.3	0.3	0.4
40	12/1/2011 17:07	0.3	0.3	0.4

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Max(ppm)

100

50

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Alarm

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TrakPro Version 4.30 ASCII Data File

Model: Dust Trak
 Model Number: 8520
 Serial Number: 85200391
 Test ID: 20
 Test Abbreviation:
 Start Date: 12/1/2011
 Start Time: 7:26:31
 Duration (dd:hh:mm:ss): 0:09:45:00
 Time constant (seconds): 10
 Log Interval (mm:ss): 15:00
 Number of points: 39
 Notes: DW 2

Statistics	Channel:	Aerosol	
	Units:	mg/m ³	
	Average:		0.011
	Minimum:		0.004
	Time of Minimum:		14:11:31
	Date of Minimum:		12/1/2011
	Maximum:		0.027
	Time of Maximum:		8:41:31
	Date of Maximum:		12/1/2011

Calibration	Sensor:	Aerosol	
	Cal. date		12/1/2011

Date	Time	Aerosol	
MM/dd/yyyy	hh:mm:ss	mg/m ³	
12/1/2011	7:41:31		0.015
12/1/2011	7:56:31		0.013
12/1/2011	8:11:31		0.016
12/1/2011	8:26:31		0.014
12/1/2011	8:41:31		0.027
12/1/2011	8:56:31		0.018
12/1/2011	9:11:31		0.016
12/1/2011	9:26:31		0.014
12/1/2011	9:41:31		0.018
12/1/2011	9:56:31		0.011
12/1/2011	10:11:31		0.013
12/1/2011	10:26:31		0.013
12/1/2011	10:41:31		0.01
12/1/2011	10:56:31		0.011
12/1/2011	11:11:31		0.011
12/1/2011	11:26:31		0.01
12/1/2011	11:41:31		0.009

12/1/2011	11:56:31	0.014
12/1/2011	12:11:31	0.012
12/1/2011	12:26:31	0.007
12/1/2011	12:41:31	0.007
12/1/2011	12:56:31	0.01
12/1/2011	13:11:31	0.01
12/1/2011	13:26:31	0.008
12/1/2011	13:41:31	0.006
12/1/2011	13:56:31	0.005
12/1/2011	14:11:31	0.004
12/1/2011	14:26:31	0.005
12/1/2011	14:41:31	0.006
12/1/2011	14:56:31	0.005
12/1/2011	15:11:31	0.006
12/1/2011	15:26:31	0.005
12/1/2011	15:41:31	0.006
12/1/2011	15:56:31	0.007
12/1/2011	16:11:31	0.008
12/1/2011	16:26:31	0.013
12/1/2011	16:41:31	0.016
12/1/2011	16:56:31	0.011
12/1/2011	17:11:31	0.009

Instrument: MiniRAE 2000 (PGM7600)

Serial Number: 902335

User ID: 00000001 Site ID: 00000037

Data Points: 39 Gas Name: Isobutylene

Sample Period: 900 sec

Last Calibration Time: 12/01/2011 07:07

Measurement Type:

Min(ppm)

Avg(ppm)

High Alarm Levels:

25

25

Low Alarm Levels:

5.2

5.2

Line#	Date Time	Min(ppm)	Alarm	Avg(ppm)	Alarm	Max(ppm)
1	12/1/2011 7:22	0		1.3		49.8
2	12/1/2011 7:37	0.4		0.5		0.7
3	12/1/2011 7:52	0.5		0.7		1.1
4	12/1/2011 8:07	0.8		0.9		1.2
5	12/1/2011 8:22	0.9		1.1		1.4
6	12/1/2011 8:37	1.2		1.3		1.5
7	12/1/2011 8:52	1.3		1.4		1.6
8	12/1/2011 9:07	1.3		1.4		1.6
9	12/1/2011 9:22	1.3		1.4		1.9
10	12/1/2011 9:37	1.3		1.4		1.6
11	12/1/2011 9:52	1.3		1.4		1.6
12	12/1/2011 10:07	1.4		1.4		1.6
13	12/1/2011 10:22	1.4		1.5		1.7
14	12/1/2011 10:37	1.4		1.5		2
15	12/1/2011 10:52	1.4		1.5		1.7
16	12/1/2011 11:07	1.3		1.5		2.7
17	12/1/2011 11:22	1.3		1.5		1.9
18	12/1/2011 11:37	1.3		1.6		1.9
19	12/1/2011 11:52	1.4		1.5		1.8
20	12/1/2011 12:07	1.4		1.5		1.7
21	12/1/2011 12:22	1.4		1.5		1.8
22	12/1/2011 12:37	1.5		1.5		1.7
23	12/1/2011 12:52	1.4		1.5		1.7
24	12/1/2011 13:07	1.4		1.5		1.8
25	12/1/2011 13:22	1.4		1.4		1.6
26	12/1/2011 13:37	1.3		1.4		1.7
27	12/1/2011 13:52	1.2		1.4		1.7
28	12/1/2011 14:07	1.3		1.4		1.6
29	12/1/2011 14:22	1.3		1.4		1.6
30	12/1/2011 14:37	1.3		1.4		1.6
31	12/1/2011 14:52	1.3		1.4		1.6
32	12/1/2011 15:07	1.3		1.4		1.6
33	12/1/2011 15:22	1.3		1.4		1.7
34	12/1/2011 15:37	1.3		1.5		1.7
35	12/1/2011 15:52	1.4		1.4		1.6

36	12/1/2011 16:07	1.4	1.5	1.7
37	12/1/2011 16:22	1.5	1.5	1.7
38	12/1/2011 16:37	1.5	1.6	1.9
39	12/1/2011 16:52	1.7	1.8	2

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Max(ppm)

25

5.2

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Alarm

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TrakPro Version 4.30 ASCII Data File

Model: Dust Trak
 Model Number: 8520
 Serial Number: 85197769
 Test ID: 21
 Test Abbreviation:
 Start Date: 12/1/2011
 Start Time: 7:35:42
 Duration (dd:hh:mm:ss): 0:09:45:00
 Time constant (seconds) 10
 Log Interval (mm:ss): 15:00
 Number of points: 39
 Notes: UP

Statistics Channel: Aerosol
 Units: mg/m³
 Average: 0.018
 Minimum: 0.011
 Time of Minimum: 11:35:42
 Date of Minimum: 12/1/2011
 Maximum: 0.032
 Time of Maximum: 16:35:42
 Date of Maximum: 12/1/2011

Calibration Sensor: Aerosol
 Cal. date 12/1/2011

Date MM/dd/yyyy	Time hh:mm:ss	Aerosol mg/m ³
12/1/2011	7:50:42	0.014
12/1/2011	8:05:42	0.017
12/1/2011	8:20:42	0.019
12/1/2011	8:35:42	0.018
12/1/2011	8:50:42	0.019
12/1/2011	9:05:42	0.017
12/1/2011	9:20:42	0.012
12/1/2011	9:35:42	0.016
12/1/2011	9:50:42	0.013
12/1/2011	10:05:42	0.012
12/1/2011	10:20:42	0.017
12/1/2011	10:35:42	0.018
12/1/2011	10:50:42	0.014
12/1/2011	11:05:42	0.017
12/1/2011	11:20:42	0.014
12/1/2011	11:35:42	0.011
12/1/2011	11:50:42	0.022

12/1/2011	12:05:42	0.012
12/1/2011	12:20:42	0.019
12/1/2011	12:35:42	0.022
12/1/2011	12:50:42	0.029
12/1/2011	13:05:42	0.022
12/1/2011	13:20:42	0.018
12/1/2011	13:35:42	0.016
12/1/2011	13:50:42	0.014
12/1/2011	14:05:42	0.015
12/1/2011	14:20:42	0.021
12/1/2011	14:35:42	0.026
12/1/2011	14:50:42	0.02
12/1/2011	15:05:42	0.015
12/1/2011	15:20:42	0.013
12/1/2011	15:35:42	0.019
12/1/2011	15:50:42	0.018
12/1/2011	16:05:42	0.019
12/1/2011	16:20:42	0.02
12/1/2011	16:35:42	0.032
12/1/2011	16:50:42	0.016
12/1/2011	17:05:42	0.018
12/1/2011	17:20:42	0.012

Instrument: MiniRAE 2000 (PGM7600)

Serial Number: 013450

User ID: 00000001 Site ID: 00000006

Data Points: 39 Gas Name: Isobutylene

Sample Period: 900 sec

Last Calibration Time: 12/01/2011 07:12

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=====
Measurement Type:           Min(ppm)           Avg(ppm)
High Alarm Levels:           100                100
Low Alarm Levels:            5.2                5.2
=====
```

```
=====
Line#    Date Time      Min(ppm) Alarm    Avg(ppm) Alarm    Max(ppm)
=====
```

1	12/1/2011 7:27	0		1.5		70
2	12/1/2011 7:42	0.1		0.1		0.3
3	12/1/2011 7:57	0.1		0.2		0.3
4	12/1/2011 8:12	0.2		0.2		0.4
5	12/1/2011 8:27	0.2		0.3		0.6
6	12/1/2011 8:42	0.3		0.3		0.7
7	12/1/2011 8:57	0.3		0.3		0.5
8	12/1/2011 9:12	0.3		0.3		0.6
9	12/1/2011 9:27	0.3		0.4		0.6
10	12/1/2011 9:42	0.4		0.4		0.6
11	12/1/2011 9:57	0.4		0.4		0.9
12	12/1/2011 10:12	0.4		0.4		0.6
13	12/1/2011 10:27	0.4		0.5		0.9
14	12/1/2011 10:42	0.4		0.5		0.7
15	12/1/2011 10:57	0.4		0.5		0.8
16	12/1/2011 11:12	0.4		0.5		1.1
17	12/1/2011 11:27	0.5		0.5		0.7
18	12/1/2011 11:42	0.5		0.5		0.9
19	12/1/2011 11:57	0.5		0.5		0.8
20	12/1/2011 12:12	0.5		0.5		0.7
21	12/1/2011 12:27	0.5		0.5		1.9
22	12/1/2011 12:42	0.5		0.5		0.8
23	12/1/2011 12:57	0.5		0.5		0.7
24	12/1/2011 13:12	0.5		0.5		0.6
25	12/1/2011 13:27	0.5		0.5		0.6
26	12/1/2011 13:42	0.5		0.5		0.6
27	12/1/2011 13:57	0.4		0.5		0.7
28	12/1/2011 14:12	0.5		0.5		0.7
29	12/1/2011 14:27	0.5		0.5		0.6
30	12/1/2011 14:42	0.5		0.5		0.7
31	12/1/2011 14:57	0.5		0.5		1
32	12/1/2011 15:12	0.5		0.5		0.8
33	12/1/2011 15:27	0.5		0.6		1.1
34	12/1/2011 15:42	0.5		0.5		0.7
35	12/1/2011 15:57	0.6		0.6		1

```
=====
```

36	12/1/2011 16:12	0.6	0.6	1.7
37	12/1/2011 16:27	0.6	0.6	1
38	12/1/2011 16:42	0.6	0.6	0.7
39	12/1/2011 16:57	0.6	0.7	0.8

=====

Max(ppm)

100

5.2

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Alarm

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TrakPro Version 4.30 ASCII Data File

Model: Dust Trak
 Model Number: 8520
 Serial Number: 85200085
 Test ID: 24
 Test Abbreviation:
 Start Date: 12/2/2011
 Start Time: 7:45:53
 Duration (dd:hh:0:07:45:00
 Time constant (s 10
 Log Interval (mn 15:00
 Number of point 31
 Notes: DW 1

Statistics Channel: Aerosol
 Units: mg/m³
 Average: 0.041
 Minimum: 0.024
 Time of Minimum 11:15:53
 Date of Minimum 12/2/2011
 Maximum: 0.088
 Time of Maximum 10:15:53
 Date of Maximum 12/2/2011

Calibration Sensor: Aerosol
 Cal. date 12/2/2011

Date MM/dd/yyyy	Time hh:mm:ss	Aerosol mg/m ³
12/2/2011	8:00:53	0.046
12/2/2011	8:15:53	0.054
12/2/2011	8:30:53	0.052
12/2/2011	8:45:53	0.048
12/2/2011	9:00:53	0.044
12/2/2011	9:15:53	0.045
12/2/2011	9:30:53	0.035
12/2/2011	9:45:53	0.045
12/2/2011	10:00:53	0.074
12/2/2011	10:15:53	0.088
12/2/2011	10:30:53	0.047
12/2/2011	10:45:53	0.044
12/2/2011	11:00:53	0.031
12/2/2011	11:15:53	0.024
12/2/2011	11:30:53	0.036
12/2/2011	11:45:53	0.031
12/2/2011	12:00:53	0.028

12/2/2011	12:15:53	0.027
12/2/2011	12:30:53	0.036
12/2/2011	12:45:53	0.029
12/2/2011	13:00:53	0.036
12/2/2011	13:15:53	0.039
12/2/2011	13:30:53	0.036
12/2/2011	13:45:53	0.038
12/2/2011	14:00:53	0.034
12/2/2011	14:15:53	0.04
12/2/2011	14:30:53	0.04
12/2/2011	14:45:53	0.035
12/2/2011	15:00:53	0.033
12/2/2011	15:15:53	0.032
12/2/2011	15:30:53	0.037

Instrument: MiniRAE 2000 (PGM7600)

Serial Number: 002764

User ID: 00000001 Site ID: 00000082

Data Points: 31 Gas Name: Isobutylene

Sample Period: 900 sec

Last Calibration Time: 12/02/2011 07:11

Measurement Type:

Min(ppm)

Avg(ppm)

High Alarm Levels:

100

100

Low Alarm Levels:

50

50

Line#	Date Time	Min(ppm)	Alarm	Avg(ppm)	Alarm	Max(ppm)
1	12/2/2011 7:36	0		1.4		97.1
2	12/2/2011 7:51	0		0.1		0.5
3	12/2/2011 8:06	0.1		0.2		2.3
4	12/2/2011 8:21	0.1		0.2		1
5	12/2/2011 8:36	0.1		0.2		1
6	12/2/2011 8:51	0.1		0.2		0.4
7	12/2/2011 9:06	0.2		0.2		0.3
8	12/2/2011 9:21	0.2		0.2		0.3
9	12/2/2011 9:36	0.2		0.3		0.6
10	12/2/2011 9:51	0.3		0.5		1.4
11	12/2/2011 10:06	0.3		0.5		1.2
12	12/2/2011 10:21	0.4		0.5		0.8
13	12/2/2011 10:36	0.4		0.4		1.7
14	12/2/2011 10:51	0.3		0.3		0.5
15	12/2/2011 11:06	0.3		0.3		0.9
16	12/2/2011 11:21	0.3		0.3		0.4
17	12/2/2011 11:36	0.3		0.3		1
18	12/2/2011 11:51	0.2		0.3		0.7
19	12/2/2011 12:06	0.2		0.2		0.4
20	12/2/2011 12:21	0.2		0.3		0.5
21	12/2/2011 12:36	0.2		0.3		1.1
22	12/2/2011 12:51	0.2		0.3		0.7
23	12/2/2011 13:06	0.2		0.3		1.3
24	12/2/2011 13:21	0.2		0.3		0.5
25	12/2/2011 13:36	0.3		0.4		1.4
26	12/2/2011 13:51	0.2		0.3		1
27	12/2/2011 14:06	0		0.3		0.9
28	12/2/2011 14:21	0.2		0.3		0.7
29	12/2/2011 14:36	0.3		0.3		0.6
30	12/2/2011 14:51	0.3		0.3		0.5
31	12/2/2011 15:06	0.3		0.3		0.5

=====

Max(ppm)

100

50

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Alarm

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TrakPro Version 4.30 ASCII Data File

Model: Dust Trak
 Model Number: 8520
 Serial Number: 85200391
 Test ID: 21
 Test Abbreviation:
 Start Date: 12/2/2011
 Start Time: 7:43:06
 Duration (dd:hh:00:07:45:00)
 Time constant (s): 10
 Log Interval (min): 15:00
 Number of points: 31
 Notes: DW 2

Statistics Channel: Aerosol
 Units: mg/m³
 Average: 0.028
 Minimum: 0.022
 Time of Minimum: 11:28:06
 Date of Minimum: 12/2/2011
 Maximum: 0.036
 Time of Maximum: 7:58:06
 Date of Maximum: 12/2/2011

Calibration Sensor: Aerosol
 Cal. date: 12/2/2011

Date MM/dd/yyyy	Time hh:mm:ss	Aerosol mg/m ³
12/2/2011	7:58:06	0.036
12/2/2011	8:13:06	0.032
12/2/2011	8:28:06	0.031
12/2/2011	8:43:06	0.031
12/2/2011	8:58:06	0.027
12/2/2011	9:13:06	0.028
12/2/2011	9:28:06	0.033
12/2/2011	9:43:06	0.032
12/2/2011	9:58:06	0.036
12/2/2011	10:13:06	0.031
12/2/2011	10:28:06	0.032
12/2/2011	10:43:06	0.032
12/2/2011	10:58:06	0.034
12/2/2011	11:13:06	0.024
12/2/2011	11:28:06	0.022
12/2/2011	11:43:06	0.029
12/2/2011	11:58:06	0.023

12/2/2011	12:13:06	0.025
12/2/2011	12:28:06	0.025
12/2/2011	12:43:06	0.024
12/2/2011	12:58:06	0.024
12/2/2011	13:13:06	0.03
12/2/2011	13:28:06	0.026
12/2/2011	13:43:06	0.024
12/2/2011	13:58:06	0.025
12/2/2011	14:13:06	0.023
12/2/2011	14:28:06	0.024
12/2/2011	14:43:06	0.024
12/2/2011	14:58:06	0.024
12/2/2011	15:13:06	0.026
12/2/2011	15:28:06	0.027

Instrument: MiniRAE 2000 (PGM7600)

Serial Number: 902335

User ID: 00000001 Site ID: 00000039

Data Points: 31 Gas Name: Isobutylene

Sample Period: 900 sec

Last Calibration Time: 12/02/2011 07:12

Measurement Type:

Min(ppm)

Avg(ppm)

High Alarm Levels:

25

25

Low Alarm Levels:

5.2

5.2

Line#	Date Time	Min(ppm)	Alarm	Avg(ppm)	Alarm	Max(ppm)
1	12/2/2011 7:39	0		0.4		24.7
2	12/2/2011 7:54	0		0.1		0.4
3	12/2/2011 8:09	0.2		0.3		0.5
4	12/2/2011 8:24	0.4		0.4		0.6
5	12/2/2011 8:39	0.5		0.6		1.2
6	12/2/2011 8:54	0.6		0.6		0.8
7	12/2/2011 9:09	0.6		0.7		0.9
8	12/2/2011 9:24	0.7		0.7		1.1
9	12/2/2011 9:39	0.7		0.8		1
10	12/2/2011 9:54	0.7		0.8		1
11	12/2/2011 10:09	0.7		0.8		1
12	12/2/2011 10:24	0.8		0.9		1.1
13	12/2/2011 10:39	0.8		0.9		1.2
14	12/2/2011 10:54	0.9		0.9		1.1
15	12/2/2011 11:09	0.9		1		1.4
16	12/2/2011 11:24	1		1.1		1.7
17	12/2/2011 11:39	1		1.1		1.4
18	12/2/2011 11:54	1.1		1.1		1.4
19	12/2/2011 12:09	1.1		1.2		2.1
20	12/2/2011 12:24	1.1		1.2		1.7
21	12/2/2011 12:39	1.2		1.2		1.4
22	12/2/2011 12:54	1.2		1.3		1.5
23	12/2/2011 13:09	1.2		1.3		1.5
24	12/2/2011 13:24	1.2		1.3		1.5
25	12/2/2011 13:39	1.2		1.3		1.5
26	12/2/2011 13:54	1.3		1.3		1.5
27	12/2/2011 14:09	1.3		1.4		1.5
28	12/2/2011 14:24	1.3		1.4		1.6
29	12/2/2011 14:39	1.3		1.4		1.5
30	12/2/2011 14:54	1.3		1.4		1.5
31	12/2/2011 15:09	1.3		1.4		1.5

=====

Max(ppm)

25

5.2

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Alarm

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TrakPro Version 4.30 ASCII Data File

Model: Dust Trak
 Model Number: 8520
 Serial Number: 85197769
 Test ID: 22
 Test Abbreviation:
 Start Date: 12/2/2011
 Start Time: 7:49:16
 Duration (dd:hh:mm): 00:07:45:00
 Time constant (sec): 10
 Log Interval (mm:ss): 15:00
 Number of points: 31
 Notes: UP

Statistics Channel: Aerosol
 Units: mg/m³
 Average: 0.029
 Minimum: 0.019
 Time of Minimum: 11:19:16
 Date of Minimum: 12/2/2011
 Maximum: 0.036
 Time of Maximum: 9:49:16
 Date of Maximum: 12/2/2011

Calibration Sensor: Aerosol
 Cal. date: 12/2/2011

Date MM/dd/yyyy	Time hh:mm:ss	Aerosol mg/m ³
12/2/2011	8:04:16	0.031
12/2/2011	8:19:16	0.03
12/2/2011	8:34:16	0.03
12/2/2011	8:49:16	0.029
12/2/2011	9:04:16	0.028
12/2/2011	9:19:16	0.032
12/2/2011	9:34:16	0.034
12/2/2011	9:49:16	0.036
12/2/2011	10:04:16	0.036
12/2/2011	10:19:16	0.035
12/2/2011	10:34:16	0.033
12/2/2011	10:49:16	0.031
12/2/2011	11:04:16	0.025
12/2/2011	11:19:16	0.019
12/2/2011	11:34:16	0.035
12/2/2011	11:49:16	0.026
12/2/2011	12:04:16	0.027

12/2/2011	12:19:16	0.024
12/2/2011	12:34:16	0.023
12/2/2011	12:49:16	0.024
12/2/2011	13:04:16	0.036
12/2/2011	13:19:16	0.028
12/2/2011	13:34:16	0.025
12/2/2011	13:49:16	0.027
12/2/2011	14:04:16	0.027
12/2/2011	14:19:16	0.027
12/2/2011	14:34:16	0.029
12/2/2011	14:49:16	0.028
12/2/2011	15:04:16	0.029
12/2/2011	15:19:16	0.033
12/2/2011	15:34:16	0.031

Instrument: MiniRAE 2000 (PGM7600)

Serial Number: 013450

User ID: 00000001 Site ID: 00000006

Data Points: 32 Gas Name: Isobutylene

Sample Period: 900 sec

Last Calibration Time: 12/02/2011 07:17

Measurement Type:

Min(ppm)

Avg(ppm)

High Alarm Levels:

100

100

Low Alarm Levels:

5.2

5.2

Line#	Date Time	Min(ppm)	Alarm	Avg(ppm)	Alarm	Max(ppm)
1	12/2/2011 7:33	0		0.1		7.1
2	12/2/2011 7:48	0		0.6		60.7
3	12/2/2011 8:03	0.2		0.2		0.3
4	12/2/2011 8:18	0.2		0.3		0.4
5	12/2/2011 8:33	0.3		0.3		0.4
6	12/2/2011 8:48	0.3		0.3		0.4
7	12/2/2011 9:03	0.4		0.4		0.5
8	12/2/2011 9:18	0.4		0.4		0.5
9	12/2/2011 9:33	0.4		0.4		0.5
10	12/2/2011 9:48	0.4		0.4		0.5
11	12/2/2011 10:03	0.5		0.5		0.6
12	12/2/2011 10:18	0.5		0.5		0.6
13	12/2/2011 10:33	0.5		0.5		0.7
14	12/2/2011 10:48	0.5		0.5		0.7
15	12/2/2011 11:03	0.5		0.5		0.6
16	12/2/2011 11:18	0.5		0.5		0.7
17	12/2/2011 11:33	0.5		0.5		0.8
18	12/2/2011 11:48	0.5		0.5		0.7
19	12/2/2011 12:03	0.5		0.5		0.7
20	12/2/2011 12:18	0.5		0.6		0.7
21	12/2/2011 12:33	0.5		0.6		0.9
22	12/2/2011 12:48	0.6		0.6		0.9
23	12/2/2011 13:03	0.6		0.6		0.8
24	12/2/2011 13:18	0.6		0.6		0.8
25	12/2/2011 13:33	0.6		0.6		0.9
26	12/2/2011 13:48	0.6		0.7		1.2
27	12/2/2011 14:03	0.6		0.7		0.8
28	12/2/2011 14:18	0.6		0.7		1
29	12/2/2011 14:33	0.6		0.7		0.9
30	12/2/2011 14:48	0.6		0.7		0.8
31	12/2/2011 15:03	0.6		0.7		0.8
32	12/2/2011 15:18	0.6		0.7		1.3

=====

Max(ppm)

100

5.2

=====

Alarm

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TrakPro Version 4.30 ASCII Data File

Model: Dust Trak
 Model Number: 8520
 Serial Number: 85200085
 Test ID: 0:00
 Test Abbreviation:
 Start Date: 12/5/2011
 Start Time: 7:39:14
 Duration (dd:hh:mm:ss): 0:09:15:00
 Time constant (seconds): 10
 Log Interval (mm:ss): 15:00
 Number of points: 37
 Notes: DW 1

Statistics Channel: Aerosol
 Units: mg/m³
 Average: 1/0/1900
 Minimum: 0.018
 Time of Minimum: 12:39:14
 Date of Minimum: 12/5/2011
 Maximum: 0.034
 Time of Maximum: 14:24:14
 Date of Maximum: 12/5/2011

Calibration Sensor: Aerosol
 Cal. date 12/5/2011

Date MM/dd/yyyy	Time hh:mm:ss	Aerosol mg/m ³
12/5/2011	7:54:14	0.021
12/5/2011	8:09:14	0.022
12/5/2011	8:24:14	0.022
12/5/2011	8:39:14	0.021
12/5/2011	8:54:14	0.022
12/5/2011	9:09:14	0.023
12/5/2011	9:24:14	0.023
12/5/2011	9:39:14	0.022
12/5/2011	9:54:14	0.021
12/5/2011	10:09:14	0.024
12/5/2011	10:24:14	0.022
12/5/2011	10:39:14	0.021
12/5/2011	10:54:14	0.022
12/5/2011	11:09:14	0.021
12/5/2011	11:24:14	0.023
12/5/2011	11:39:14	0.023
12/5/2011	11:54:14	0.021

12/5/2011	12:09:14	0.02
12/5/2011	12:24:14	0.019
12/5/2011	12:39:14	0.018
12/5/2011	12:54:14	0.019
12/5/2011	13:09:14	0.023
12/5/2011	13:24:14	0.022
12/5/2011	13:39:14	0.019
12/5/2011	13:54:14	0.021
12/5/2011	14:09:14	0.03
12/5/2011	14:24:14	0.034
12/5/2011	14:39:14	0.029
12/5/2011	14:54:14	0.029
12/5/2011	15:09:14	0.028
12/5/2011	15:24:14	0.026
12/5/2011	15:39:14	0.019
12/5/2011	15:54:14	0.019
12/5/2011	16:09:14	0.02
12/5/2011	16:24:14	0.019
12/5/2011	16:39:14	0.019
12/5/2011	16:54:14	0.02

Instrument: MiniRAE 2000 (PGM7600) Serial Number: 002764
 User ID: 00000001 Site ID: 00000074
 Data Points: 37 Gas Name: Isobutylene Sample Period: 900 sec
 Instrument: MiniRAE 2000 (PGM7600) Serial Number: 002764
 User ID: 00000001 Site ID: 00000083
 Data Points: 37 Gas Name: Isobutylene Sample Period: 900 sec
 Last Calibration Time: 12/05/2011 07:21

```
=====
Measurement Type:                Min(ppm)                Avg(ppm)
High Alarm Levels:                100                    100
Low Alarm Levels:                 50                     50
=====
```

```
=====
Line#    Date Time                Min(ppm) Alarm    Avg(ppm) Alarm    Max(ppm)
=====
```

1	12/5/2011 7:36	0		0		0.7
2	12/5/2011 7:51	0		0		0
3	12/5/2011 8:06	0		0		0
4	12/5/2011 8:21	0		0		0
5	12/5/2011 8:36	0		0		0.1
6	12/5/2011 8:51	0		0		0.1
7	12/5/2011 9:06	0		0		0.1
8	12/5/2011 9:21	0		0		0.1
9	12/5/2011 9:36	0.1		0.1		0.1
10	12/5/2011 9:51	0.1		0.1		0.2
11	12/5/2011 10:06	0.1		0.1		0.2
12	12/5/2011 10:21	0.1		0.1		0.2
13	12/5/2011 10:36	0.1		0.1		0.2
14	12/5/2011 10:51	0.1		0.1		0.2
15	12/5/2011 11:06	0.1		0.1		0.3
16	12/5/2011 11:21	0.2		0.2		0.2
17	12/5/2011 11:36	0.2		0.2		0.2
18	12/5/2011 11:51	0.2		0.2		0.2
19	12/5/2011 12:06	0.2		0.2		0.3
20	12/5/2011 12:21	0.2		0.2		0.3
21	12/5/2011 12:36	0.2		0.2		0.3
22	12/5/2011 12:51	0.2		0.2		0.3
23	12/5/2011 13:06	0.2		0.2		0.3
24	12/5/2011 13:21	0.2		0.2		0.3
25	12/5/2011 13:36	0.2		0.2		0.3
26	12/5/2011 13:51	0.2		0.2		0.4
27	12/5/2011 14:06	0.2		0.2		0.3
28	12/5/2011 14:21	0		0.3		1.6
29	12/5/2011 14:36	0.2		0.2		0.4
30	12/5/2011 14:51	0.2		0.3		0.4
31	12/5/2011 15:06	0.3		0.3		0.5
32	12/5/2011 15:21	0.3		0.3		0.4

```
=====
```


33	12/5/2011 15:36	0.3	0.3	0.4
34	12/5/2011 15:51	0.3	0.4	2.9
35	12/5/2011 16:06	0.3	0.3	0.5
36	12/5/2011 16:21	0.3	0.3	0.5
37	12/5/2011 16:36	0.3	0.3	0.4

=====

Max(ppm)

100

50

=====

Alarm

=====

TrakPro Version 4.30 ASCII Data File

Model: Dust Trak
 Model Number: 8520
 Serial Number: 85200391
 Test ID: 22
 Test Abbreviation:
 Start Date: 12/5/2011
 Start Time: 7:42:11
 Duration (dd:hh:mm:ss): 0:09:15:00
 Time constant (seconds): 10
 Log Interval (mm:ss): 15:00
 Number of points: 37
 Notes: DW 2

Statistics	Channel:	Aerosol	
	Units:	mg/m ³	
	Average:		0.041
	Minimum:		0.02
	Time of Minimum:		12:27:11
	Date of Minimum:		12/5/2011
	Maximum:		0.283
	Time of Maximum:		16:42:11
	Date of Maximum:		12/5/2011

Calibration	Sensor:	Aerosol	
	Cal. date		12/5/2011

Date	Time	Aerosol	
MM/dd/yyyy	hh:mm:ss	mg/m ³	
12/5/2011	7:57:11	0.039	
12/5/2011	8:12:11	0.041	
12/5/2011	8:27:11	0.038	
12/5/2011	8:42:11	0.031	
12/5/2011	8:57:11	0.029	
12/5/2011	9:12:11	0.023	
12/5/2011	9:27:11	0.029	
12/5/2011	9:42:11	0.041	
12/5/2011	9:57:11	0.034	
12/5/2011	10:12:11	0.034	
12/5/2011	10:27:11	0.041	
12/5/2011	10:42:11	0.05	
12/5/2011	10:57:11	0.034	
12/5/2011	11:12:11	0.033	
12/5/2011	11:27:11	0.034	
12/5/2011	11:42:11	0.032	
12/5/2011	11:57:11	0.033	

12/5/2011	12:12:11	0.021
12/5/2011	12:27:11	0.02
12/5/2011	12:42:11	0.022
12/5/2011	12:57:11	0.03
12/5/2011	13:12:11	0.03
12/5/2011	13:27:11	0.03
12/5/2011	13:42:11	0.029
12/5/2011	13:57:11	0.029
12/5/2011	14:12:11	0.035
12/5/2011	14:27:11	0.028
12/5/2011	14:42:11	0.038
12/5/2011	14:57:11	0.031
12/5/2011	15:12:11	0.025
12/5/2011	15:27:11	0.031
12/5/2011	15:42:11	0.025
12/5/2011	15:57:11	0.022
12/5/2011	16:12:11	0.027
12/5/2011	16:27:11	0.049
12/5/2011	16:42:11	0.283
12/5/2011	16:57:11	0.106

Instrument: MiniRAE 2000 (PGM7600) Serial Number: 902335
 User ID: 00000001 Site ID: 00000030
 Data Points: 37 Gas Name: Isobutylene Sample Period: 900 sec
 Instrument: MiniRAE 2000 (PGM7600) Serial Number: 902335
 User ID: 00000001 Site ID: 00000040
 Data Points: 38 Gas Name: Isobutylene Sample Period: 900 sec
 Last Calibration Time: 12/05/2011 07:24

```

=====
Measurement Type:                Min(ppm)                Avg(ppm)
High Alarm Levels:                25                    25
Low Alarm Levels:                 5.2                   5.2
=====

```

```

=====
Line#      Date Time                Min(ppm) Alarm      Avg(ppm) Alarm      Max(ppm)
=====
   1      12/5/2011 7:39                0                0.5                34.9
   2      12/5/2011 7:54                0.5              0.6                1.1
   3      12/5/2011 8:09                0.7              0.8                1
   4      12/5/2011 8:24                0.8              0.9                1
   5      12/5/2011 8:39                0.8              0.9                1.1
   6      12/5/2011 8:54                0.8              0.9                1.1
   7      12/5/2011 9:09                0.8              0.9                1.3
   8      12/5/2011 9:24                0.9              1                  1.4
   9      12/5/2011 9:39                0.9              1                  1.3
  10      12/5/2011 9:54                1                1.1                1.5
  11      12/5/2011 10:09               1                1.1                1.4
  12      12/5/2011 10:24               1.1              1.2                1.6
  13      12/5/2011 10:39               1.1              1.2                1.5
  14      12/5/2011 10:54               1.1              1.2                1.5
  15      12/5/2011 11:09               1.1              1.2                1.5
  16      12/5/2011 11:24               1.2              1.3                1.5
  17      12/5/2011 11:39               1.2              1.3                1.6
  18      12/5/2011 11:54               1.2              1.2                1.4
  19      12/5/2011 12:09               1.1              1.2                1.4
  20      12/5/2011 12:24               1.2              1.2                1.7
  21      12/5/2011 12:39               1.2              1.3                1.5
  22      12/5/2011 12:54               1.2              1.3                1.5
  23      12/5/2011 13:09               1.2              1.3                1.5
  24      12/5/2011 13:24               1.3              1.3                1.5
  25      12/5/2011 13:39               1.3              1.4                1.5
  26      12/5/2011 13:54               1.3              1.3                1.5
  27      12/5/2011 14:09               1.2              1.3                1.7
  28      12/5/2011 14:24               1.3              1.4                1.8
  29      12/5/2011 14:39               1.4              1.5                1.8
  30      12/5/2011 14:54               1.3              1.4                1.5
  31      12/5/2011 15:09               1.3              1.3                1.5
  32      12/5/2011 15:24               1.3              1.3                1.6
=====

```

33	12/5/2011 15:39	1.2	1.3	1.5
34	12/5/2011 15:54	1.3	1.3	1.5
35	12/5/2011 16:09	1.3	1.3	1.5
36	12/5/2011 16:24	1.3	1.6	3.6
37	12/5/2011 16:39	1.4	1.5	1.8
38	12/5/2011 16:54	1.4	1.5	1.8

=====

Max(ppm)

25

5.2

=====

Alarm

=====

H

TrakPro Version 4.30 ASCII Data File

Model: Dust Trak
 Model Number: 8520
 Serial Number: 85197769
 Test ID: 23
 Test Abbreviation:
 Start Date: 12/5/2011
 Start Time: 7:36:20
 Duration (dd:hh:mm:ss): 0:09:30:00
 Time constant (seconds) 10
 Log Interval (mm:ss): 15:00
 Number of points: 2/7/1900 0:00
 Notes: UP

Statistics	Channel:	Aerosol	
	Units:	mg/m ³	
	Average:		0.025
	Minimum:		0.02
	Time of Minimum:		12:36:20
	Date of Minimum:		12/5/2011
	Maximum:		0.031
	Time of Maximum:		14:06:20
	Date of Maximum:		12/5/2011

Calibration	Sensor:	Aerosol	
	Cal. date		12/5/2011

Date	Time	Aerosol	
MM/dd/yyyy	hh:mm:ss	mg/m ³	
12/5/2011	7:51:20	0.023	
12/5/2011	8:06:20	0.027	
12/5/2011	8:21:20	0.025	
12/5/2011	8:36:20	0.025	
12/5/2011	8:51:20	0.024	
12/5/2011	9:06:20	0.026	
12/5/2011	9:21:20	0.026	
12/5/2011	9:36:20	0.026	
12/5/2011	9:51:20	0.024	
12/5/2011	10:06:20	0.025	
12/5/2011	10:21:20	0.024	
12/5/2011	10:36:20	0.024	
12/5/2011	10:51:20	0.024	
12/5/2011	11:06:20	0.024	
12/5/2011	11:21:20	0.025	
12/5/2011	11:36:20	0.025	
12/5/2011	11:51:20	0.024	

12/5/2011	12:06:20	0.024
12/5/2011	12:21:20	0.023
12/5/2011	12:36:20	0.02
12/5/2011	12:51:20	0.021
12/5/2011	13:06:20	0.022
12/5/2011	13:21:20	0.022
12/5/2011	13:36:20	0.023
12/5/2011	13:51:20	0.022
12/5/2011	14:06:20	0.031
12/5/2011	14:21:20	0.03
12/5/2011	14:36:20	0.03
12/5/2011	14:51:20	0.029
12/5/2011	15:06:20	0.03
12/5/2011	15:21:20	0.028
12/5/2011	15:36:20	0.022
12/5/2011	15:51:20	0.021
12/5/2011	16:06:20	0.021
12/5/2011	16:21:20	0.022
12/5/2011	16:36:20	0.022
12/5/2011	16:51:20	0.026
12/5/2011	17:06:20	0.026

Instrument: MiniRAE 2000 (PGM7600) Serial Number: 013450
 User ID: 00000001 Site ID: 00000006
 Data Points: 37 Gas Name: Isobutylene Sample Period: 900 sec
 Last Calibration Time: 12/05/2011 07:25

```
=====
Measurement Type:                Min(ppm)                Avg(ppm)
High Alarm Levels:                100                    100
Low Alarm Levels:                 5.2                     5.2
=====
```

```
=====
Line#    Date Time      Min(ppm) Alarm    Avg(ppm) Alarm    Max(ppm)
=====
```

1	12/5/2011 7:40	0.1		0.1		0.3
2	12/5/2011 7:55	0.2		0.2		0.3
3	12/5/2011 8:10	0.2		0.3		0.5
4	12/5/2011 8:25	0.3		0.4		0.5
5	12/5/2011 8:40	0.4		0.5		0.7
6	12/5/2011 8:55	0.5		0.5		0.7
7	12/5/2011 9:10	0.5		0.5		0.7
8	12/5/2011 9:25	0.6		0.6		0.8
9	12/5/2011 9:40	0.5		0.6		0.8
10	12/5/2011 9:55	0.6		0.7		0.9
11	12/5/2011 10:10	0.7		0.8		1
12	12/5/2011 10:25	0.7		0.8		1
13	12/5/2011 10:40	0.8		0.8		1.1
14	12/5/2011 10:55	0.8		0.9		1.1
15	12/5/2011 11:10	0.8		0.8		1
16	12/5/2011 11:25	0.8		0.9		1.2
17	12/5/2011 11:40	0.8		0.9		1.4
18	12/5/2011 11:55	0.8		0.9		1.1
19	12/5/2011 12:10	0.7		0.8		1.1
20	12/5/2011 12:25	0.7		0.7		1
21	12/5/2011 12:40	0.7		0.9		1.2
22	12/5/2011 12:55	0.8		0.9		1.3
23	12/5/2011 13:10	0.9		1		1.3
24	12/5/2011 13:25	0.9		1		1.3
25	12/5/2011 13:40	0.9		1.1		1.5
26	12/5/2011 13:55	0.8		0.8		1.4
27	12/5/2011 14:10	0.7		0.8		1.3
28	12/5/2011 14:25	0.7		0.8		1.3
29	12/5/2011 14:40	0.8		0.9		1.4
30	12/5/2011 14:55	0.7		0.8		1.2
31	12/5/2011 15:10	0.7		0.8		1.1
32	12/5/2011 15:25	0.7		0.7		1
33	12/5/2011 15:40	0.7		0.7		0.9
34	12/5/2011 15:55	0.7		0.7		0.9
35	12/5/2011 16:10	0.7		0.7		0.9

```
=====
```

36	12/5/2011 16:25	0.7	0.7	1
37	12/5/2011 16:40	0.7	0.8	1.1

=====

Max(ppm)

100

5.2

=====

Alarm

=====

TrakPro Version 4.30 ASCII Data File

Model: Dust Trak
 Model Number: 8520
 Serial Number: 85200085
 Test ID: 26
 Test Abbreviation:
 Start Date: 12/6/2011
 Start Time: 7:35:32
 Duration (dd:hh:mm:ss): 0:08:45:00
 Time constant (seconds): 10
 Log Interval (mm:ss): 15:00
 Number of points: 0:00
 Notes: DW 1

Statistics	Channel:	Aerosol
	Units:	mg/m ³
	Average:	0.011
	Minimum:	0.003
	Time of Minimum:	11:50:32
	Date of Minimum:	12/6/2011
	Maximum:	1/0/1900
	Time of Maximum:	8:05:32
	Date of Maximum:	12/6/2011

Calibration	Sensor:	Aerosol
	Cal. date	12/6/2011

Date	Time	Aerosol
MM/dd/yyyy	hh:mm:ss	mg/m ³
12/6/2011	7:50:32	0.033
12/6/2011	8:05:32	0.07
12/6/2011	8:20:32	0.058
12/6/2011	8:35:32	0.02
12/6/2011	8:50:32	0.023
12/6/2011	9:05:32	0.022
12/6/2011	9:20:32	0.015
12/6/2011	9:35:32	0.013
12/6/2011	9:50:32	0.009
12/6/2011	10:05:32	0.006
12/6/2011	10:20:32	0.006
12/6/2011	10:35:32	0.006
12/6/2011	10:50:32	0.006
12/6/2011	11:05:32	0.005
12/6/2011	11:20:32	0.004
12/6/2011	11:35:32	0.004
12/6/2011	11:50:32	0.003

12/6/2011	12:05:32	0.003
12/6/2011	12:20:32	0.003
12/6/2011	12:35:32	0.004
12/6/2011	12:50:32	0.003
12/6/2011	13:05:32	0.004
12/6/2011	13:20:32	0.004
12/6/2011	13:35:32	0.004
12/6/2011	13:50:32	0.004
12/6/2011	14:05:32	0.006
12/6/2011	14:20:32	0.006
12/6/2011	14:35	0.006
12/6/2011	14:50:32	0.015
12/6/2011	15:05:32	0.005
12/6/2011	15:20:32	0.006
12/6/2011	15:35:32	0.003
12/6/2011	15:50:32	0.004
12/6/2011	16:05:32	0.009
12/6/2011	16:20:32	0.006

Instrument: MiniRAE 2000 (PGM7600)

Serial Number: 002764

User ID: 00000001 Site ID: 00000084

Data Points: 34 Gas Name: Isobutylene

Sample Period: 900 sec

Last Calibration Time: 12/06/2011 07:21

Measurement Type:

Min(ppm)

Avg(ppm)

High Alarm Levels:

100

100

Low Alarm Levels:

50

50

Line#	Date Time	Min(ppm)	Alarm	Avg(ppm)	Alarm	Max(ppm)
-------	-----------	----------	-------	----------	-------	----------

1	12/6/2011 7:36	0		0		0.1
2	12/6/2011 7:51	0		0		0.3
3	12/6/2011 8:06	0		0		0
4	12/6/2011 8:21	0		0		0
5	12/6/2011 8:36	0		0		0.6
6	12/6/2011 8:51	0		0		0
7	12/6/2011 9:06	0		0		0
8	12/6/2011 9:21	0		0		0
9	12/6/2011 9:36	0		0		0
10	12/6/2011 9:51	0		0		0
11	12/6/2011 10:06	0		0		0
12	12/6/2011 10:21	0		0		0
13	12/6/2011 10:36	0		0		0
14	12/6/2011 10:51	0		0		0
15	12/6/2011 11:06	0		0		0
16	12/6/2011 11:21	0		0		0.1
17	12/6/2011 11:36	0		0		0.2
18	12/6/2011 11:51	0.1		0.1		0.2
19	12/6/2011 12:06	0.1		0.1		0.3
20	12/6/2011 12:21	0.2		0.3		0.4
21	12/6/2011 12:36	0.4		0.4		0.5
22	12/6/2011 12:51	0.4		0.4		0.5
23	12/6/2011 13:06	0.5		0.5		0.6
24	12/6/2011 13:21	0.6		0.6		0.8
25	12/6/2011 13:36	0.7		0.7		0.9
26	12/6/2011 13:51	0.8		0.9		1
27	12/6/2011 14:06	1		1		1.2
28	12/6/2011 14:21	1.1		1.2		1.3
29	12/6/2011 14:36	0.8		1.3		1.6
30	12/6/2011 14:51	1.3		1.3		1.4
31	12/6/2011 15:06	1.3		1.3		1.4
32	12/6/2011 15:21	1.3		1.3		1.3
33	12/6/2011 15:36	1.4		1.4		6.8
34	12/6/2011 15:51	1.4		1.5		1.8

=====

Max(ppm)

100

50

=====

Alarm

=====

TrakPro Version 4.30 ASCII Data File

Model: Dust Trak
 Model Number: 8520
 Serial Number: 85200391
 Test ID: 23
 Test Abbreviation:
 Start Date: 12/6/2011
 Start Time: 7:40:06
 Duration (dd:hh:mm:ss): 0:08:30:00
 Time constant (seconds): 10
 Log Interval (mm:ss): 15:00
 Number of points: 0:00
 Notes: DW 2

Statistics	Channel:	Aerosol	
	Units:	mg/m ³	
	Average:		0.011
	Minimum:		0.005
	Time of Minimum:		11:40:06
	Date of Minimum:		12/6/2011
	Maximum:		1/0/1900
	Time of Maximum:		13:55:06
	Date of Maximum:		12/6/2011

Calibration	Sensor:	Aerosol	
	Cal. date		12/6/2011

Date	Time	Aerosol	
MM/dd/yyyy	hh:mm:ss	mg/m ³	
12/6/2011	7:55:06		0.015
12/6/2011	8:10:06		0.017
12/6/2011	8:25:06		0.017
12/6/2011	8:40:06		0.017
12/6/2011	8:55:06		0.022
12/6/2011	9:10:06		0.022
12/6/2011	9:25:06		0.016
12/6/2011	9:40:06		0.013
12/6/2011	9:55:06		0.008
12/6/2011	10:10:06		0.011
12/6/2011	10:25:06		0.01
12/6/2011	10:40:06		0.01
12/6/2011	10:55:06		0.008
12/6/2011	11:10:06		0.006
12/6/2011	11:25:06		0.006
12/6/2011	11:40:06		0.005
12/6/2011	11:55:06		0.005

12/6/2011	12:10:06	0.005
12/6/2011	12:25:06	0.006
12/6/2011	12:40:06	0.005
12/6/2011	12:55:06	0.005
12/6/2011	13:10:06	0.007
12/6/2011	13:25:06	0.011
12/6/2011	13:40:06	0.017
12/6/2011	13:55:06	0.032
12/6/2011	14:10:06	0.015
12/6/2011	14:25:06	0.01
12/6/2011	14:40	0.009
12/6/2011	14:55:06	0.008
12/6/2011	15:10:06	0.007
12/6/2011	15:25:06	0.007
12/6/2011	15:40:06	0.007
12/6/2011	15:55:06	0.005
12/6/2011	16:10:06	0.006

Instrument: MiniRAE 2000 (PGM7600) Serial Number: 902335
 User ID: 00000001 Site ID: 00000041
 Data Points: 34 Gas Name: Isobutylene Sample Period: 900 sec
 Last Calibration Time: 12/06/2011 07:20

```
=====
Measurement Type:                Min(ppm)                Avg(ppm)
High Alarm Levels:                25                    25
Low Alarm Levels:                 5.2                    5.2
=====
```

```
=====
Line#    Date Time        Min(ppm) Alarm    Avg(ppm) Alarm    Max(ppm)
=====
```

1	12/6/2011 7:35	0		0.5		10
2	12/6/2011 7:50	0.5		0.6		0.9
3	12/6/2011 8:05	0.7		0.8		1
4	12/6/2011 8:20	0.8		0.9		1.1
5	12/6/2011 8:35	0.9		1		1.2
6	12/6/2011 8:50	0.9		1.1		1.3
7	12/6/2011 9:05	1		1.1		1.4
8	12/6/2011 9:20	1.1		1.3		1.6
9	12/6/2011 9:35	1.2		1.2		1.4
10	12/6/2011 9:50	1.1		1.2		1.5
11	12/6/2011 10:05	1.2		1.3		1.5
12	12/6/2011 10:20	1		1.3		1.8
13	12/6/2011 10:35	1.2		1.3		1.6
14	12/6/2011 10:50	1.1		1.2		1.5
15	12/6/2011 11:05	1.1		1.2		2.1
16	12/6/2011 11:20	1.1		1.2		1.5
17	12/6/2011 11:35	1.1		1.1		1.3
18	12/6/2011 11:50	1.1		1.1		1.3
19	12/6/2011 12:05	1		1.1		1.3
20	12/6/2011 12:20	1		1.1		1.3
21	12/6/2011 12:35	1.1		1.1		1.3
22	12/6/2011 12:50	1		1.1		1.4
23	12/6/2011 13:05	1		1.1		1.3
24	12/6/2011 13:20	1		1.1		1.3
25	12/6/2011 13:35	1.1		1.1		1.4
26	12/6/2011 13:50	1		1.1		1.3
27	12/6/2011 14:05	1.1		1.1		1.3
28	12/6/2011 14:20	1		1.1		1.3
29	12/6/2011 14:35	1		1.1		1.3
30	12/6/2011 14:50	1		1.1		1.3
31	12/6/2011 15:05	1		1.1		1.3
32	12/6/2011 15:20	1		1.1		1.3
33	12/6/2011 15:35	1		1.1		1.2
34	12/6/2011 15:50	1		1.1		1.2

```
=====
```

=====

Max(ppm)

25

5.2

=====

Alarm

=====

L

TrakPro Version 4.30 ASCII Data File

Model: Dust Trak
 Model Number: 8520
 Serial Number: 85197769
 Test ID: 24
 Test Abbreviation:
 Start Date: 12/6/2011
 Start Time: 7:32:20
 Duration (dd:hh:mn 0:08:30:00
 Time constant (sec 0:00:00
 Log Interval (mm:ss 15:00
 Number of points: 34
 Notes: UP

Statistics	Channel:	Aerosol	
	Units:	mg/m ³	
	Average:		0.014
	Minimum:		0.007
	Time of Minimum:		11:32:20
	Date of Minimum:		12/6/2011
	Maximum:		0:43:12
	Time of Maximum:		14:17:20
	Date of Maximum:		12/6/2011

Calibration	Sensor:	Aerosol	
	Cal. date		12/6/2011

Date	Time	Aerosol	
MM/dd/yyyy	hh:mm:ss	mg/m ³	
12/6/2011	7:47:20		0.015
12/6/2011	8:02:20		0.015
12/6/2011	8:17:20		0.016
12/6/2011	8:32:20		0.017
12/6/2011	8:47:20		0.02
12/6/2011	9:02:20		0.024
12/6/2011	9:17:20		0.019
12/6/2011	9:32:20		0.016
12/6/2011	9:47:20		0.015
12/6/2011	10:02:20		0.015
12/6/2011	10:17:20		0.01
12/6/2011	10:32:20		0.024
12/6/2011	10:47:20		0.008
12/6/2011	11:02:20		0.01
12/6/2011	11:17:20		0.009
12/6/2011	11:32:20		0.007
12/6/2011	11:47:20		0.011

12/6/2011	12:02:20	0.016
12/6/2011	12:17:20	0.008
12/6/2011	12:32:20	0.009
12/6/2011	12:47:20	0.007
12/6/2011	13:02:20	0.008
12/6/2011	13:17:20	0.008
12/6/2011	13:32:20	0.008
12/6/2011	13:47:20	0.01
12/6/2011	14:02:20	0.009
12/6/2011	14:17:20	0.03
12/6/2011	14:32:20	0.022
12/6/2011	14:47	0.017
12/6/2011	15:02:20	0.016
12/6/2011	15:17:20	0.013
12/6/2011	15:32:20	0.016
12/6/2011	15:47:20	0.014
12/6/2011	16:02:20	0.015

Instrument: MiniRAE 2000 (PGM7600) Serial Number: 013450
User ID: 00000001 Site ID: 00000006
Data Points: 34 Gas Name: Isobutylene Sample Period: 900 sec
Last Calibration Time: 12/06/2011 07:26

=====

Measurement Type:	Min(ppm)
High Alarm Levels:	100
Low Alarm Levels:	5.2

=====

Line#	Date Time	Min(ppm)	Alarm
=====	=====	=====	=====
1	12/6/2011 7:41	0	
2	12/6/2011 7:56	0	
3	12/6/2011 8:11	0	
1/4/1900	12/6/2011 8:26	0.1	
5	12/6/2011 8:41	0.2	
6	12/6/2011 8:56	0.1	
7	12/6/2011 9:11	0.1	
8	12/6/2011 9:26	0.1	
9	12/6/2011 9:41	0.1	
10	12/6/2011 9:56	0.2	
11	12/6/2011 10:11	0.2	
12	12/6/2011 10:26	0.2	
13	12/6/2011	0.2	
14	12/6/2011 10:56	0.2	
15	12/6/2011 11:11	0.2	
16	12/6/2011 11:26	0.2	
17	12/6/2011 11:41	0.2	
18	12/6/2011 11:56	0.2	
19	12/6/2011 12:11	0.2	
20	12/6/2011 12:26	0.2	
21	12/6/2011 12:41	0.2	
22	12/6/2011 12:56	0.2	
23	12/6/2011 13:11	0.2	
24	12/6/2011 13:26	0.2	
25	12/6/2011 13:41	0.2	
26	12/6/2011 13:56	0.2	
27	12/6/2011 14:11	0.2	
28	12/6/2011 14:26	0.2	
29	12/6/2011 14:41	0.2	
30	12/6/2011 14:56	0.2	
31	12/6/2011 15:11	0.2	
32	12/6/2011 15:26	0.2	
33	12/6/2011 15:41	0.2	
34	12/6/2011 15:56	0.2	

```
=====
      Avg(ppm)      Max(ppm)
      100          100
      5.2          5.2
=====
```

```
=====
Avg(ppm) Alarm    Max(ppm) Alarm
=====
```

0	0.1
0	0.2
0.1	0.5
0.1	0.5
0.2	0.6
0.2	0.5
0.1	0.2
0.1	0.2
0.1	0.2
0.2	0.2
0.2	0.3
0.2	0.3
0.2	0.3
0.2	0.3
0.2	0.3
0.2	0.3
0.2	0.2
0.2	0.3
0.2	0.3
0.2	0.3
0.2	0.3
0.2	0.3
0.2	0.3
0.2	0.3
0.2	0.3
0.2	0.3
0.2	0.3
0.2	0.3
0.2	0.4
0.2	0.4
0.2	0.7
0.2	0.4
0.2	0.3
0.2	0.4
0.2	0.3

Instrument: MiniRAE 2000 (PGM7600)

Serial Number: 002764

User ID: 00000001 Site ID: 00000086

Data Points: 25 Gas Name: Isobutylene

Sample Period: 900 sec

Last Calibration Time: 12/07/2011 08:58

Measurement Type:

Min(ppm)

Avg(ppm)

High Alarm Levels:

100

100

Low Alarm Levels:

50

50

Line#	Date Time	Min(ppm)	Alarm	Avg(ppm)	Alarm	Max(ppm)
1	12/7/2011 10:07	0		0		5.5
2	12/7/2011 10:22	0		0		0
3	12/7/2011 10:37	0		0		0
4	12/7/2011 10:52	0		0		0
5	12/7/2011 11:07	0		0		0
6	12/7/2011 11:22	0		0		3.5
7	12/7/2011 11:37	0		0		0
8	12/7/2011 11:52	0		0		0
9	12/7/2011 12:07	0		0		0
10	12/7/2011 12:22	0		0		0
11	12/7/2011 12:37	0		0		0.1
12	12/7/2011 12:52	0		0		0
13	12/7/2011 13:07	0		0		0
14	12/7/2011 13:22	0		0		0
15	12/7/2011 13:37	0		0		0
16	12/7/2011 13:52	0		0		0
17	12/7/2011 14:07	0		0		0
18	12/7/2011 14:22	0		0		0
19	12/7/2011 14:37	0		0		0
20	12/7/2011 14:52	0		0		0.4
21	12/7/2011 15:07	0		0		0.7
22	12/7/2011 15:22	0		0		0.1
23	12/7/2011 15:37	0		0		0
24	12/7/2011 15:52	0		0		0
25	12/7/2011 16:07	0		0		0

```
=====
Max(ppm)
    100
    50
=====
Alarm
=====
```

Instrument: MiniRAE 2000 (PGM7600)

Serial Number: 902335

User ID: 00000001 Site ID: 00000044

Data Points: 24 Gas Name: Isobutylene

Sample Period: 900 sec

Last Calibration Time: 12/07/2011 09:00

Measurement Type:

Min(ppm)

Avg(ppm)

High Alarm Levels:

25

25

Low Alarm Levels:

5.2

5.2

Line#	Date Time	Min(ppm)	Alarm	Avg(ppm)	Alarm	Max(ppm)
1	12/7/2011 10:23	0.4		0.6		0.8
2	12/7/2011 10:38	0		0.8		2.6
3	12/7/2011 10:53	0		0.8		2.4
4	12/7/2011 11:08	0.8		0.9		1
5	12/7/2011 11:23	0		0.8		7
6	12/7/2011 11:38	0.4		0.5		0.7
7	12/7/2011 11:53	0.5		0.5		0.7
8	12/7/2011 12:08	0.3		0.6		1
9	12/7/2011 12:23	0.5		0.6		0.8
10	12/7/2011 12:38	0.6		0.7		0.8
11	12/7/2011 12:53	0.6		0.7		0.8
12	12/7/2011 13:08	0.7		0.7		0.9
13	12/7/2011 13:23	0.7		0.7		0.9
14	12/7/2011 13:38	0.7		0.7		0.9
15	12/7/2011 13:53	0.7		0.7		0.9
16	12/7/2011 14:08	0.7		0.7		0.9
17	12/7/2011 14:23	0.7		0.7		0.8
18	12/7/2011 14:38	0.7		0.7		0.8
19	12/7/2011 14:53	0.7		0.7		0.9
20	12/7/2011 15:08	0.7		0.7		0.8
21	12/7/2011 15:23	0.6		0.7		0.9
22	12/7/2011 15:38	0.7		0.7		0.9
23	12/7/2011 15:53	0.6		0.7		0.8
24	12/7/2011 16:08	0.6		0.7		1.1

```
=====
Max(ppm)
    25
    5.2
=====
Alarm
=====
```

L

Instrument: MiniRAE 2000 (PGM7600) Serial Number: 013450
User ID: 00000001 Site ID: 00000006
Data Points: 25 Gas Name: Isobutylene Sample Period: 900 sec
Last Calibration Time: 12/07/2011 09:01

```
=====
Measurement Type:                Min(ppm)                Avg(ppm)
High Alarm Levels:                100                    100
Low Alarm Levels:                 5.2                     5.2
=====
```

```
=====
Line#    Date Time                Min(ppm) Alarm    Avg(ppm) Alarm    Max(ppm)
=====
```

1	12/7/2011 10:31	0		0		0
2	12/7/2011 10:46	0		0		0.6
3	12/7/2011 11:01	0		0		13.9
4	12/7/2011 11:16	0		0		0.2
5	12/7/2011 11:31	0		0		0
6	12/7/2011 11:46	0		0		0
7	12/7/2011 12:01	0		0		0
8	12/7/2011 12:16	0		0		0
9	12/7/2011 12:31	0		0		0
10	12/7/2011 12:46	0		0		0
11	12/7/2011 13:01	0		0		0
12	12/7/2011 13:16	0		0		0
13	12/7/2011 13:31	0		0		0
14	12/7/2011 13:46	0		0		0
15	12/7/2011 14:01	0		0		0
16	12/7/2011 14:16	0		0		0
17	12/7/2011 14:31	0		0		0
18	12/7/2011 14:46	0		0		0
19	12/7/2011 15:01	0		0		0
20	12/7/2011 15:16	0		0		0
21	12/7/2011 15:31	0		0		0
22	12/7/2011 15:46	0		0		0
23	12/7/2011 16:01	0		0		0
24	12/7/2011 16:16	0		0		0
25	12/7/2011 16:31	0		0		0

```
=====
```

```
=====
Max(ppm)
    100
    5.2
=====
Alarm
=====
```

L

TrakPro Version 4.30 ASCII Data File

Model: Dust Trak
 Model Num 8520
 Serial Num 85200085
 Test ID: 27
 Test Abbreviation:
 Start Date: 12/8/2011
 Start Time: 8:12:09
 Duration (c 0:08:15:00
 Time const 10
 Log Interval 15:00
 Number of 33
 Notes: DW 1

Statistics Channel: Aerosol
 Units: mg/m³
 Average: 0.033
 Minimum: 0.009
 Time of Minimum: 16:12:09
 Date of Minimum: 12/8/2011
 Maximum: 0.169
 Time of Maximum: 10:57:09
 Date of Maximum: 12/8/2011

Calibration Sensor: Aerosol
 Cal. date 12/8/2011

Date	Time	Aerosol
MM/dd/yyyy	hh:mm:ss	mg/m ³
12/8/2011	8:27:09	0.052
12/8/2011	8:42:09	0.036
12/8/2011	8:57:09	0.044
12/8/2011	9:12:09	0.053
12/8/2011	9:27:09	0.031
12/8/2011	9:42:09	0.03
12/8/2011	9:57:09	0.036
12/8/2011	10:12:09	0.028
12/8/2011	10:27:09	0.045
12/8/2011	10:42:09	0.105
12/8/2011	10:57:09	0.169
12/8/2011	11:12:09	0.025
12/8/2011	11:27:09	0.036
12/8/2011	11:42:09	0.044
12/8/2011	11:57:09	0.035
12/8/2011	12:12:09	0.036
12/8/2011	12:27:09	0.025

12/8/2011	12:42:09	0.014
12/8/2011	12:57:09	0.016
12/8/2011	13:12:09	0.016
12/8/2011	13:27:09	0.014
12/8/2011	13:42:09	0.011
12/8/2011	13:57:09	0.015
12/8/2011	14:12:09	0.02
12/8/2011	14:27:09	0.016
12/8/2011	14:42:09	0.017
12/8/2011	14:57:09	0.026
12/8/2011	15:12:09	0.012
12/8/2011	15:27:09	0.012
12/8/2011	15:42:09	0.018
12/8/2011	15:57:09	0.025
12/8/2011	16:12:09	0.009
12/8/2011	16:27:09	0.009

Instrument: MiniRAE 2000 (PGM7600) Serial Number: 002764
User ID: 00000001 Site ID: 00000087
Data Points: 35 Gas Name: Isobutylene Sample Period: 900 sec
Last Calibration Time: 12/08/2011 07:22

```
=====
Measurement Type:                Min(ppm)                Avg(ppm)
High Alarm Levels:                100                    100
Low Alarm Levels:                 50                     50
=====
```

```
=====
Line#    Date Time                Min(ppm) Alarm    Avg(ppm) Alarm    Max(ppm)
=====
```

1	12/8/2011 7:40	0		0		7.1
2	12/8/2011 7:55	0		0		12.6
3	12/8/2011 8:10	0		0		0
4	12/8/2011 8:25	0		0		0
5	12/8/2011 8:40	0		0		0
6	12/8/2011 8:55	0		0		0
7	12/8/2011 9:10	0		0		0
8	12/8/2011 9:25	0		0		0
9	12/8/2011 9:40	0		0		0
10	12/8/2011 9:55	0		0		0
11	12/8/2011 10:10	0		0		0
12	12/8/2011 10:25	0		0		0
13	12/8/2011 10:40	0		0		0.1
14	12/8/2011 10:55	0		0		0
15	12/8/2011 11:10	0		0		0
16	12/8/2011 11:25	0		0		0
17	12/8/2011 11:40	0		0		0
18	12/8/2011 11:55	0		0		0
19	12/8/2011 12:10	0		0		0
20	12/8/2011 12:25	0		0		0
21	12/8/2011 12:40	0		0		0
22	12/8/2011 12:55	0		0		0
23	12/8/2011 13:10	0		0		0
24	12/8/2011 13:25	0		0		0
25	12/8/2011 13:40	0		0		0
26	12/8/2011 13:55	0		0		0.5
27	12/8/2011 14:10	0		0		0
28	12/8/2011 14:25	0		0		0
29	12/8/2011 14:40	0		0		1.4
30	12/8/2011 14:55	0		0		0
31	12/8/2011 15:10	0		0		0
32	12/8/2011 15:25	0		0		0
33	12/8/2011 15:40	0		0		0
34	12/8/2011 15:55	0		0		0
35	12/8/2011 16:10	0		0		0

```
=====
```

=====

Max(ppm)

100

50

=====

Alarm

=====

TrakPro Version 4.30 ASCII Data File

Model: Dust Trak
 Model Number: 8520
 Serial Number: 22621
 Test ID: 1
 Test Abbreviation:
 Start Date: 12/8/2011
 Start Time: 8:17:05
 Duration (dd:hh:mm:ss) 0:08:15:00
 Time constant (seconds) 10
 Log Interval (mm:ss): 15:00
 Number of points: 33
 Notes: DW 2

Statistics Channel: Aerosol
 Units: mg/m³
 Average: 0.02
 Minimum: 0.012
 Time of Minimum: 12:47:05
 Date of Minimum: 12/8/2011
 Maximum: 0.05
 Time of Maximum: 8:47:05
 Date of Maximum: 12/8/2011

Calibration Sensor: Aerosol
 Cal. date 12/8/2011

Date MM/dd/yyyy	Time hh:mm:ss	Aerosol mg/m ³
12/8/2011	8:32:05	0.031
12/8/2011	8:47:05	0.05
12/8/2011	9:02:05	0.048
12/8/2011	9:17:05	0.02
12/8/2011	9:32:05	0.021
12/8/2011	9:47:05	0.018
12/8/2011	10:02:05	0.021
12/8/2011	10:17:05	0.021
12/8/2011	10:32:05	0.021
12/8/2011	10:47:05	0.02
12/8/2011	11:02:05	0.019
12/8/2011	11:17:05	0.02
12/8/2011	11:32:05	0.021
12/8/2011	11:47:05	0.021
12/8/2011	12:02:05	0.02
12/8/2011	12:17:05	0.019
12/8/2011	12:32:05	0.016

12/8/2011	12:47:05	0.012
12/8/2011	13:02:05	0.013
12/8/2011	13:17:05	0.014
12/8/2011	13:32:05	0.014
12/8/2011	13:47:05	0.019
12/8/2011	14:02:05	0.015
12/8/2011	14:17:05	0.015
12/8/2011	14:32:05	0.014
12/8/2011	14:47:05	0.015
12/8/2011	15:02:05	0.015
12/8/2011	15:17:05	0.014
12/8/2011	15:32:05	0.012
12/8/2011	15:47:05	0.024
12/8/2011	16:02:05	0.02
12/8/2011	16:17:05	0.018
12/8/2011	16:32:05	0.015

Instrument: MiniRAE 2000 (PGM7600) Serial Number: 902335
 User ID: 00000001 Site ID: 00000045
 Data Points: 35 Gas Name: Isobutylene Sample Period: 900 sec
 Last Calibration Time: 12/08/2011 07:25

```
=====
Measurement Type:                Min(ppm)                Avg(ppm)
High Alarm Levels:                25                      25
Low Alarm Levels:                 5.2                     5.2
=====
```

```
=====
Line#    Date Time                Min(ppm) Alarm    Avg(ppm) Alarm    Max(ppm)
=====
```

1	12/8/2011 7:42	0		0		0.6
2	12/8/2011 7:57	0		0		0.4
3	12/8/2011 8:12	0		0		0.2
4	12/8/2011 8:27	0		0.1		0.2
5	12/8/2011 8:42	0.1		0.1		0.3
6	12/8/2011 8:57	0.1		0.2		0.4
7	12/8/2011 9:12	0.2		0.3		0.4
8	12/8/2011 9:27	0.3		0.3		0.5
9	12/8/2011 9:42	0.3		0.4		0.5
10	12/8/2011 9:57	0.4		0.5		0.7
11	12/8/2011 10:12	0.4		0.5		0.7
12	12/8/2011 10:27	0.3		0.4		0.6
13	12/8/2011 10:42	0.3		0.5		0.7
14	12/8/2011 10:57	0.5		0.6		0.8
15	12/8/2011 11:12	0.5		0.5		0.7
16	12/8/2011 11:27	0.5		0.5		0.6
17	12/8/2011 11:42	0.5		0.6		0.7
18	12/8/2011 11:57	0.4		0.6		0.8
19	12/8/2011 12:12	0.5		0.6		0.7
20	12/8/2011 12:27	0.5		0.5		0.7
21	12/8/2011 12:42	0.5		0.5		0.6
22	12/8/2011 12:57	0.4		0.5		0.6
23	12/8/2011 13:12	0.4		0.5		0.7
24	12/8/2011 13:27	0.4		0.6		0.8
25	12/8/2011 13:42	0.6		0.6		0.8
26	12/8/2011 13:57	0.6		0.6		0.9
27	12/8/2011 14:12	0.5		0.5		0.7
28	12/8/2011 14:27	0.5		0.5		0.7
29	12/8/2011 14:42	0		0.6		2.2
30	12/8/2011 14:57	0.6		0.7		0.9
31	12/8/2011 15:12	0.6		0.6		0.8
32	12/8/2011 15:27	0.6		0.6		0.8

```
=====
```

33	12/8/2011 15:42	0.7	0.7	0.9
34	12/8/2011 15:57	0.7	0.7	0.9
35	12/8/2011 16:12	0.7	0.7	0.9

=====

Max(ppm)

25

5.2

=====

Alarm

=====

TrakPro Version 4.30 ASCII Data File

Model: Dust Trak
 Model Number: 8520
 Serial Number: 85197769
 Test ID: 25
 Test Abbreviation:
 Start Date: 12/8/2011
 Start Time: 7:54:44
 Duration (dd:hh:mm:ss): 0:08:30:00
 Time constant (seconds): 10
 Log Interval (mm:ss): 15:00
 Number of points: 34
 Notes: UP

Statistics Channel: Aerosol
 Units: mg/m³
 Average: 0.025
 Minimum: 0.011
 Time of Minimum: 15:54:44
 Date of Minimum: 12/8/2011
 Maximum: 0.105
 Time of Maximum: 8:09:44
 Date of Maximum: 12/8/2011

Calibration Sensor: Aerosol
 Cal. date 12/8/2011

Date MM/dd/yyyy	Time hh:mm:ss	Aerosol mg/m ³
12/8/2011	8:09:44	0.105
12/8/2011	8:24:44	0.065
12/8/2011	8:39:44	0.036
12/8/2011	8:54:44	0.029
12/8/2011	9:09:44	0.033
12/8/2011	9:24:44	0.038
12/8/2011	9:39:44	0.037
12/8/2011	9:54:44	0.037
12/8/2011	10:09:44	0.034
12/8/2011	10:24:44	0.029
12/8/2011	10:39:44	0.024
12/8/2011	10:54:44	0.026
12/8/2011	11:09:44	0.025
12/8/2011	11:24:44	0.027
12/8/2011	11:39:44	0.033
12/8/2011	11:54:44	0.027
12/8/2011	12:09:44	0.026

12/8/2011	12:24:44	0.019
12/8/2011	12:39:44	0.015
12/8/2011	12:54:44	0.013
12/8/2011	13:09:44	0.015
12/8/2011	13:24:44	0.013
12/8/2011	13:39:44	0.013
12/8/2011	13:54:44	0.013
12/8/2011	14:09:44	0.013
12/8/2011	14:24:44	0.015
12/8/2011	14:39:44	0.016
12/8/2011	14:54:44	0.015
12/8/2011	15:09:44	0.014
12/8/2011	15:24:44	0.013
12/8/2011	15:39:44	0.012
12/8/2011	15:54:44	0.011
12/8/2011	16:09:44	0.012
12/8/2011	16:24:44	0.011

Instrument: MiniRAE 2000 (PGM7600) Serial Number: 013450
User ID: 00000001 Site ID: 00000006
Data Points: 35 Gas Name: Isobutylene Sample Period: 900 sec
Last Calibration Time: 12/08/2011 07:31

```
=====
Measurement Type:                Min(ppm)                Avg(ppm)
High Alarm Levels:                100                    100
Low Alarm Levels:                 5.2                     5.2
=====
```

```
=====
Line#    Date Time      Min(ppm) Alarm    Avg(ppm) Alarm    Max(ppm)
=====
```

1	12/8/2011 7:41	0		0		0
2	12/8/2011 7:56	0		0		0
3	12/8/2011 8:11	0		0		0
4	12/8/2011 8:26	0		0		0
5	12/8/2011 8:41	0		0		0
6	12/8/2011 8:56	0		0		0
7	12/8/2011 9:11	0		0		0
8	12/8/2011 9:26	0		0		0
9	12/8/2011 9:41	0		0		0
10	12/8/2011 9:56	0		0		0
11	12/8/2011 10:11	0		0		0
12	12/8/2011 10:26	0		0		0
13	12/8/2011 10:41	0		0		0
14	12/8/2011 10:56	0		0		0
15	12/8/2011 11:11	0		0		0
16	12/8/2011 11:26	0		0		0
17	12/8/2011 11:41	0		0		0
18	12/8/2011 11:56	0		0		0
19	12/8/2011 12:11	0		0		0
20	12/8/2011 12:26	0		0		0
21	12/8/2011 12:41	0		0		0
22	12/8/2011 12:56	0		0		0
23	12/8/2011 13:11	0		0		0
24	12/8/2011 13:26	0		0		0
25	12/8/2011 13:41	0		0		0
26	12/8/2011 13:56	0		0		0
27	12/8/2011 14:11	0		0		0
28	12/8/2011 14:26	0		0		0
29	12/8/2011 14:41	0		0		0
30	12/8/2011 14:56	0		0		0
31	12/8/2011 15:11	0		0		0
32	12/8/2011 15:26	0		0		0

```
=====
```

33	12/8/2011 15:41	0	0	0
34	12/8/2011 15:56	0	0	0
35	12/8/2011 16:11	0	0	0

=====

Max(ppm)
100
5.2

=====

Alarm

=====

TrakPro Version 4.30 ASCII Data File

Model: Dust Trak
 Model Number: 8520
 Serial Number: 85200085
 Test ID: 28
 Test Abbreviation:
 Start Date: 12/9/2011
 Start Time: 7:48:54
 Duration (dd:hh:00:07:45:00)
 Time constant (s) 10
 Log Interval (mn) 15:00
 Number of point 31
 Notes: DW 1

Statistics Channel: Aerosol
 Units: mg/m³
 Average: 0.025
 Minimum: 0.018
 Time of Minimum 14:18:54
 Date of Minimum 12/9/2011
 Maximum: 0.035
 Time of Maximum 9:03:54
 Date of Maximum 12/9/2011

Calibration Sensor: Aerosol
 Cal. date 12/9/2011

Date MM/dd/yyyy	Time hh:mm:ss	Aerosol mg/m ³
12/9/2011	8:03:54	0.032
12/9/2011	8:18:54	0.03
12/9/2011	8:33:54	0.028
12/9/2011	8:48:54	0.026
12/9/2011	9:03:54	0.035
12/9/2011	9:18:54	0.033
12/9/2011	9:33:54	0.034
12/9/2011	9:48:54	0.031
12/9/2011	10:03:54	0.032
12/9/2011	10:18:54	0.033
12/9/2011	10:33:54	0.034
12/9/2011	10:48:54	0.032
12/9/2011	11:03:54	0.029
12/9/2011	11:18:54	0.025
12/9/2011	11:33:54	0.023
12/9/2011	11:48:54	0.021
12/9/2011	12:03:54	0.021

12/9/2011	12:18:54	0.022
12/9/2011	12:33:54	0.023
12/9/2011	12:48:54	0.023
12/9/2011	13:03:54	0.02
12/9/2011	13:18:54	0.022
12/9/2011	13:33:54	0.02
12/9/2011	13:48:54	0.019
12/9/2011	14:03:54	0.019
12/9/2011	14:18:54	0.018
12/9/2011	14:33:54	0.02
12/9/2011	14:48:54	0.018
12/9/2011	15:03:54	0.02
12/9/2011	15:18:54	0.021
12/9/2011	15:33:54	0.021

Instrument: MiniRAE 2000 (PGM7600) Serial Number: 002764
User ID: 00000001 Site ID: 00000088
Data Points: 30 Gas Name: Isobutylene Sample Period: 900 sec
Last Calibration Time: 12/09/2011 07:21

=====
Measurement Type: Min(ppm) Avg(ppm)
High Alarm Levels: 100 100
Low Alarm Levels: 50 50
=====

Line#	Date Time	Min(ppm)	Alarm	Avg(ppm)	Alarm	Max(ppm)
1	12/9/2011 8:00	0		0		0
2	12/9/2011 8:15	0		0		0
3	12/9/2011 8:30	0		0		0
4	12/9/2011 8:45	0		0		0
5	12/9/2011 9:00	0		0		0
6	12/9/2011 9:15	0		0		0
7	12/9/2011 9:30	0		0		0
8	12/9/2011 9:45	0		0		0
9	12/9/2011 10:00	0		0		0
10	12/9/2011 10:15	0		0		0
11	12/9/2011 10:30	0		0		0
12	12/9/2011 10:45	0		0		0
13	12/9/2011 11:00	0		0		0
14	12/9/2011 11:15	0		0		0
15	12/9/2011 11:30	0		0		0
16	12/9/2011 11:45	0		0		0
17	12/9/2011 12:00	0		0		0
18	12/9/2011 12:15	0		0		0
19	12/9/2011 12:30	0		0		0
20	12/9/2011 12:45	0		0		0
21	12/9/2011 13:00	0		0		0
22	12/9/2011 13:15	0		0		0
23	12/9/2011 13:30	0		0		0
24	12/9/2011 13:45	0		0		0
25	12/9/2011 14:00	0		0		0
26	12/9/2011 14:15	0		0		0
27	12/9/2011 14:30	0		0		0
28	12/9/2011 14:45	0		0		0
29	12/9/2011 15:00	0		0		0
30	12/9/2011 15:15	0		0		0

=====

Max(ppm)

100

50

=====

Alarm

=====

TrakPro Version 4.30 ASCII Data File

Model: Dust Trak
 Model Number: 8520
 Serial Number: 85197769
 Test ID: 26
 Test Abbreviation:
 Start Date: 12/9/2011
 Start Time: 7:51:24
 Duration (dd:hh:mm:ss): 0:07:45:00
 Time constant (:): 10
 Log Interval (min): 15:00
 Number of points: 31
 Notes: DW 2

Statistics Channel: Aerosol
 Units: mg/m³
 Average: 0.032
 Minimum: 0.023
 Time of Minimum: 14:21:24
 Date of Minimum: 12/9/2011
 Maximum: 0.044
 Time of Maximum: 9:51:24
 Date of Maximum: 12/9/2011

Calibration Sensor: Aerosol
 Cal. date: 12/9/2011

Date MM/dd/yyyy	Time hh:mm:ss	Aerosol mg/m ³
12/9/2011	8:06:24	0.034
12/9/2011	8:21:24	0.031
12/9/2011	8:36:24	0.031
12/9/2011	8:51:24	0.03
12/9/2011	9:06:24	0.041
12/9/2011	9:21:24	0.037
12/9/2011	9:36:24	0.043
12/9/2011	9:51:24	0.044
12/9/2011	10:06:24	0.039
12/9/2011	10:21:24	0.04
12/9/2011	10:36:24	0.04
12/9/2011	10:51:24	0.036
12/9/2011	11:06:24	0.034
12/9/2011	11:21:24	0.033
12/9/2011	11:36:24	0.031
12/9/2011	11:51:24	0.029
12/9/2011	12:06:24	0.029

12/9/2011	12:21:24	0.032
12/9/2011	12:36:24	0.03
12/9/2011	12:51:24	0.028
12/9/2011	13:06:24	0.027
12/9/2011	13:21:24	0.026
12/9/2011	13:36:24	0.026
12/9/2011	13:51:24	0.026
12/9/2011	14:06:24	0.024
12/9/2011	14:21:24	0.023
12/9/2011	14:36:24	0.025
12/9/2011	14:51:24	0.026
12/9/2011	15:06:24	0.03
12/9/2011	15:21:24	0.031
12/9/2011	15:36:24	0.034

Instrument: MiniRAE 2000 (PGM7600) Serial Number: 902335
User ID: 00000001 Site ID: 00000046
Data Points: 30 Gas Name: Isobutylene Sample Period: 900 sec
Last Calibration Time: 12/09/2011 07:27

```
=====
Measurement Type:                Min(ppm)                Avg(ppm)
High Alarm Levels:                25                      25
Low Alarm Levels:                 5.2                     5.2
=====
```

```
=====
Line#    Date Time                Min(ppm) Alarm    Avg(ppm) Alarm    Max(ppm)
=====
```

1	12/9/2011 8:10	0		0		0
2	12/9/2011 8:25	0		0		0
3	12/9/2011 8:40	0		0		0.2
4	12/9/2011 8:55	0.1		0.1		0.2
5	12/9/2011 9:10	0.2		0.2		0.3
6	12/9/2011 9:25	0.2		0.2		0.4
7	12/9/2011 9:40	0.3		0.3		0.4
8	12/9/2011 9:55	0.3		0.3		0.4
9	12/9/2011 10:10	0.4		0.4		0.5
10	12/9/2011 10:25	0.4		0.4		0.5
11	12/9/2011 10:40	0.4		0.4		0.5
12	12/9/2011 10:55	0.4		0.4		0.5
13	12/9/2011 11:10	0.4		0.4		0.5
14	12/9/2011 11:25	0.4		0.4		0.5
15	12/9/2011 11:40	0.5		0.5		0.6
16	12/9/2011 11:55	0.4		0.5		0.6
17	12/9/2011 12:10	0.5		0.5		0.6
18	12/9/2011 12:25	0.5		0.6		0.7
19	12/9/2011 12:40	0.6		0.6		0.7
20	12/9/2011 12:55	0.6		0.6		0.8
21	12/9/2011 13:10	0.6		0.6		0.7
22	12/9/2011 13:25	0.6		0.6		0.9
23	12/9/2011 13:40	0.6		0.6		0.7
24	12/9/2011 13:55	0.6		0.6		0.7
25	12/9/2011 14:10	0.6		0.6		0.7
26	12/9/2011 14:25	0.7		0.7		0.8
27	12/9/2011 14:40	0.6		0.7		0.8
28	12/9/2011 14:55	0.7		0.7		0.8
29	12/9/2011 15:10	0.7		0.7		0.8
30	12/9/2011 15:25	0.7		0.7		0.8

```
=====
```

=====

Max(ppm)

25

5.2

=====

Alarm

=====

TrakPro Version 4.30 ASCII Data File

Model: Dust Trak
 Model Number: 8520
 Serial Number: 22621
 Test ID: 2
 Test Abbreviation:
 Start Date: 12/9/2011
 Start Time: 7:58:39
 Duration (dd:hh:mm): 00:07:45:00
 Time constant (sec): 10
 Log Interval (mm:ss): 15:00
 Number of points: 31
 Notes: UP

Statistics Channel: Aerosol
 Units: mg/m³
 Average: 0.022
 Minimum: 0.017
 Time of Minimum: 14:13:39
 Date of Minimum: 12/9/2011
 Maximum: 0.028
 Time of Maximum: 9:13:39
 Date of Maximum: 12/9/2011

Calibration Sensor: Aerosol
 Cal. date: 12/9/2011

Date MM/dd/yyyy	Time hh:mm:ss	Aerosol mg/m ³
12/9/2011	8:13:39	0.024
12/9/2011	8:28:39	0.023
12/9/2011	8:43:39	0.023
12/9/2011	8:58:39	0.025
12/9/2011	9:13:39	0.028
12/9/2011	9:28:39	0.026
12/9/2011	9:43:39	0.027
12/9/2011	9:58:39	0.028
12/9/2011	10:13:39	0.028
12/9/2011	10:28:39	0.028
12/9/2011	10:43:39	0.028
12/9/2011	10:58:39	0.027
12/9/2011	11:13:39	0.023
12/9/2011	11:28:39	0.021
12/9/2011	11:43:39	0.02
12/9/2011	11:58:39	0.018
12/9/2011	12:13:39	0.02

12/9/2011	12:28:39	0.021
12/9/2011	12:43:39	0.022
12/9/2011	12:58:39	0.019
12/9/2011	13:13:39	0.019
12/9/2011	13:28:39	0.018
12/9/2011	13:43:39	0.018
12/9/2011	13:58:39	0.018
12/9/2011	14:13:39	0.017
12/9/2011	14:28:39	0.017
12/9/2011	14:43:39	0.017
12/9/2011	14:58:39	0.018
12/9/2011	15:13:39	0.019
12/9/2011	15:28:39	0.019
12/9/2011	15:43:39	0.019

Instrument: MiniRAE 2000 (PGM7600) Serial Number: 014465
User ID: 00000001 Site ID: 00000196
Data Points: 30 Gas Name: Isobutylene Sample Period: 900 sec
Last Calibration Time: 12/09/2011 07:47

```
=====
Measurement Type:           Min(ppm)           Avg(ppm)
High Alarm Levels:         100                100
Low Alarm Levels:          50                 50
=====
```

```
=====
Line#   Date Time           Min(ppm) Alarm   Avg(ppm) Alarm   Max(ppm)
=====
```

1	12/9/2011 8:10			0		0.2
2	12/9/2011 8:25			0		0.2
3	12/9/2011 8:40			0		0.3
4	12/9/2011 8:55			0.1		0.2
5	12/9/2011 9:10			0.1		0.4
6	12/9/2011 9:25			0.1		0.4
7	12/9/2011 9:40			0		1.3
8	12/9/2011 9:55			0		0.3
9	12/9/2011 10:10			0		0
10	12/9/2011 10:25			0		0.3
11	12/9/2011 10:40			0		0
12	12/9/2011 10:55			0		0.8
13	12/9/2011 11:10			0.3		0.8
14	12/9/2011 11:25			0.3		0.8
15	12/9/2011 11:40			0.2		0.6
16	12/9/2011 11:55			0.2		0.5
17	12/9/2011 12:10			0.3		0.7
18	12/9/2011 12:25			0.3		0.6
19	12/9/2011 12:40			0.3		0.5
20	12/9/2011 12:55			0.3		0.4
21	12/9/2011 13:10			0.3		0.4
22	12/9/2011 13:25			0.3		0.5
23	12/9/2011 13:40			0.3		0.5
24	12/9/2011 13:55			0.3		0.4
25	12/9/2011 14:10			0.3		0.4
26	12/9/2011 14:25			0.3		0.5
27	12/9/2011 14:40			0.3		0.4
28	12/9/2011 14:55			0.3		0.4
29	12/9/2011 15:10			0.3		0.4
30	12/9/2011 15:25			0.3		0.5

```
=====
```

=====

Max(ppm)

100

50

=====

Alarm

=====

Instrument: MiniRAE 2000 (PGM7600)

Serial Number: 013450

User ID: 00000001 Site ID: 00000006

Data Points: 27 Gas Name: Isobutylene

Sample Period: 900 sec

Last Calibration Time: 12/14/2011 07:49

Measurement Type:

Min(ppm)

Avg(ppm)

High Alarm Levels:

100

100

Low Alarm Levels:

5.2

5.2

Line#	Date Time	Min(ppm)	Alarm	Avg(ppm)	Alarm	Max(ppm)
1	12/14/2011 8:04	0		0		0
2	12/14/2011 8:19	0		0		0
3	12/14/2011 8:34	0		0		0
4	12/14/2011 8:49	0		0		0
5	12/14/2011 9:04	0		0		0
6	12/14/2011 9:19	0		0		0.1
7	12/14/2011 9:34	0		0		0.1
8	12/14/2011 9:49	0		0		0.2
9	12/14/2011 10:04	0		0.1		0.2
10	12/14/2011 10:19	0.1		0.1		0.3
11	12/14/2011 10:34	0.1		0.1		0.2
12	12/14/2011 10:49	0.1		0.1		0.2
13	12/14/2011 11:04	0.1		0.1		0.2
14	12/14/2011 11:19	0.1		0.1		0.2
15	12/14/2011 11:34	0.1		0.1		0.2
16	12/14/2011 11:49	0.1		0.1		0.2
17	12/14/2011 12:04	0.1		0.1		0.2
18	12/14/2011 12:19	0.1		0.1		0.3
19	12/14/2011 12:34	0.1		0.2		0.5
20	12/14/2011 12:49	0.1		0.2		0.3
21	12/14/2011 13:04	0.1		0.2		0.4
22	12/14/2011 13:19	0.1		0.2		0.4
23	12/14/2011 13:34	0.1		0.1		0.2
24	12/14/2011 13:49	0.1		0.1		0.3
25	12/14/2011 14:04	0.1		0.2		0.5
26	12/14/2011 14:19	0.1		0.2		0.4
27	12/14/2011 14:34	0		0.2		1.8

```
=====
Max(ppm)
    100
    5.2
=====
Alarm
=====
```

TrakPro Version 3.41 ASCII Data File

Model: Dust Trak
 Serial Number: 22621
 Test ID: 3
 Test Abbreviation:
 Start Date: 12/12/2011
 Start Time: 8:52:00
 Duration (dd:hh 00:09:30:00
 Time constant (10
 Log Interval (mr 15:00
 Number of poin 38
 Notes:

Statistics Channel: Aerosol
 Units: mg/m³
 Average: 0.028
 Minimum: 0.016
 Time of Minimum: 14:22:00
 Date of Minimum: 12/12/2011
 Maximum: 0.041
 Time of Maximum: 9:37:00
 Date of Maximum: 12/12/2011

Calibration Sensor: Aerosol
 Cal. date 6/8/2011

Date MM/dd/yyyy	Time hh:mm:ss	Aerosol mg/m ³
12/12/2011	9:07:00	0.036
12/12/2011	9:22:00	0.037
12/12/2011	9:37:00	0.041
12/12/2011	9:52:00	0.041
12/12/2011	10:07:00	0.037
12/12/2011	10:22:00	0.038
12/12/2011	10:37:00	0.041
12/12/2011	10:52:00	0.035
12/12/2011	11:07:00	0.035
12/12/2011	11:22:00	0.039
12/12/2011	11:37:00	0.031
12/12/2011	11:52:00	0.033
12/12/2011	12:07:00	0.033
12/12/2011	12:22:00	0.03
12/12/2011	12:37:00	0.029
12/12/2011	12:52:00	0.034
12/12/2011	13:07:00	0.028
12/12/2011	13:22:00	0.025

12/12/2011	13:37:00	0.022
12/12/2011	13:52:00	0.018
12/12/2011	14:07:00	0.018
12/12/2011	14:22:00	0.016
12/12/2011	14:37:00	0.018
12/12/2011	14:52:00	0.017
12/12/2011	15:07:00	0.016
12/12/2011	15:22:00	0.017
12/12/2011	15:37:00	0.017
12/12/2011	15:52:00	0.018
12/12/2011	16:07:00	0.021
12/12/2011	16:22:00	0.019
12/12/2011	16:37:00	0.023
12/12/2011	16:52:00	0.021
12/12/2011	17:07:00	0.025
12/12/2011	17:22:00	0.027
12/12/2011	17:37:00	0.028
12/12/2011	17:52:00	0.029
12/12/2011	18:07:00	0.03
12/12/2011	18:22:00	0.031

Instrument: MiniRAE 2000 (PGM7600)

Serial Number: 002764

User ID: 00000001 Site ID: 00000091

Data Points: 38 Gas Name: Isobutylene

Sample Period: 900 sec

Last Calibration Time: 12/12/2011 08:01

Measurement Type:

Min(ppm)

Avg(ppm)

High Alarm Levels:

100

100

Low Alarm Levels:

50

50

Line#	Date Time	Min(ppm)	Alarm	Avg(ppm)	Alarm	Max(ppm)
1	12/12/2011 8:17	0		0		0.6
2	12/12/2011 8:32	0		0		0.5
3	12/12/2011 8:47	0		0		0.1
4	12/12/2011 9:02	0		0		0.1
5	12/12/2011 9:17	0		0		0
6	12/12/2011 9:32	0		0		0
7	12/12/2011 9:47	0		0		0.1
8	12/12/2011 10:02	0		0		0
9	12/12/2011 10:17	0		0		0.8
10	12/12/2011 10:32	0		0		0.1
11	12/12/2011 10:47	0		0		0.1
12	12/12/2011 11:02	0		0		0.1
13	12/12/2011 11:17	0		0		0.1
14	12/12/2011 11:32	0		0		0.1
15	12/12/2011 11:47	0		0		0.2
16	12/12/2011 12:02	0		0		0.1
17	12/12/2011 12:17	0		0		0.1
18	12/12/2011 12:32	0		0		0.1
19	12/12/2011 12:47	0		0		0.1
20	12/12/2011 13:02	0		0		0.1
21	12/12/2011 13:17	0		0		0.2
22	12/12/2011 13:32	0		0		0.1
23	12/12/2011 13:47	0		0		0.1
24	12/12/2011 14:02	0		0		0.2
25	12/12/2011 14:17	0		0		0.1
26	12/12/2011 14:32	0.1		0.1		0.1
27	12/12/2011 14:47	0.1		0.1		0.1
28	12/12/2011 15:02	0.1		0.1		0.1
29	12/12/2011 15:17	0		0		0.1
30	12/12/2011 15:32	0.1		0.1		0.2
31	12/12/2011 15:47	0.1		0.1		0.2
32	12/12/2011 16:02	0.1		0.1		0.1
33	12/12/2011 16:17	0.1		0.1		0.1
34	12/12/2011 16:32	0.1		0.1		0.1
35	12/12/2011 16:47	0.1		0.1		0.1

36	12/12/2011 17:02	0.1	0.1	0.1
37	12/12/2011 17:17	0.1	0.1	0.1
38	12/12/2011 17:32	0.1	0.1	0.1

```
=====
Max(ppm)
    100
    50
=====
Alarm
=====
```

TrakPro Version 3.41 ASCII Data File

Model: Dust Trak
 Serial Number 22621
 Test ID: 4
 Test Abbreviation:
 Start Date: 12/13/2011
 Start Time: 8:27:33
 Duration (dd:h 00:06:45:00
 Time constant 10
 Log Interval (n 15:00
 Number of poi 27
 Notes:

Statistics Channel: Aerosol
 Units: mg/m³
 Average: 0.045
 Minimum: 0.033
 Time of Minimum 13:57:33
 Date of Minimum 12/13/2011
 Maximum: 0.062
 Time of Maximum 10:57:33
 Date of Maximum 12/13/2011

Calibration Sensor: Aerosol
 Cal. date 6/8/2011

Date	Time	Aerosol
MM/dd/yyyy	hh:mm:ss	mg/m ³
12/13/2011	8:42:33	0.045
12/13/2011	8:57:33	0.041
12/13/2011	9:12:33	0.043
12/13/2011	9:27:33	0.047
12/13/2011	9:42:33	0.049
12/13/2011	9:57:33	0.05
12/13/2011	10:12:33	0.052
12/13/2011	10:27:33	0.051
12/13/2011	10:42:33	0.055
12/13/2011	10:57:33	0.062
12/13/2011	11:12:33	0.053
12/13/2011	11:27:33	0.054
12/13/2011	11:42:33	0.056
12/13/2011	11:57:33	0.057
12/13/2011	12:12:33	0.055
12/13/2011	12:27:33	0.049
12/13/2011	12:42:33	0.036
12/13/2011	12:57:33	0.037

12/13/2011	13:12:33	0.036
12/13/2011	13:27:33	0.047
12/13/2011	13:42:33	0.034
12/13/2011	13:57:33	0.033
12/13/2011	14:12:33	0.033
12/13/2011	14:27:33	0.033
12/13/2011	14:42:33	0.033
12/13/2011	14:57:33	0.033
12/13/2011	15:12:33	0.033

Instrument: MiniRAE 2000 (PGM7600)

Serial Number: 002764

User ID: 00000001 Site ID: 00000092

Data Points: 30 Gas Name: Isobutylene

Sample Period: 900 sec

Last Calibration Time: 12/13/2011 07:30

```
=====
Measurement Type:           Min(ppm)           Avg(ppm)
High Alarm Levels:           100                100
Low Alarm Levels:            50                 50
=====
```

```
=====
Line#    Date Time      Min(ppm) Alarm    Avg(ppm) Alarm    Max(ppm)
=====
```

1	12/13/2011 7:45	0		0.2		23.2
2	12/13/2011 8:00	0		0		0.1
3	12/13/2011 8:15	0		0		0.1
4	12/13/2011 8:30	0		0		0.2
5	12/13/2011 8:45	0		0		0.1
6	12/13/2011 9:00	0		0		0.2
7	12/13/2011 9:15	0		0		0.2
8	12/13/2011 9:30	0		0		0.1
9	12/13/2011 9:45	0		0		0.1
10	12/13/2011 10:00	0		0		0.1
11	12/13/2011 10:15	0		0		0.1
12	12/13/2011 10:30	0.1		0.1		0.2
13	12/13/2011 10:45	0.1		0.1		0.2
14	12/13/2011 11:00	0.1		0.1		0.1
15	12/13/2011 11:15	0.1		0.1		0.2
16	12/13/2011 11:30	0.1		0.1		0.2
17	12/13/2011 11:45	0.1		0.1		0.1
18	12/13/2011 12:00	0.1		0.1		0.2
19	12/13/2011 12:15	0.1		0.1		0.2
20	12/13/2011 12:30	0.1		0.1		0.2
21	12/13/2011 12:45	0.1		0.1		0.2
22	12/13/2011 13:00	0.1		0.1		0.2
23	12/13/2011 13:15	0.1		0.1		0.2
24	12/13/2011 13:30	0.1		0.1		0.2
25	12/13/2011 13:45	0.1		0.1		0.2
26	12/13/2011 14:00	0.1		0.1		0.2
27	12/13/2011 14:15	0.1		0.1		0.1
28	12/13/2011 14:30	0.1		0.1		0.1
29	12/13/2011 14:45	0.1		0.1		0.2
30	12/13/2011 15:00	0.1		0.1		0.2

```
=====
```

```
=====
Max(ppm)
    100
    50
=====
Alarm
=====
```

TrakPro Version 3.41 ASCII Data File

Model: Dust Trak
Serial Number 22621
Test ID: 5
Test Abbreviation:
Start Date: 12/14/2011
Start Time: 8:00:22
Duration (dd:h 00:06:45:00
Time constant 10
Log Interval (n 15:00
Number of poi 27

Notes:

Statistics Channel: Aerosol
Units: mg/m³
Average: 0.045
Minimum: 0.016
Time of Minir 13:45:22
Date of Minir 12/14/2011
Maximum: 0.067
Time of Maxir 9:45:22
Date of Maxir 12/14/2011

Calibration Sensor: Aerosol
Cal. date 6/8/2011

Date	Time	Aerosol
MM/dd/yyyy	hh:mm:ss	mg/m ³
12/14/2011	8:15:22	0.052
12/14/2011	8:30:22	0.054
12/14/2011	8:45:22	0.054
12/14/2011	9:00:22	0.057
12/14/2011	9:15:22	0.057
12/14/2011	9:30:22	0.059
12/14/2011	9:45:22	0.067
12/14/2011	10:00:22	0.058
12/14/2011	10:15:22	0.058
12/14/2011	10:30:22	0.061
12/14/2011	10:45:22	0.058
12/14/2011	11:00:22	0.065
12/14/2011	11:15:22	0.063
12/14/2011	11:30:22	0.062
12/14/2011	11:45:22	0.054
12/14/2011	12:00:22	0.049
12/14/2011	12:15:22	0.046
12/14/2011	12:30:22	0.041

12/14/2011	12:45:22	0.026
12/14/2011	13:00:22	0.024
12/14/2011	13:15:22	0.023
12/14/2011	13:30:22	0.021
12/14/2011	13:45:22	0.016
12/14/2011	14:00:22	0.017
12/14/2011	14:15:22	0.02
12/14/2011	14:30:22	0.021
12/14/2011	14:45:22	0.022

TrakPro Version 3.41 ASCII Data File

Model: Dust Trak
 Serial Number: 22621
 Test ID: 6
 Test Abbreviation:
 Start Date: 12/15/2011
 Start Time: 7:43:50
 Duration (dd:hh:mm:ss): 00:07:45:00
 Time constant (seconds): 10
 Log Interval (mm:ss): 15:00
 Number of points: 31
 Notes:

Statistics Channel: Aerosol
 Units: mg/m³
 Average: 0.029
 Minimum: 0.025
 Time of Minimum: 15:28:50
 Date of Minimum: 12/15/2011
 Maximum: 0.034
 Time of Maximum: 9:43:50
 Date of Maximum: 12/15/2011

Calibration Sensor: Aerosol
 Cal. date 6/8/2011

Date MM/dd/yyyy	Time hh:mm:ss	Aerosol mg/m ³
12/15/2011	7:58:50	0.028
12/15/2011	8:13:50	0.028
12/15/2011	8:28:50	0.03
12/15/2011	8:43:50	0.032
12/15/2011	8:58:50	0.033
12/15/2011	9:13:50	0.033
12/15/2011	9:28:50	0.033
12/15/2011	9:43:50	0.034
12/15/2011	9:58:50	0.033
12/15/2011	10:13:50	0.033
12/15/2011	10:28:50	0.032
12/15/2011	10:43:50	0.03
12/15/2011	10:58:50	0.031
12/15/2011	11:13:50	0.031
12/15/2011	11:28:50	0.029
12/15/2011	11:43:50	0.028
12/15/2011	11:58:50	0.028
12/15/2011	12:13:50	0.028

12/15/2011	12:28:50	0.028
12/15/2011	12:43:50	0.027
12/15/2011	12:58:50	0.027
12/15/2011	13:13:50	0.027
12/15/2011	13:28:50	0.027
12/15/2011	13:43:50	0.027
12/15/2011	13:58:50	0.027
12/15/2011	14:13:50	0.028
12/15/2011	14:28:50	0.029
12/15/2011	14:43:50	0.03
12/15/2011	14:58:50	0.031
12/15/2011	15:13:50	0.026
12/15/2011	15:28:50	0.025

Instrument: MiniRAE 2000 (PGM7600)

Serial Number: 013450

User ID: 00000001 Site ID: 00000006

Data Points: 31 Gas Name: Isobutylene

Sample Period: 900 sec

Last Calibration Time: 12/15/2011 07:25

```
=====
Measurement Type:           Min(ppm)           Avg(ppm)
High Alarm Levels:           100                100
Low Alarm Levels:            5.2                5.2
=====
```

```
=====
Line#   Date Time       Min(ppm) Alarm   Avg(ppm) Alarm   Max(ppm)
=====
```

1	12/15/2011 7:42	0		0.5		40.1
2	12/15/2011 7:57	0		0		0
3	12/15/2011 8:12	0		0		0
4	12/15/2011 8:27	0		0		0
5	12/15/2011 8:42	0		0		0.1
6	12/15/2011 8:57	0		0		0
7	12/15/2011 9:12	0		0		0
8	12/15/2011 9:27	0		0		0
9	12/15/2011 9:42	0		0		0.2
10	12/15/2011 9:57	0		0		0
11	12/15/2011 10:12	0		0		0
12	12/15/2011 10:27	0		0		0
13	12/15/2011 10:42	0		0		0.4
14	12/15/2011 10:57	0		0		1.1
15	12/15/2011 11:12	0		0.2		1
16	12/15/2011 11:27	0		0		0.5
17	12/15/2011 11:42	0		0		0.3
18	12/15/2011 11:57	0		0.1		0.9
19	12/15/2011 12:12	0		0		0.4
20	12/15/2011 12:27	0		0		0.1
21	12/15/2011 12:42	0		0		0.4
22	12/15/2011 12:57	0		0.1		1.1
23	12/15/2011 13:12	0		0		0.3
24	12/15/2011 13:27	0		0		0.2
25	12/15/2011 13:42	0		0		0.3
26	12/15/2011 13:57	0		0		0.1
27	12/15/2011 14:12	0		0		0.2
28	12/15/2011 14:27	0		0		0
29	12/15/2011 14:42	0		0		0
30	12/15/2011 14:57	0		0		0
31	12/15/2011 15:12	0		0		0

```
=====
```


=====

Max(ppm)

100

5.2

=====

Alarm

=====

L

TrakPro Version 3.41 ASCII Data File

Model: Dust Trak
 Serial Number: 22621
 Test ID: 6
 Test Abbreviation:
 Start Date: 12/16/2011
 Start Time: 7:45:50
 Duration (dd:hh:mm:ss): 00:07:45:00
 Time constant (seconds): 10
 Log Interval (mm:ss): 15:00
 Number of points: 31
 Notes:

Statistics Channel: Aerosol
 Units: mg/m³
 Average: 0.029
 Minimum: 0.025
 Time of Minimum: 15:30:50
 Date of Minimum: 12/16/2011
 Maximum: 0.034
 Time of Maximum: 9:45:50
 Date of Maximum: 12/16/2011

Calibration Sensor: Aerosol
 Cal. date 6/8/2011

Date MM/dd/yyyy	Time hh:mm:ss	Aerosol mg/m ³
12/16/2011	7:00:50	0.032
12/16/2011	8:15:50	0.032
12/16/2011	8:30:50	0.03
12/16/2011	8:45:50	0.032
12/16/2011	8:00:50	0.033
12/16/2011	9:15:50	0.033
12/16/2011	9:30:50	0.033
12/16/2011	9:45:50	0.034
12/16/2011	9:00:50	0.033
12/16/2011	10:15:50	0.033
12/16/2011	10:30:50	0.032
12/16/2011	10:45:50	0.03
12/16/2011	10:00:50	0.031
12/16/2011	11:15:50	0.031
12/16/2011	11:30:50	0.029
12/16/2011	11:45:50	0.032
12/16/2011	11:00:50	0.032
12/16/2011	12:15:50	0.032

12/16/2011	12:30:50	0.032
12/16/2011	12:45:50	0.024
12/16/2011	12:00:50	0.024
12/16/2011	13:15:50	0.024
12/16/2011	13:30:50	0.024
12/16/2011	13:45:50	0.024
12/16/2011	13:00:50	0.024
12/16/2011	14:15:50	0.032
12/16/2011	14:30:50	0.029
12/16/2011	14:45:50	0.03
12/16/2011	14:00:50	0.031
12/16/2011	15:15:50	0.026
12/16/2011	15:30:50	0.025

Instrument: MiniRAE 2000 (PGM7600) Serial Number: 013450
User ID: 00000001 Site ID: 00000006
Data Points: 25 Gas Name: Isobutylene Sample Period: 900 sec
Last Calibration Time: 12/16/2011 07:25

```
=====
Measurement Type:           Min(ppm)           Avg(ppm)
High Alarm Levels:           100                100
Low Alarm Levels:            5.2                5.2
=====
```

```
=====
Line#   Date Time           Min(ppm) Alarm   Avg(ppm) Alarm   Max(ppm)
=====
```

1	12/16/2011 9:22	0		0		0.2
2	12/16/2011 9:37	0		0		0.3
3	12/16/2011 9:52	0.1		0.1		0.4
4	12/16/2011 10:07	0.1		0.1		0.3
5	12/16/2011 10:22	0.2		0.2		0.3
6	12/16/2011 10:37	0.2		0.2		0.4
7	12/16/2011 10:52	0.2		0.3		0.4
8	12/16/2011 11:07	0.3		0.3		0.6
9	12/16/2011 11:22	0.3		0.4		0.9
10	12/16/2011 11:37	0.3		0.3		0.5
11	12/16/2011 11:52	0.3		0.4		0.5
12	12/16/2011 12:07	0.4		0.4		0.5
13	12/16/2011 12:22	0.4		0.4		0.6
14	12/16/2011 12:37	0.4		0.4		0.6
15	12/16/2011 12:52	0.4		0.5		0.6
16	12/16/2011 13:07	0.5		0.5		0.8
17	12/16/2011 13:22	0.5		0.5		0.7
18	12/16/2011 13:37	0.5		0.6		0.7
19	12/16/2011 13:52	0.5		0.6		0.7
20	12/16/2011 14:07	0.5		0.6		0.7
21	12/16/2011 14:22	0.6		0.6		0.7
22	12/16/2011 14:37	0.6		0.6		0.8
23	12/16/2011 14:52	0.6		0.6		0.8
24	12/16/2011 15:07	0.6		0.7		0.8
25	12/16/2011 15:22	0.6		0.7		0.8

```
=====
```

=====

Max(ppm)

100

5.2

=====

Alarm

=====

Instrument: MiniRAE 2000 (PGM7600)

Serial Number: 902335

User ID: 00000001 Site ID: 00000048

Data Points: 38 Gas Name: Isobutylene

Sample Period: 900 sec

Last Calibration Time: 12/12/2011 08:32

Measurement Type:

Min(ppm)

Avg(ppm)

High Alarm Levels:

25

25

Low Alarm Levels:

5.2

5.2

Line#	Date Time	Min(ppm)	Alarm	Avg(ppm)	Alarm	Max(ppm)
1	12/12/2011 8:49	0		0		0.2
2	12/12/2011 9:04	0		0.2		0.5
3	12/12/2011 9:19	0.3		0.4		0.7
4	12/12/2011 9:34	0.5		0.6		0.9
5	12/12/2011 9:49	0.5		0.5		0.7
6	12/12/2011 10:04	0.4		0.5		0.6
7	12/12/2011 10:19	0.5		0.5		0.6
8	12/12/2011 10:34	0.5		0.5		0.7
9	12/12/2011 10:49	0.5		0.6		0.8
10	12/12/2011 11:04	0.6		0.7		1.1
11	12/12/2011 11:19	0.6		0.7		0.9
12	12/12/2011 11:34	0.7		0.8		1.1
13	12/12/2011 11:49	0.9		1		1.2
14	12/12/2011 12:04	1		1		1.2
15	12/12/2011 12:19	1		1.1		1.3
16	12/12/2011 12:34	1		1.1		1.5
17	12/12/2011 12:49	1.1		1.3		1.6
18	12/12/2011 13:04	1		1.1		1.7
19	12/12/2011 13:19	0.8		1		1.6
20	12/12/2011 13:34	0.8		0.8		1.2
21	12/12/2011 13:49	0.7		0.8		1
22	12/12/2011 14:04	0.7		0.8		1.2
23	12/12/2011 14:19	0.8		0.9		1.7
24	12/12/2011 14:34	0.8		1		1.6
25	12/12/2011 14:49	1.1		1.7		3.4
26	12/12/2011 15:04	1.5		1.7		2.2
27	12/12/2011 15:19	1.5		1.6		2.2
28	12/12/2011 15:34	1.6		1.7		2.2
29	12/12/2011 15:49	1.7		1.9		2.3
30	12/12/2011 16:04	1.8		1.9		2.2
31	12/12/2011 16:19	1.5		1.7		1.9
32	12/12/2011 16:34	1.4		1.5		1.7
33	12/12/2011 16:49	1.4		1.5		1.9
34	12/12/2011 17:04	1.4		1.5		1.8
35	12/12/2011 17:19	1.4		1.5		1.8

36	12/12/2011 17:34	1.3	1.4	1.6
37	12/12/2011 17:49	1.1	1.2	1.4
38	12/12/2011 18:04	1	1.1	1.3

```
=====
Max(ppm)
    25
    5.2
=====
Alarm
=====
```


Instrument: MiniRAE 2000 (PGM7600)

Serial Number: 902335

User ID: 00000001 Site ID: 00000049

Data Points: 28 Gas Name: Isobutylene

Sample Period: 900 sec

Last Calibration Time: 12/13/2011 07:52

Measurement Type:

Min(ppm)

Avg(ppm)

High Alarm Levels:

25

25

Low Alarm Levels:

5.2

5.2

Line#	Date Time	Min(ppm)	Alarm	Avg(ppm)	Alarm	Max(ppm)
1	12/13/2011 8:08	0		0.5		35.2
2	12/13/2011 8:23	0		0.3		1.1
3	12/13/2011 8:38	0.4		0.4		0.6
4	12/13/2011 8:53	0.5		0.6		0.8
5	12/13/2011 9:08	0.6		0.7		1
6	12/13/2011 9:23	0.7		0.8		1
7	12/13/2011 9:38	0.8		0.9		1.1
8	12/13/2011 9:53	0.9		1		1.2
9	12/13/2011 10:08	1		1		1.2
10	12/13/2011 10:23	1		1.1		1.4
11	12/13/2011 10:38	1.1		1.2		1.6
12	12/13/2011 10:53	1.3		1.4		1.6
13	12/13/2011 11:08	1.2		1.3		1.6
14	12/13/2011 11:23	1.2		1.3		2
15	12/13/2011 11:38	1.3		1.4		1.6
16	12/13/2011 11:53	1.3		1.4		1.9
17	12/13/2011 12:08	1.3		1.4		1.8
18	12/13/2011 12:23	1.4		1.4		1.6
19	12/13/2011 12:38	1.4		1.5		1.7
20	12/13/2011 12:53	1.4		1.5		1.7
21	12/13/2011 13:08	1.4		1.5		2
22	12/13/2011 13:23	1.4		1.5		1.7
23	12/13/2011 13:38	1.3		1.5		1.7
24	12/13/2011 13:53	0		1.5		4.6
25	12/13/2011 14:08	0		1.5		6.3
26	12/13/2011 14:23	1.5		1.6		1.8
27	12/13/2011 14:38	0		1.6		3.1
28	12/13/2011 14:53	1.6		1.7		1.8

```
=====
Max(ppm)
    25
    5.2
=====
Alarm
=====
H
```

L

Instrument: MiniRAE 2000 (PGM7600)

Serial Number: 902335

User ID: 00000001 Site ID: 00000051

Data Points: 26 Gas Name: Isobutylene

Sample Period: 900 sec

Last Calibration Time: 12/14/2011 07:46

Measurement Type:

Min(ppm)

Avg(ppm)

High Alarm Levels:

25

25

Low Alarm Levels:

5.2

5.2

Line#	Date Time	Min(ppm)	Alarm	Avg(ppm)	Alarm	Max(ppm)
1	12/14/2011 8:11	0.1		0.1		0.2
2	12/14/2011 8:26	0.2		0.1		0.2
3	12/14/2011 8:41	0.2		0.1		0.2
4	12/14/2011 8:56	0.2		0.1		0.2
5	12/14/2011 9:11	0.2		0.1		0.2
6	12/14/2011 9:26	0.2		0.1		0.2
7	12/14/2011 9:41	0.1		0.1		0.2
8	12/14/2011 9:56	0.1		0.1		0.2
9	12/14/2011 10:11	0.1		0.1		0.2
10	12/14/2011 10:26	0.1		0.1		0.2
11	12/14/2011 10:41	0.3		0.2		0.2
12	12/14/2011 10:56	0.3		0.2		0.2
13	12/14/2011 11:11	0.3		0.2		0.2
14	12/14/2011 11:26	0.2		0.1		0.2
15	12/14/2011 11:41	0.2		0.1		0.3
16	12/14/2011 11:56	0.2		0.1		0.3
17	12/14/2011 12:11	0.2		0.1		0.1
18	12/14/2011 12:26	0.2		0.1		0.1
19	12/14/2011 12:41	0.2		0.1		0.1
20	12/14/2011 12:56	0.2		0.1		0.2
21	12/14/2011 13:11	0.2		0.1		0.2
22	12/14/2011 13:26	0.2		0.1		0.2
23	12/14/2011 13:41	0.2		0.1		0.2
24	12/14/2011 13:56	0.2		0.1		0.2
25	12/14/2011 14:11	0.2		0.1		0.2
26	12/14/2011 14:26	0.2		0.1		0.2

```
=====
Max(ppm)
    25
    5.2
=====
Alarm
=====
```

TrakPro Version 3.41 ASCII Data File

Model: Dust Trak
 Serial Number: 85200085
 Test ID: 29
 Test Abbreviation:
 Start Date: 12/12/2011
 Start Time: 8:48:19
 Duration (dd:hh:mm:ss): 00:09:30:00
 Time constant (seconds): 10
 Log Interval (mm:ss): 15:00
 Number of points: 38
 Notes:

Statistics Channel: Aerosol
 Units: mg/m³
 Average: 0.044
 Minimum: 0.026
 Time of Minimum 13:48:19
 Date of Minimum: 12/12/2011
 Maximum: 0.06
 Time of Maximum 10:33:19
 Date of Maximum 12/12/2011

Calibration Sensor: Aerosol
 Cal. date 5/17/2011

Date MM/dd/yyyy	Time hh:mm:ss	Aerosol mg/m ³
12/12/2011	9:03:19	0.048
12/12/2011	9:18:19	0.047
12/12/2011	9:33:19	0.049
12/12/2011	9:48:19	0.053
12/12/2011	10:03:19	0.048
12/12/2011	10:18:19	0.053
12/12/2011	10:33:19	0.06
12/12/2011	10:48:19	0.056
12/12/2011	11:03:19	0.047
12/12/2011	11:18:19	0.051
12/12/2011	11:33:19	0.053
12/12/2011	11:48:19	0.057
12/12/2011	12:03:19	0.045
12/12/2011	12:18:19	0.048
12/12/2011	12:33:19	0.053
12/12/2011	12:48:19	0.05
12/12/2011	13:03:19	0.047
12/12/2011	13:18:19	0.045

12/12/2011	13:33:19	0.034
12/12/2011	13:48:19	0.026
12/12/2011	14:03:19	0.026
12/12/2011	14:18:19	0.047
12/12/2011	14:33:19	0.041
12/12/2011	14:48:19	0.027
12/12/2011	15:03:19	0.031
12/12/2011	15:18:19	0.035
12/12/2011	15:33:19	0.031
12/12/2011	15:48:19	0.036
12/12/2011	16:03:19	0.046
12/12/2011	16:18:19	0.045
12/12/2011	16:33:19	0.044
12/12/2011	16:48:19	0.042
12/12/2011	17:03:19	0.039
12/12/2011	17:18:19	0.039
12/12/2011	17:33:19	0.043
12/12/2011	17:48:19	0.041
12/12/2011	18:03:19	0.046
12/12/2011	18:18:19	0.051

TrakPro Version 3.41 ASCII Data File

Model: Dust Trak
 Serial Number: 85200085
 Test ID: 30
 Test Abbreviation:
 Start Date: 12/13/2011
 Start Time: 8:21:36
 Duration (dd:hh:mm:ss): 00:06:45:00
 Time constant: 10
 Log Interval (m): 15:00
 Number of pairs: 27
 Notes:

Statistics Channel: Aerosol
 Units: mg/m³
 Average: 0.06
 Minimum: 0.043
 Time of Minimum: 13:21:36
 Date of Minimum: 12/13/2011
 Maximum: 0.079
 Time of Maximum: 11:36:36
 Date of Maximum: 12/13/2011

Calibration Sensor: Aerosol
 Cal. date: 5/17/2011

Date MM/dd/yyyy	Time hh:mm:ss	Aerosol mg/m ³
12/13/2011	8:36:36	0.069
12/13/2011	8:51:36	0.055
12/13/2011	9:06:36	0.058
12/13/2011	9:21:36	0.058
12/13/2011	9:36:36	0.064
12/13/2011	9:51:36	0.073
12/13/2011	10:06:36	0.063
12/13/2011	10:21:36	0.066
12/13/2011	10:36:36	0.074
12/13/2011	10:51:36	0.075
12/13/2011	11:06:36	0.074
12/13/2011	11:21:36	0.075
12/13/2011	11:36:36	0.079
12/13/2011	11:51:36	0.079
12/13/2011	12:06:36	0.076
12/13/2011	12:21:36	0.069
12/13/2011	12:36:36	0.05
12/13/2011	12:51:36	0.049

12/13/2011	13:06:36	0.049
12/13/2011	13:21:36	0.043
12/13/2011	13:36:36	0.045
12/13/2011	13:51:36	0.044
12/13/2011	14:06:36	0.048
12/13/2011	14:21:36	0.05
12/13/2011	14:36:36	0.046
12/13/2011	14:51:36	0.047
12/13/2011	15:06:36	0.043

TrakPro Version 3.41 ASCII Data File

Model: Dust Trak
 Serial Number: 85200085
 Test ID: 31
 Test Abbreviation:
 Start Date: 12/14/2011
 Start Time: 8:01:53
 Duration (dd:hh:mm:ss): 00:06:45:00
 Time constant (seconds): 10
 Log Interval (mm:ss): 15:00
 Number of points: 27
 Notes:

Statistics Channel: Aerosol
 Units: mg/m³
 Average: 0.051
 Minimum: 0.021
 Time of Minimum: 13:46:53
 Date of Minimum: 12/14/2011
 Maximum: 0.082
 Time of Maximum: 8:16:53
 Date of Maximum: 12/14/2011

Calibration Sensor: Aerosol
 Cal. date 5/17/2011

Date MM/dd/yyyy	Time hh:mm:ss	Aerosol mg/m ³
12/14/2011	8:16:53	0.082
12/14/2011	8:31:53	0.06
12/14/2011	8:46:53	0.059
12/14/2011	9:01:53	0.061
12/14/2011	9:16:53	0.062
12/14/2011	9:31:53	0.063
12/14/2011	9:46:53	0.065
12/14/2011	10:01:53	0.069
12/14/2011	10:16:53	0.069
12/14/2011	10:31:53	0.071
12/14/2011	10:46:53	0.068
12/14/2011	11:01:53	0.068
12/14/2011	11:16:53	0.064
12/14/2011	11:31:53	0.062
12/14/2011	11:46:53	0.057
12/14/2011	12:01:53	0.053
12/14/2011	12:16:53	0.047
12/14/2011	12:31:53	0.04

12/14/2011	12:46:53	0.032
12/14/2011	13:01:53	0.033
12/14/2011	13:16:53	0.031
12/14/2011	13:31:53	0.032
12/14/2011	13:46:53	0.021
12/14/2011	14:01:53	0.022
12/14/2011	14:16:53	0.027
12/14/2011	14:31:53	0.029
12/14/2011	14:46:53	0.025