
Belcheff & Associates, Inc.

Municipal Engineering & Management
TBPE Reg. No. F-368

100 Trophy Club Dr., Ste. 103
Trophy Club, Texas 76262

March 9, 2011

Ron Ruthven
Community Development and Public Works Director
100 Main Street
Colleyville, Texas 76034

Re: Trinity Well Site Inspection Report

Dear Ron:

Attached is a weekly inspection summary report for the Titan, Trinity well site. Site development is an intensive process leading up to the drilling phase. Over the past week there was significant activity and a number of common issues, noise, traffic, and lighting, which required additional attention. With many of the inspection items not quantifiable, the inspection report covers areas in narrative form. At this stage of the project, there are no outstanding critical issues at the site at this time.

During the following 20-25 days, drilling will begin on the on the "B" well below the 1,650 feet surface casing level. This time frame should involve drilling and installation of the intermediate and production casing.

If you have any questions, feel free to contact me.

Respectfully,



Christopher Polidore, P.E.
Gas Inspector – City of Colleyville

Cc: George Belcheff

City of Colleyville Oil and Gas Well Drilling and Production – Inspection Report

Well/Pipeline Identification: Trinity
7504 Pleasant Run
Colleyville, Texas 76034

Date(s): March 1 – 8, 2011

Inspector: Christopher Polidore
Belcheff & Associates, Inc.

General Comments:

On 3/1/2011 I performed an overall walk-through prior to the scheduled walk-through on 3/2/2011. Construction was ramping up and only the first stage of the substructure was in place. A significant number of vehicles were maneuvering the site, and multiple activities were ongoing. Within the next two days the site was fully operational.

Many of the initial work-hour, truck routing, and noise issues were unintentional and stem from the large numbers of contractors and the resulting massive demands on coordination and communication. Once identified these problem areas were readily solved.

Noise

Increased noise during site development resulted in a number of complaints. Analysis of noise monitoring reports showed that the site was in compliance. Primary noise sources included 1. banging pipes, from loading pipes on the “wrangler” with a fork-lift and unloading trucks, 2. back-up beepers, 3. transduced ground waves from the drill bit.

1. Readings on the pad showed a maximum 6dBA increase in noise due to pipe banging. On March 2, 2011, delayed delivery required some pipes to be unloaded into the evening hours. Although this specific activity is prohibited after hours, (see traffic below), the noise generated was in compliance with the ordinance which allows momentary noise spikes.
2. Back-up beepers on the site are deactivated after-hours. Complaints from residents west of the site were investigated. On the night of 3/4/2011, I investigated beeping at 10:39pm and discovered excavating activity on property on John McCain was the source of the beeping.

3. Residents reported a grinding sound while drilling the first well. The grinding was due to drilling through hard ferrous material. Although the transduced sound waves were in compliance with the ordinance, the operating company mitigated this problem by reducing drilling speed. This is being further investigated.

On March 1, 2011, it was noted that the gaps between sound blankets where flaps overlap, may reduce the noise reduction effect of the sound wall. On March 6, 2011, I noticed that many of the flaps were tucked into the gaps to prevent them from opening.

Noise readings taken on the pad during surface casing cementing ranged from 88-91dBA.

On March 6, 2011, a sound barrier was placed around the west end of the electric generators to help reduce the site noise level. While it reduced noise on the pad, any effect outside the pad is undetermined at this time.

A second sound meter was installed closer to the Monroe cul-de-sac and readings are significantly lower than those at the first location.

Dust/Erosion

The only method of dust control at the present time for the area directly surrounding the entranceway and pad site involves watering. During the final walk-through City engineering discussed corrective measures with the operator.

On March 8, 2011 the main drive into the site was swept twice to prevent dust from vehicle traffic.

Environmental

During cementing of the first surface casing, disconnecting the mud line caused drilling mud to flow onto the rig floor. This is not a reportable spill. Under the rig is a plastic liner. Any material spilled will end up in the cellar areas where it is pumped out with the used drilling mud. When the rig floor was skidded to the second well location the area under the rig was washed down.

Installation of amber light filters on the derrick was completed March 6, 2011.

Housekeeping/Storage

Heavy operating equipment is currently parked on the entrance area to the site. Follow-up action is required. On 3/7/2011 one piece of equipment was being removed from the site.

Documentation/Reporting

Regular noise monitoring reports are being provided. Surface casing cementing reports, RRC W-15, will be provided as they are completed.

Current schedule – Well F surface casing, then complete drilling for well B, then surface work for C, E, and A.

Traffic Control

During site development many deliveries were delayed to traffic backups. A few truck drivers were unaware of the required truck route and some became lost and entered the site based on information from local residents. With the delayed delivery some unloading did occur after-hours on March 2, 2011. On 3/4/2011, 6:30pm, I authorized the cementing trucks to exit the site on an alternate route since the pumping truck would most likely experience obstacles from the low utility lines on the approved route.

Landscaping

N/A at this time.

Security

The Guard reported a number of incidents where individuals requested entry to the site. These individuals were turned away. One incident was severe enough to require a police report.

At request of guard and property manager, relayed information to the property manager on posting no trespassing signs after confirmation from Colleyville Code Enforcement.

Signage

Official RRC signage is on order but the interim sign meets the general requirements.

Initially there was no signage indicating the required personal protective equipment (hard hats, safety glasses, safety shoes). By day 2, proper signage was displayed.

Fire

During cementing, it is noted that extinguishers are present on the pad near the cementing trucks.

Did a walk-through looking for fire extinguishers and found many dispersed throughout the site.

Work Hours

With the backup of traffic in the initial stages of site development, some trucks deliveries were delayed and a few activities marginally extended into the evening hours. After emphasizing the required work hours by day two, all unnecessary activity related to drilling/production was completed by 7pm.

Safety

It was noted on the first few days there were three incidents of no hard hats, mainly from visitors and vendors. Once signage was placed at the pad entrance, there were no further incidents.

On one occasion the emergency exit was found blocked. It was cleared once the operator was notified.

Emergency plan is on site.

Inspected grounding of power plant/skids and trailers. Grounding rods are placed throughout the site within acceptable distances. (Close proximity would require them to be all tied together.)

General Site Conditions

N/A

Other Ordinance/SUP Specific

Discussed frac pond design with Peloton. Confirmed that the pond will be natural and have no lining.

Regulatory Compliance

Surface casing inspection and associated provisions in the ordinance were in compliance. Surface casings are set at approximately 1,650 feet. W-15 reports will be provided.

Conferred with Mr. Herring from the RRC on the site and we concurred compliance with State requirements. Inspected cement mixtures and samples being sent for testing.

Behrens and Associates, Inc.

Environmental Noise Control



March 3, 2011

Titan Operating, LLC
111 West 4th Street STE 300
Fort Worth, Texas 76102

Attention: Tom Strother

Subject: TCC 1H Pad Site Continuous Operational Sound Level Survey

Dear Mr. Strother:

Please find the attached chart displaying the measured operational sound levels at the TCC 1H pad site in Colleyville, TX, from Wednesday, March 2, to Thursday, March 3, 2011. The chart displays the measured hourly average sound levels.

Please contact me if you have any questions or comments.

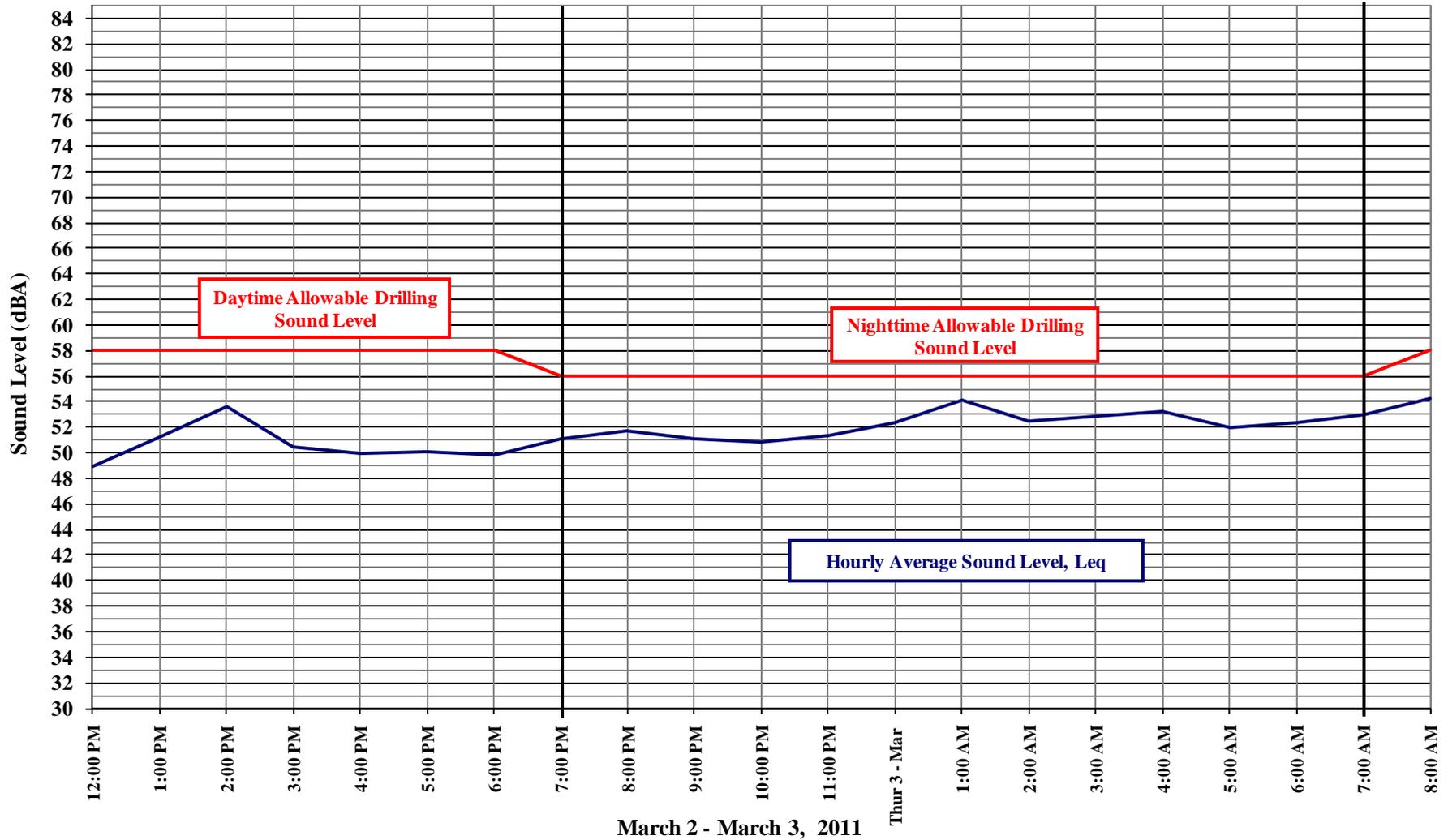
Very truly yours,

Don Behrens
President
95-4460624

Attachments



Titan Operating TCC 1HDrill Site Continuous Sound Level Monitoring



Behrens and Associates, Inc.

Environmental Noise Control



March 5, 2011

Titan Operating, LLC
111 West 4th Street STE 300
Fort Worth, Texas 76102

Attention: Tom Strother

Subject: TCC 1H Pad Site Continuous Operational Sound Level Survey

Dear Mr. Strother:

Please find the attached chart displaying the measured operational sound levels at the TCC 1H pad site in Colleyville, TX, from Friday, March 4, to Saturday, March 5, 2011. The chart displays the measured hourly average sound levels.

Please contact me if you have any questions or comments.

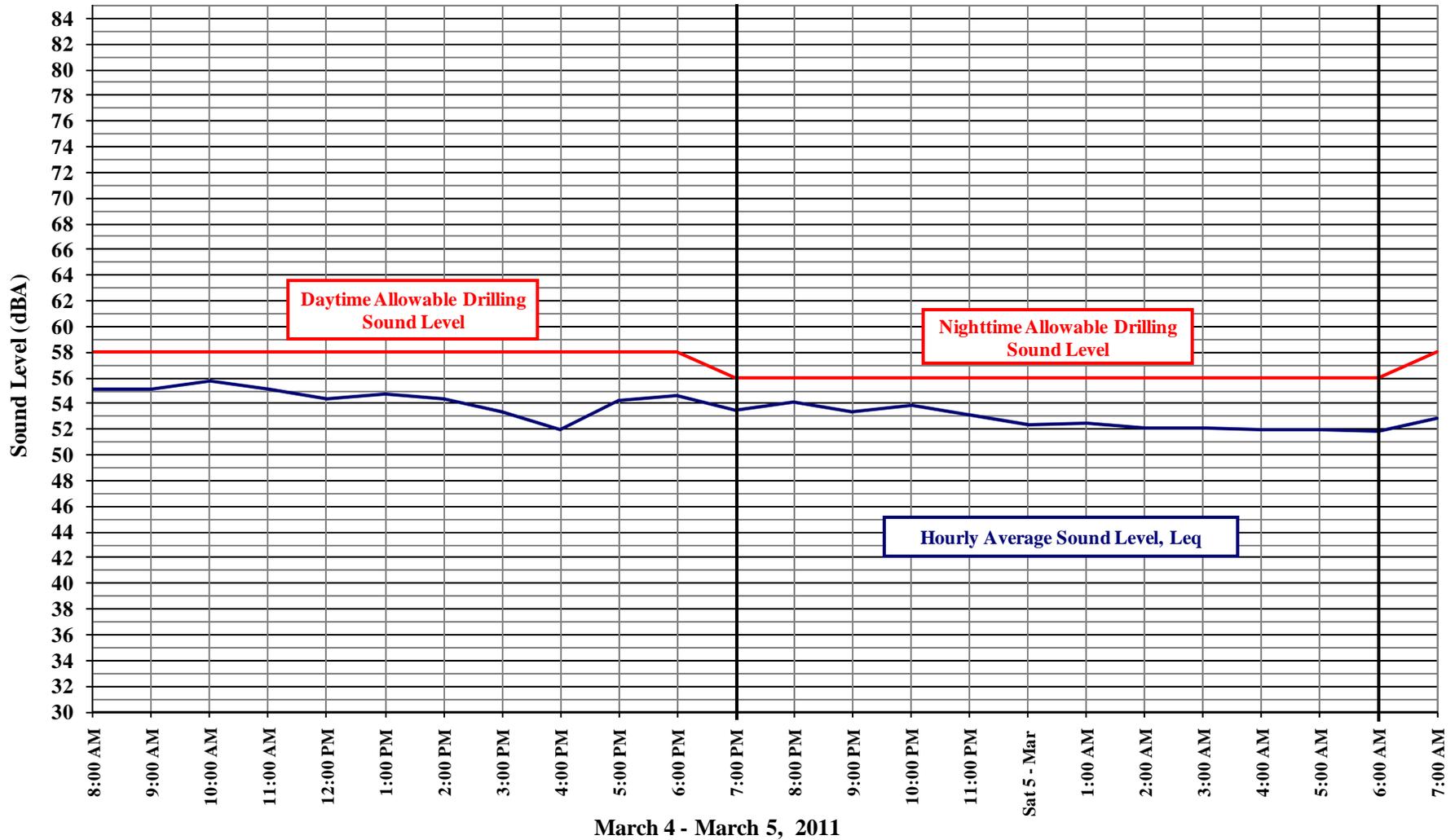
Very truly yours,

Don Behrens
President
95-4460624

Attachments



Titan Operating TCC 1HDrill Site Continuous Sound Level Monitoring

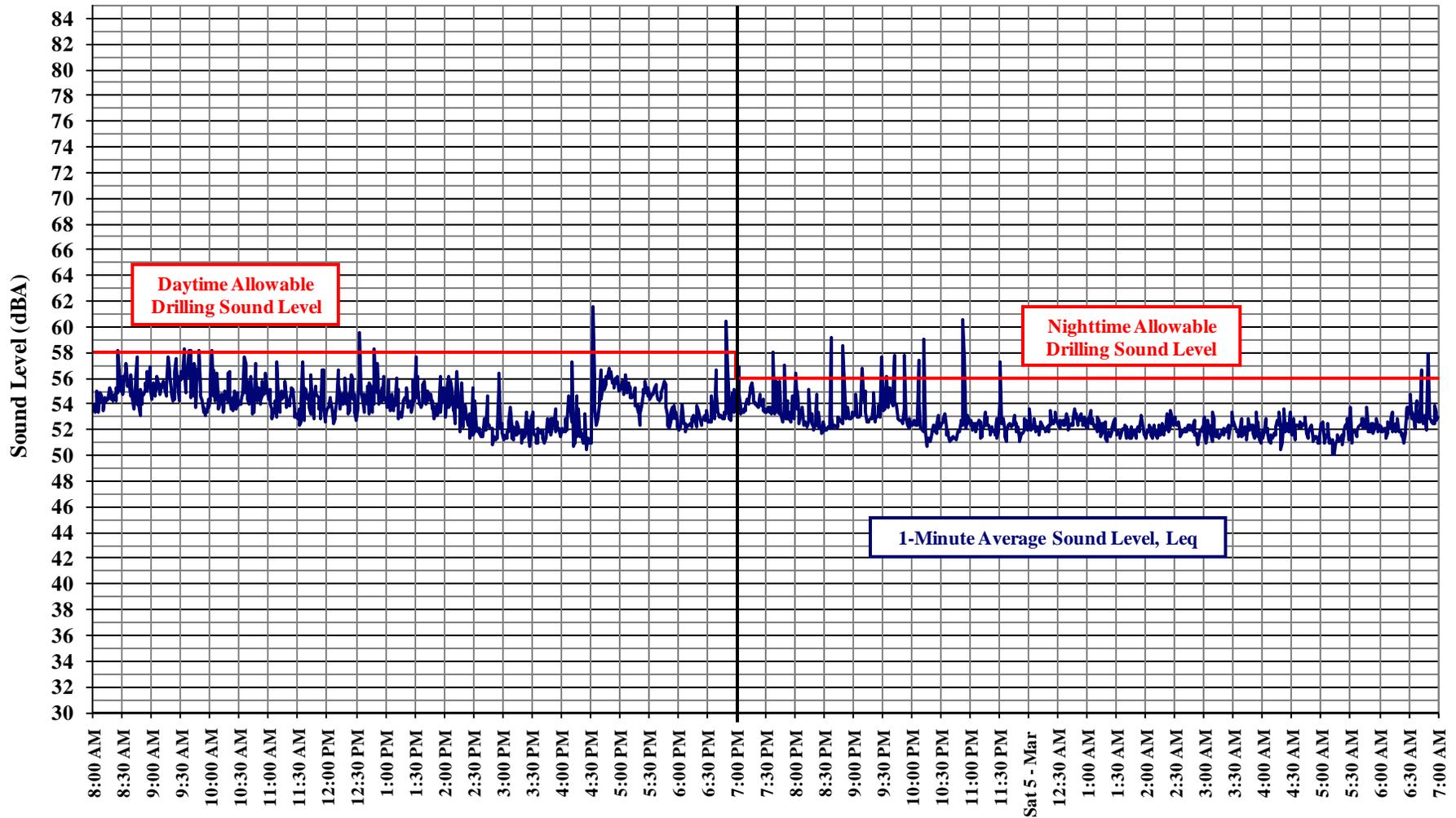


Behrens and Associates, Inc.

Environmental Noise Control



Titan Operating TCC 1H Drill Site Continuous Sound Level Monitoring



March 4 - March 5, 2011

Behrens and Associates, Inc.

Environmental Noise Control



March 6, 2011

Titan Operating, LLC
111 West 4th Street STE 300
Fort Worth, Texas 76102

Attention: Tom Strother

Subject: TCC 1H Pad Site Continuous Operational Sound Level Survey

Dear Mr. Strother:

Please find the attached chart displaying the measured operational sound levels at the TCC 1H pad site in Colleyville, TX, from Saturday, March 5, to Sunday, March 6, 2011. The chart displays the measured hourly average sound levels.

Please contact me if you have any questions or comments.

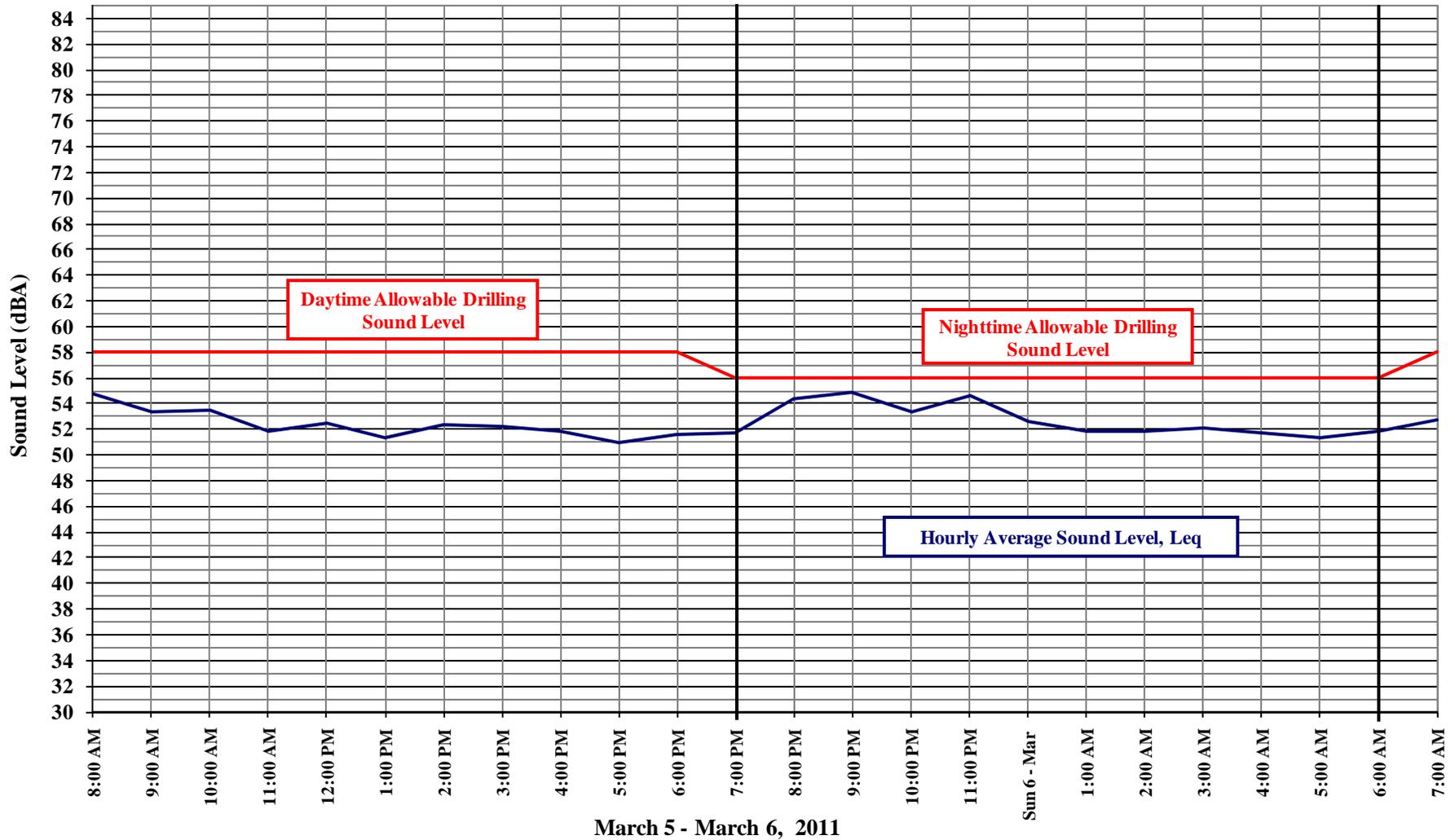
Very truly yours,

Don Behrens
President
95-4460624

Attachments

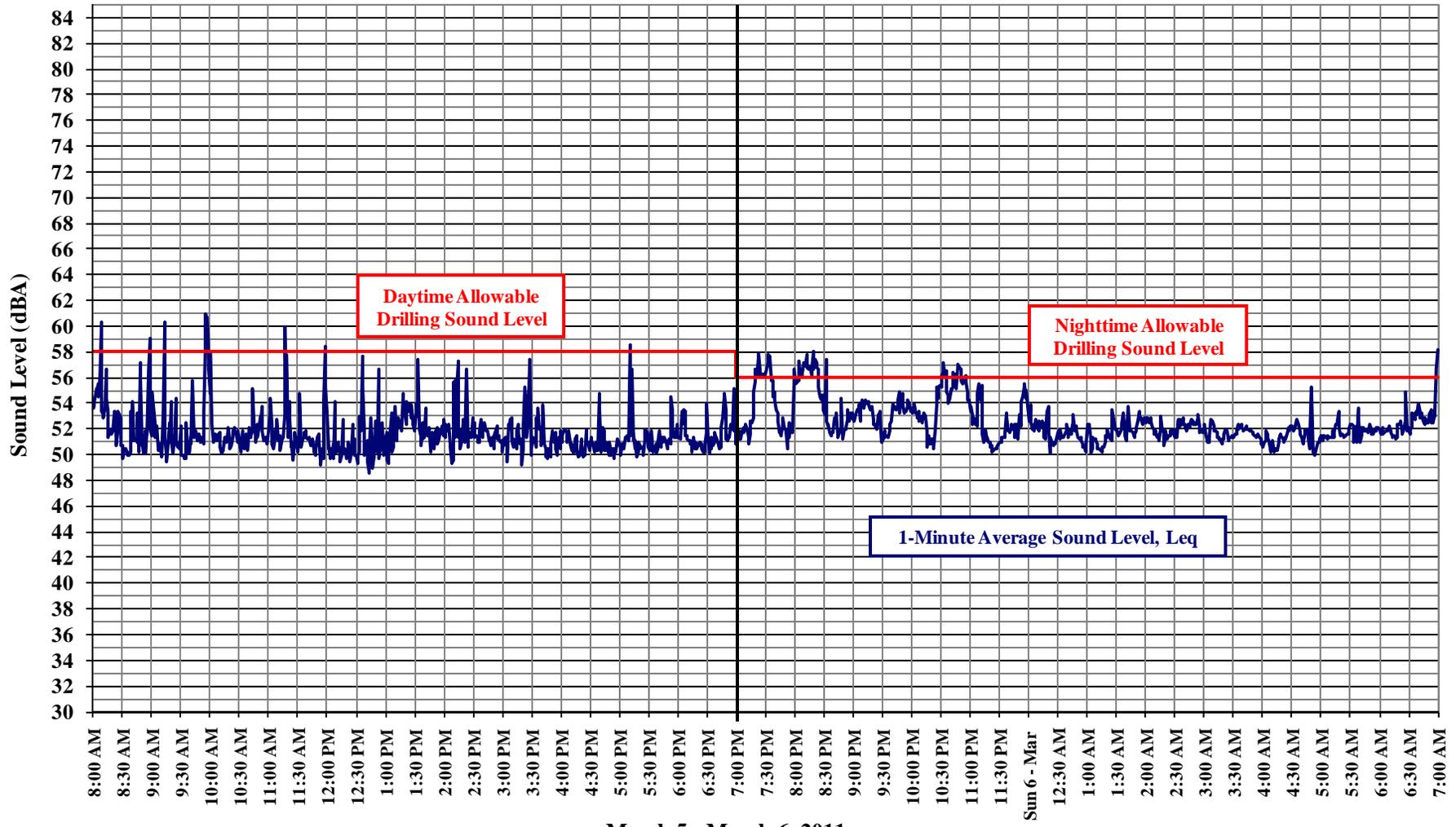


Titan Operating TCC 1H Drill Site Continuous Sound Level Monitoring





Titan Operating TCC 1H Drill Site Continuous Sound Level Monitoring



March 5 - March 6, 2011

Behrens and Associates, Inc.

Environmental Noise Control



March 7, 2011

Titan Operating, LLC
111 West 4th Street STE 300
Fort Worth, Texas 76102

Attention: Tom Strother

Subject: TCC 1H Pad Site Continuous Operational Sound Level Survey

Dear Mr. Strother:

Please find the attached chart displaying the measured operational sound levels at the TCC 1H pad site in Colleyville, TX, from Sunday, March 6, to Monday, March 7, 2011. The chart displays the measured hourly average sound levels.

Please contact me if you have any questions or comments.

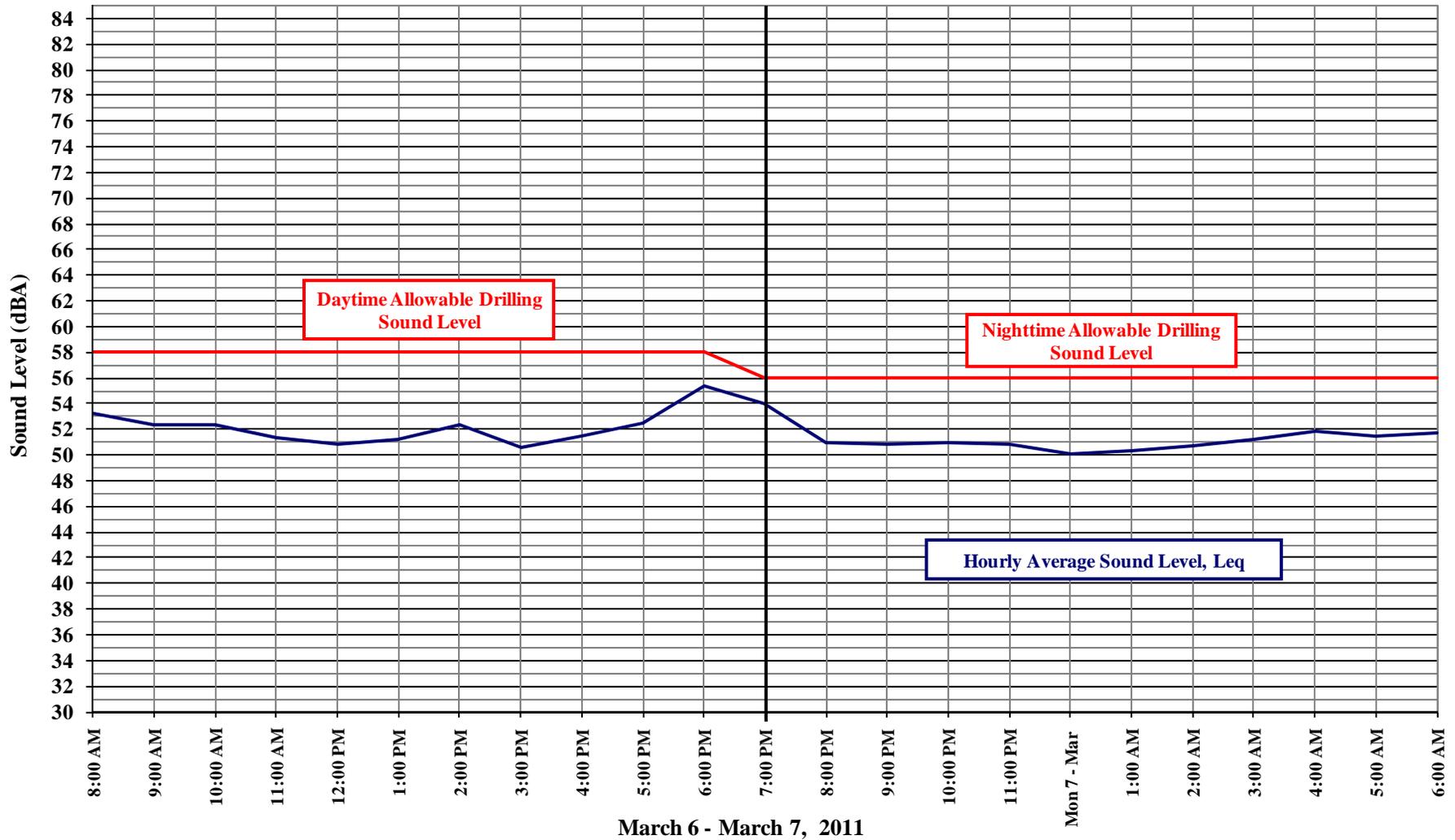
Very truly yours,

Don Behrens
President
95-4460624

Attachments

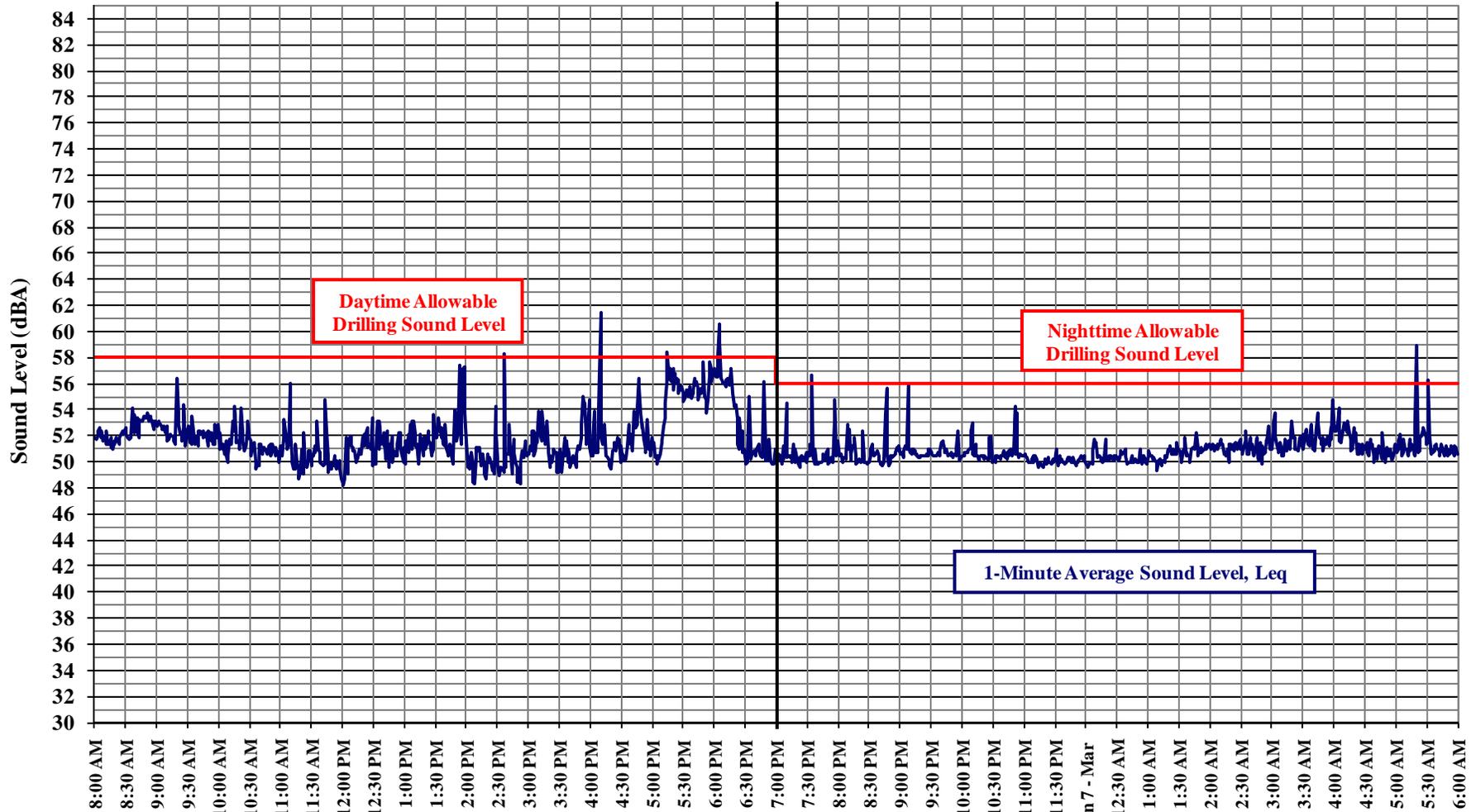


Titan Operating TCC 1HDrill Site Continuous Sound Level Monitoring





Titan Operating TCC 1H Drill Site Continuous Sound Level Monitoring



March 6 - March 7, 2011

Behrens and Associates, Inc.

Environmental Noise Control



March 8, 2011

Titan Operating, LLC
111 West 4th Street STE 300
Fort Worth, Texas 76102

Attention: Tom Strother

Subject: TCC 1H Pad Site Continuous Operational Sound Level Survey

Dear Mr. Strother:

Please find the attached charts displaying the measured operational sound levels at the TCC 1H pad site in Colleyville, TX, from Monday, March 7, to Tuesday, March 8, 2011. The charts display the measured hourly average sound levels and the 1-minute average (Leq) sound levels at Monitoring Location #1 (at pad site), and at Monitoring Location #2 (west of drill site).

The measured hourly sound levels were briefly out of compliance with the allowable drilling sound levels at Monitoring Location #1 during the monitoring period. Review of an audio recording made during the monitoring period revealed off-site noise from air traffic in the vicinity of the monitoring location as well as high winds, as the cause of the elevated sound levels.

Please contact me if you have any questions or comments.

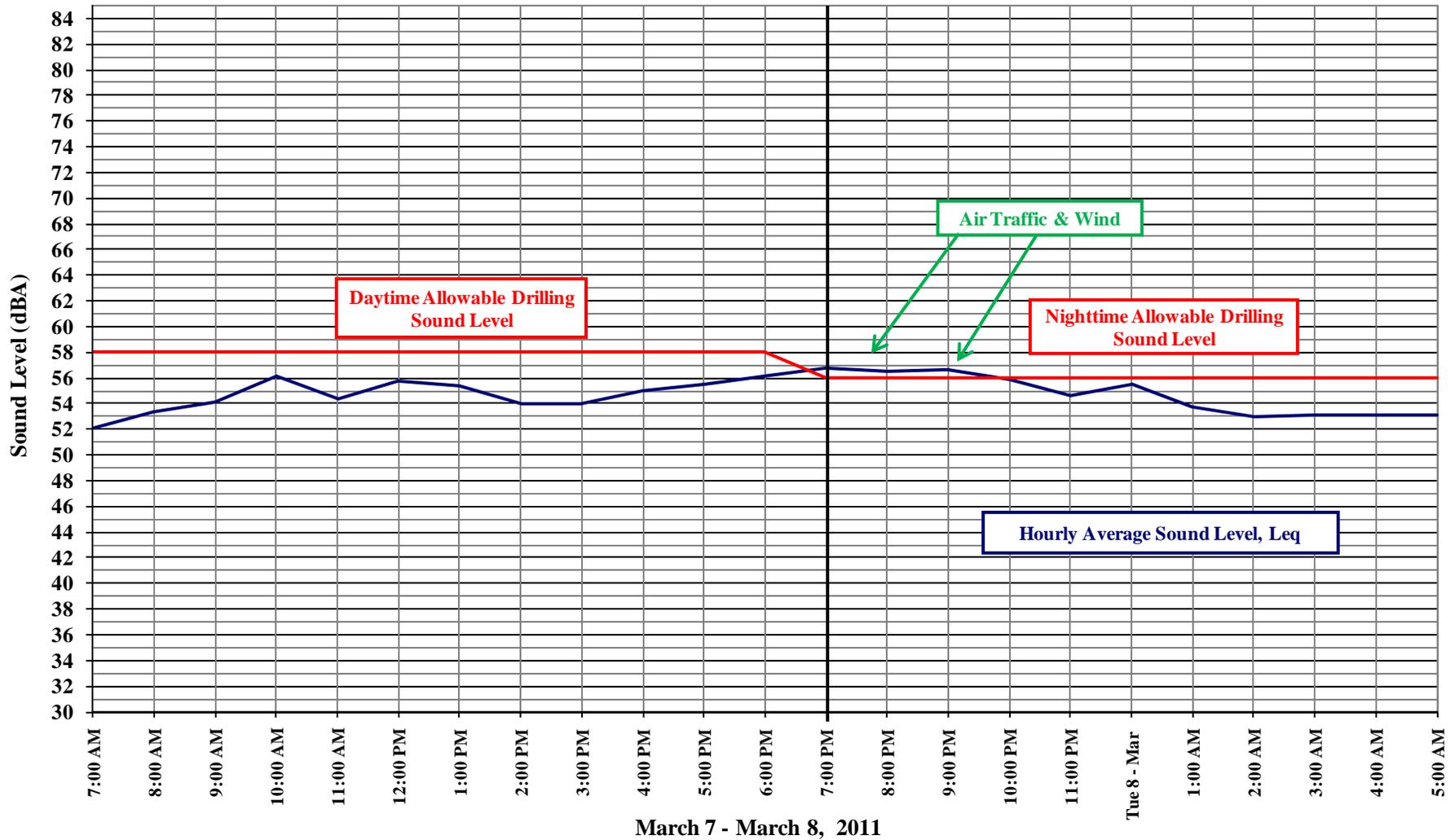
Very truly yours,

Don Behrens
President
95-4460624

Attachments

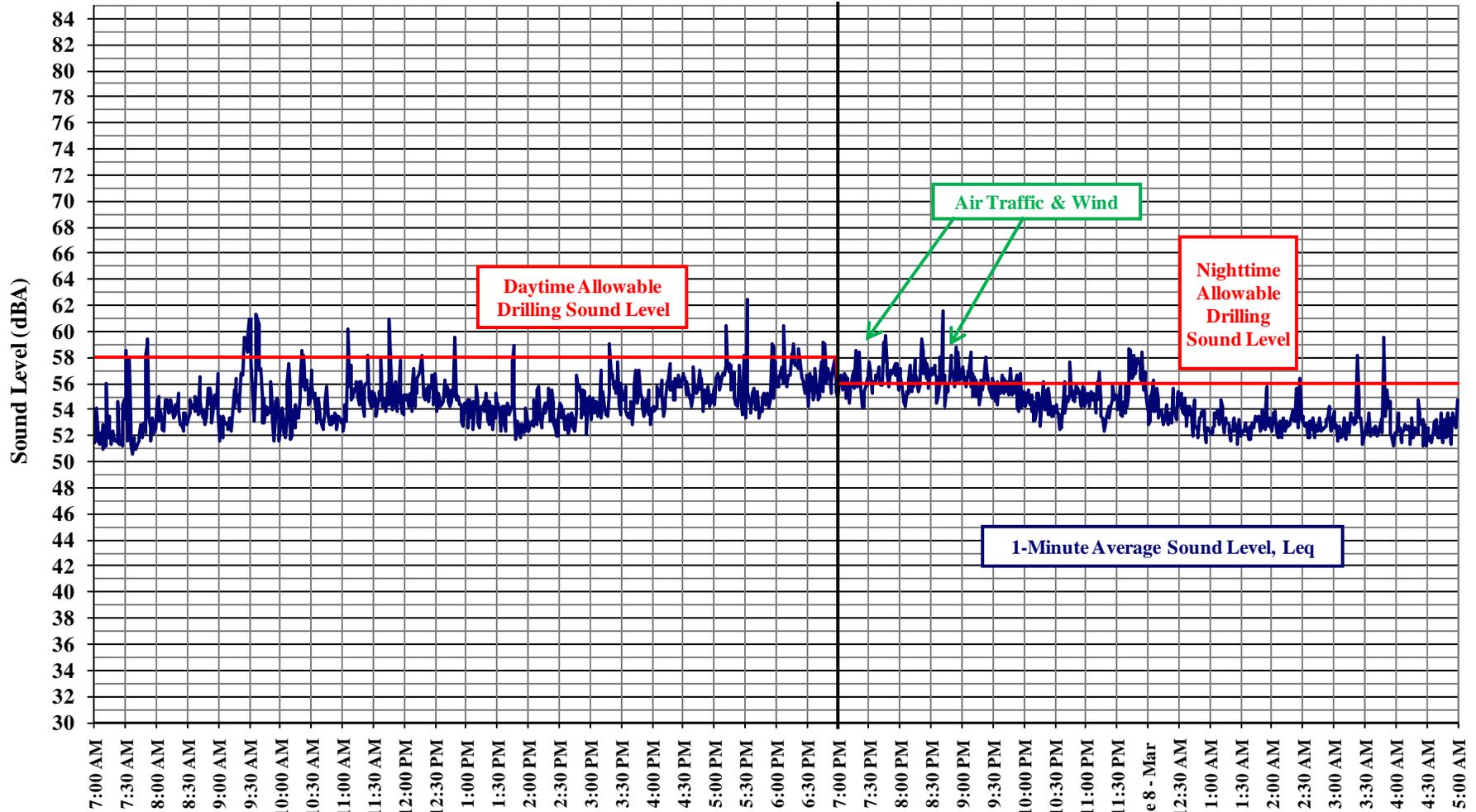


Titan Operating TCC 1H Drill Site - Monitoring Location #1 Continuous Sound Level Monitoring





Titan Operating TCC 1H Drill Site - Monitoring Location #1 Continuous Sound Level Monitoring



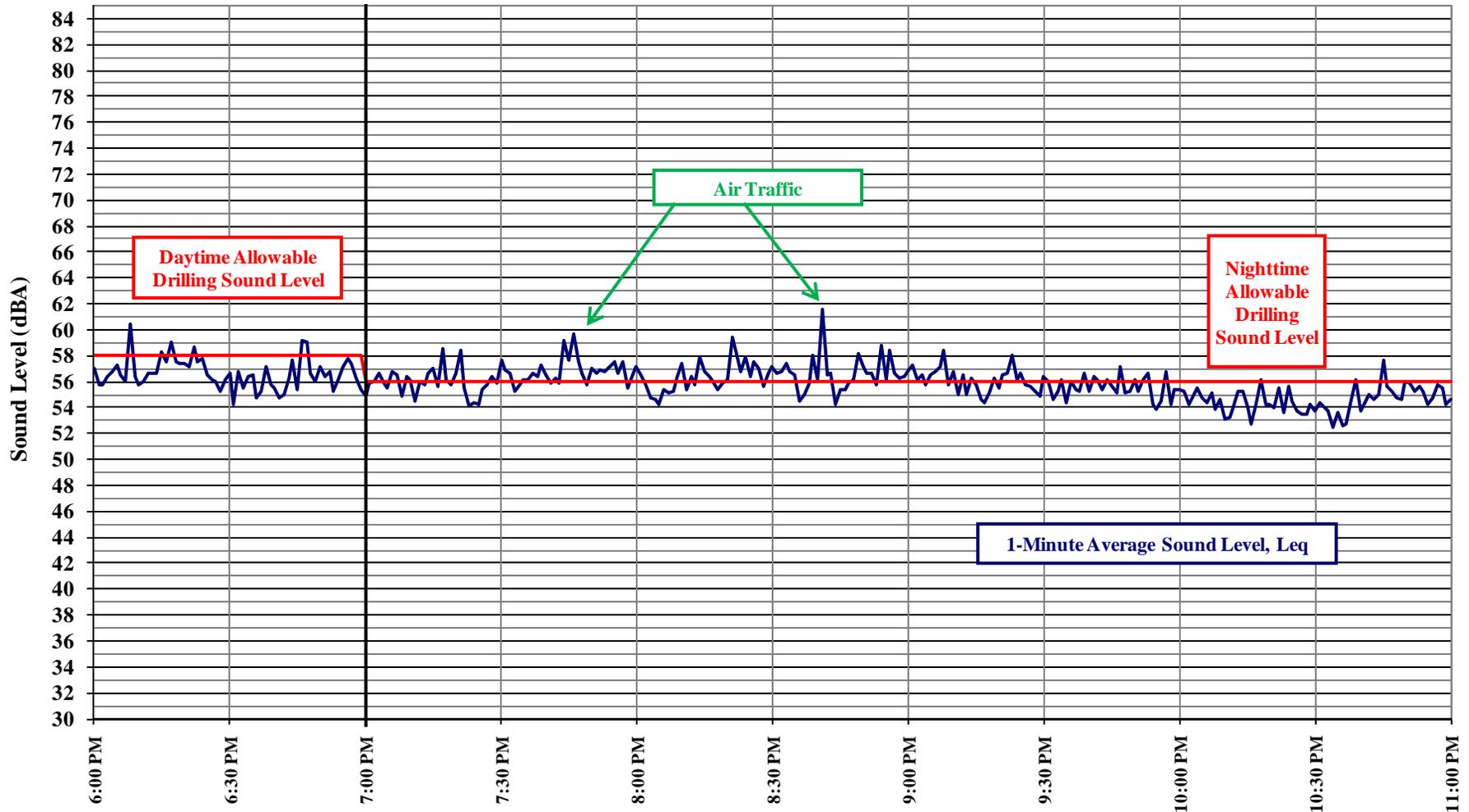
March 7 - March 8, 2011

Behrens and Associates, Inc.

Environmental Noise Control



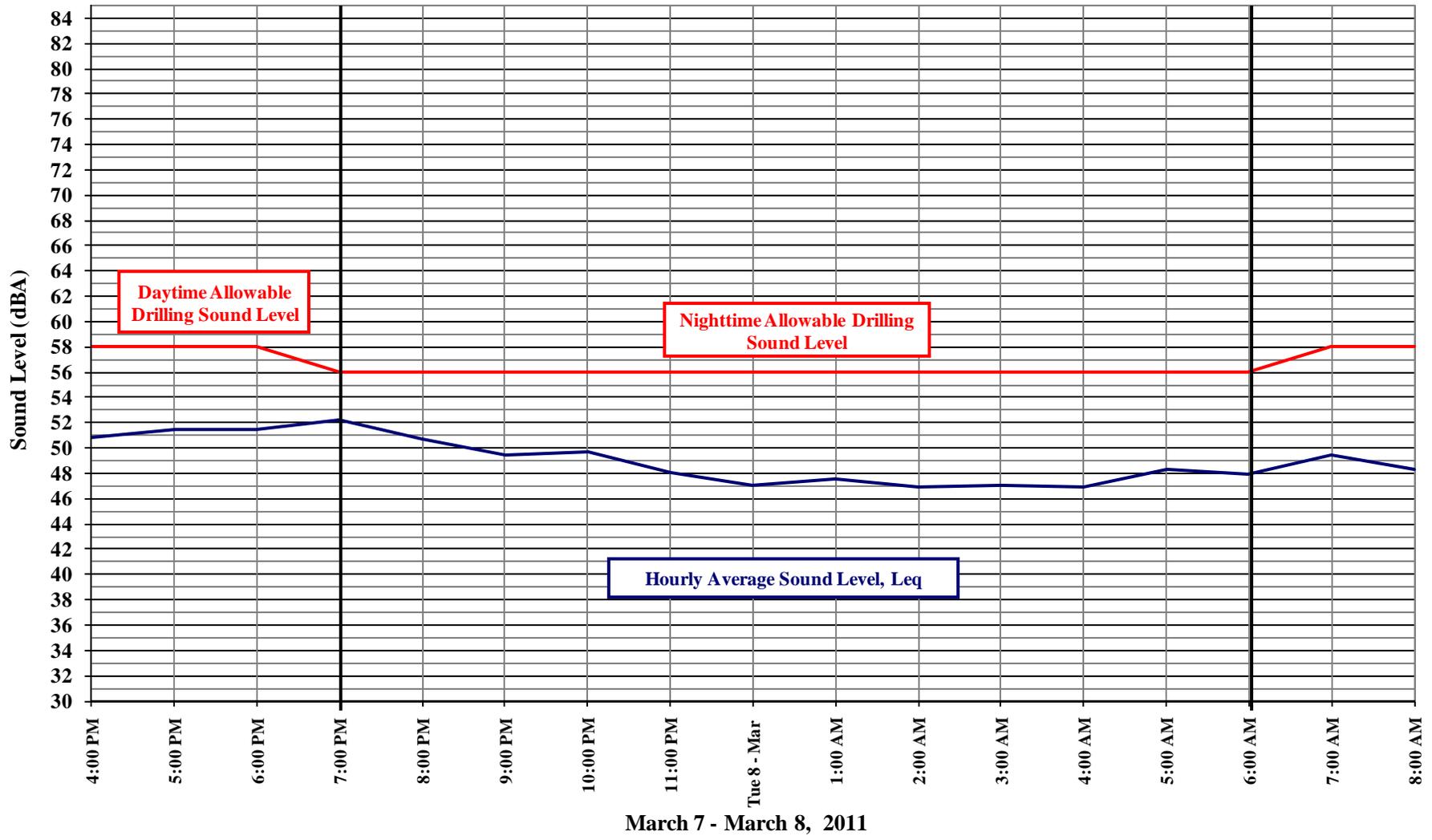
Titan Operating TCC 1H Drill Site - Monitoring Location #1 Continuous Sound Level Monitoring



6:00 PM - 11:00 PM, March 7, 2011

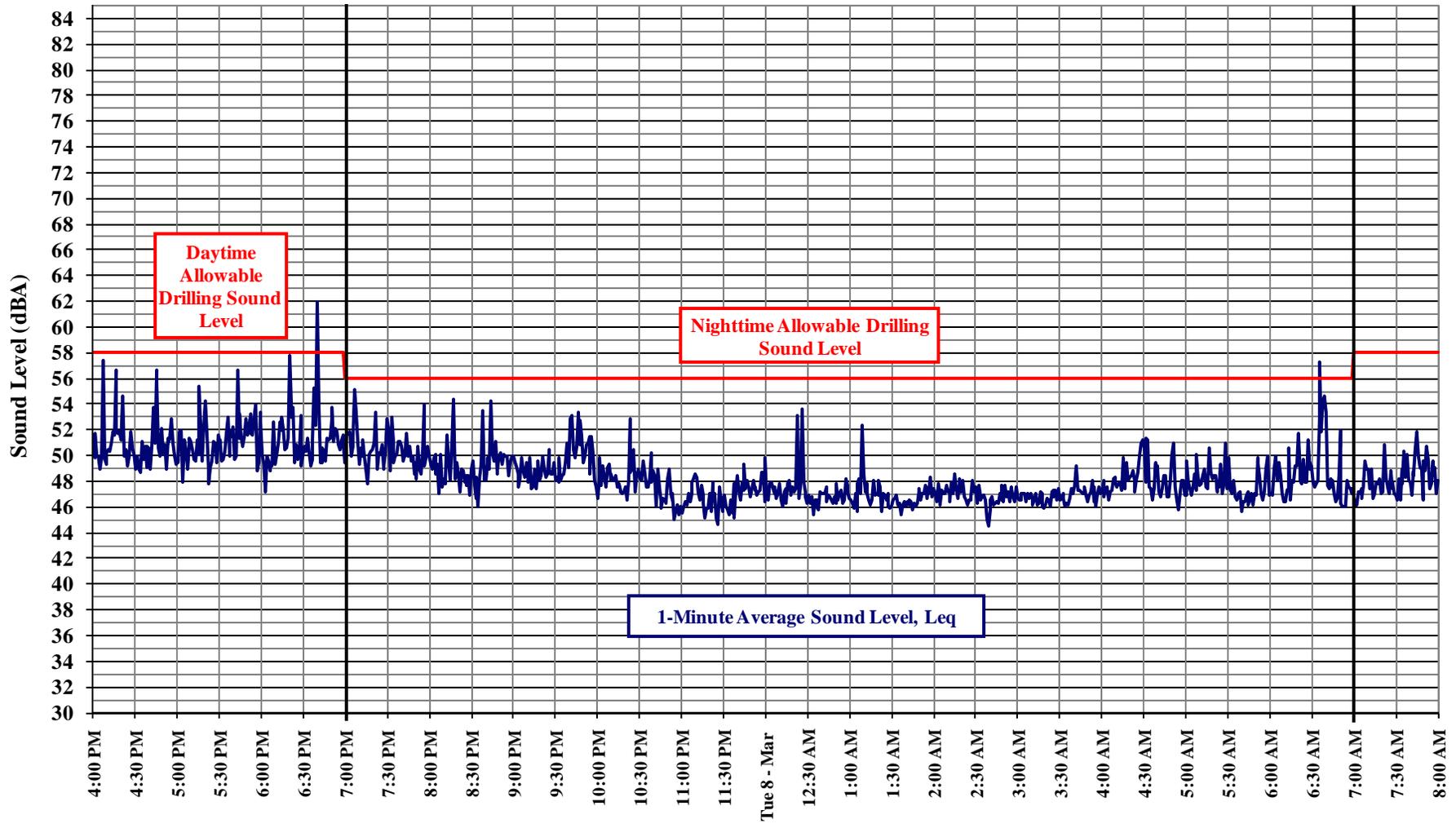


Titan Operating TCC 1H Drill Site - Monitoring Location #2 Continuous Sound Level Monitoring





Titan Operating TCC 1H Drill Site - Monitoring Location #2 Continuous Sound Level Monitoring



March 7 - March 8, 2011

Behrens and Associates, Inc.

Environmental Noise Control



March 9, 2011

Titan Operating, LLC
111 West 4th Street STE 300
Fort Worth, Texas 76102

Attention: Tom Strother

Subject: TCC 1H Drill Site Continuous Operational Sound Level Survey

Dear Mr. Strother:

Please find the attached charts displaying the measured operational sound levels at the TCC 1H drill site in Colleyville, TX, from Tuesday, March 8, to Wednesday, March 9, 2011. The charts display the measured hourly average sound levels and the 1-minute average (Leq) sound levels at Monitoring Location #1 (at pad site), and at Monitoring Location #2 (west of drill site).

The measured hourly sound levels were out of compliance with the allowable drilling sound levels at both monitoring locations during the monitoring period. At Monitoring Location #1, the measured sound levels were out compliance during the 4:00 PM hour on Tuesday, March 8, 2011. Review of an audio recording made during the monitoring period revealed off-site noise from a bird in the vicinity of the monitoring location as the cause of the elevated sound levels. Monitoring Location #2 was out of compliance with the allowable drilling sound levels during the 7:00 PM hour on Tuesday, March 8, 2011. Review of an audio recording made during the monitoring period revealed off-site noise from air traffic in the vicinity of the monitoring location as the cause of the elevated sound levels.

Please contact me if you have any questions or comments.

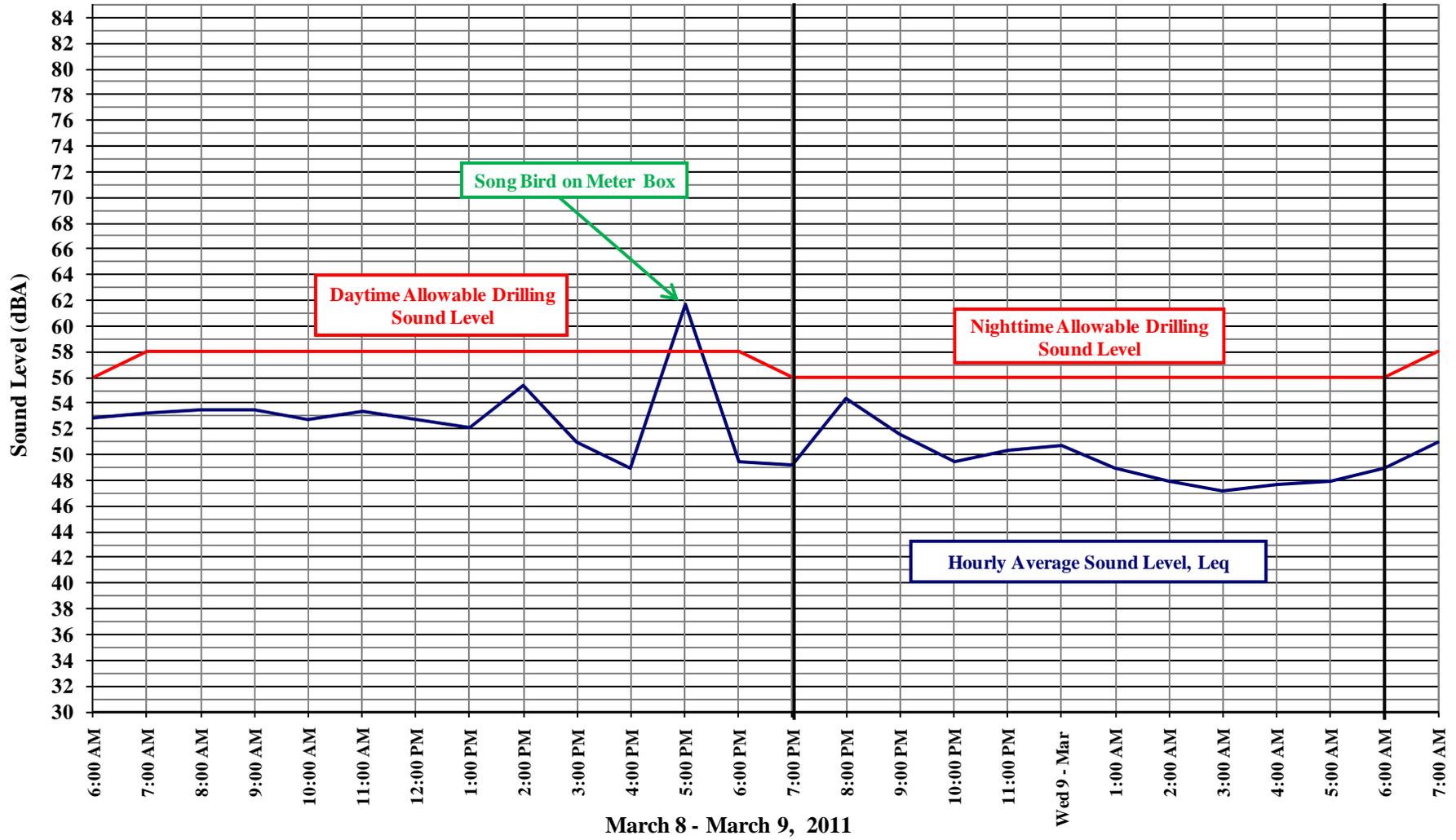
Very truly yours,

Don Behrens
President
95-4460624

Attachments

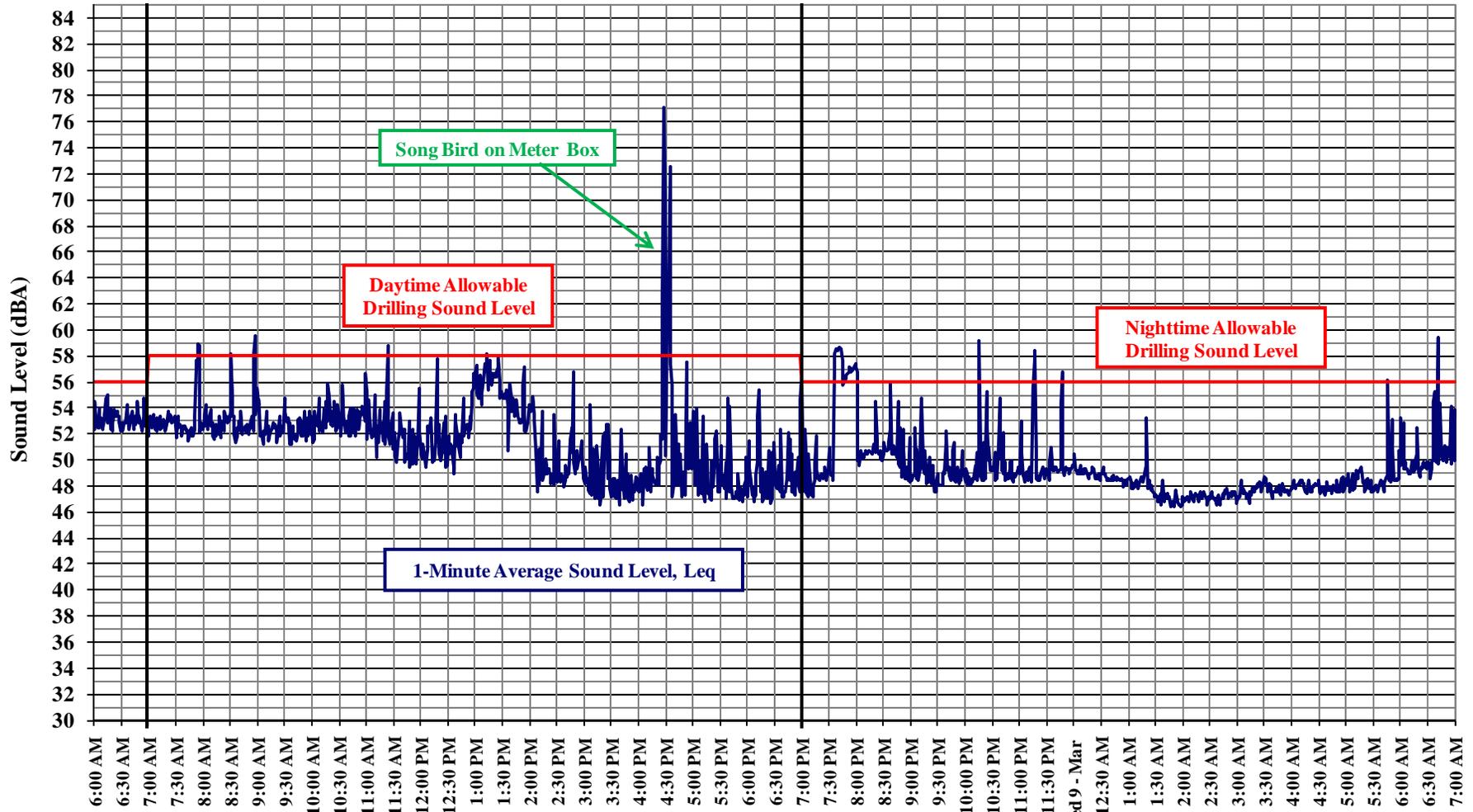


Titan Operating TCC 1H Drill Site - Monitoring Location #1 Continuous Sound Level Monitoring





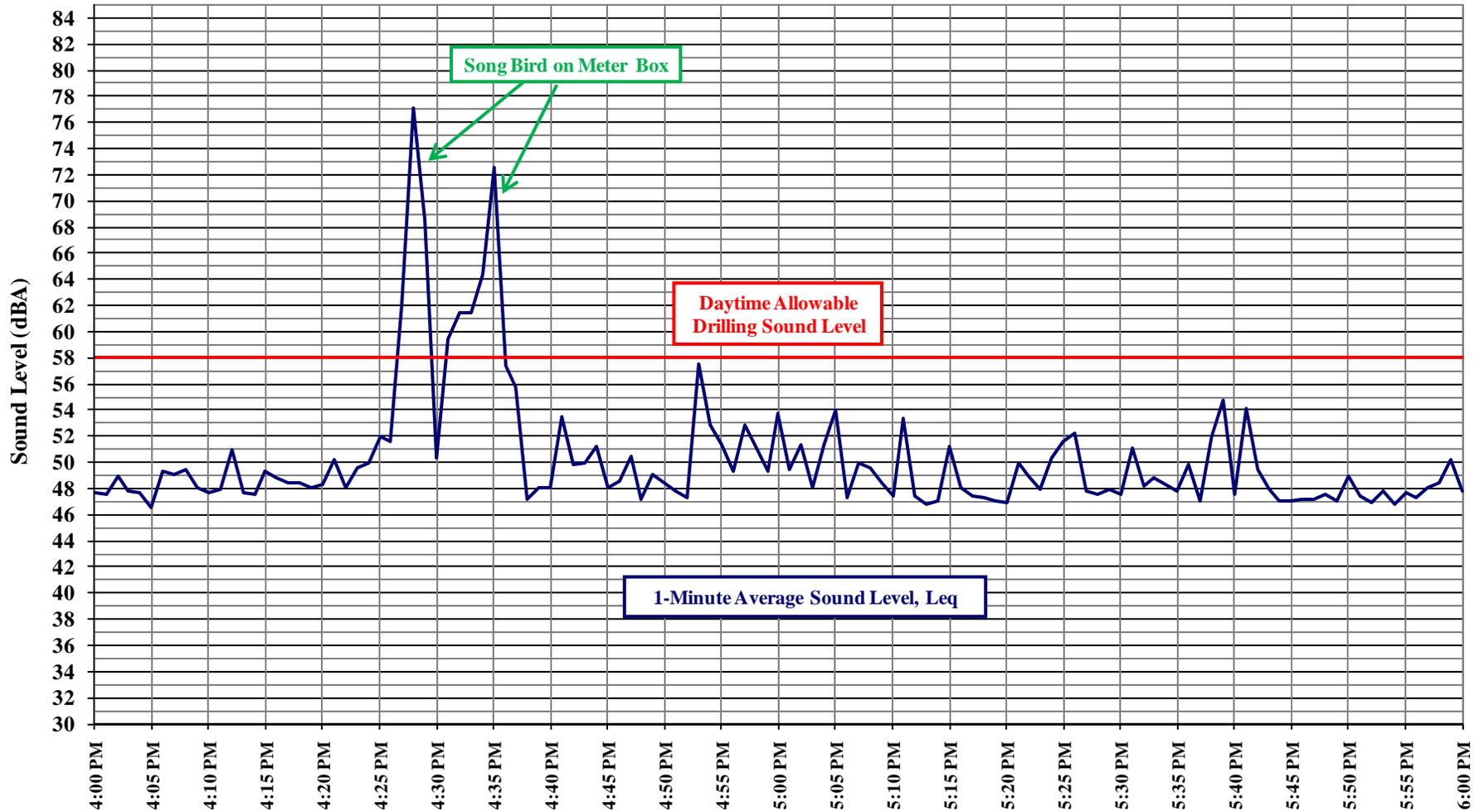
Titan Operating TCC 1H Drill Site - Monitoring Location #1 Continuous Sound Level Monitoring



March 8 - March 9, 2011



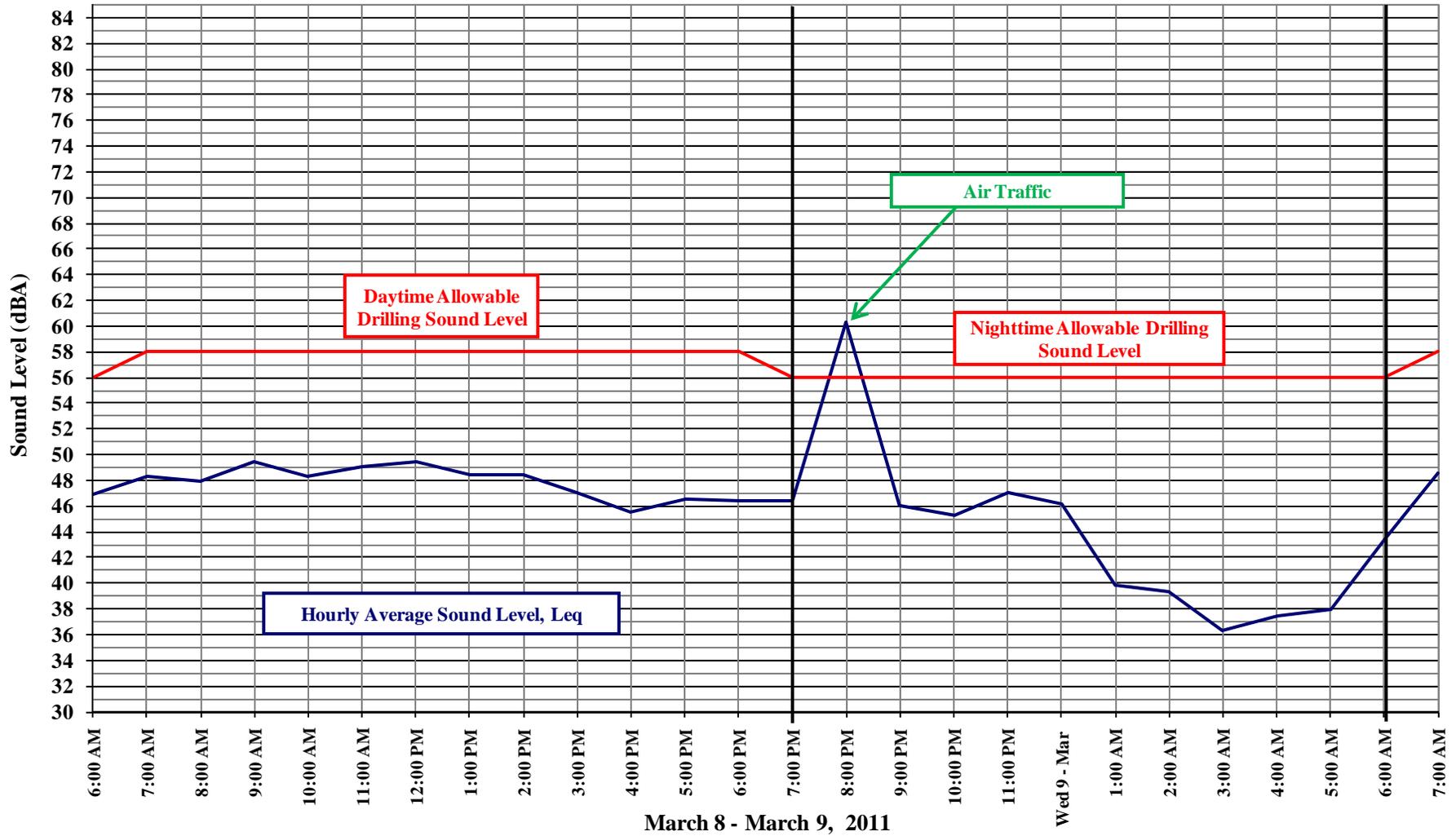
Titan Operating
TCC 1H Drill Site - Monitoring Location #1
Continuous Sound Level Monitoring



4:00 PM - 6:00 PM, March 8, 2011

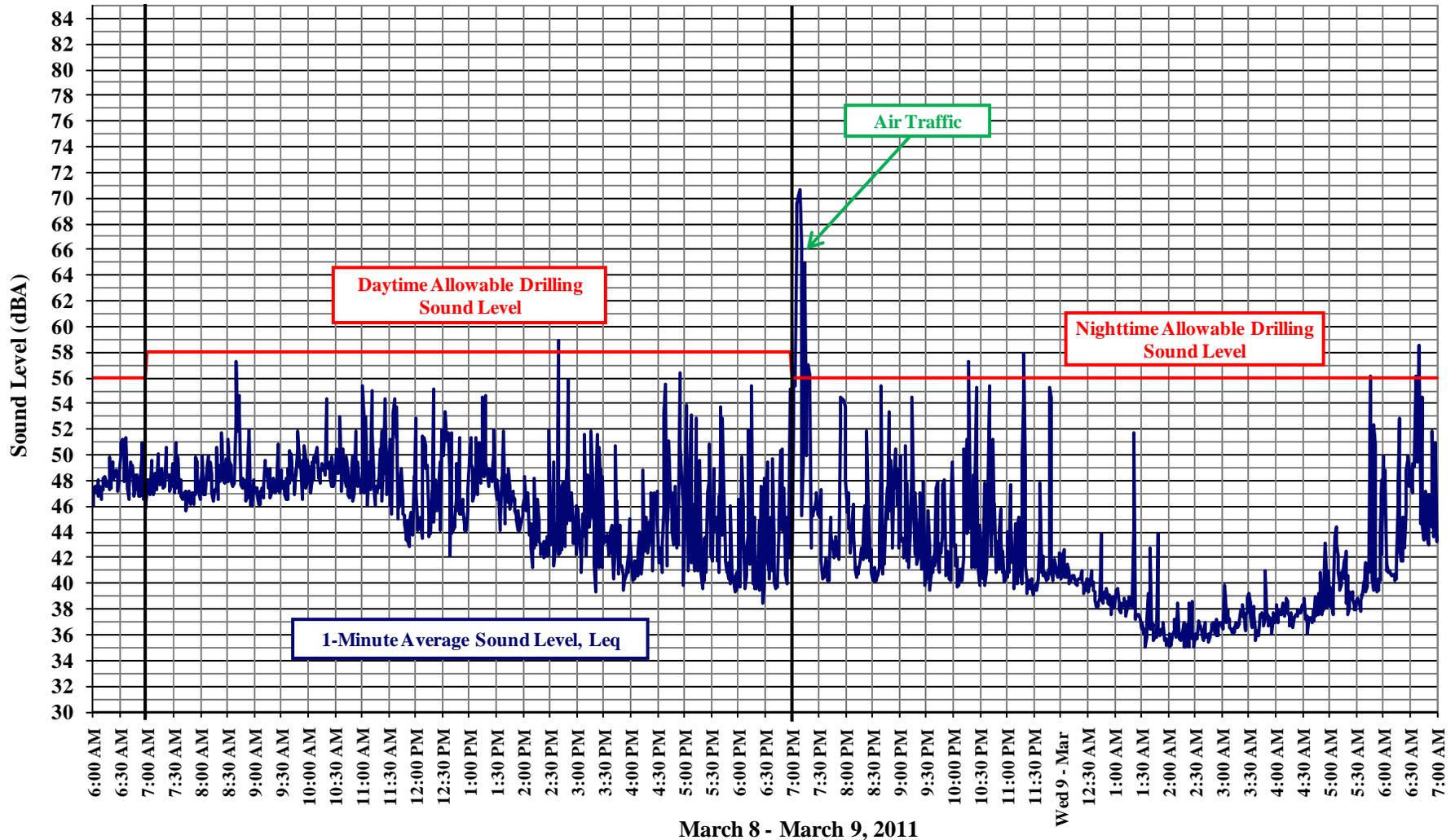


Titan Operating TCC 1H Drill Site - Monitoring Location #2 Continuous Sound Level Monitoring



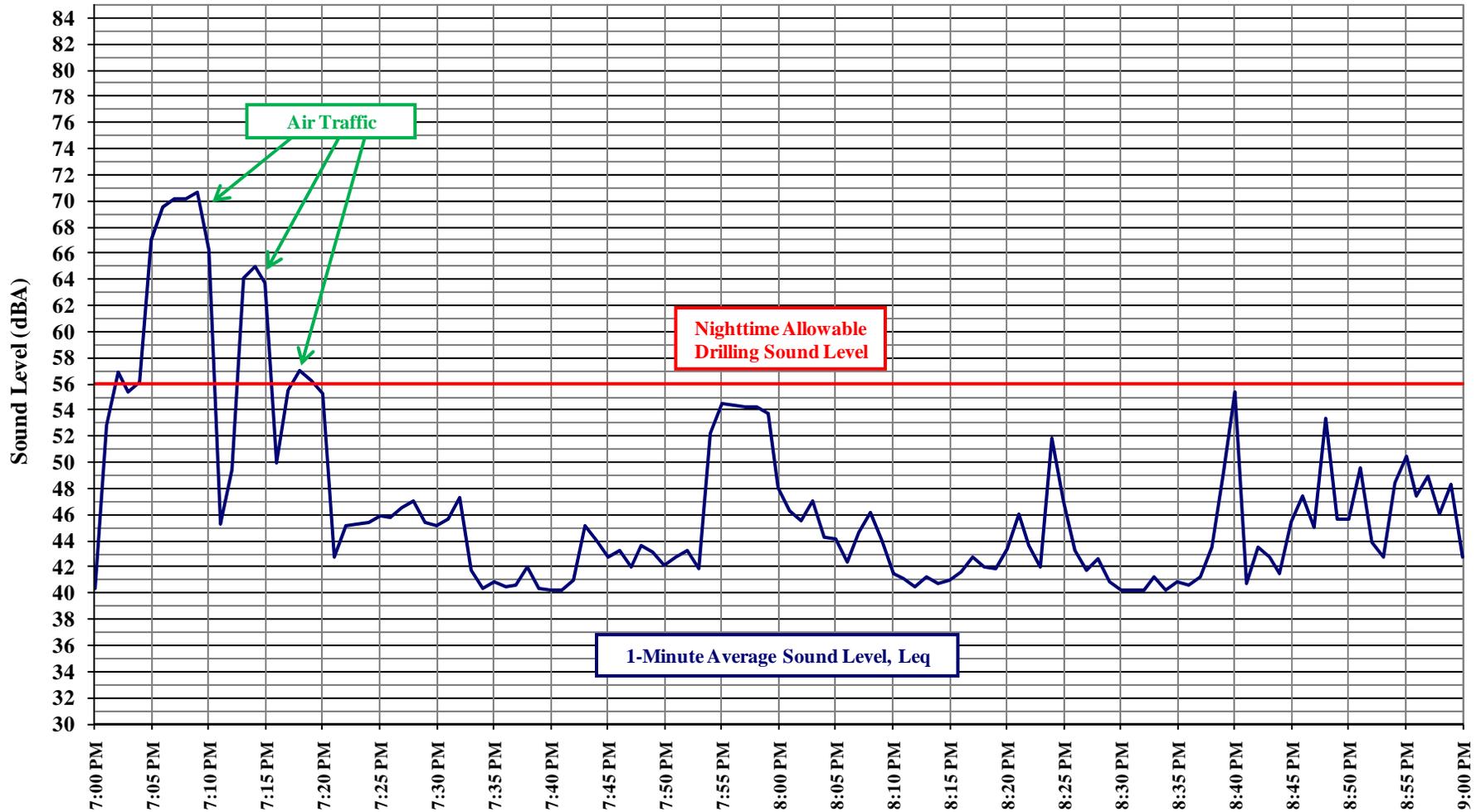


Titan Operating TCC 1H Drill Site - Monitoring Location #2 Continuous Sound Level Monitoring





Titan Operating TCC 1H Drill Site - Monitoring Location #2 Continuous Sound Level Monitoring



7:00 PM - 9:00 PM, March 8, 2011

Behrens and Associates, Inc.

Environmental Noise Control



March 10, 2011

Titan Operating, LLC
111 West 4th Street STE 300
Fort Worth, Texas 76102

Attention: Tom Strother

Subject: TCC 1H Drill Site Continuous Operational Sound Level Survey

Dear Mr. Strother:

Please find the attached charts displaying the measured operational sound levels at the TCC 1H drill site in Colleyville, TX, from Wednesday, March 9, to Thursday, March 10, 2011. The charts display the measured hourly average sound levels and the 1-minute average (Leq) sound levels at Monitoring Location (west of drill site).

Please contact me if you have any questions or comments.

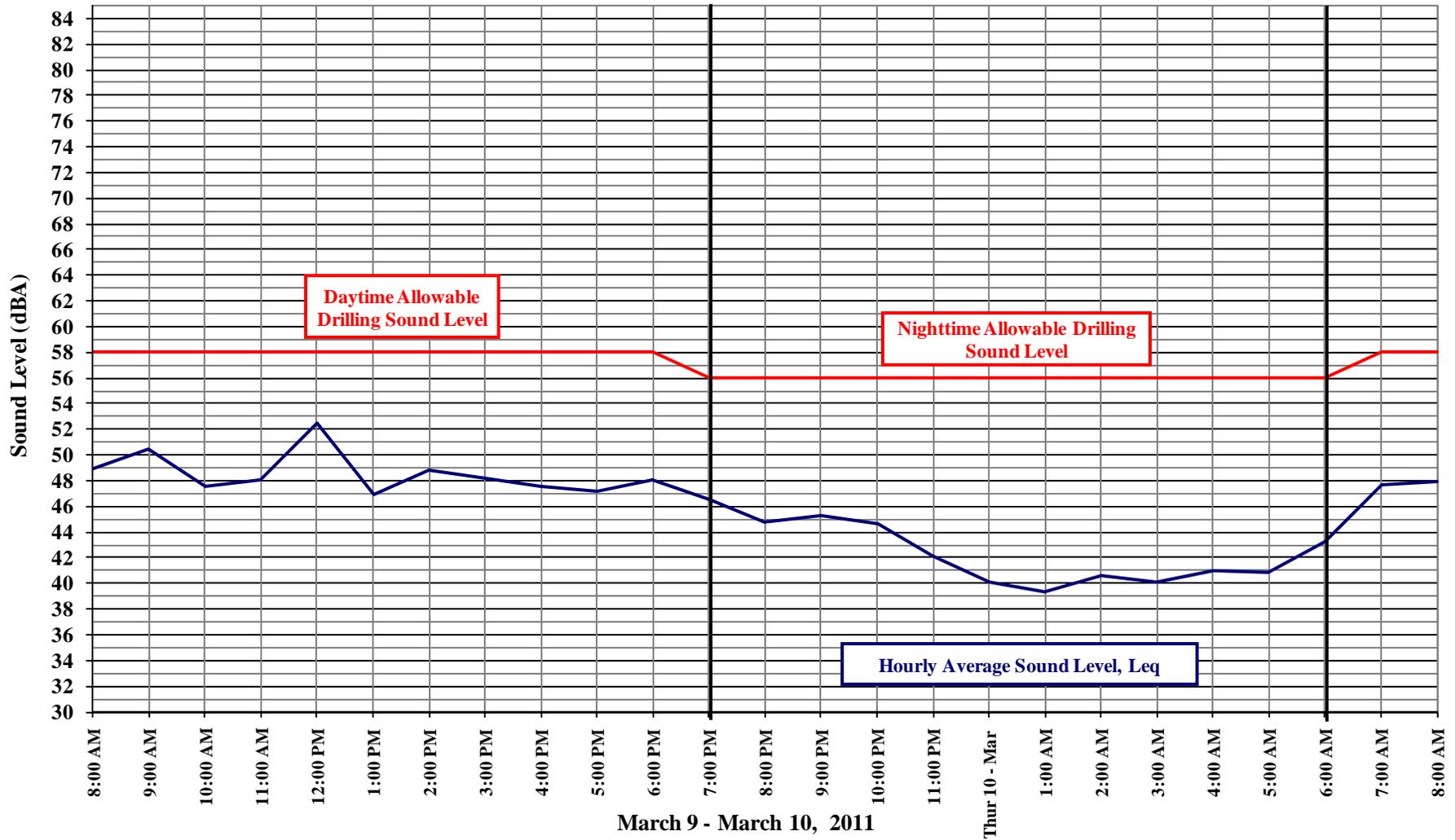
Very truly yours,

Don Behrens
President
95-4460624

Attachments



Titan Operating TCC 1H Drill Site - Monitoring Location #2 Continuous Sound Level Monitoring





Titan Operating TCC 1H Drill Site - Monitoring Location #2 Continuous Sound Level Monitoring

