

Audio Editing Tips: 3 Easy Steps to Better Voice Recordings

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Why edit?



Edit for **better sound.**

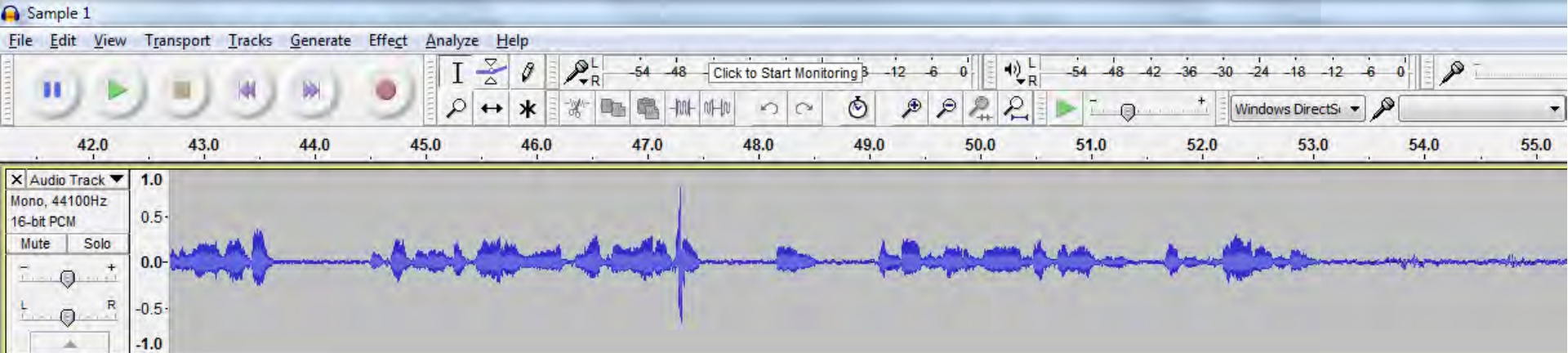


Edit to **improve timing.**



Edit for easier recording.





<http://audacityteam.org>

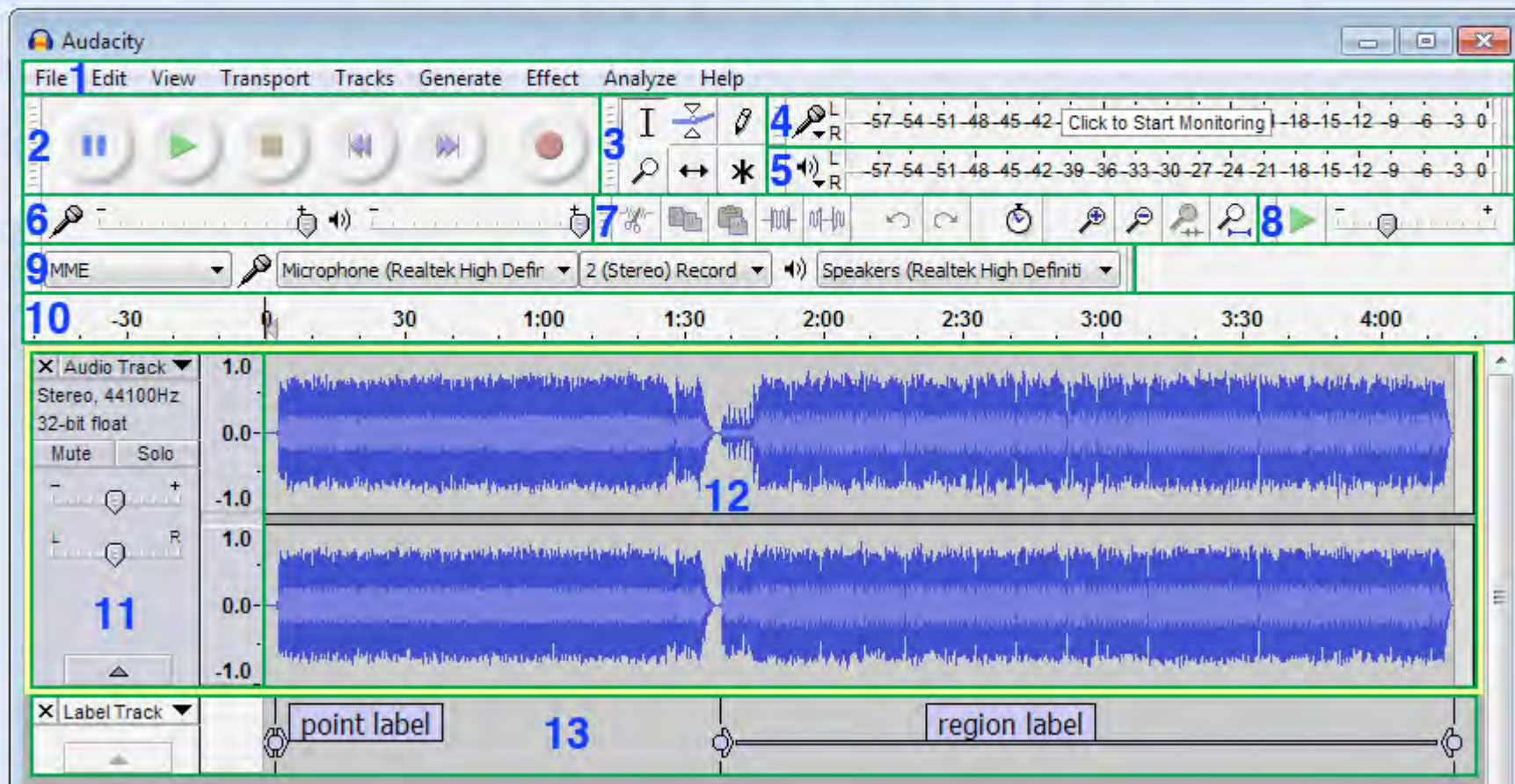
Project Rate (Hz): 44100 Snap To: Nearest Selection Start: 00 h 00 m 00.000 s End: 00 h 00 m 00.000 s Length: 00 h 00 m 00.000 s Audio Position: 00 h 00 m 00.000 s

Stopped.

Guide to the Audacity Project Window

- 1** Menu Bar **2** Transport Toolbar **3** Tools Toolbar **4** Recording Meter Toolbar **5** Playback Meter Toolbar **6** Mixer Toolbar
7 Edit Toolbar **8** Transcription Toolbar **9** Device Toolbar **10** Timeline **11** Track Control Panel
12 Audio Track **13** Label Track **14** Selection Toolbar **15** Status Bar

Hover over and click on the image to learn more. [Skip the image](#)





<http://audacityteam.org>

Tutorials

- [Editing an Audio File](#) - Import the file, edit and export it
- [Your First Recording](#) - Record microphone, guitar, keyboard
- [Mixing Voice with Background Music](#) - For podcasts
- [Recording Multi-track Overdubs](#) - Record over other tracks
- [Vocal Removal and Isolation](#)
- [Looping](#) - make an audio loop with Audacity
- [Making Ringtones](#) - For your cellphone
- [Recording streaming audio playing on the computer](#)
- [Copying tapes, LPs and other media to CD or computer](#)
- [Click and pop removal techniques](#)
- [Splitting a recording into separate tracks](#)
- [Burning Audio CDs](#) and [How to import CDs](#)
- [Exporting to iTunes](#) and [Importing from iTunes](#)
- [Sample workflow for LP digitization](#)
- [Sample workflow for exporting to iTunes](#)
- [Recording 78rpm records](#)

Using Audacity

Quick Help

- [Getting Started](#) - Recording, Importing, Editing, Exporting...

Audacity Foundations

- [Managing Audacity Projects](#) - Audacity's internal workspace
- [Audacity Setup and Configuration](#)
 - [Preferences](#) - changing your settings and [reset to default](#)
- [Toolbars Overview](#) - including how to arrange Toolbars
- [Audio Tracks, Waveform view and Spectrogram view](#)
- [Label Tracks](#)
- [Playing and Recording, Quick-Play and Scrubbing](#)
- [Importing audio and Exporting audio files](#) - For use in other programs
 - [LAME MP3 export](#) and [FFmpeg import/export](#) libraries for more formats
 - [On-Demand Loading](#) of uncompressed files
 - [Metadata Editor](#)
- [Navigation Tips, Playback Tips and Audio Alignment Tips](#)
- [Keyboard shortcuts](#)

Editing with Audacity

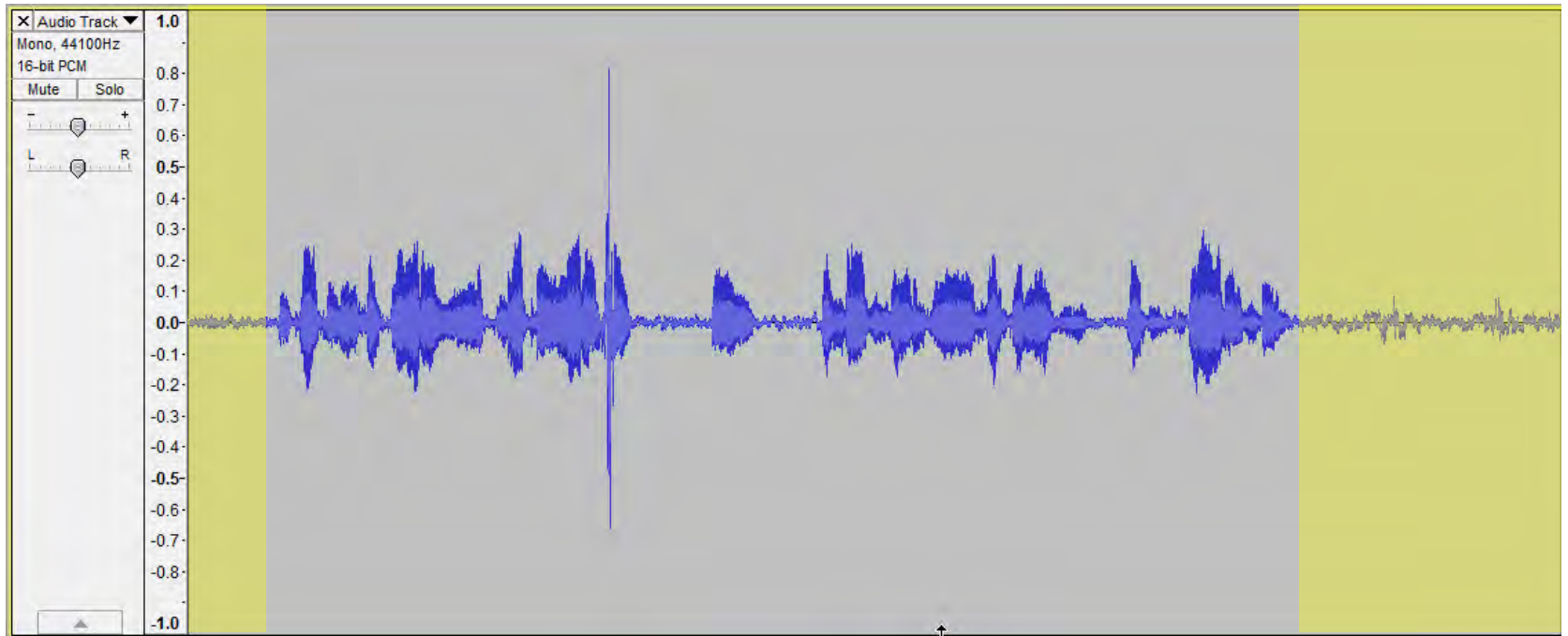
- [Selecting audio](#) and [Spectral Selection](#)
- [Clips](#) - individual sections within an audio track
- [Splitting and Joining Stereo Tracks](#)
- [Zooming](#)
- [Effects, Generators and Analyzers](#)
- [Creating a Crossfade](#)
- [Mixing Audio Tracks](#)
- [Undo, Redo and History](#)

Help with Advanced Topics

- [Sync-Locked Track Groups](#)
- [Accessibility](#) - Audacity for the visually impaired
- [Latency when recording overdubs](#)
- [Chains](#) - for batch processing and effects automation
- [Crash Recovery](#)
- [Customizing Audacity, Scripting and Simplifying Menus](#)

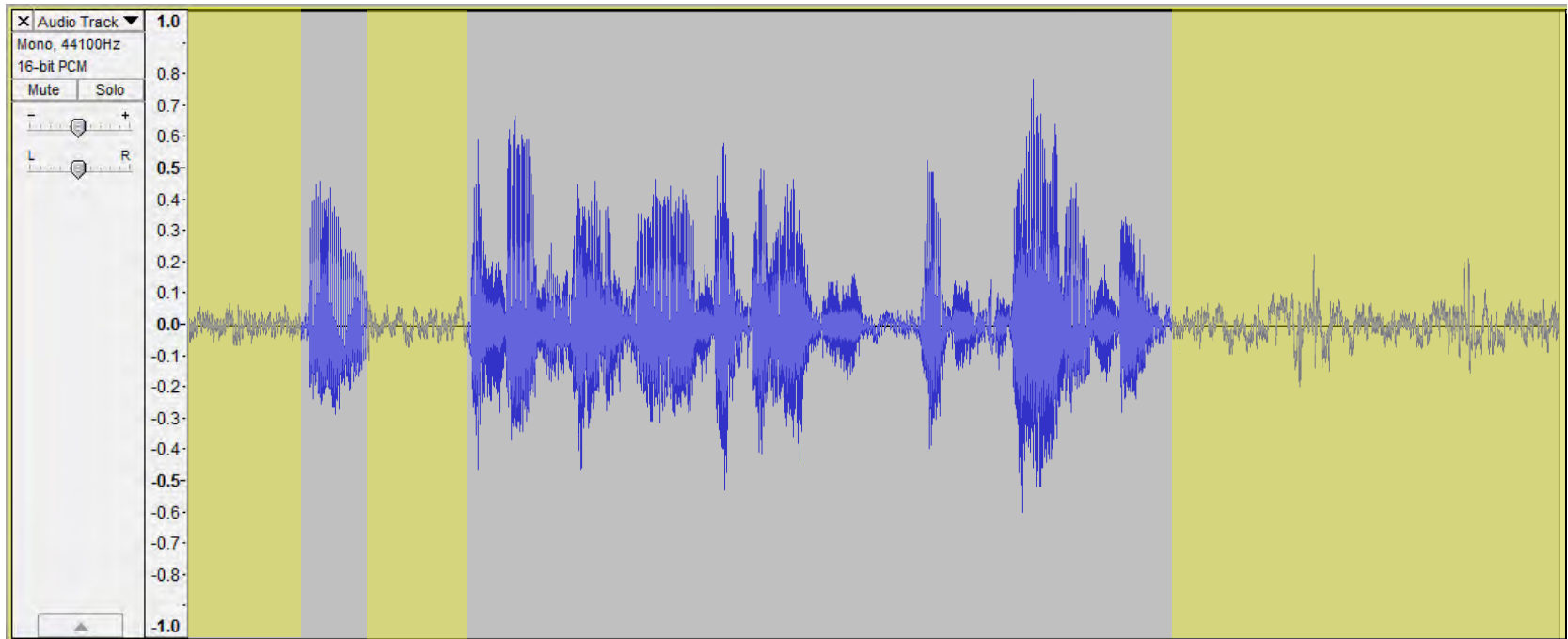
3 Big Steps

Big Step **1**



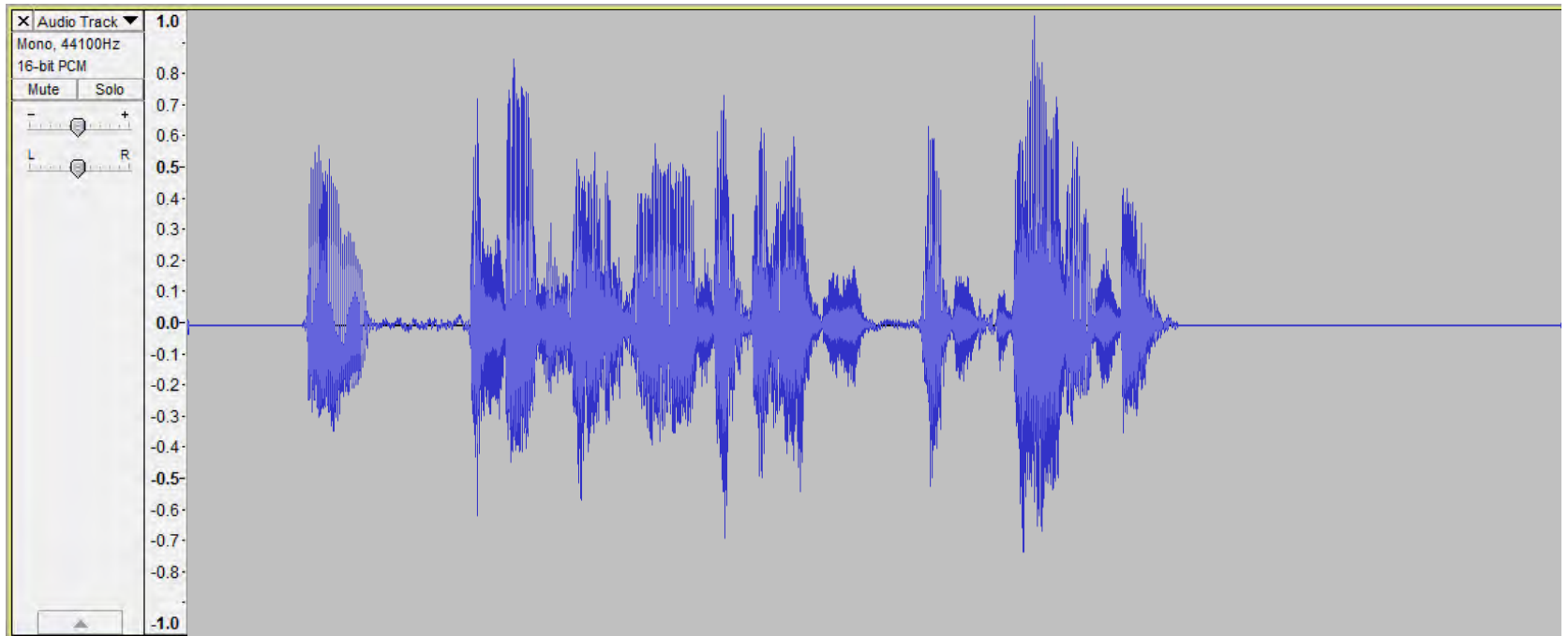
Trim Excess Material

Big Step 2



Reduce Noise

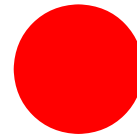
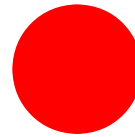
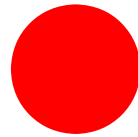
Big Step 3

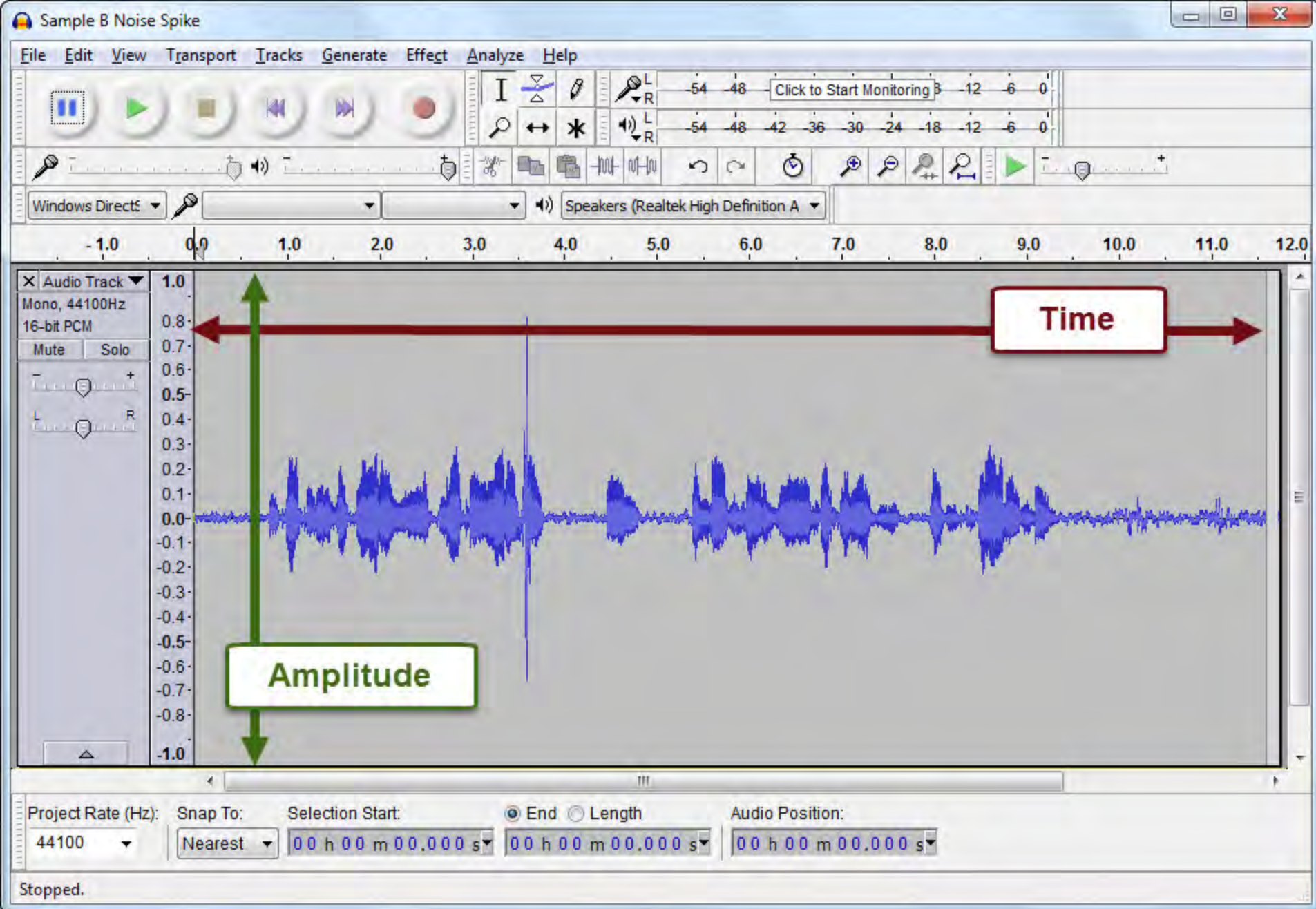


Optimize

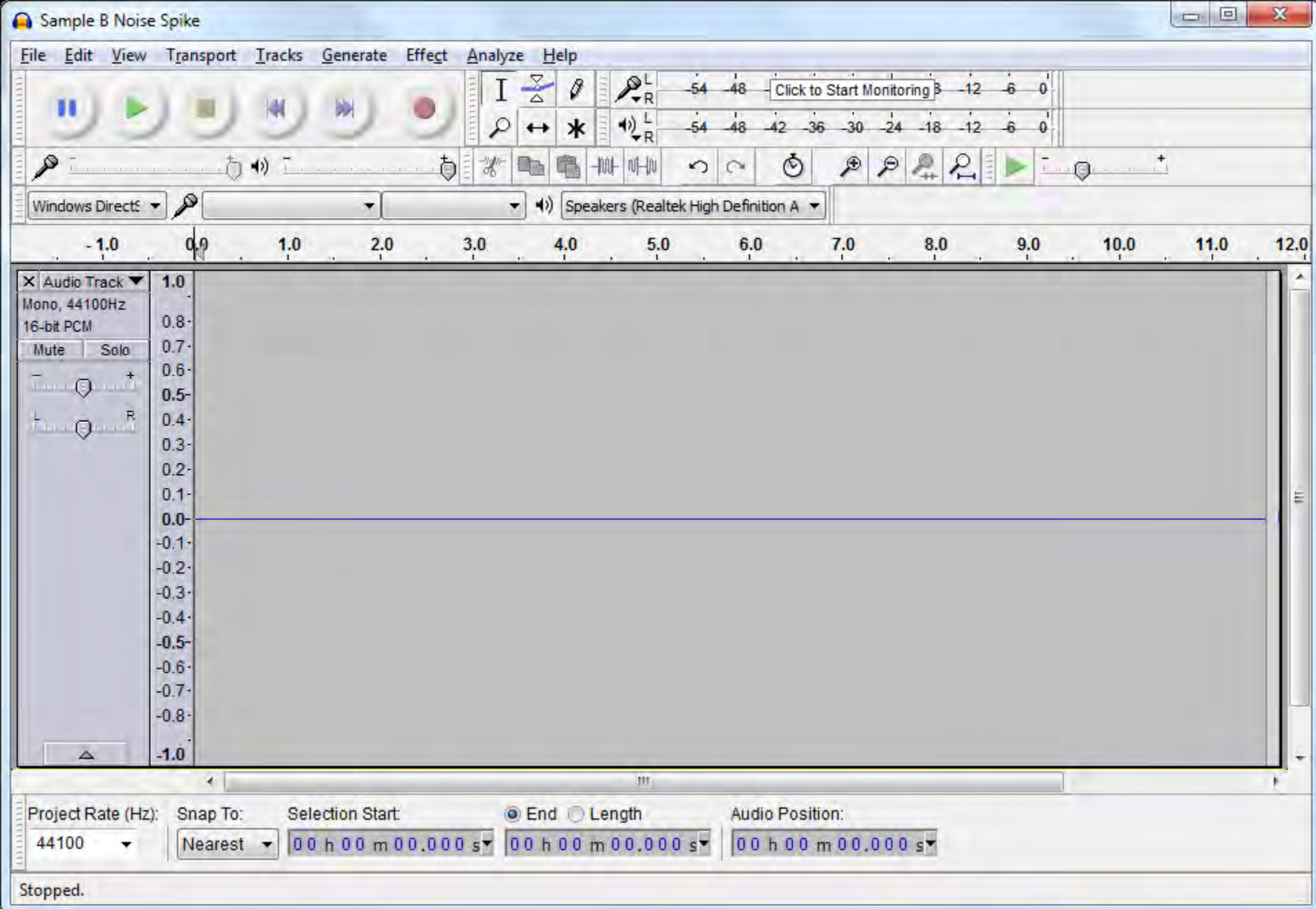
4

- Cut, Copy, Paste
- Generate Silence
- Adjust EQ

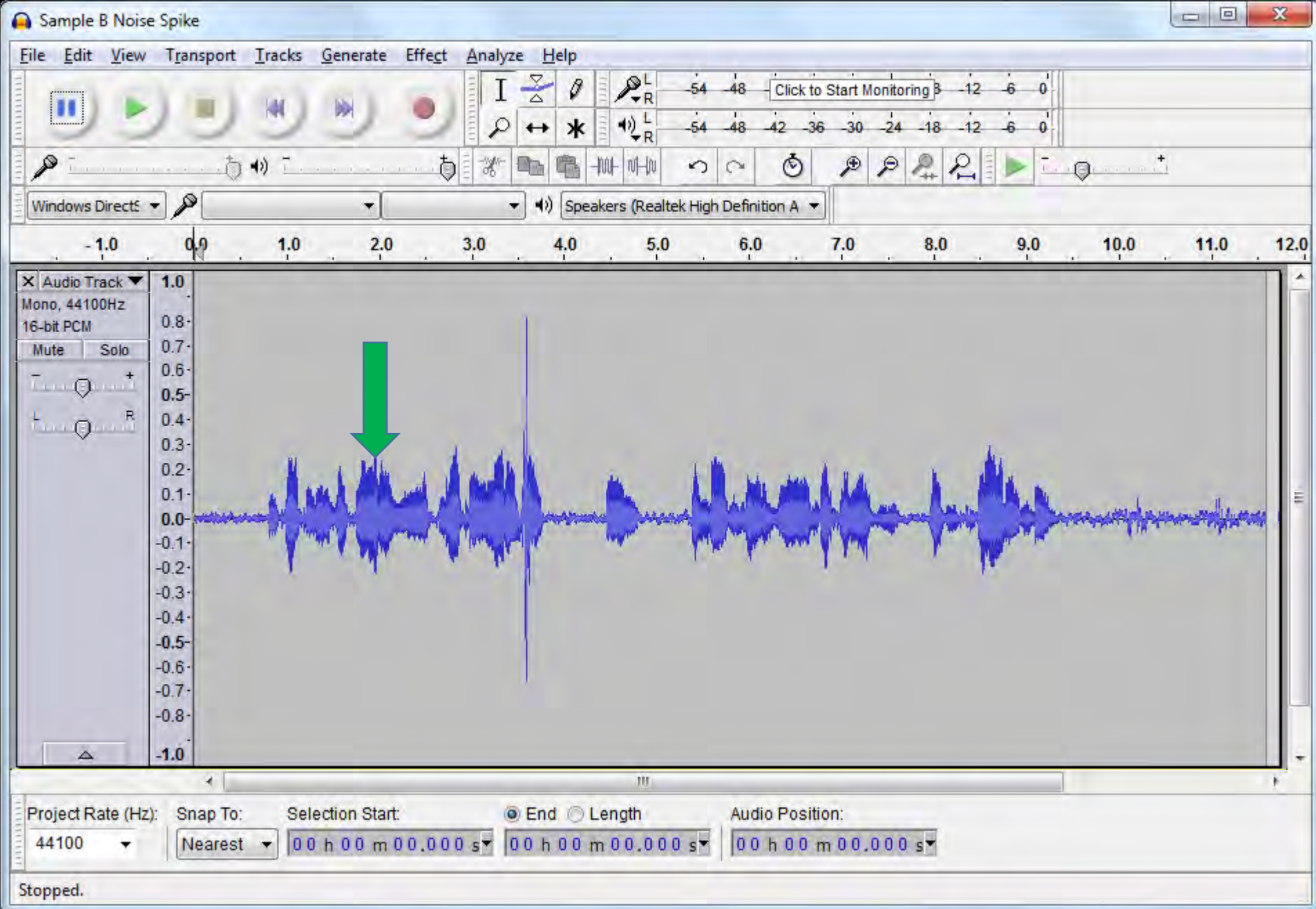




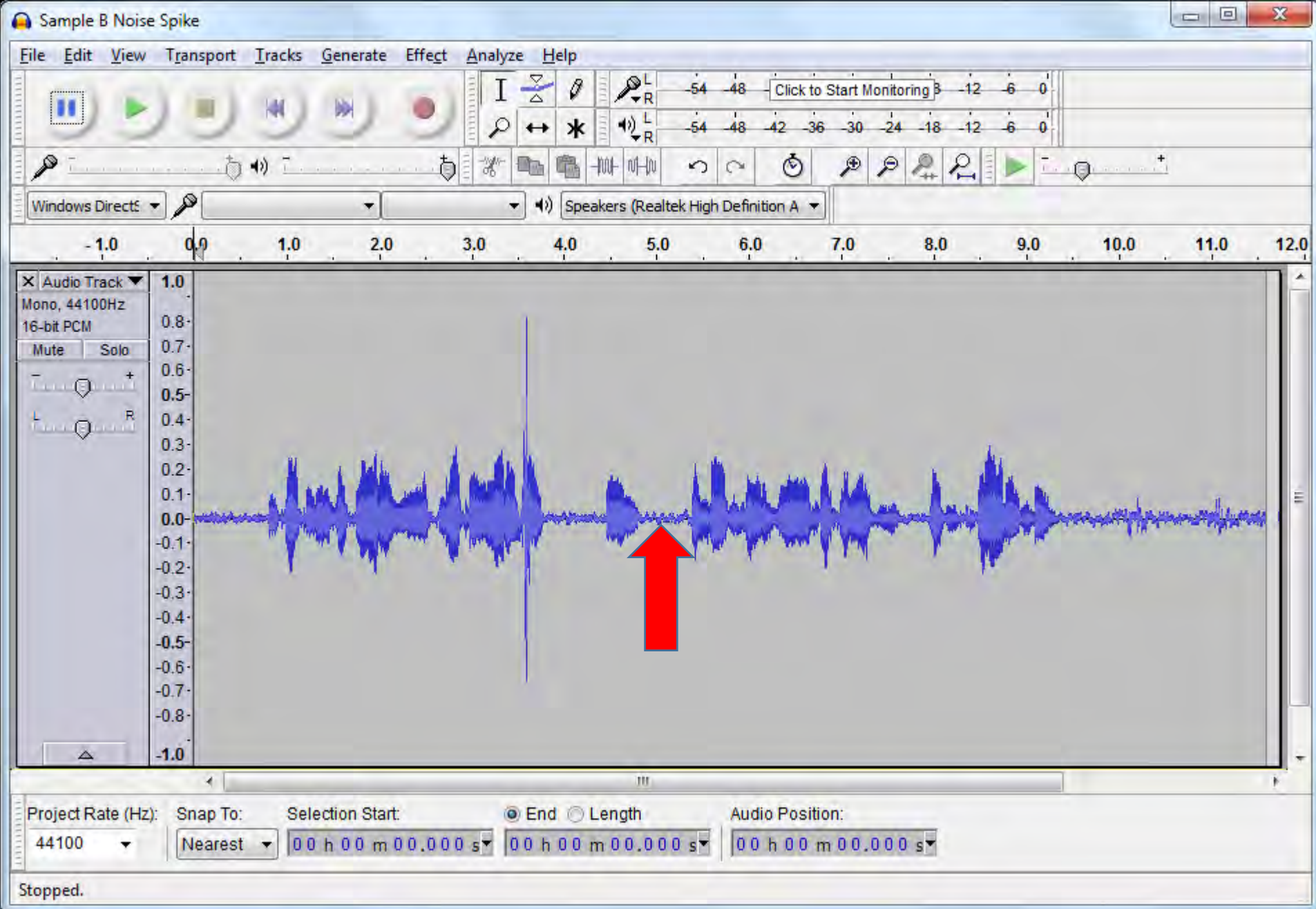
waveform



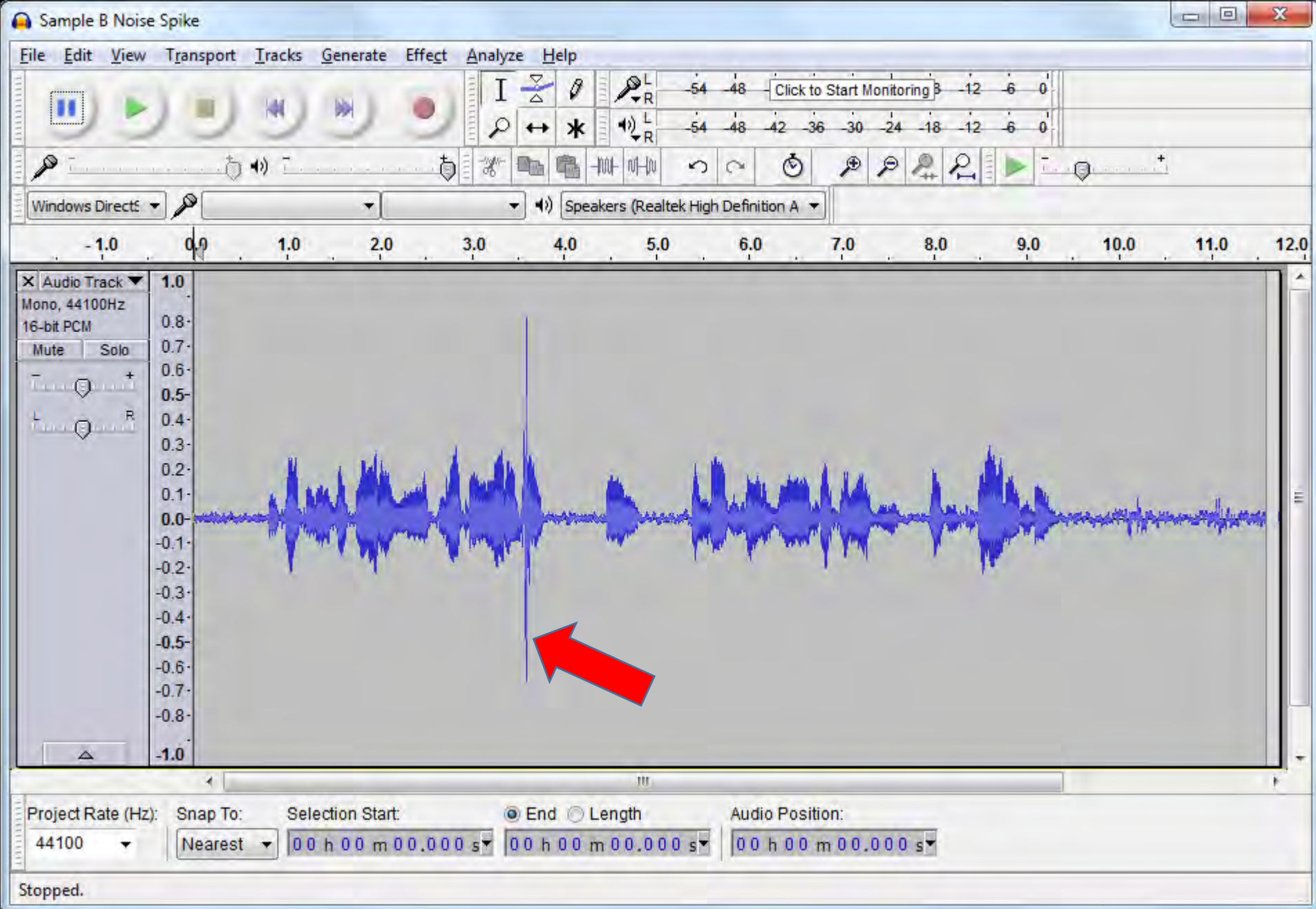
silence



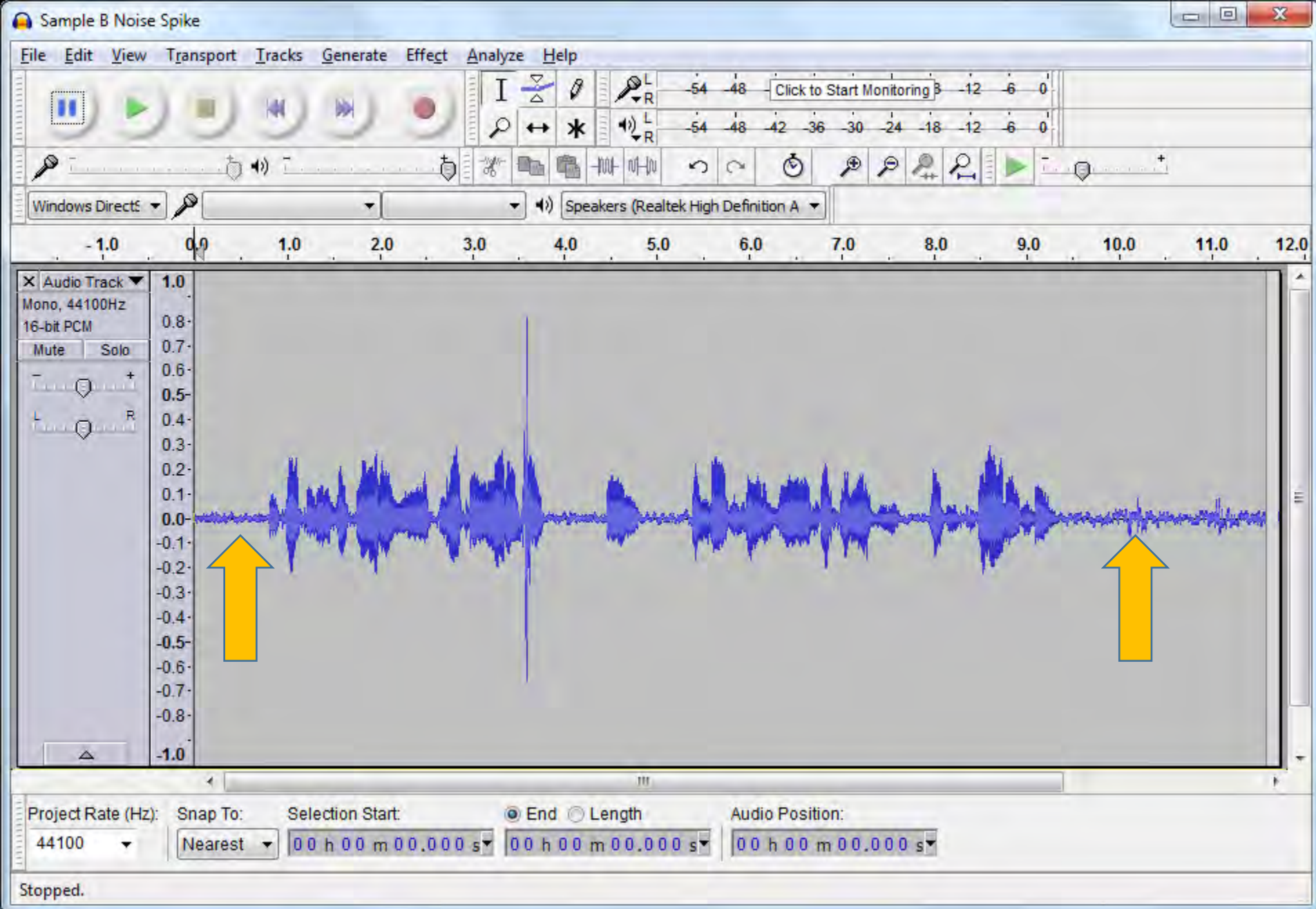
my voice



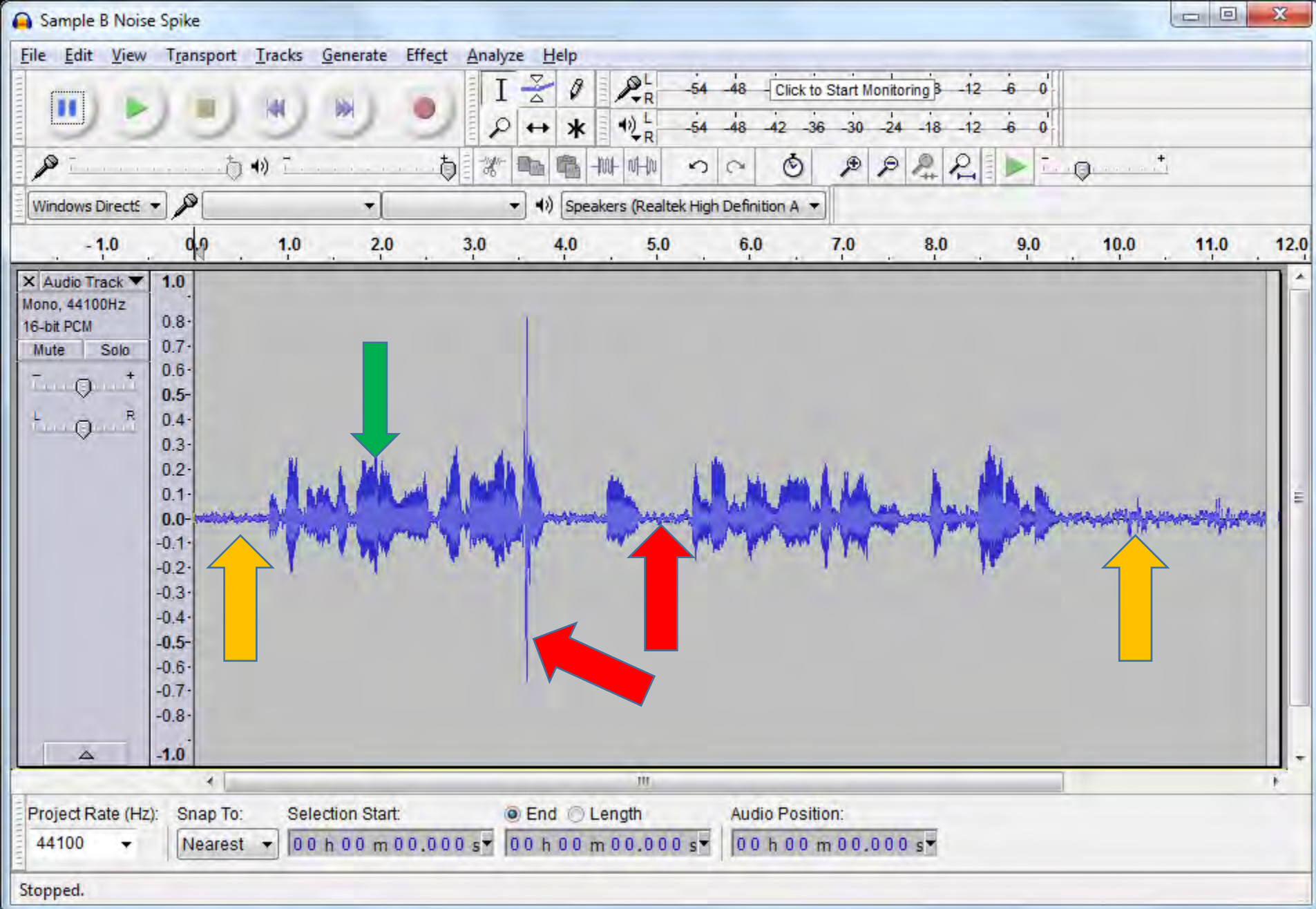
ambient noise



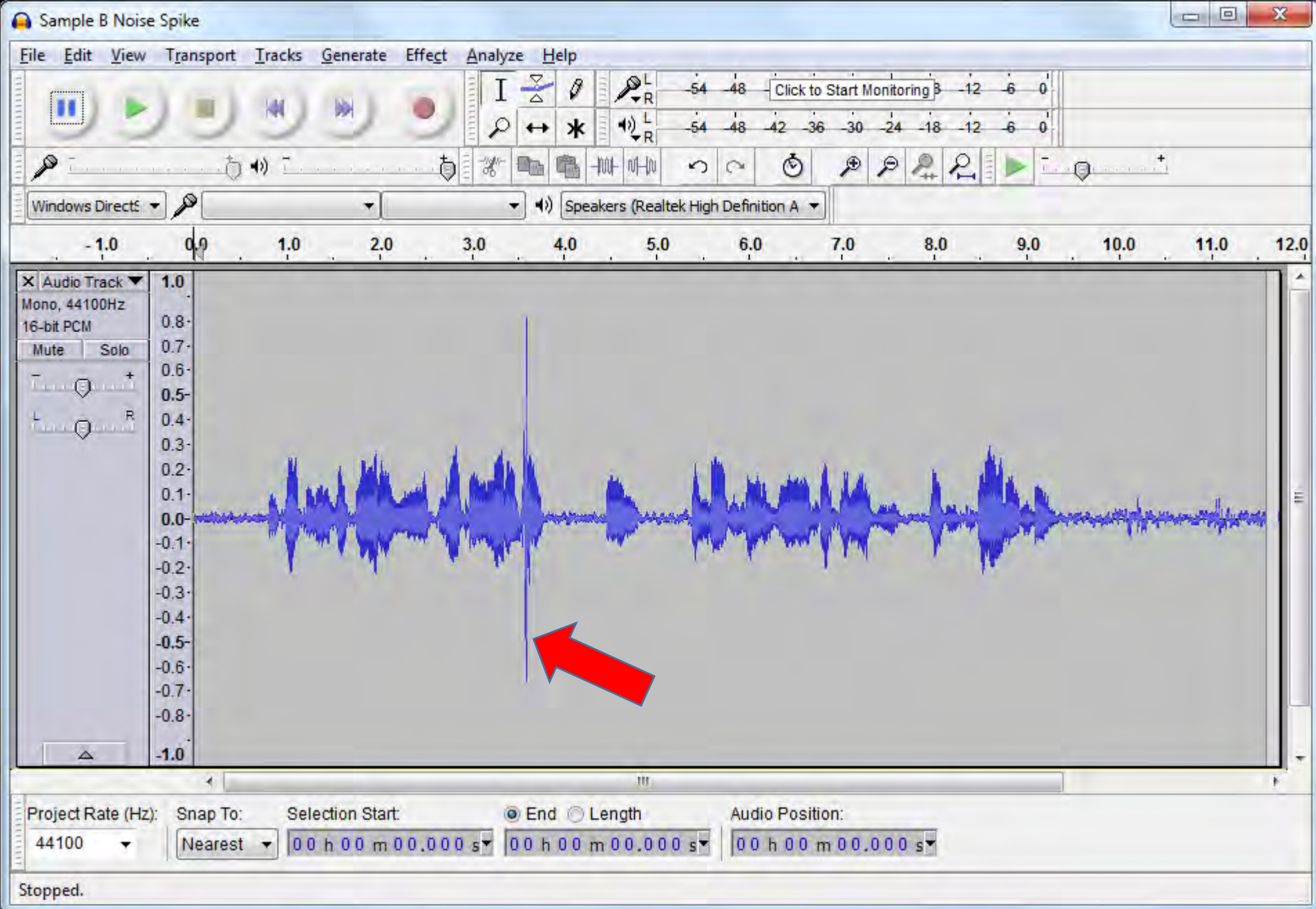
noise spike



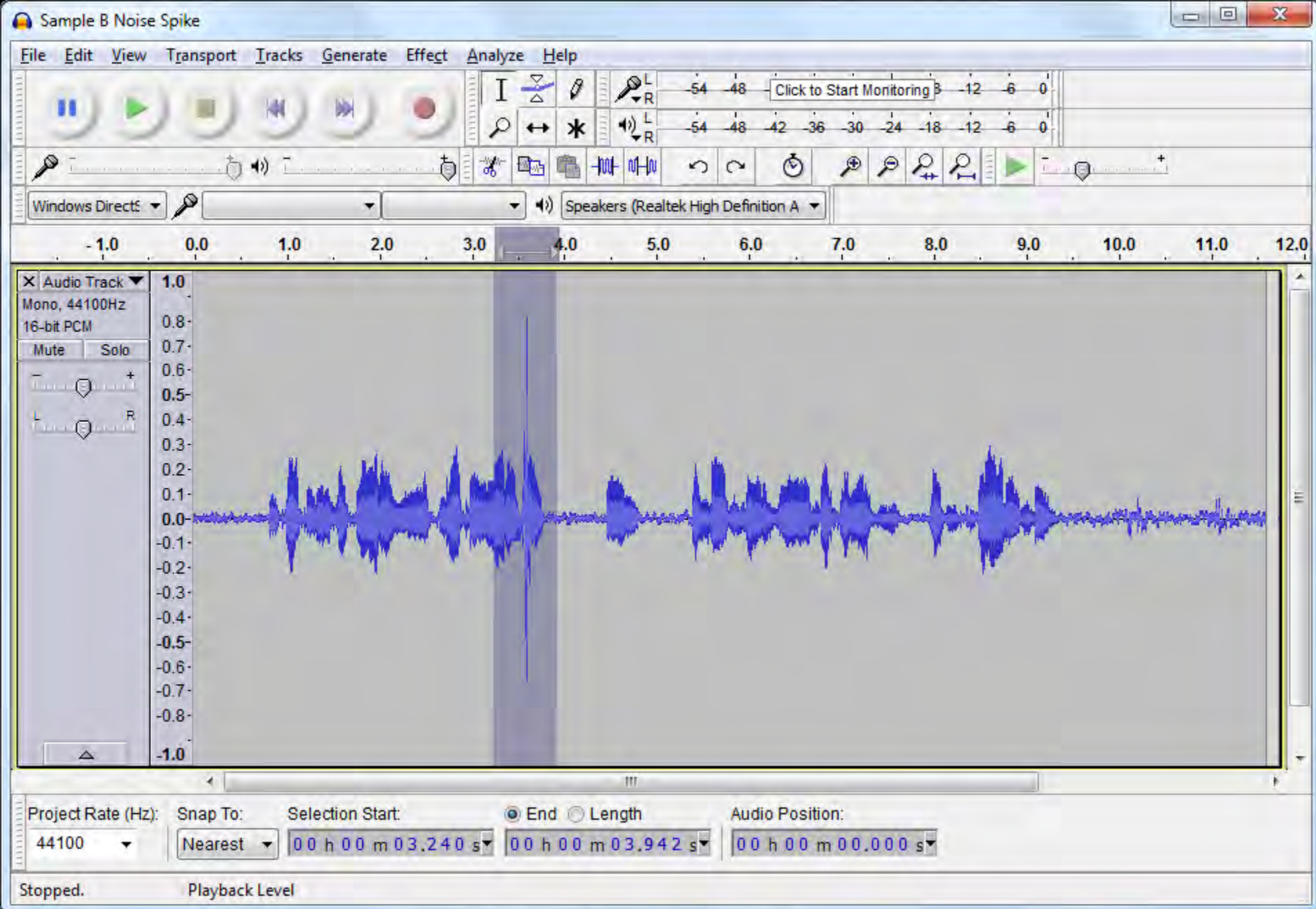
excess material



trim excess, reduce noise, optimize voice



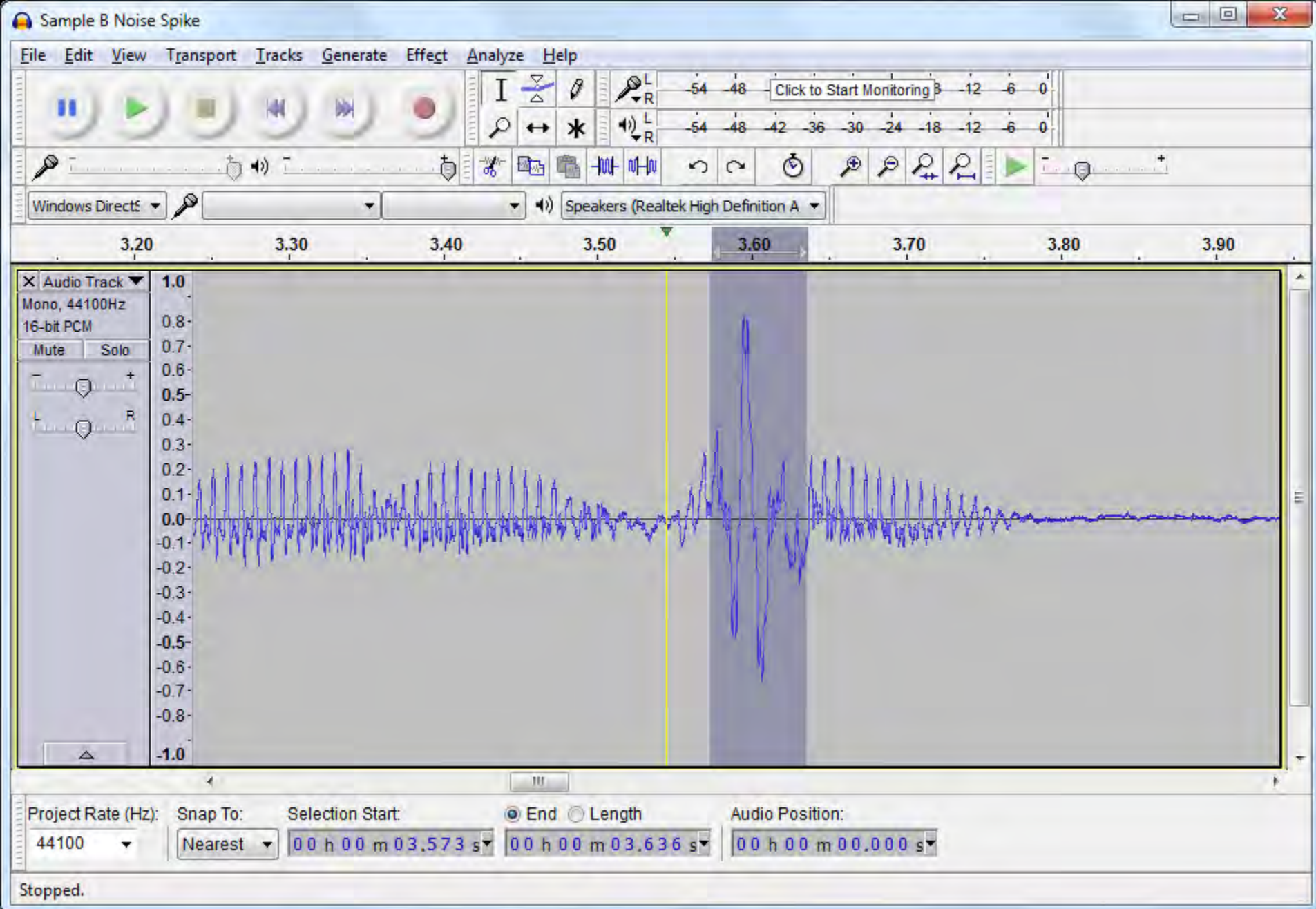
but first, this noise spike...



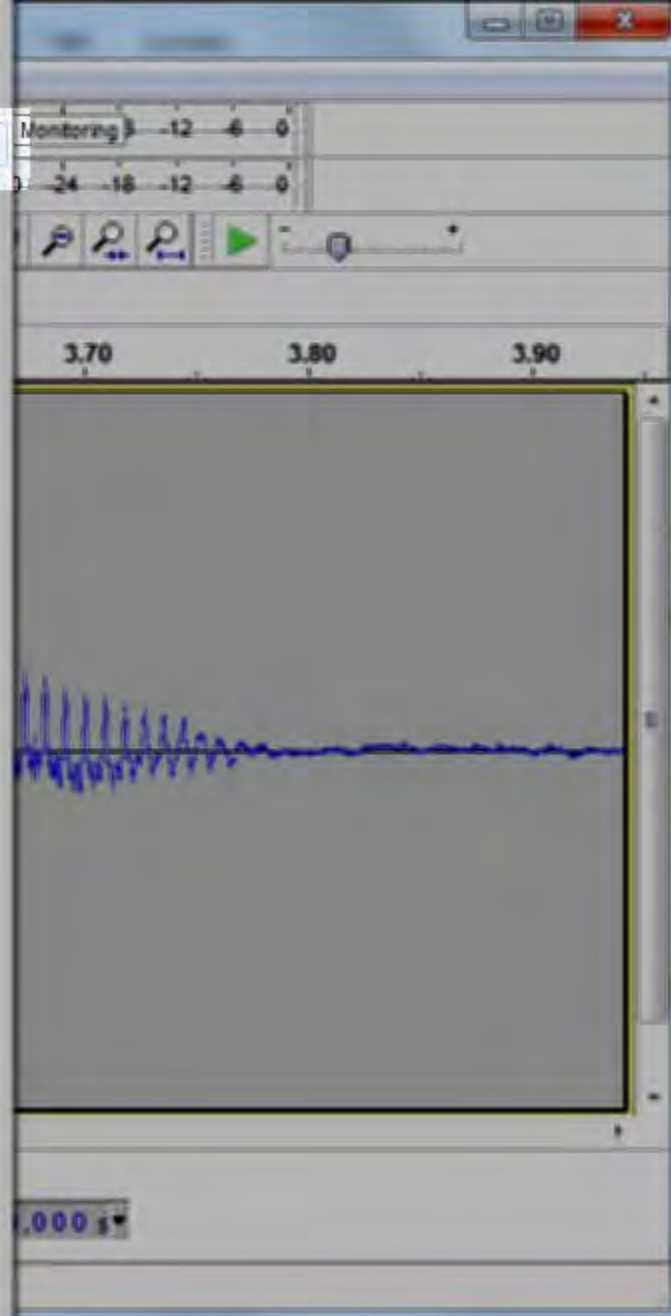
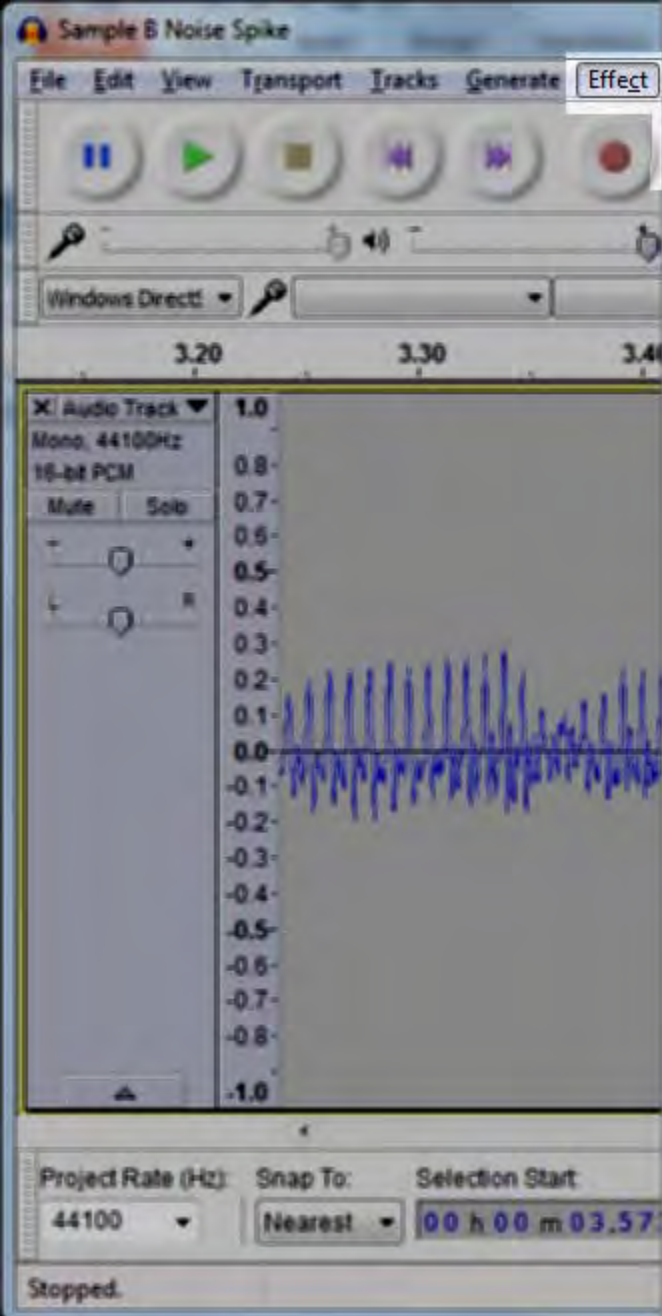
select the area (click & drag)



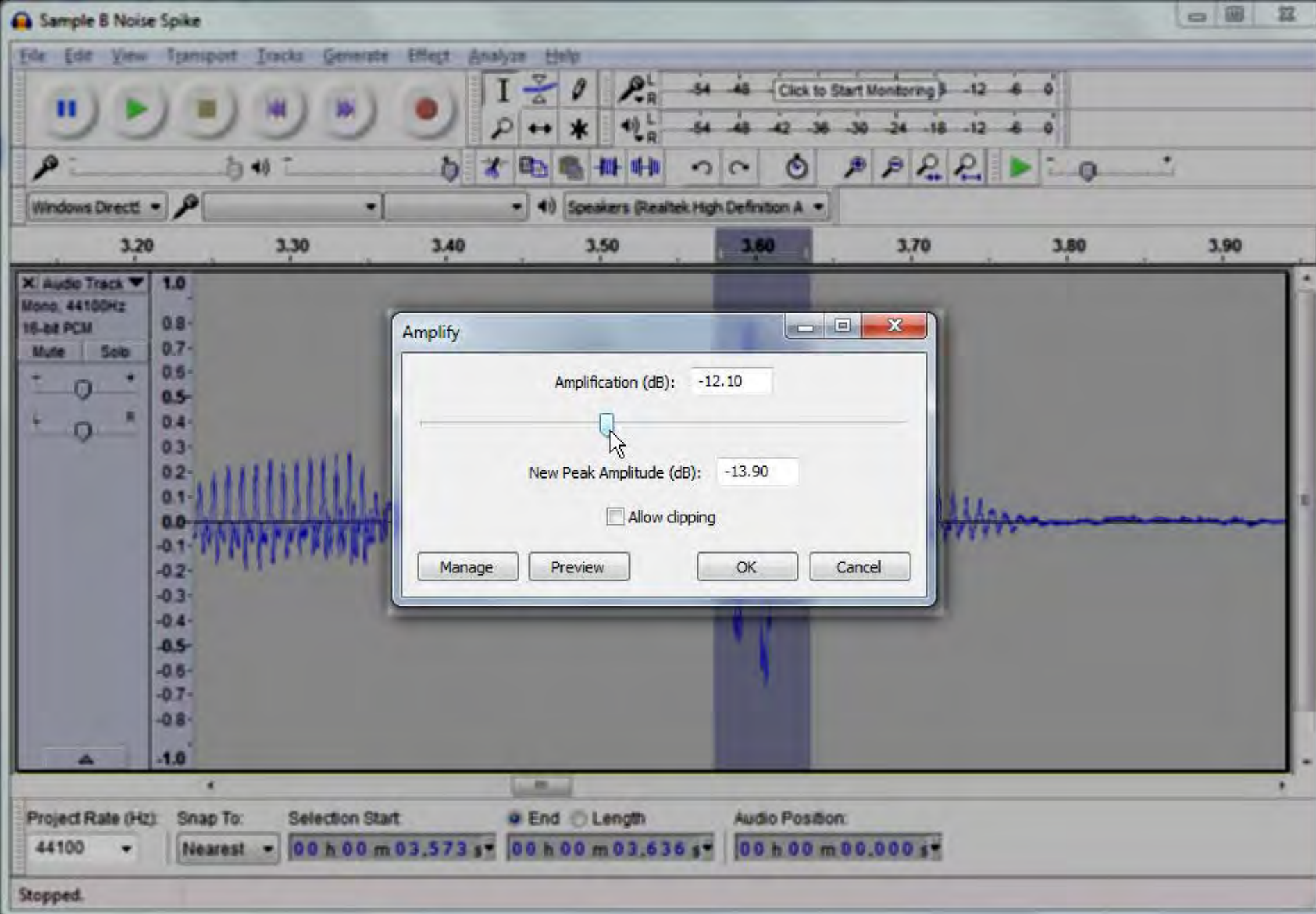
view the selected area



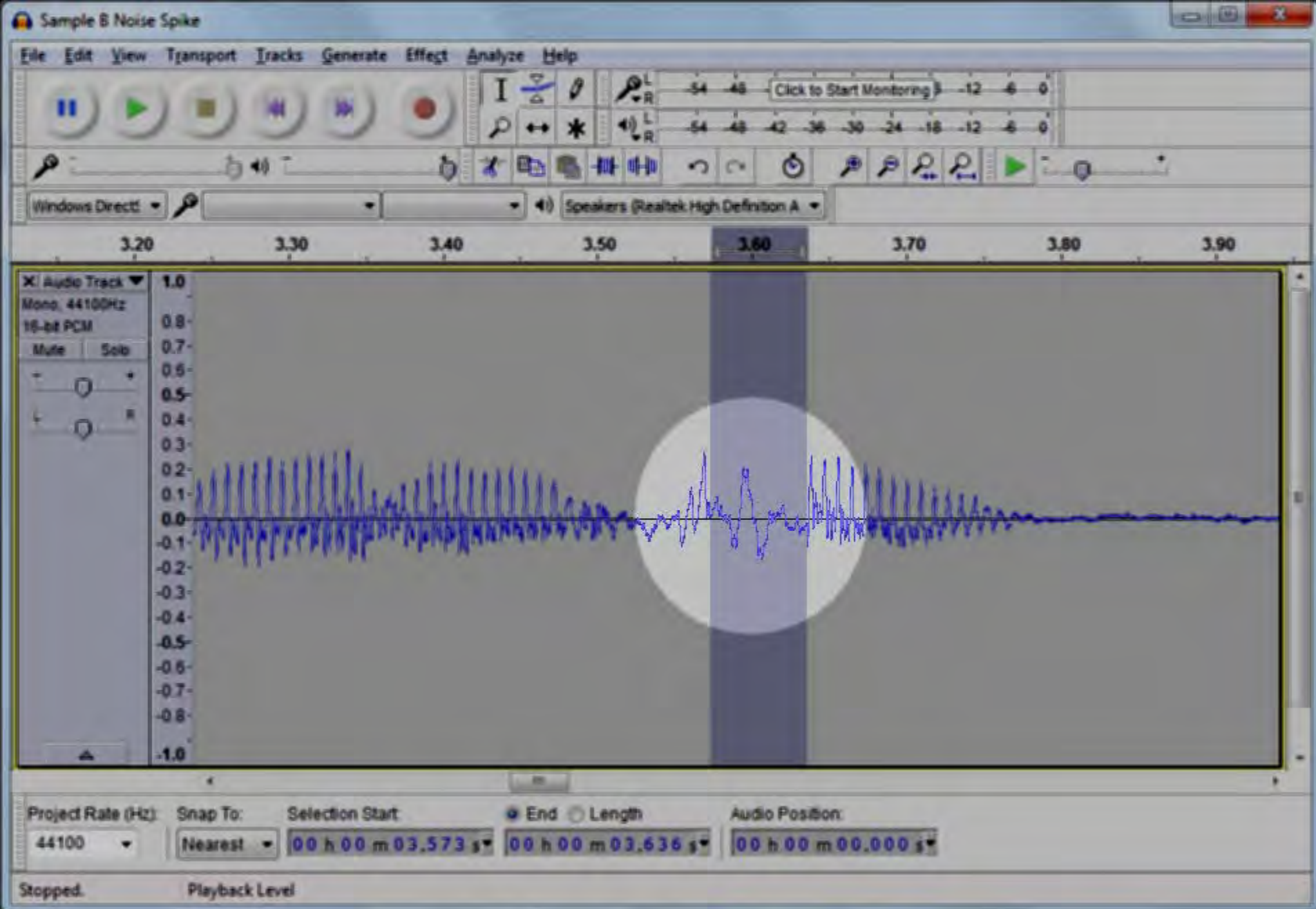
refine the selection



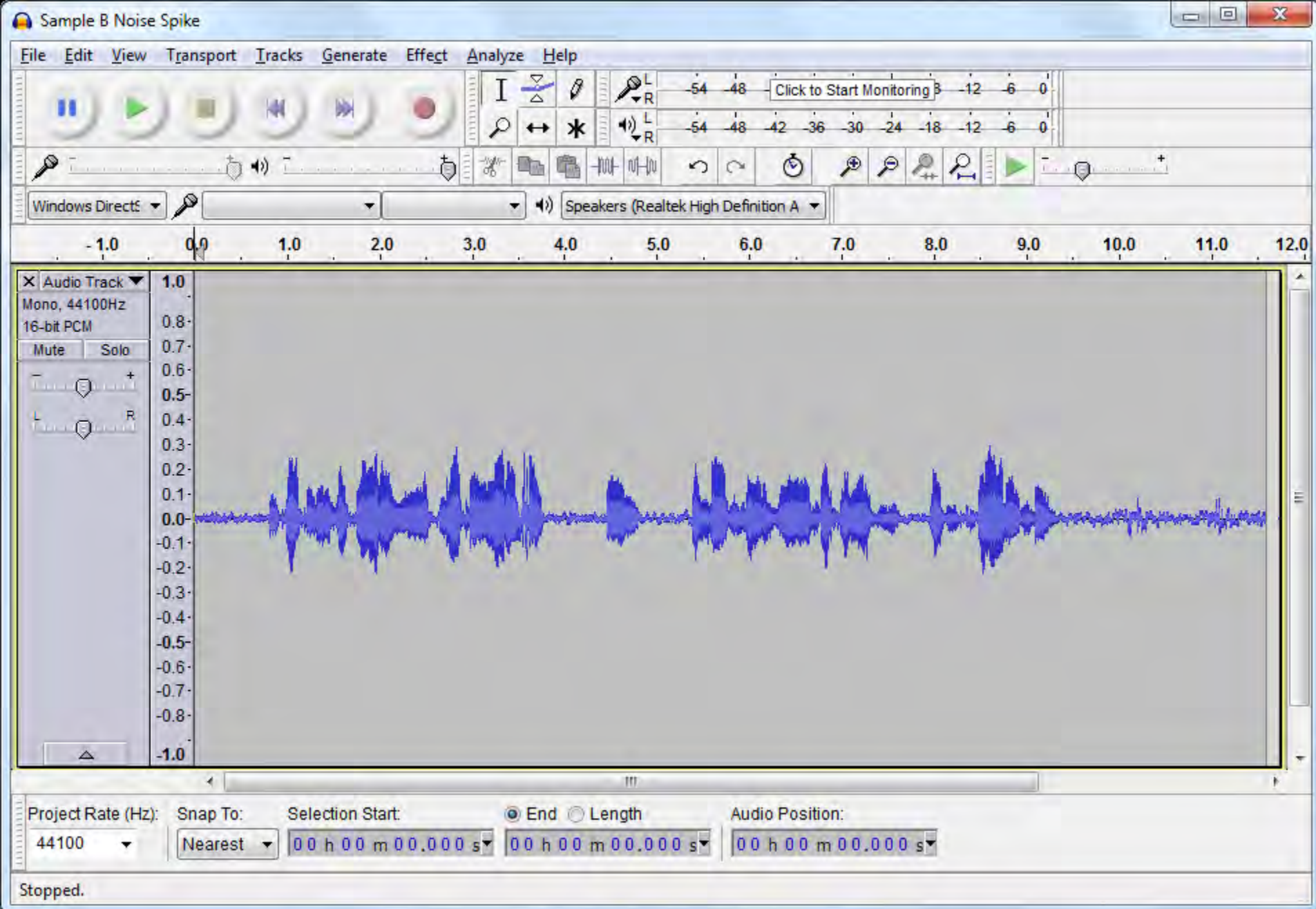
use the “Amplify” effect...



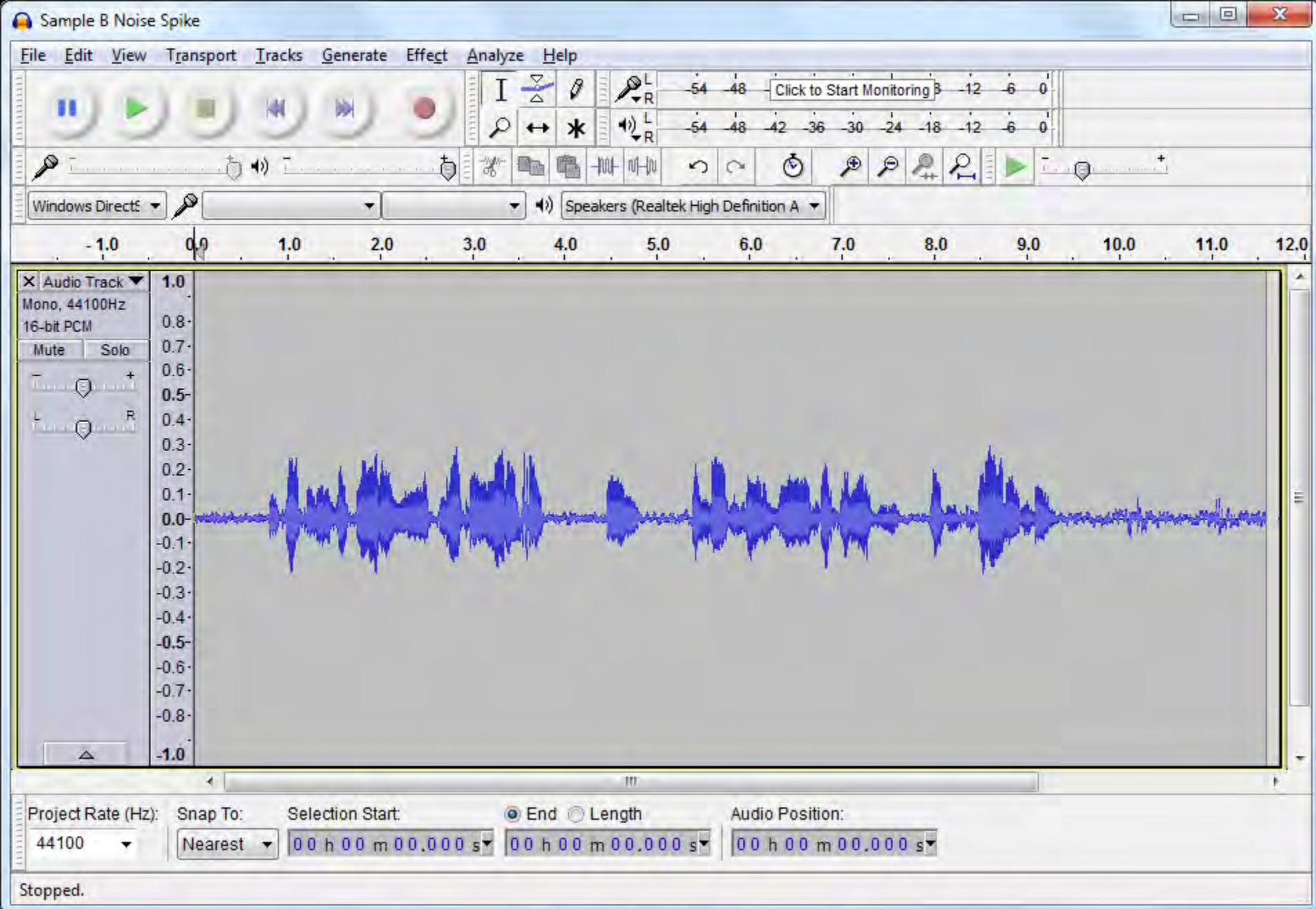
...to reduce the amplitude



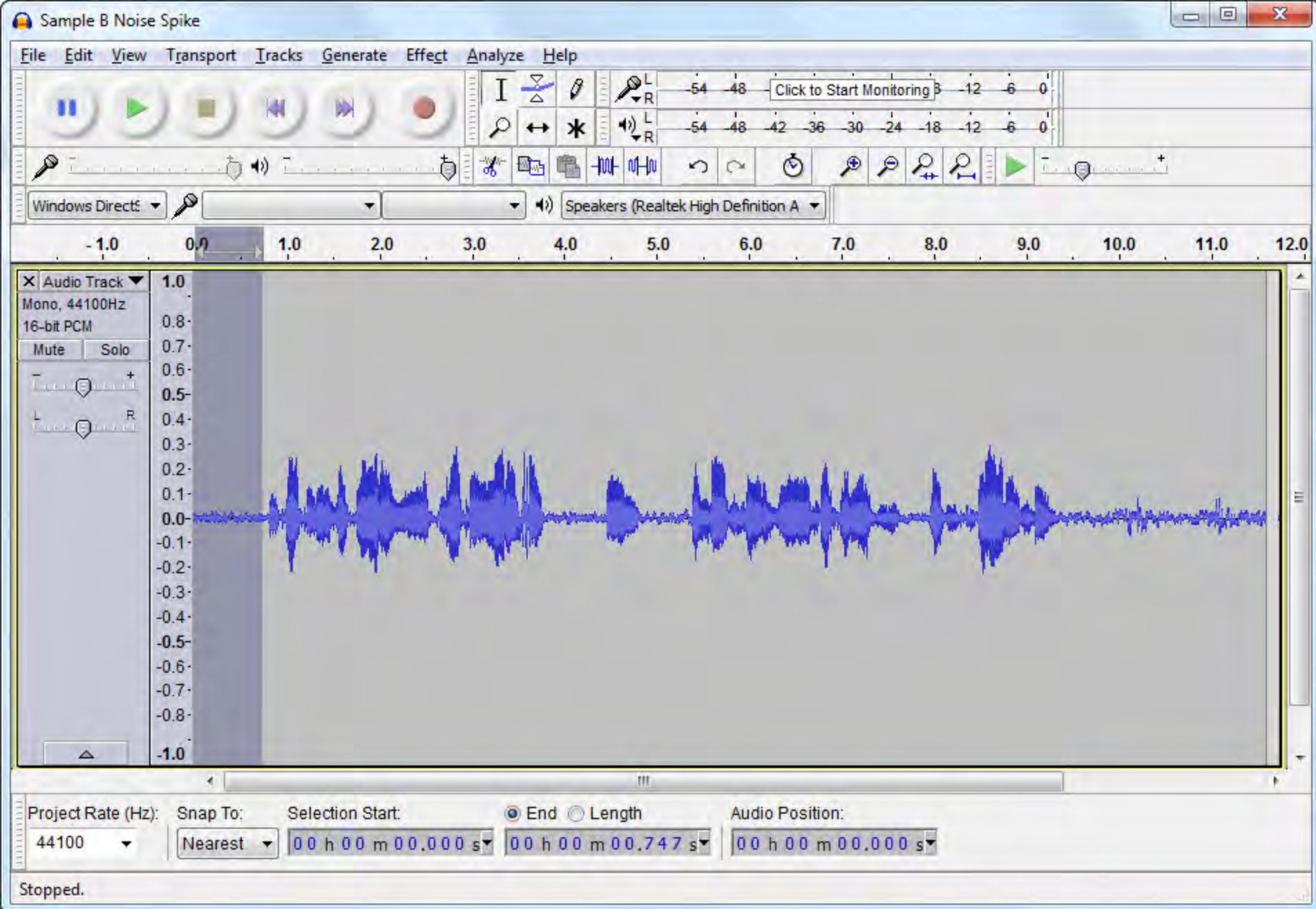
goodbye spike



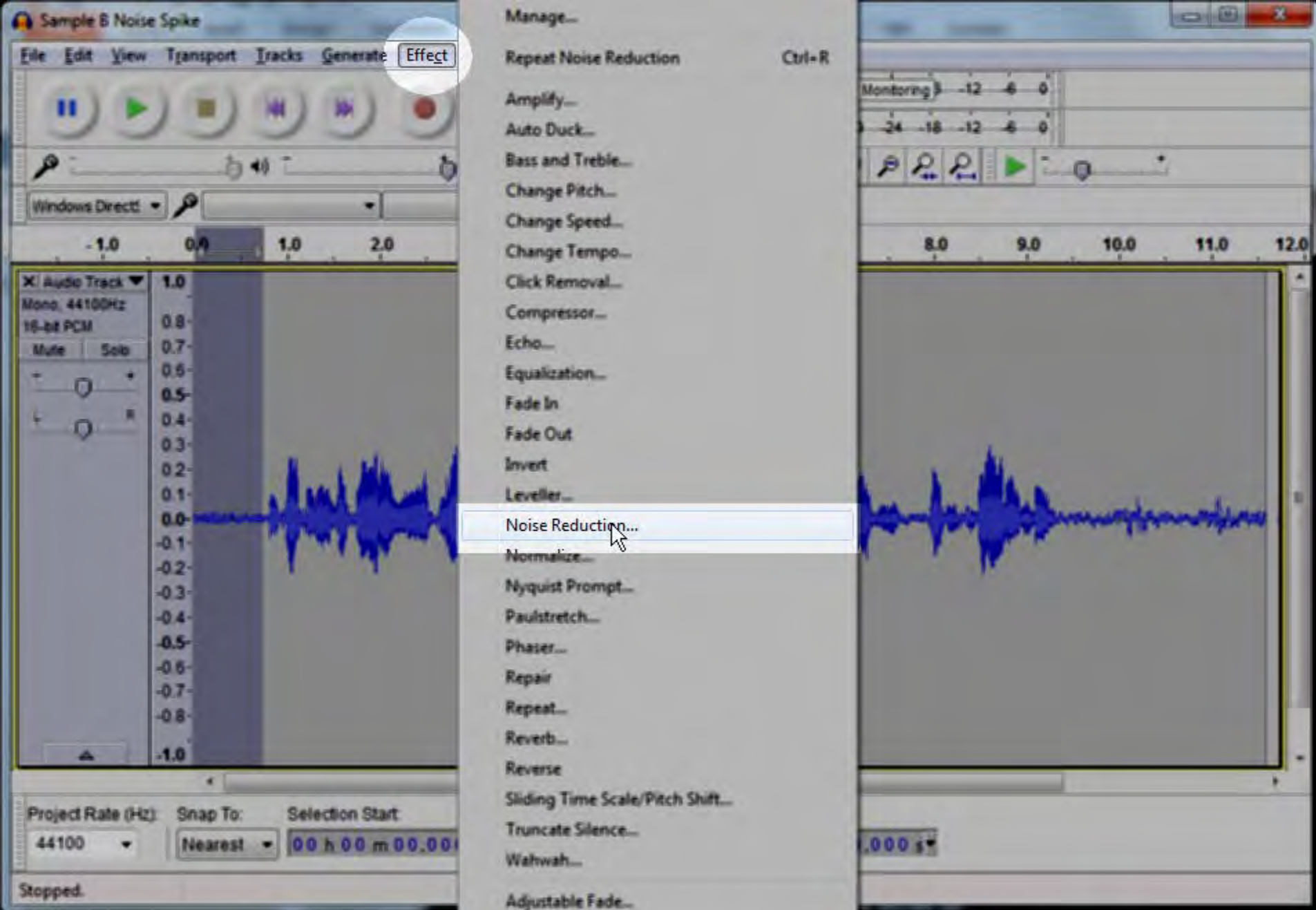
goodbye spike



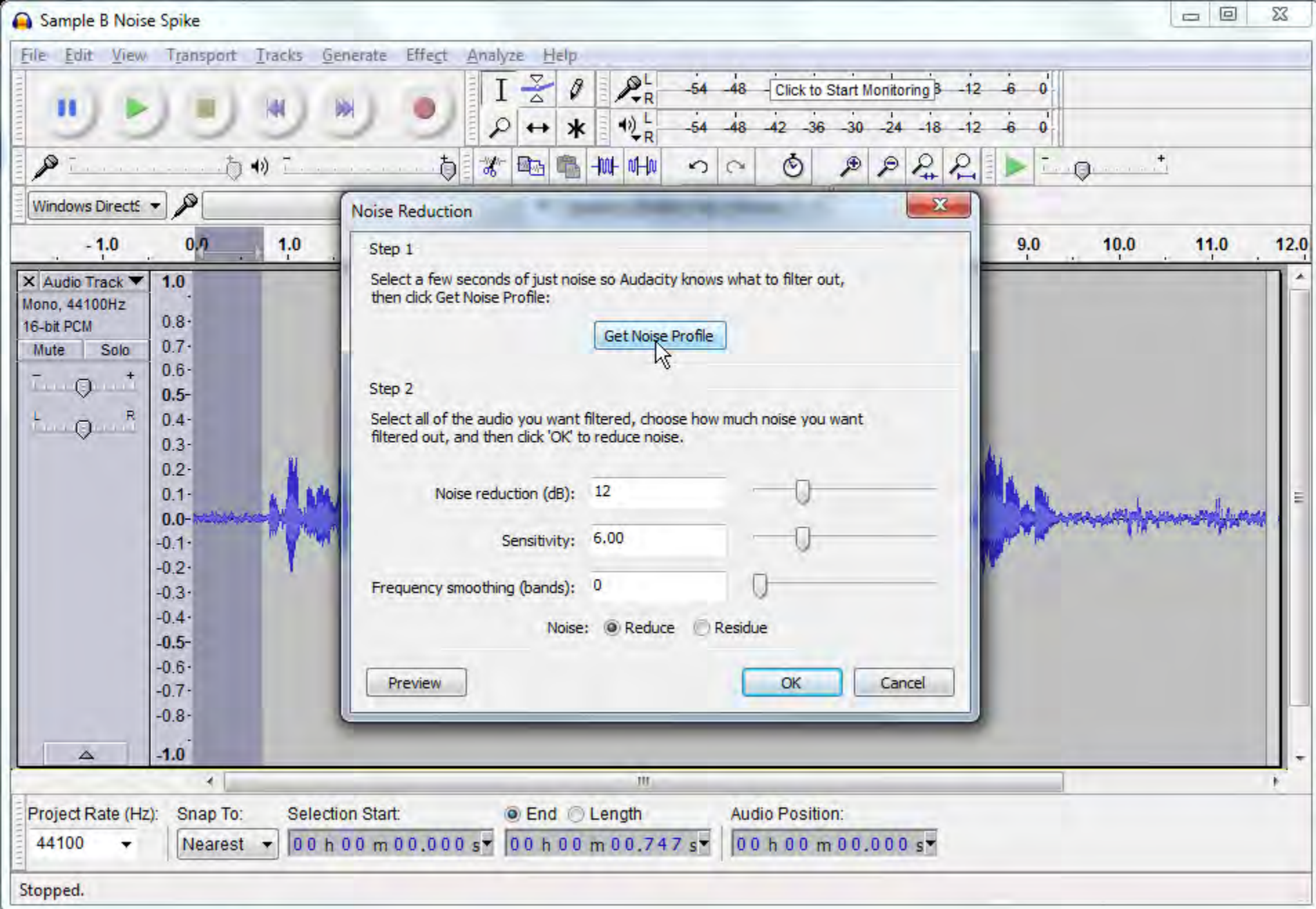
now, reduce the ambient noise



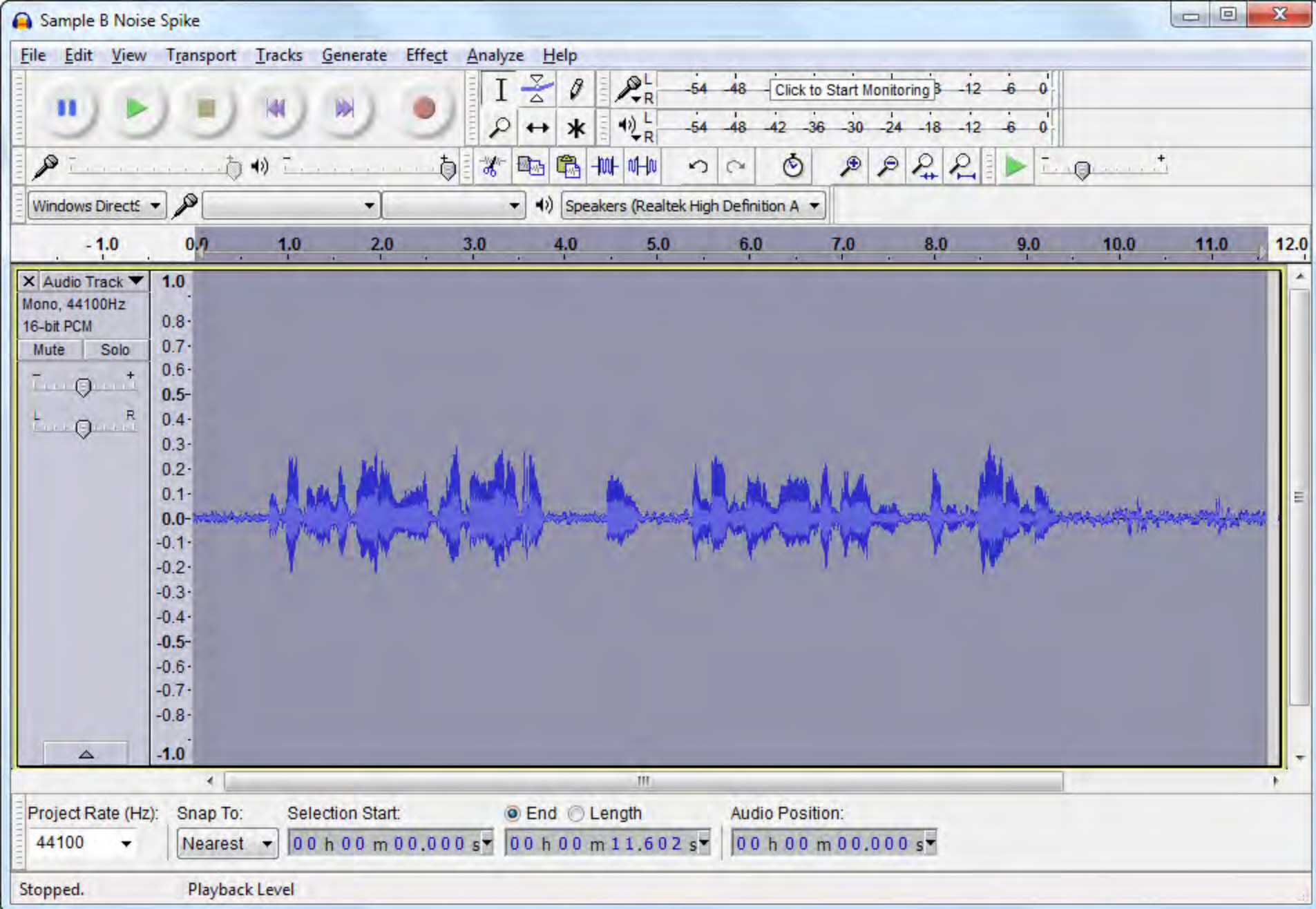
select a noise sample



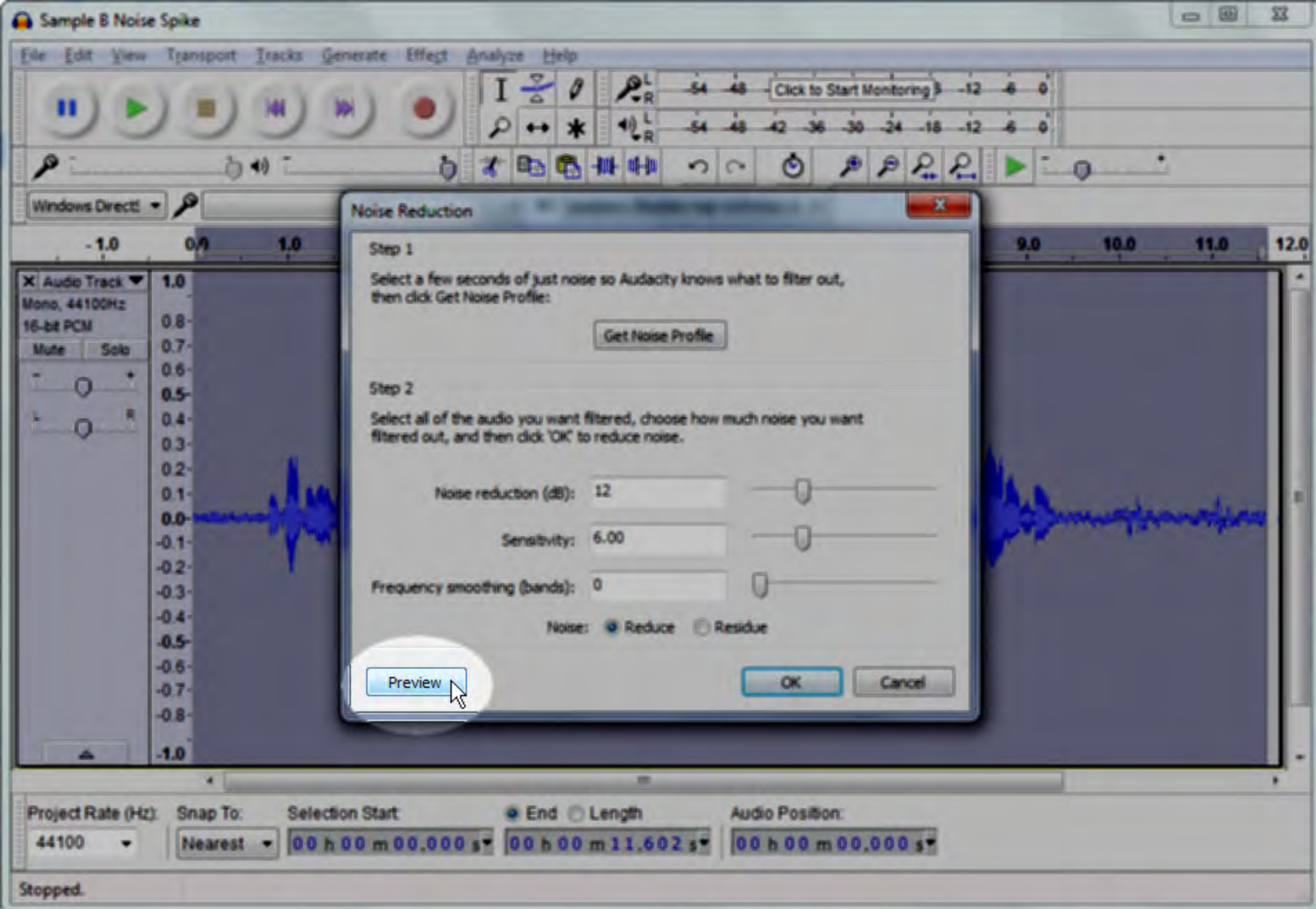
select "Noise Reduction" effect



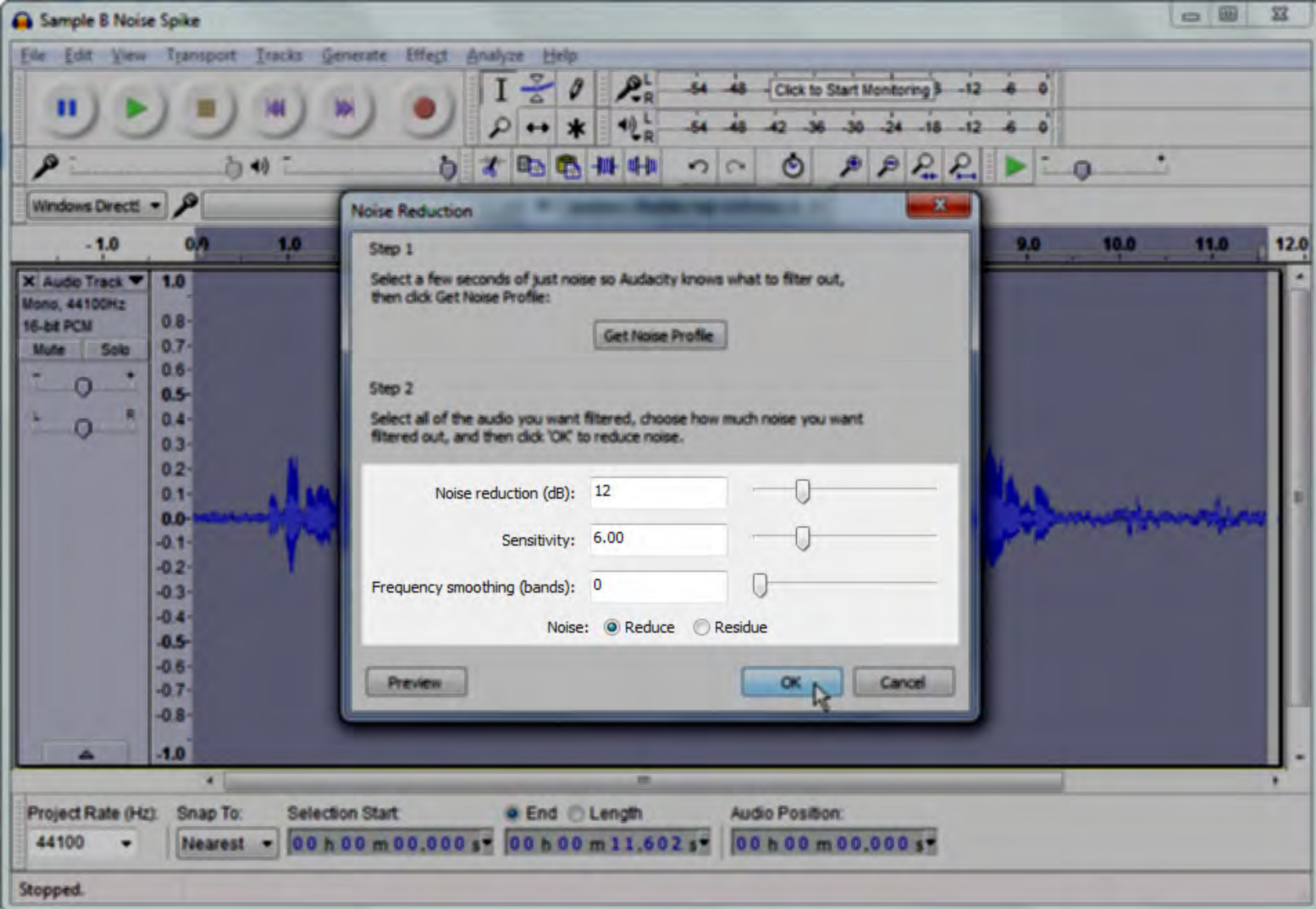
get Noise Profile



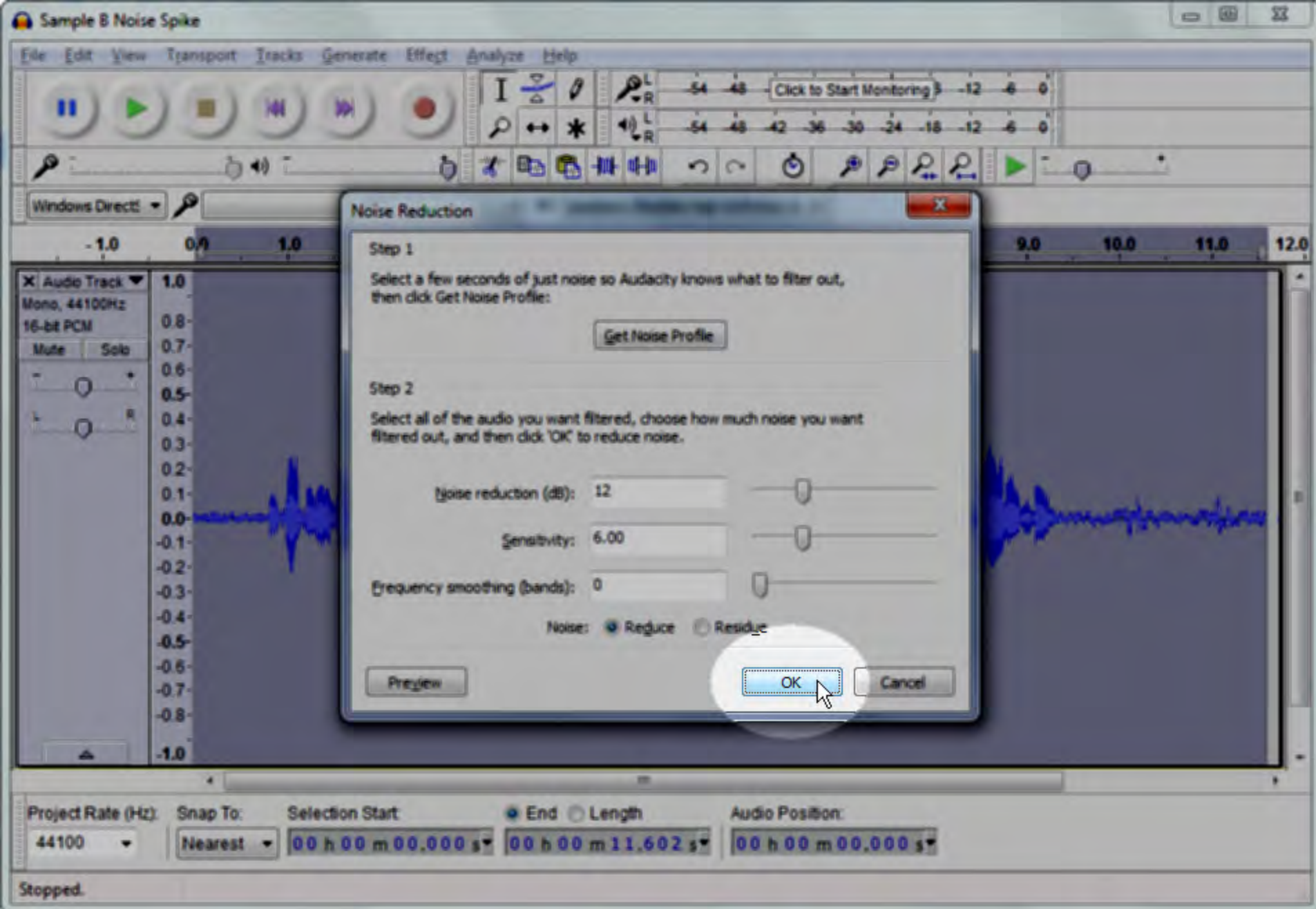
select entire waveform



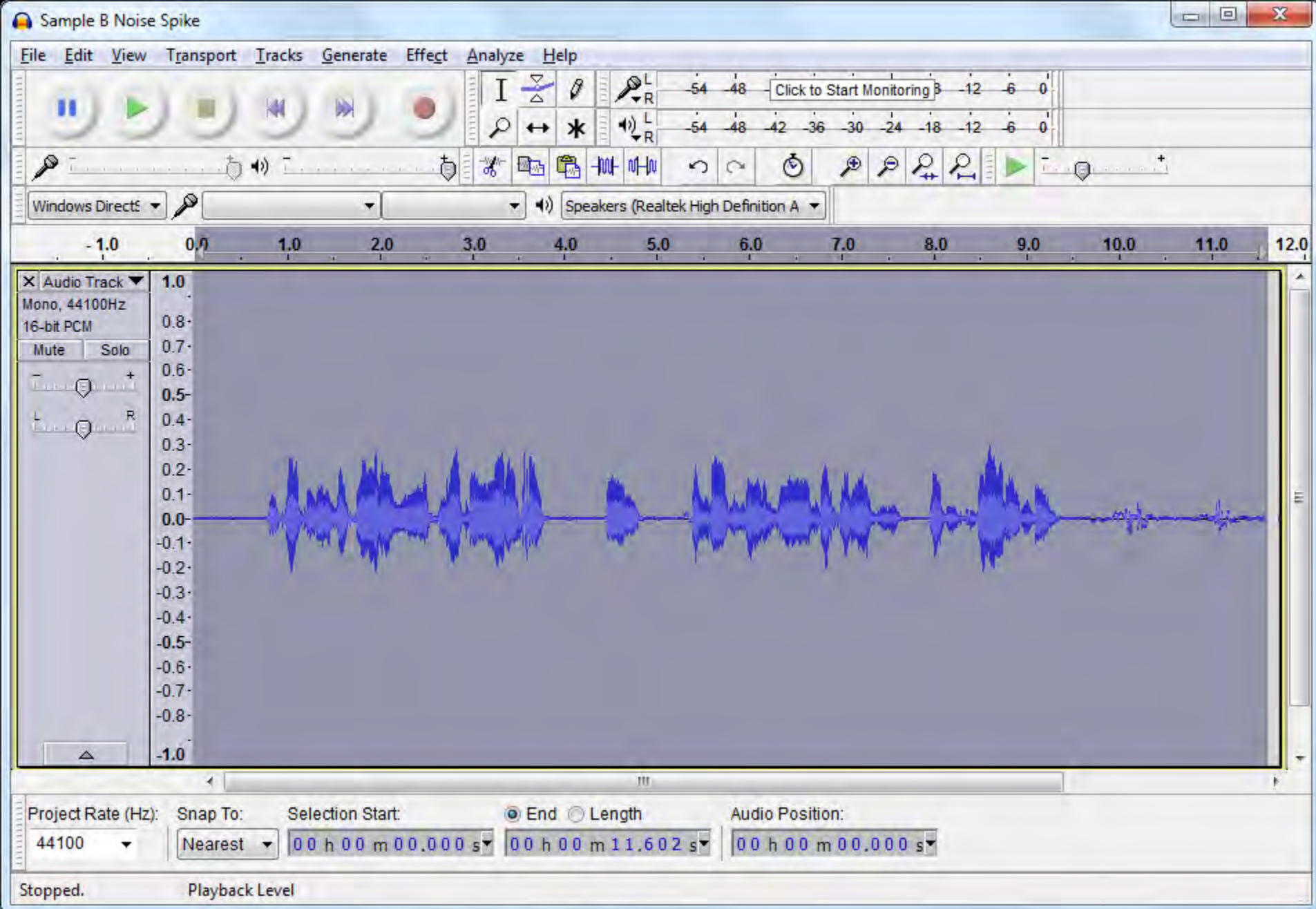
preview the change (listen)



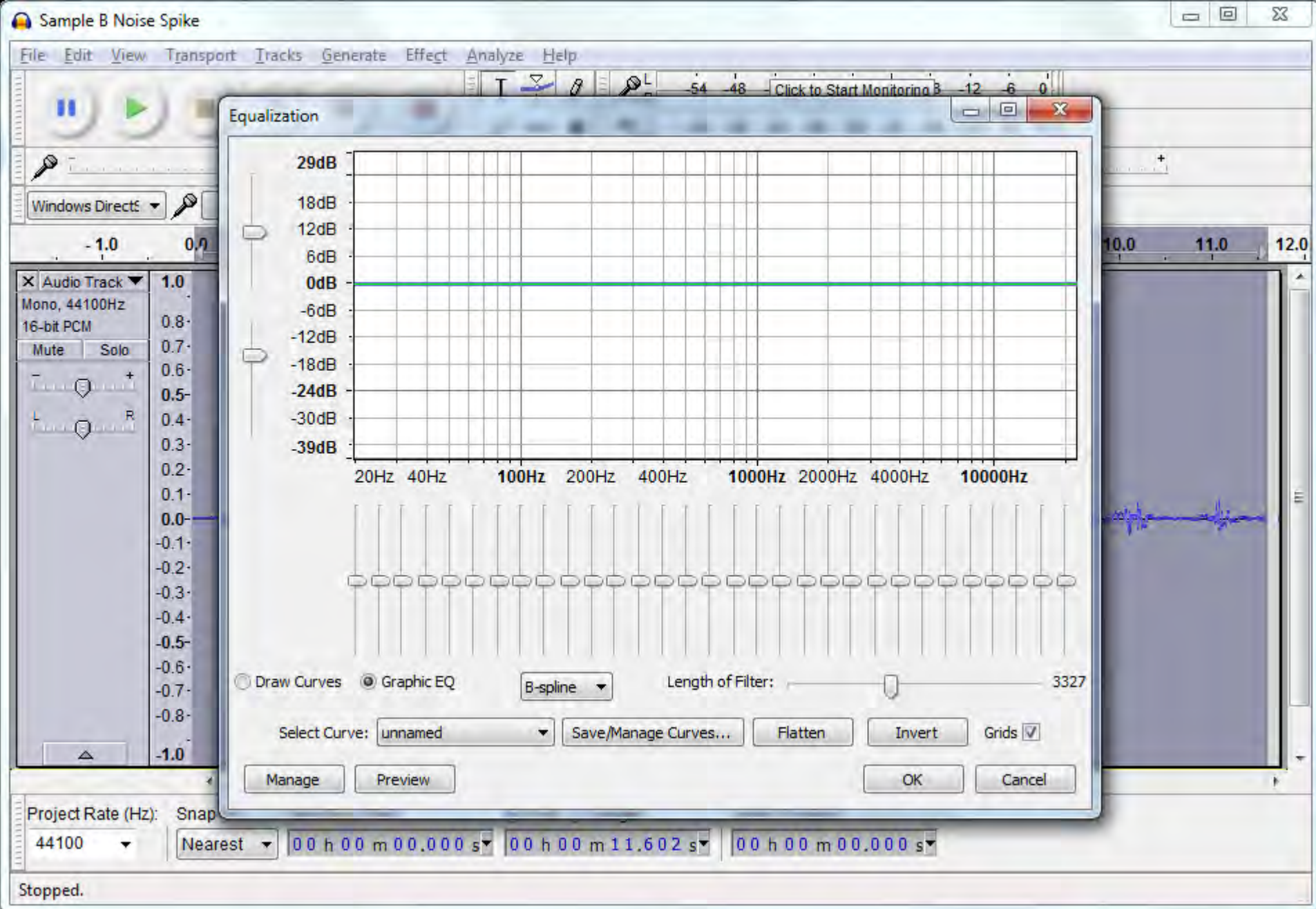
adjust parameters, or...



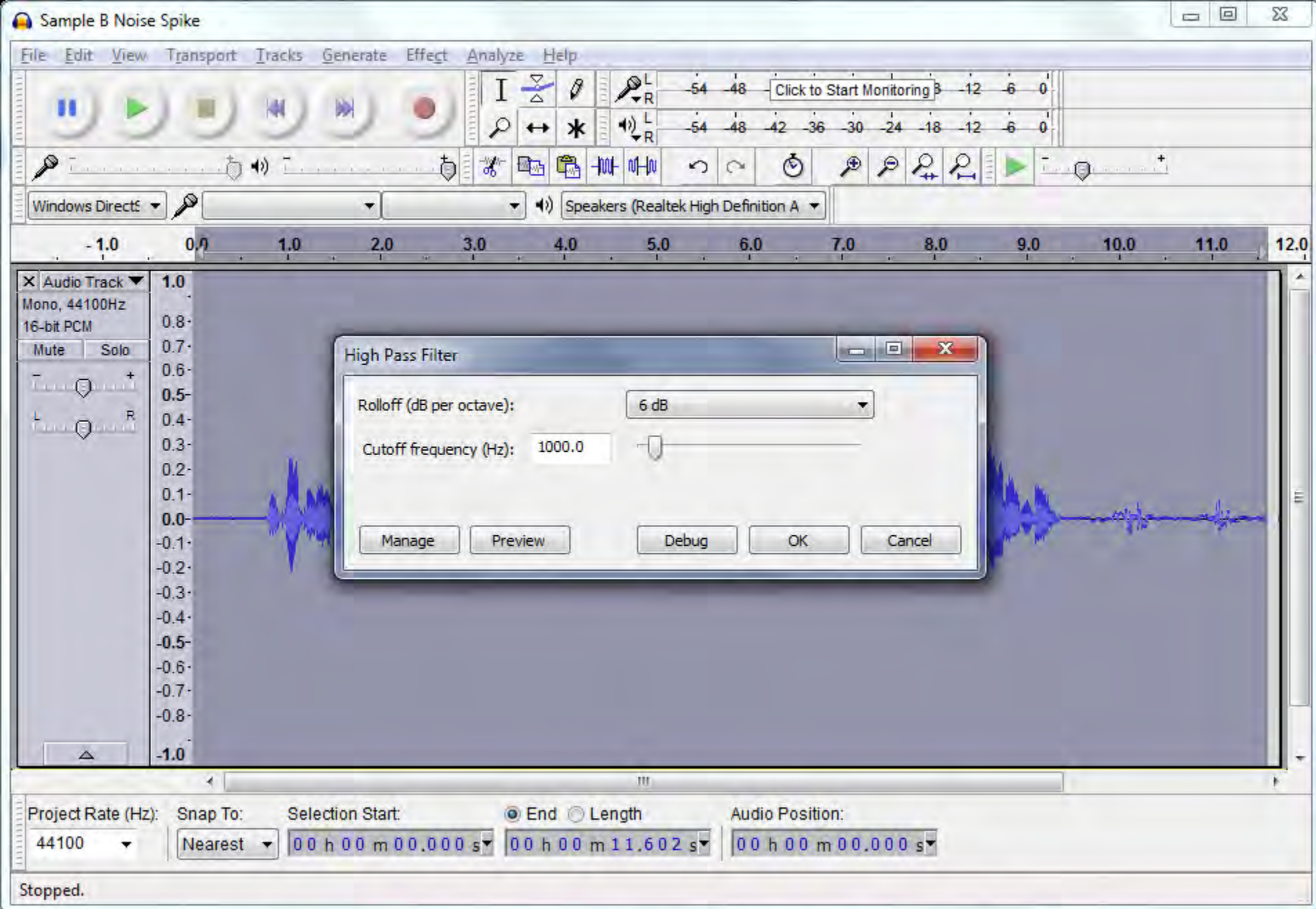
click OK



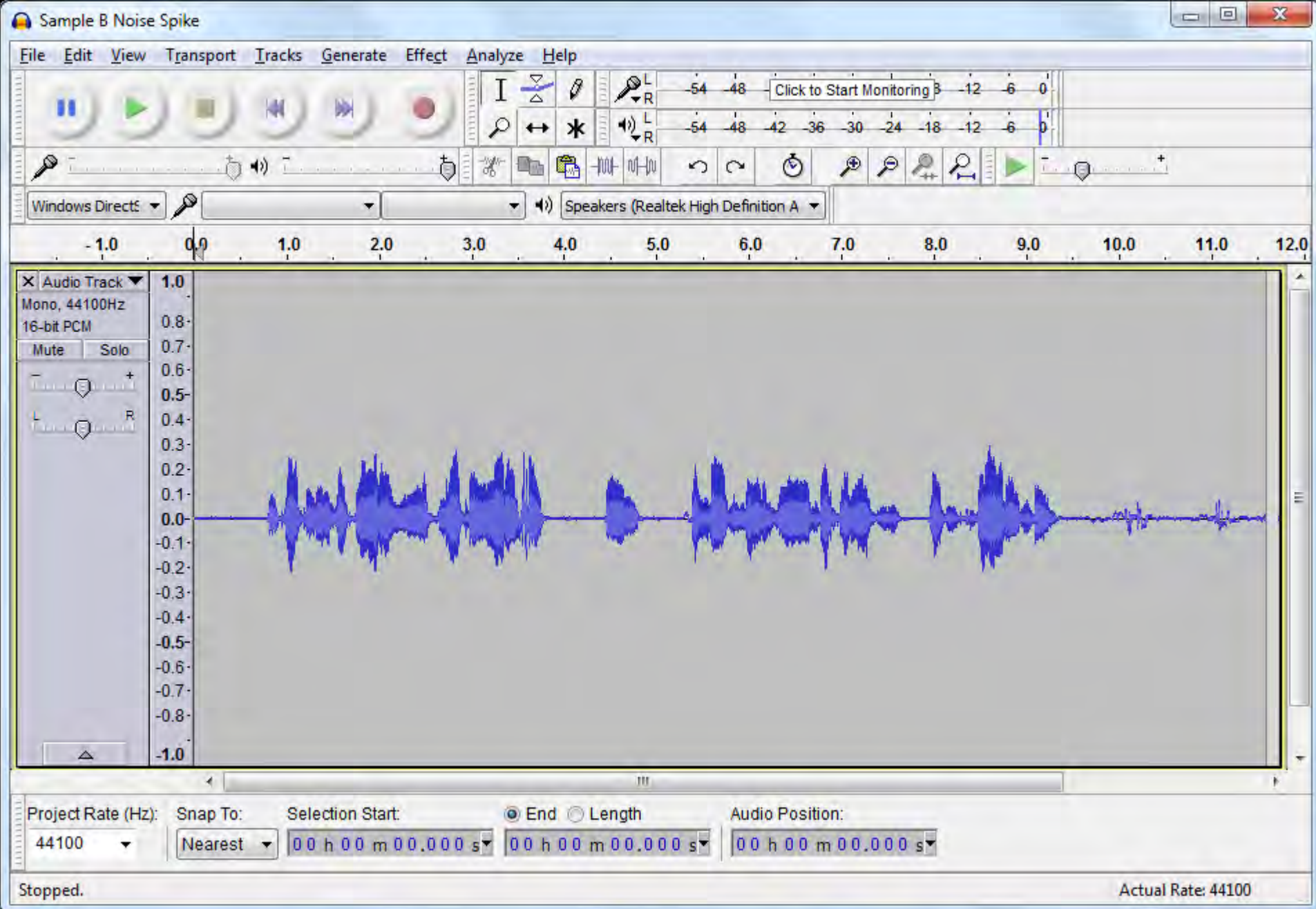
noise is reduced!



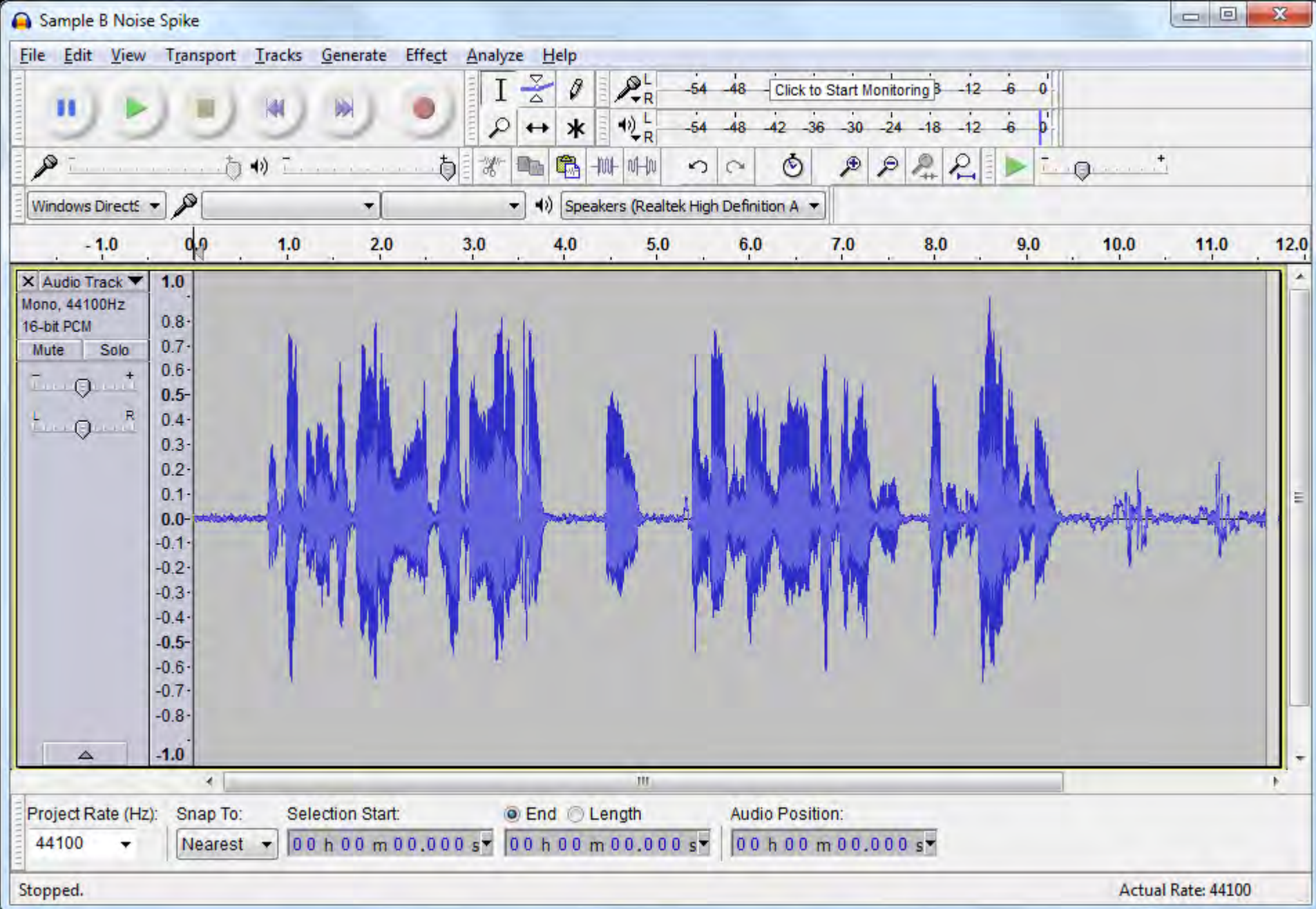
Audacity's graphic equalizer



a high-pass filter blocks low frequencies



normalization optimizes volume



normalization optimizes volume

Sample B Noise Spike

File Edit View Transport Tracks Generate Effect

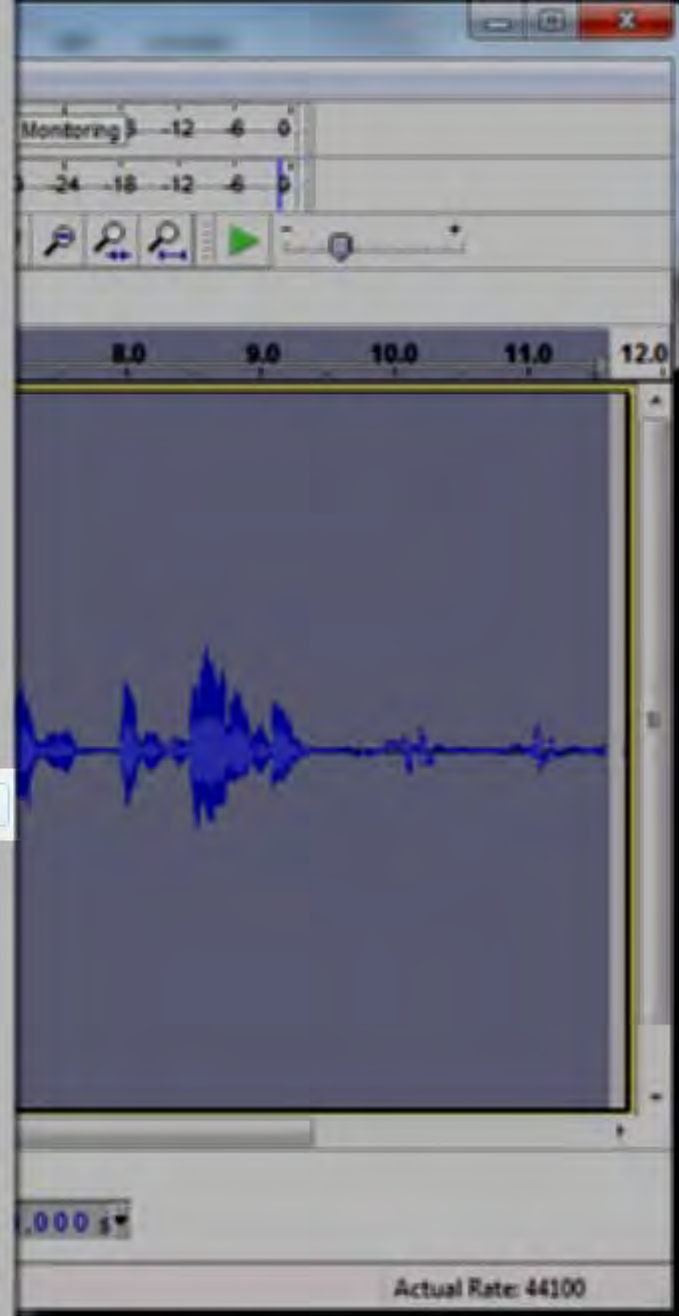
Windows Direct

Audio Track
Mono, 44100Hz
16-bit PCM
Mute Solo

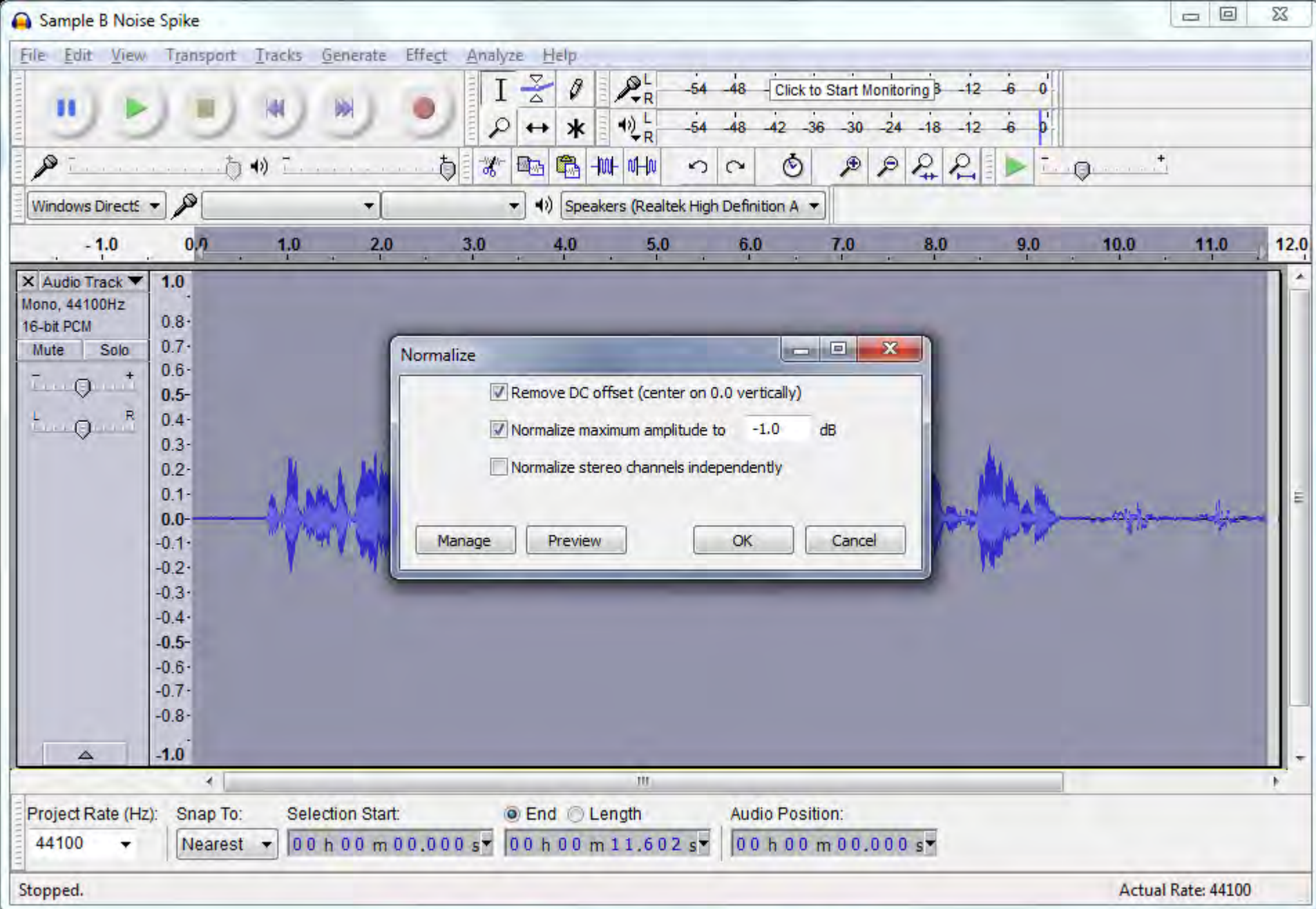
Project Rate (Hz): 44100
Snap To: Nearest
Selection Start: 00 h 00 m 00.000

Stopped.

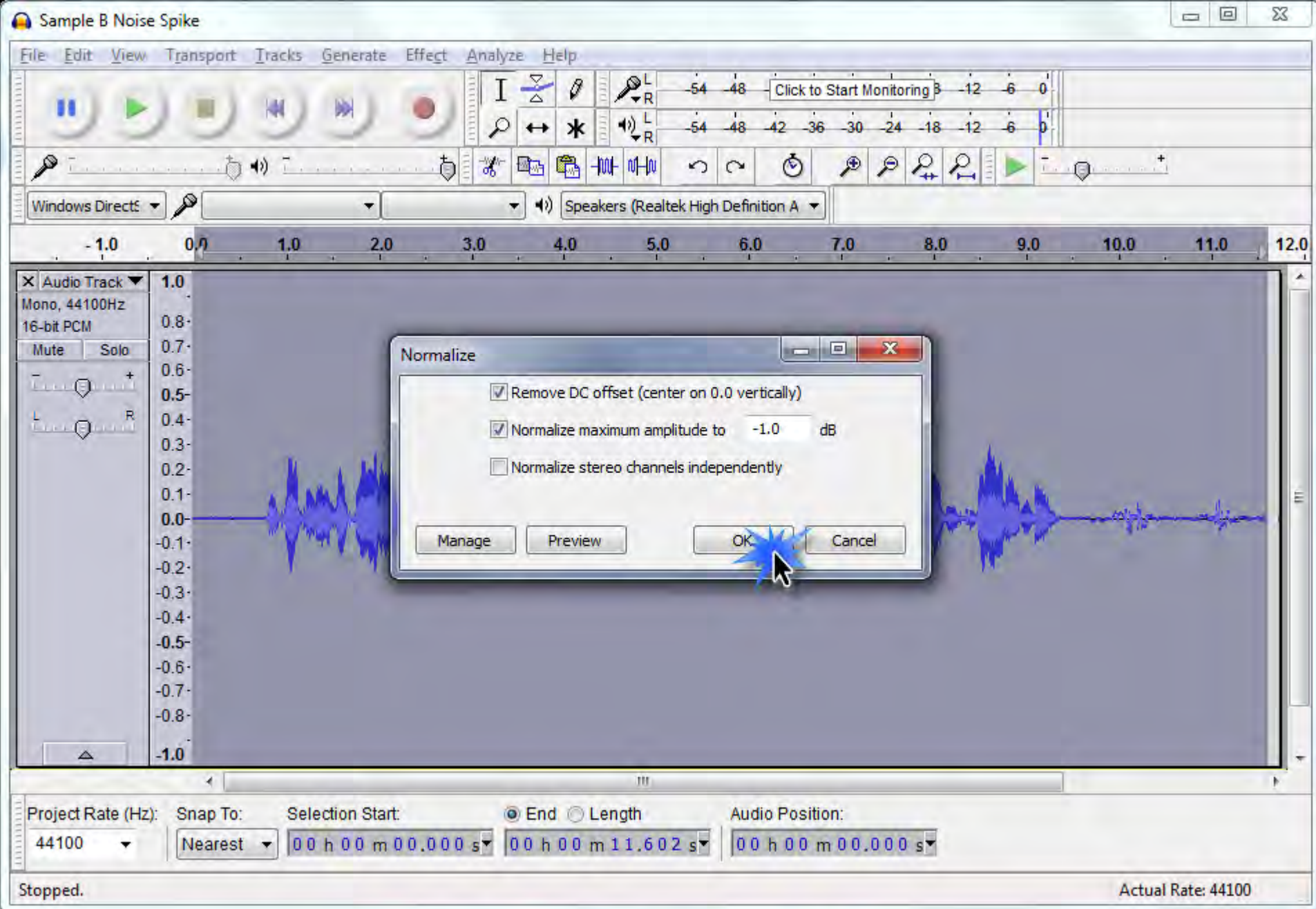
- Manage...
- Repeat Normalize Ctrl+R
- Amplify...
- Auto Duck...
- Bass and Treble...
- Change Pitch...
- Change Speed...
- Change Tempo...
- Click Removal...
- Compressor...
- Echo...
- Equalization...
- Fade In
- Fade Out
- Invert
- Leveller...
- Noise Reduction...
- Normalize...
- Nyquist Prompt...
- Paulstretch...
- Phaser...
- Repair
- Repeat...
- Reverb...
- Reverse
- Sliding Time Scale/Pitch Shift...
- Truncate Silence...
- Wahwah...
- Adjustable Fade...



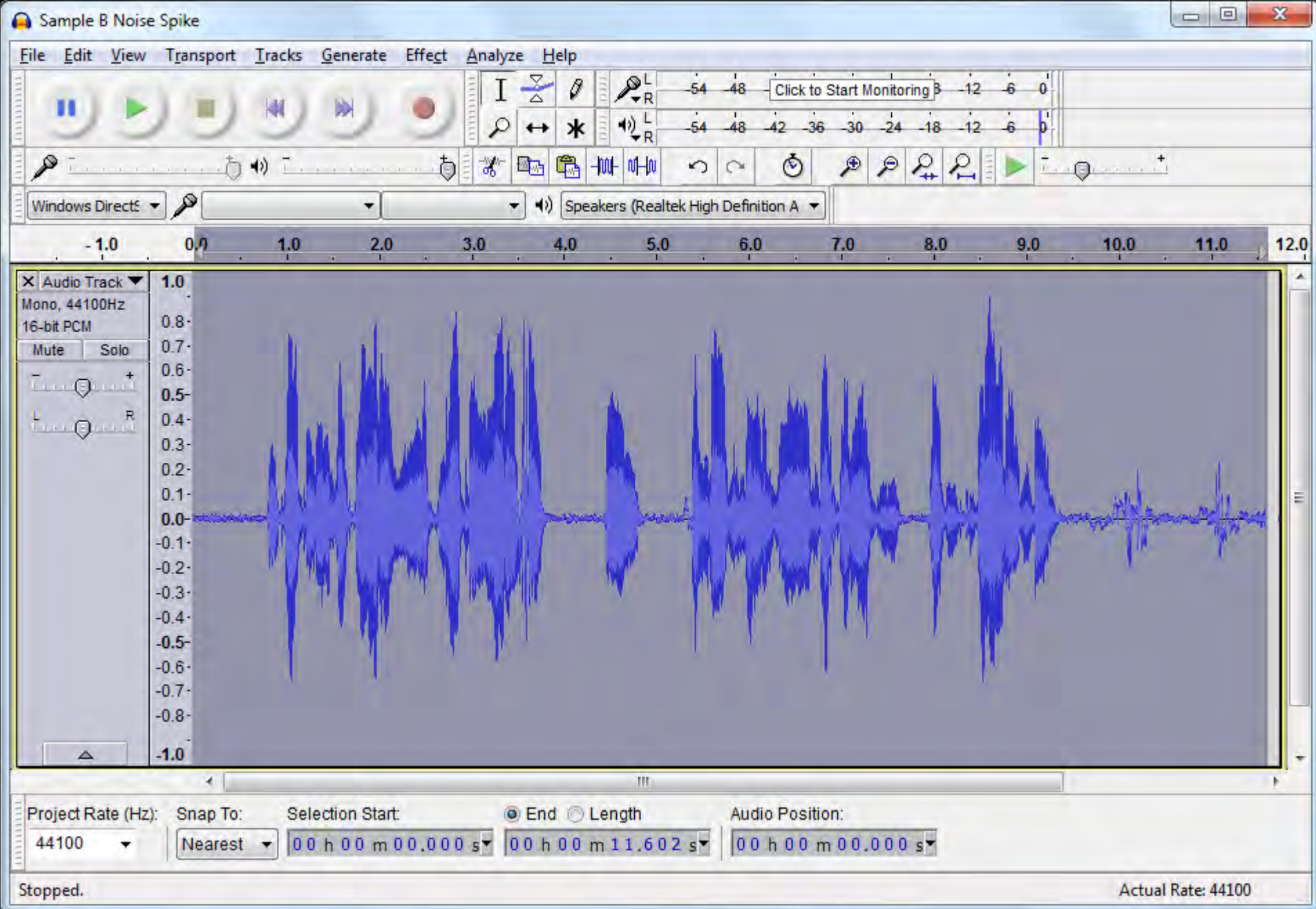
Effect > Normalize



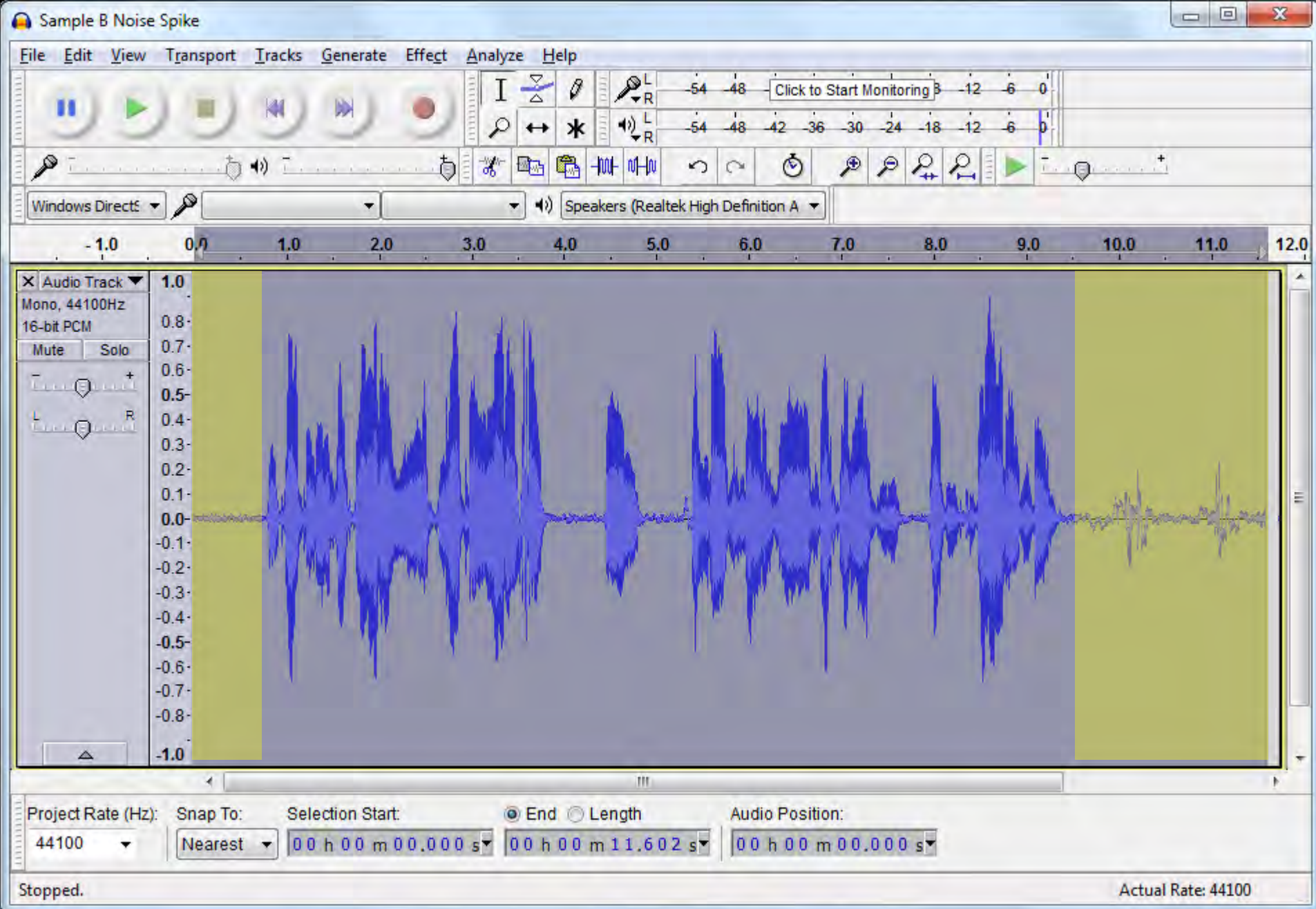
Normalize to -1 dB



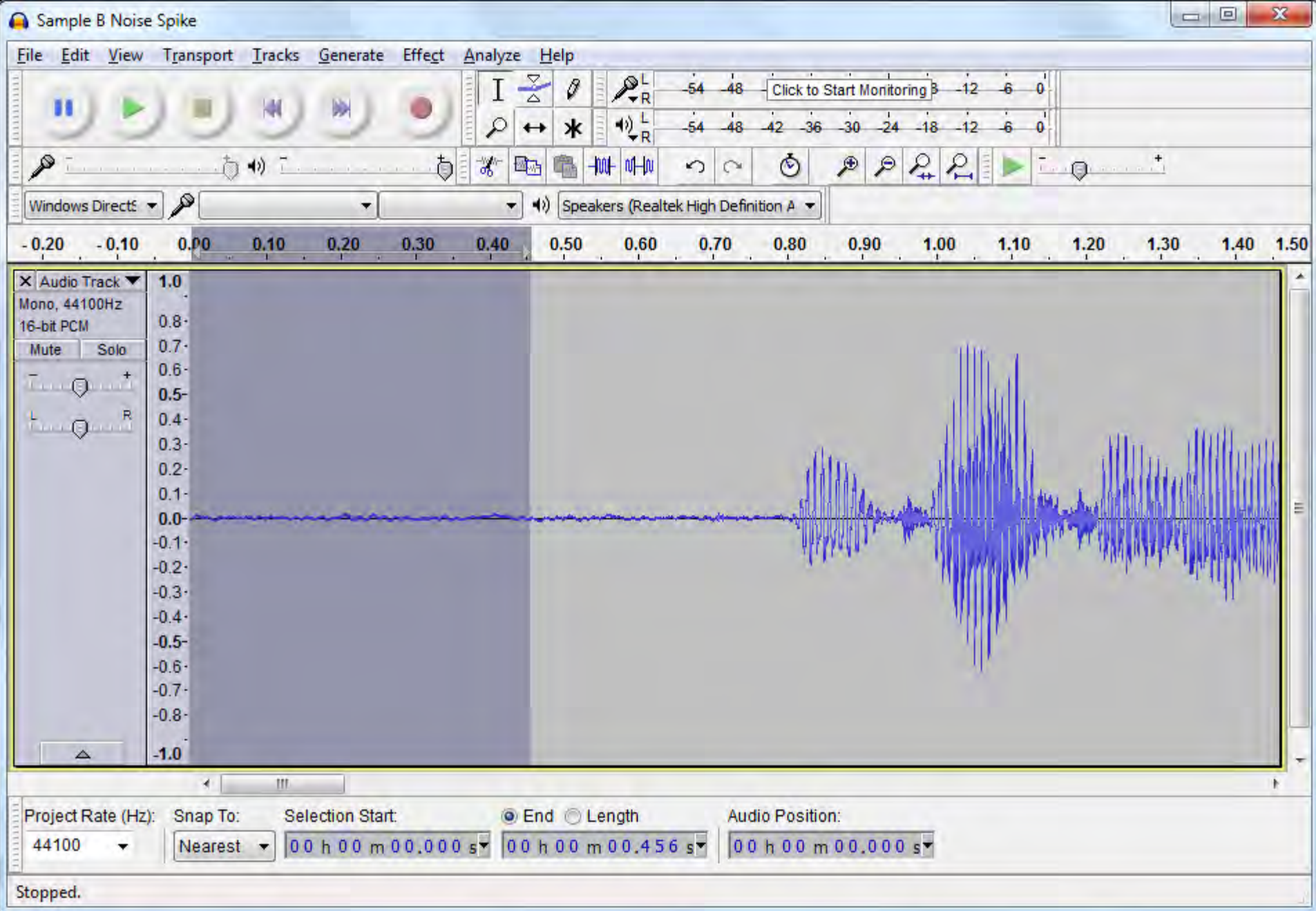
click OK...



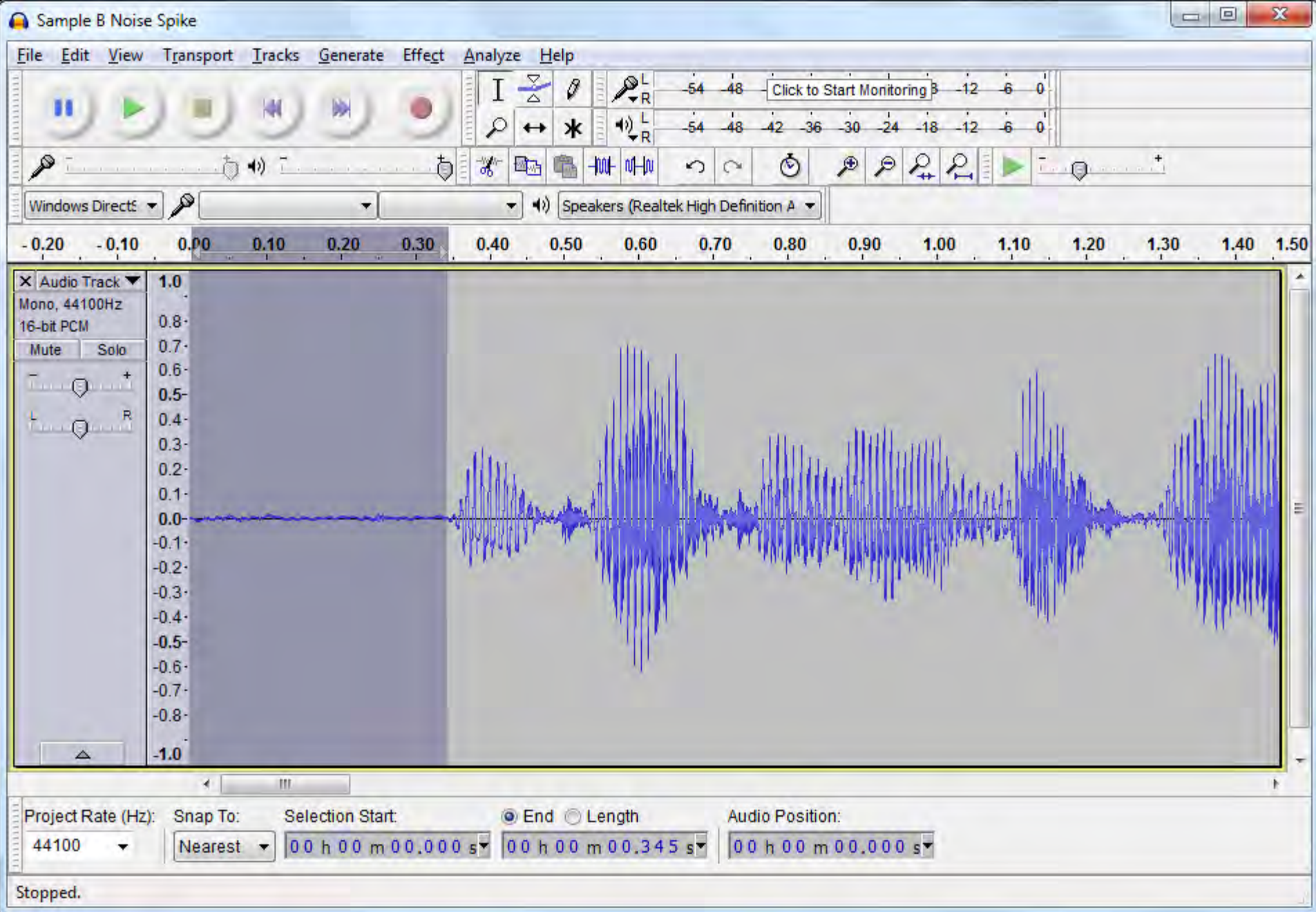
Normalized to -1 dB



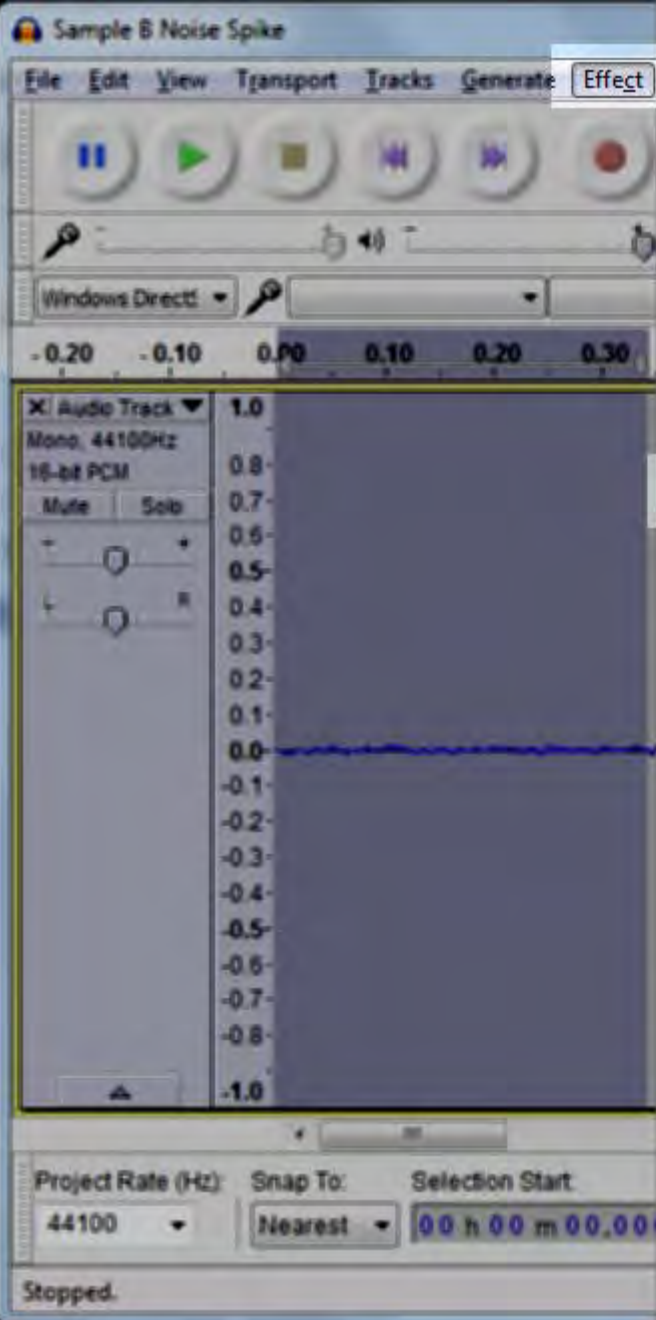
now, trim the “excess material”



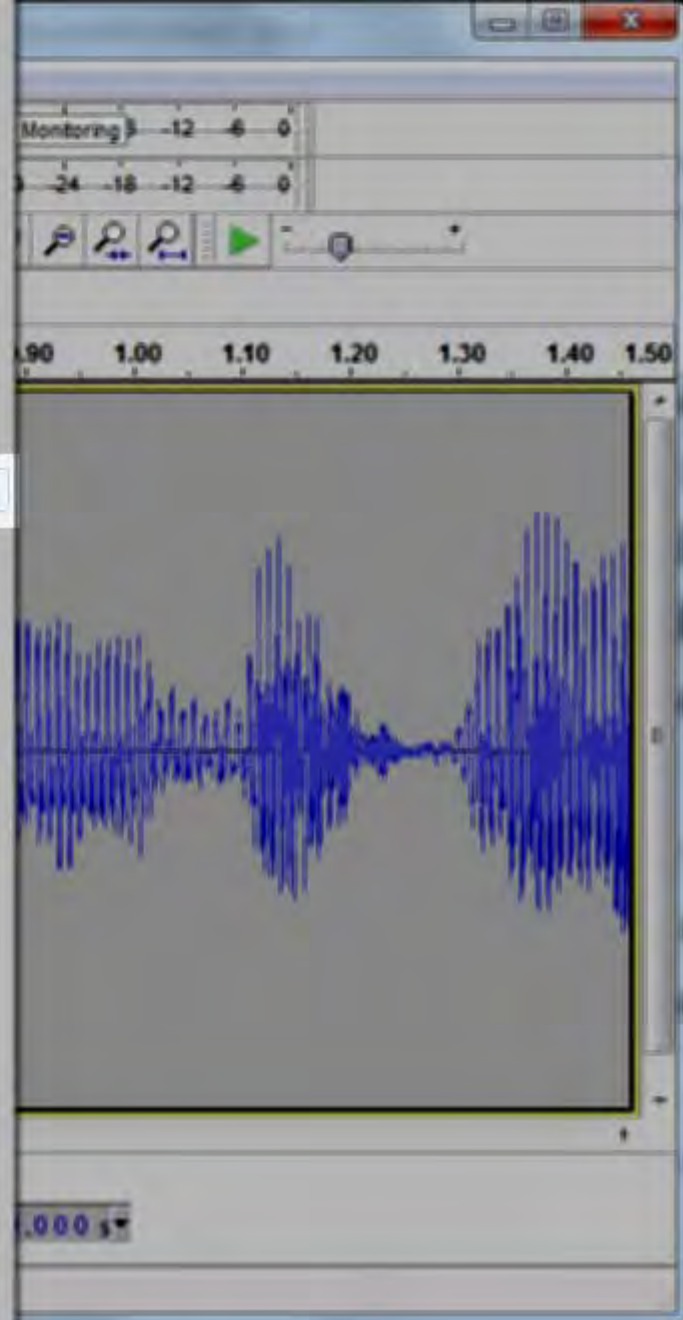
select the excess material and delete



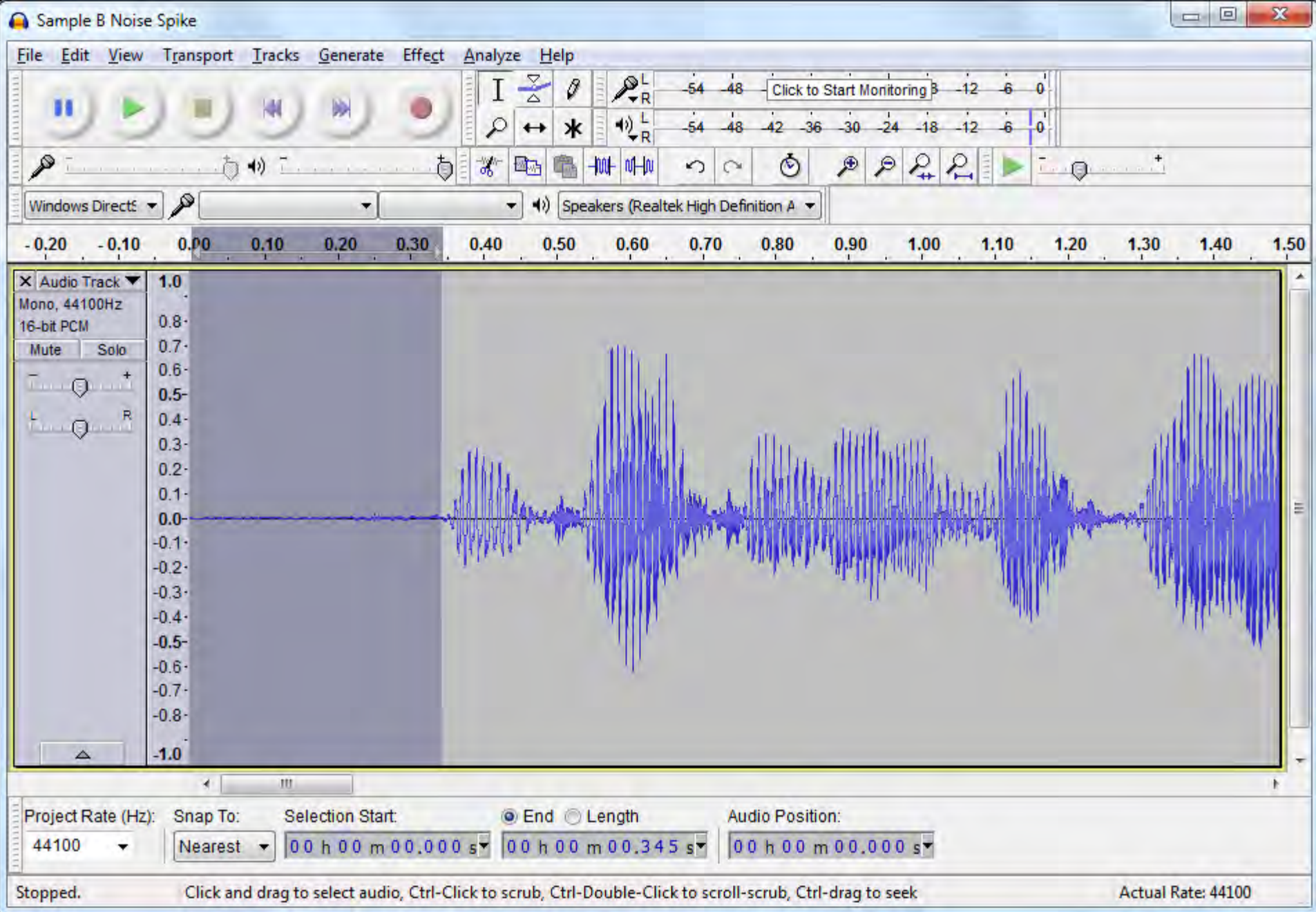
select the fade-in area



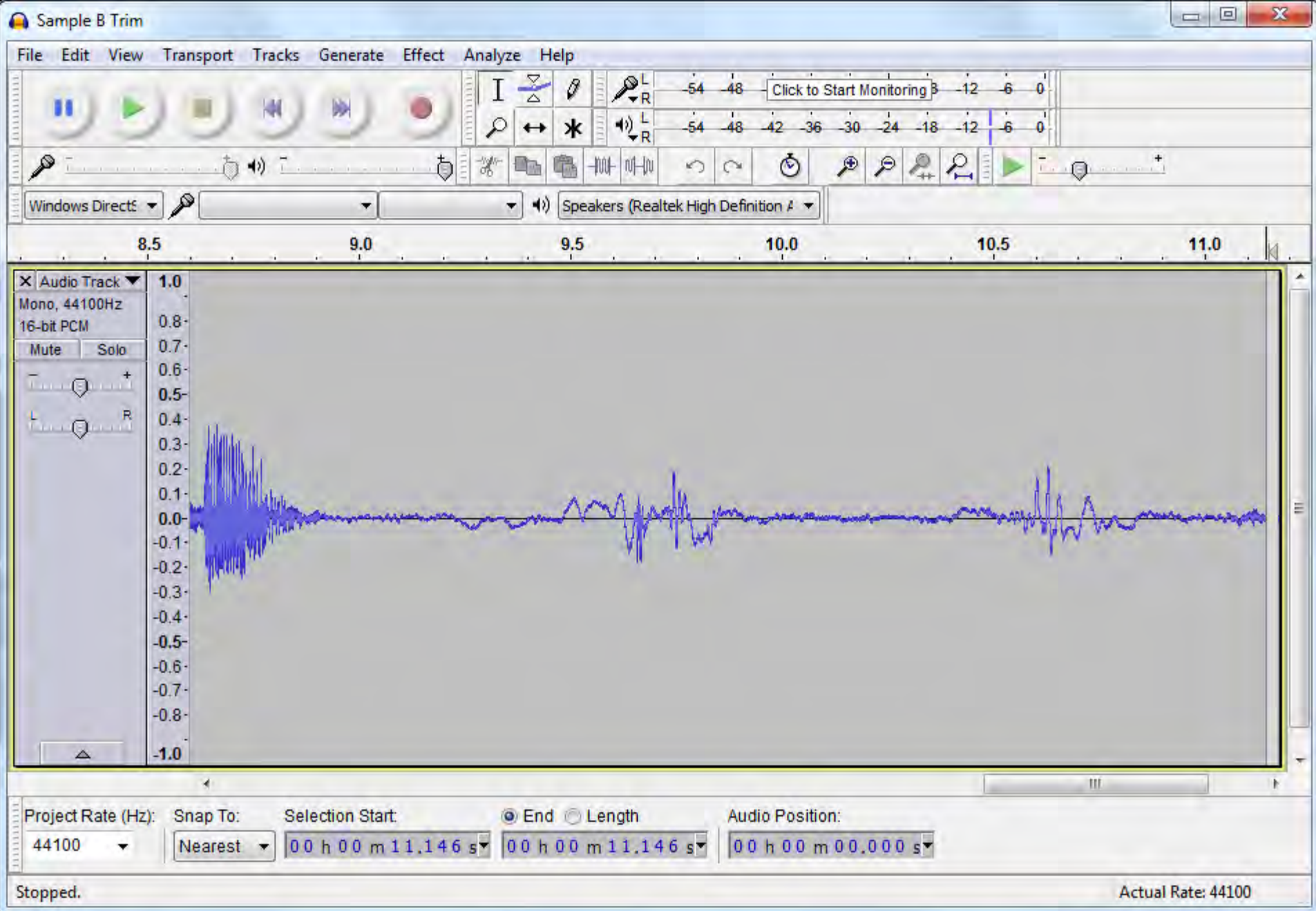
- Amplify...
- Auto Duck...
- Bass and Treble...
- Change Pitch...
- Change Speed...
- Change Tempo...
- Click Removal...
- Compressor...
- Echo...
- Equalization...
- Fade In
- Fade Out
- Invert
- Leveller...
- Noise Reduction...
- Normalize...
- Nyquist Prompt...
- Paulstretch...
- Phaser...
- Repair
- Repeat...
- Reverb...
- Reverse
- Sliding Time Scale/Pitch Shift...
- Truncate Silence...
- Wahwah...
- Adjustable Fade...
- Clip Fix...
- Crossfade Clips



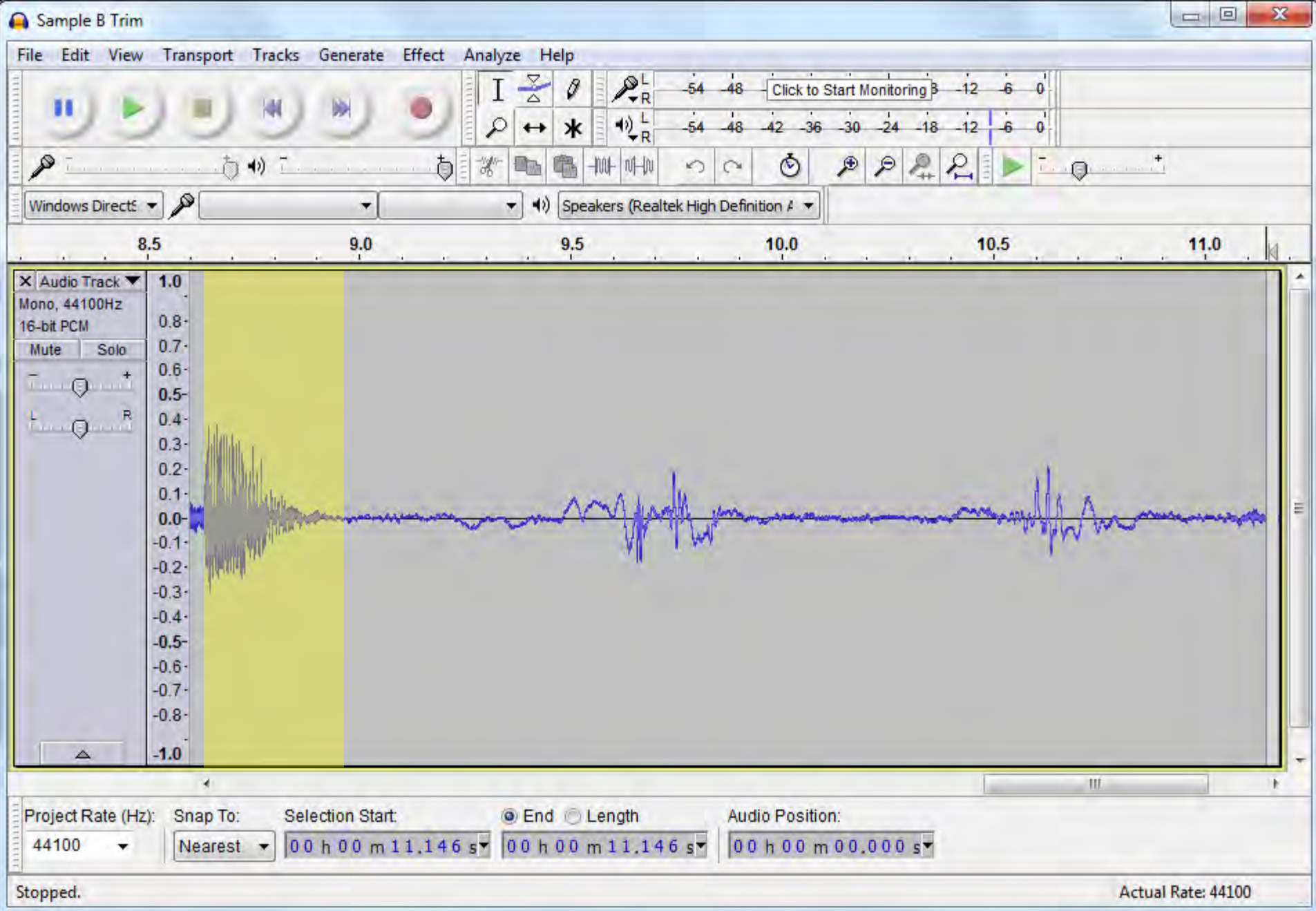
apply the fade-in effect



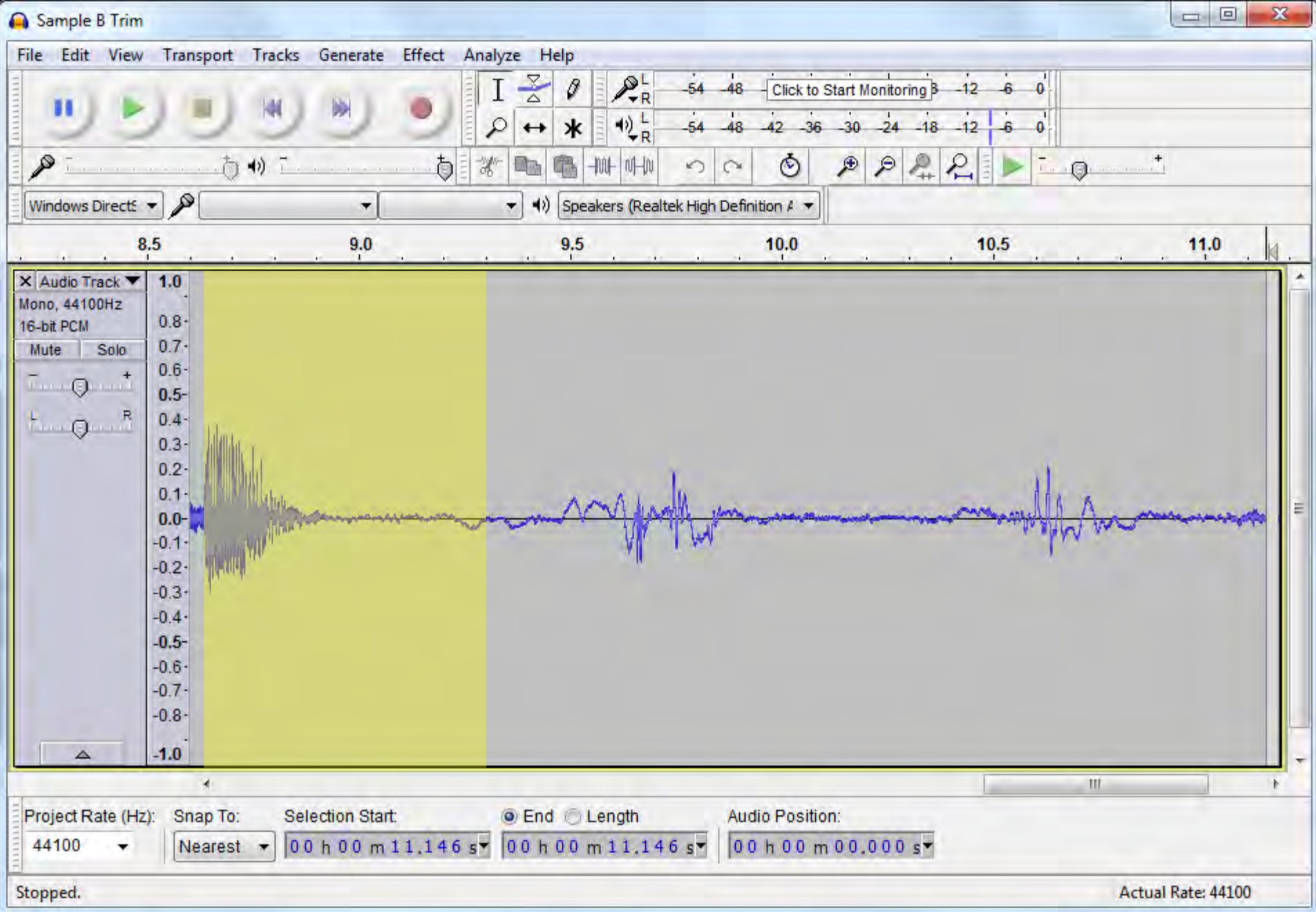
now the track fades in



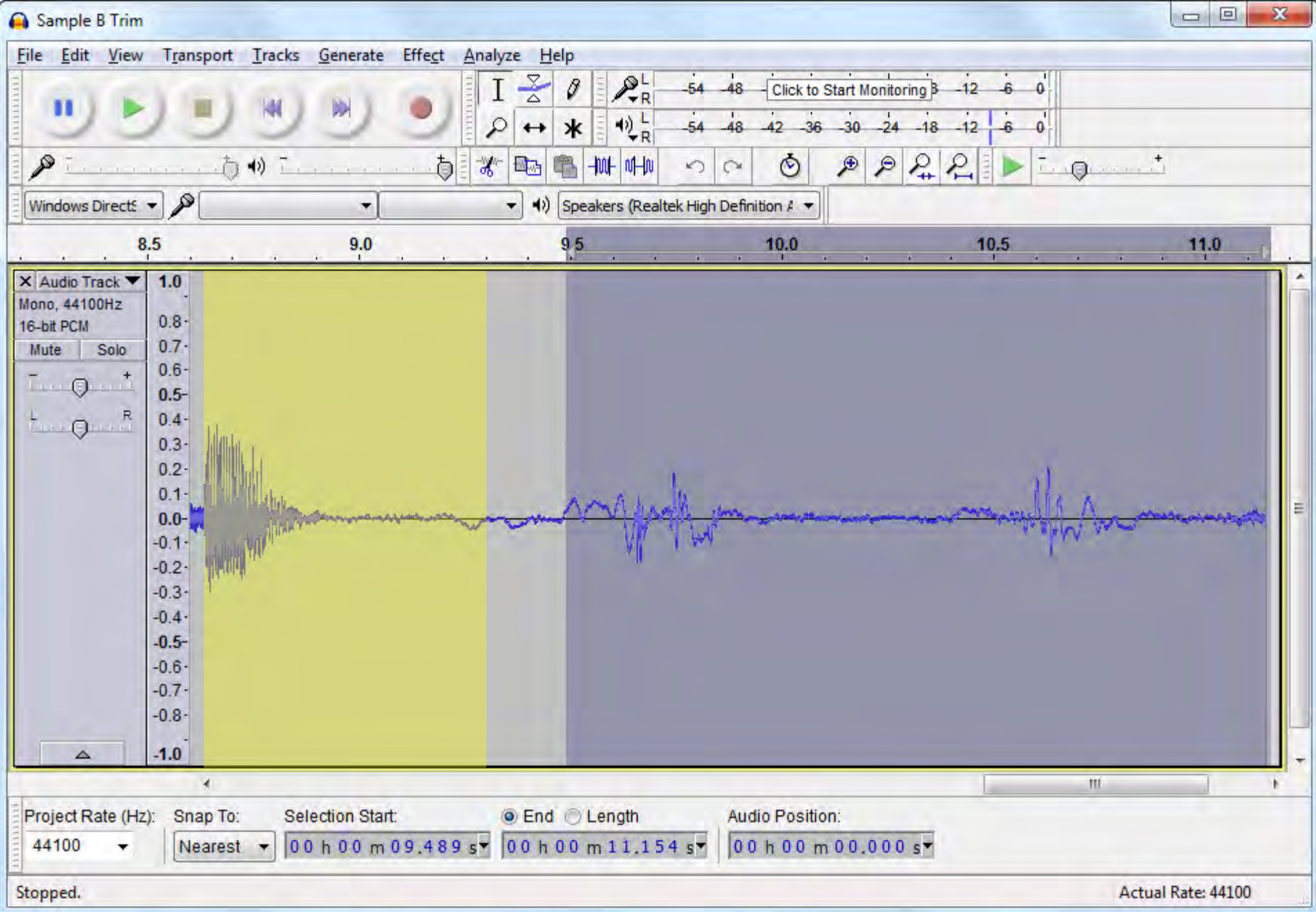
now, a trim and fade-out at the end



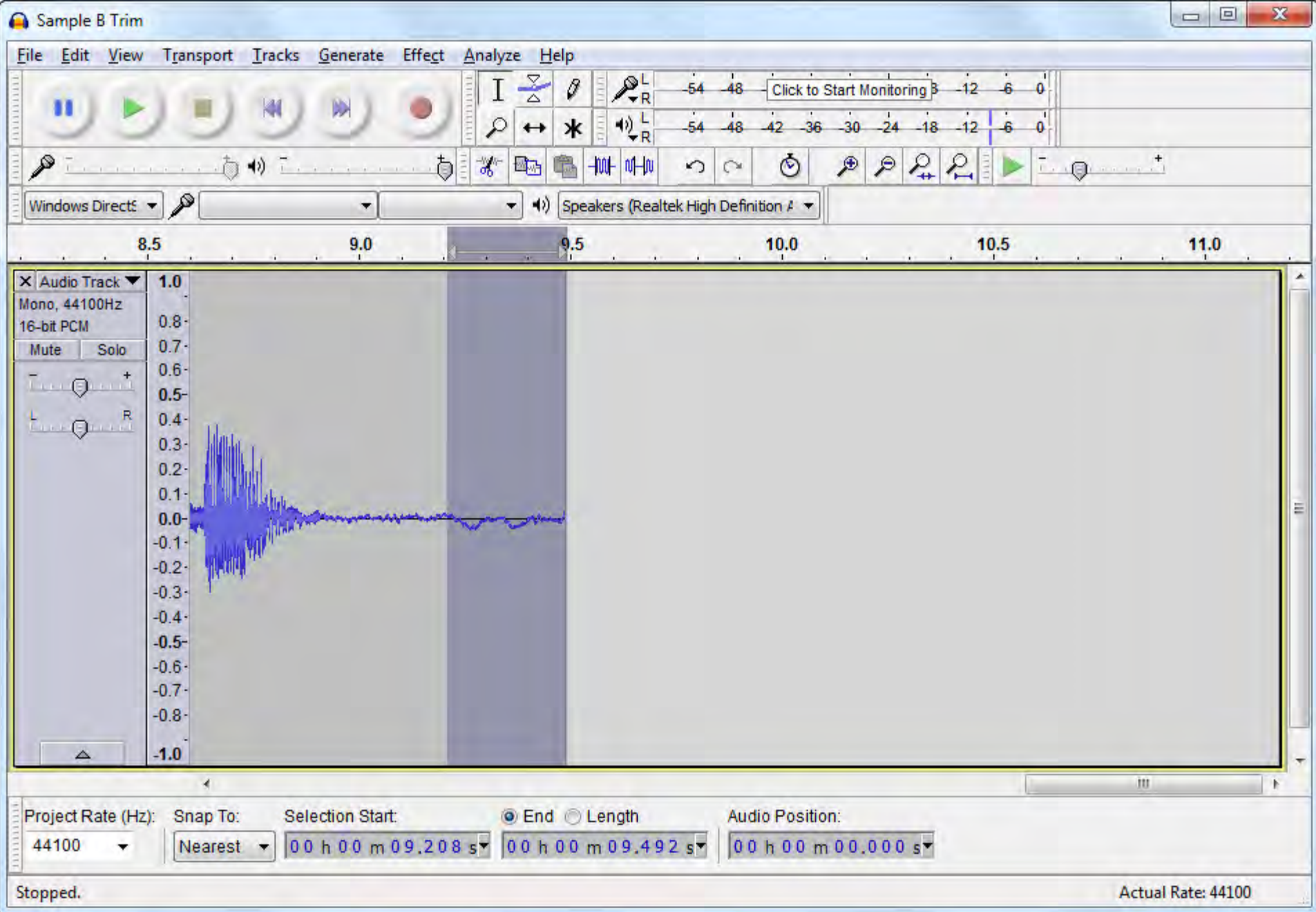
listen before you edit



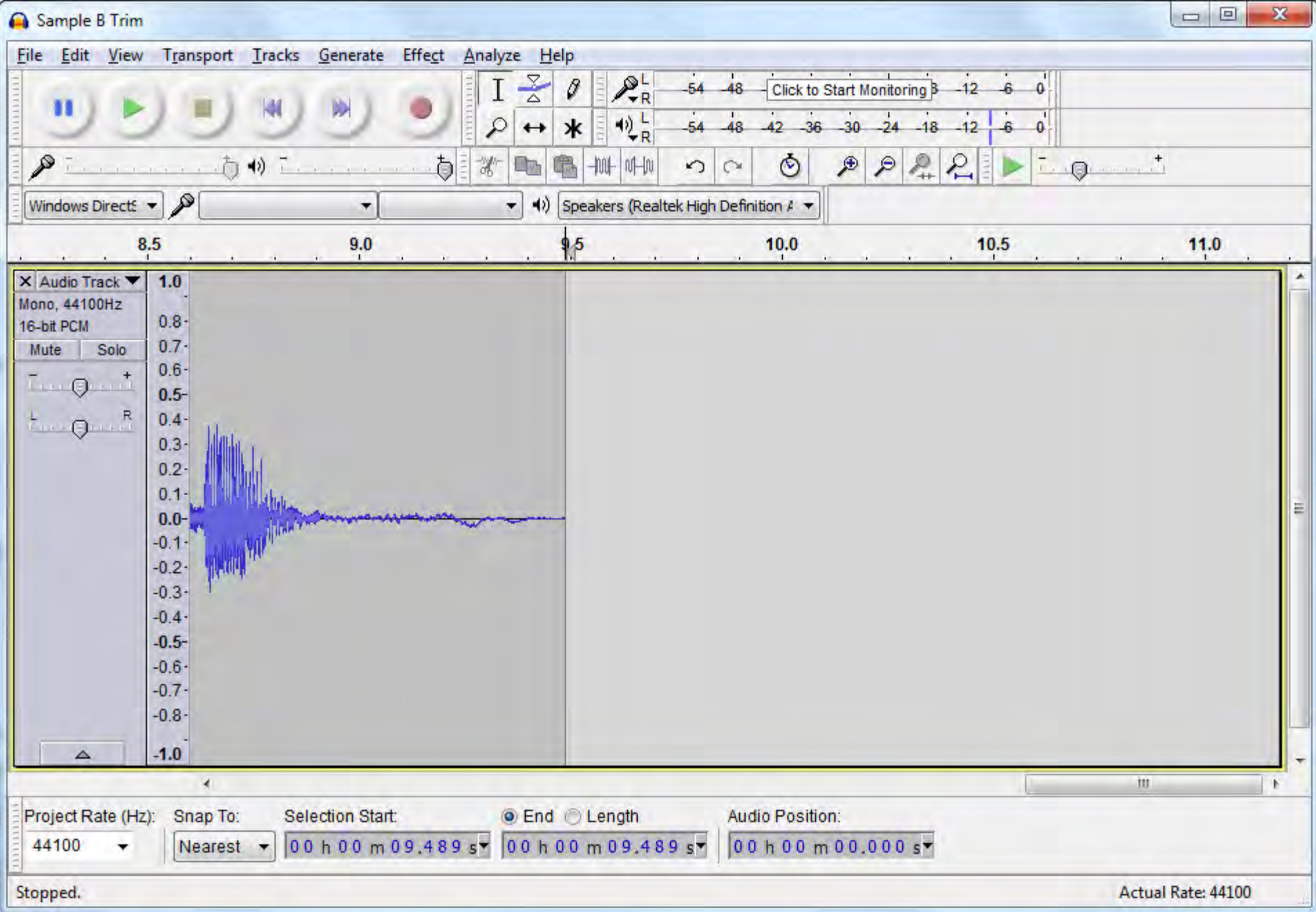
listen *before* you edit



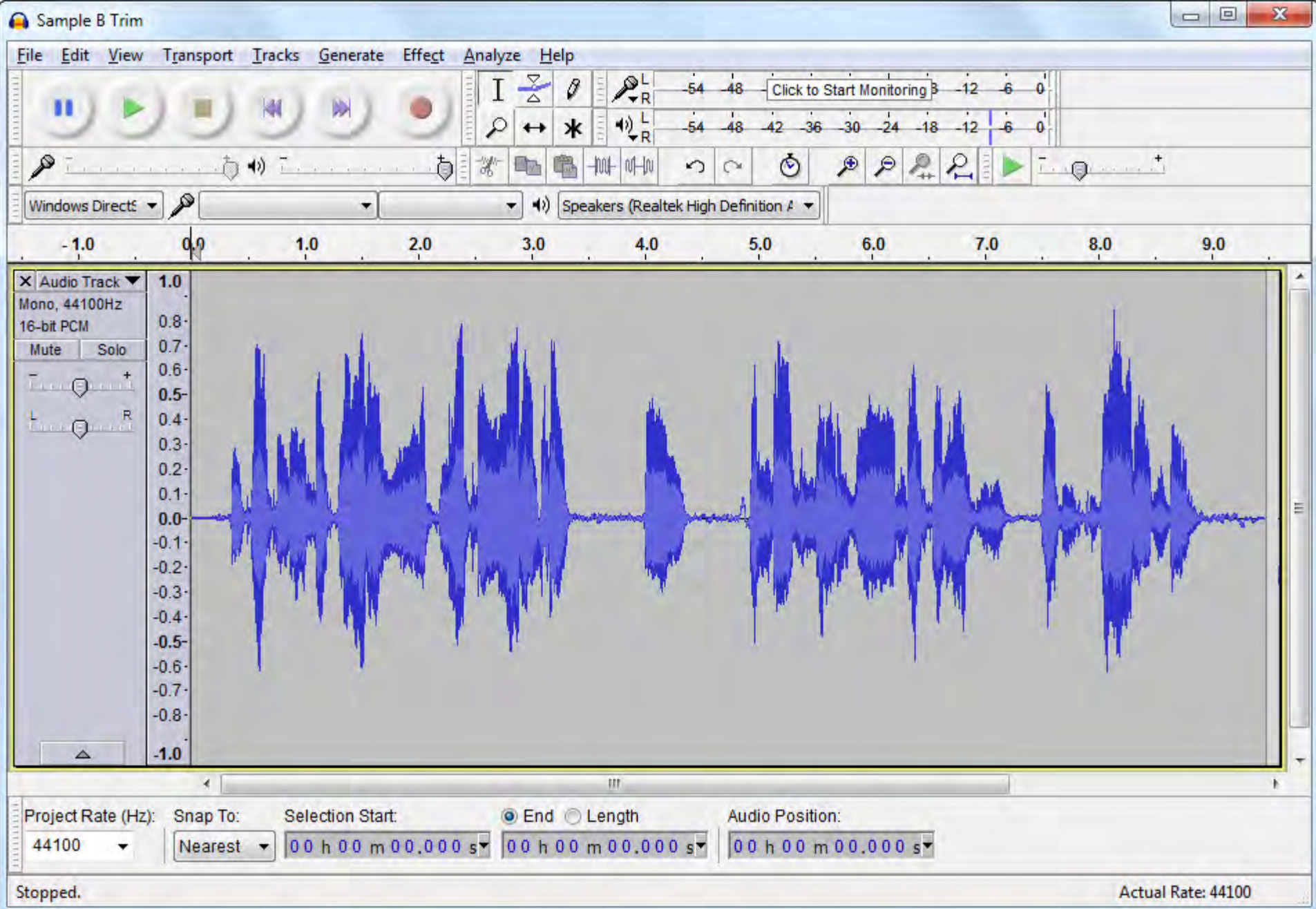
now, a trim...



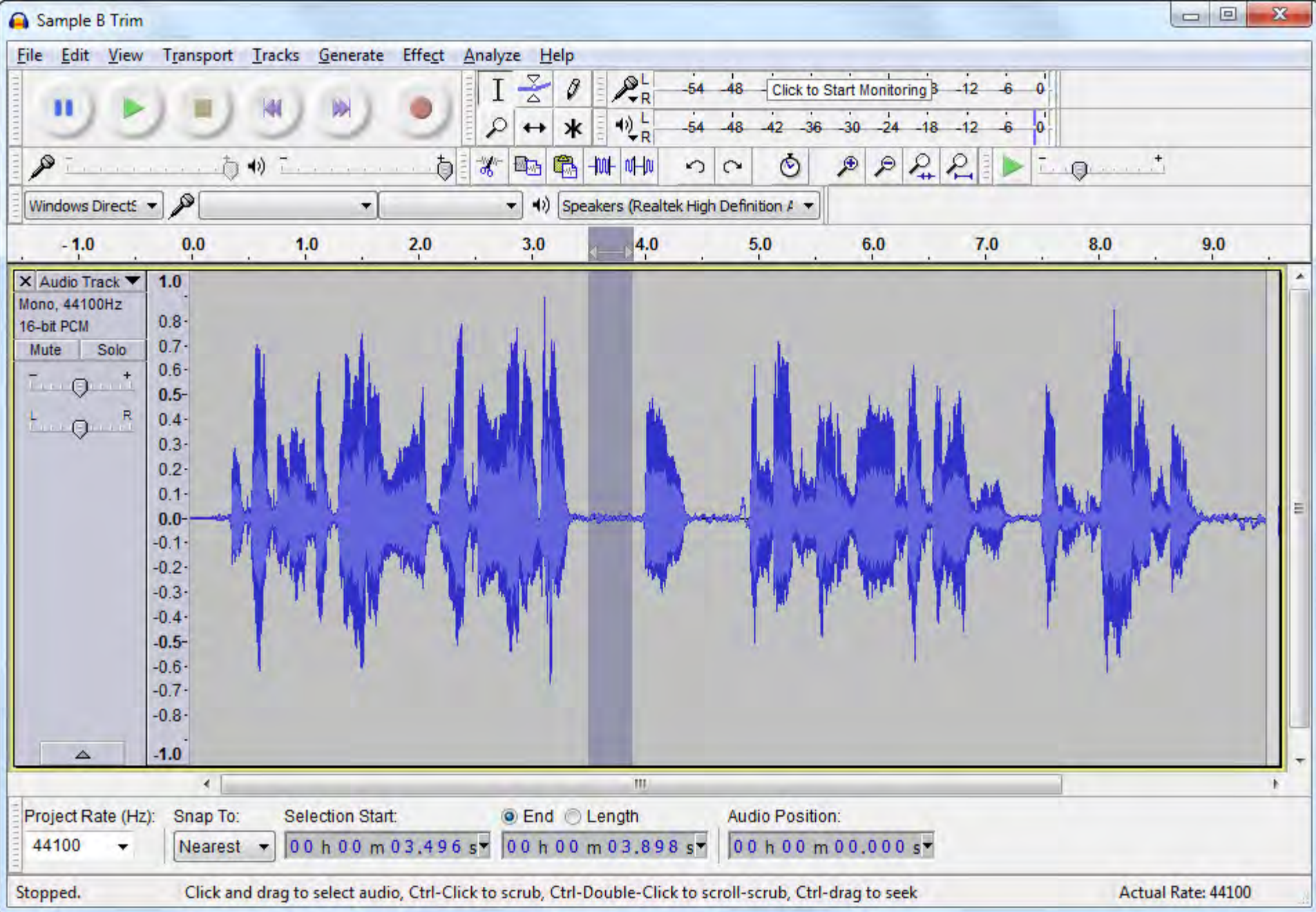
now, a fade-out...



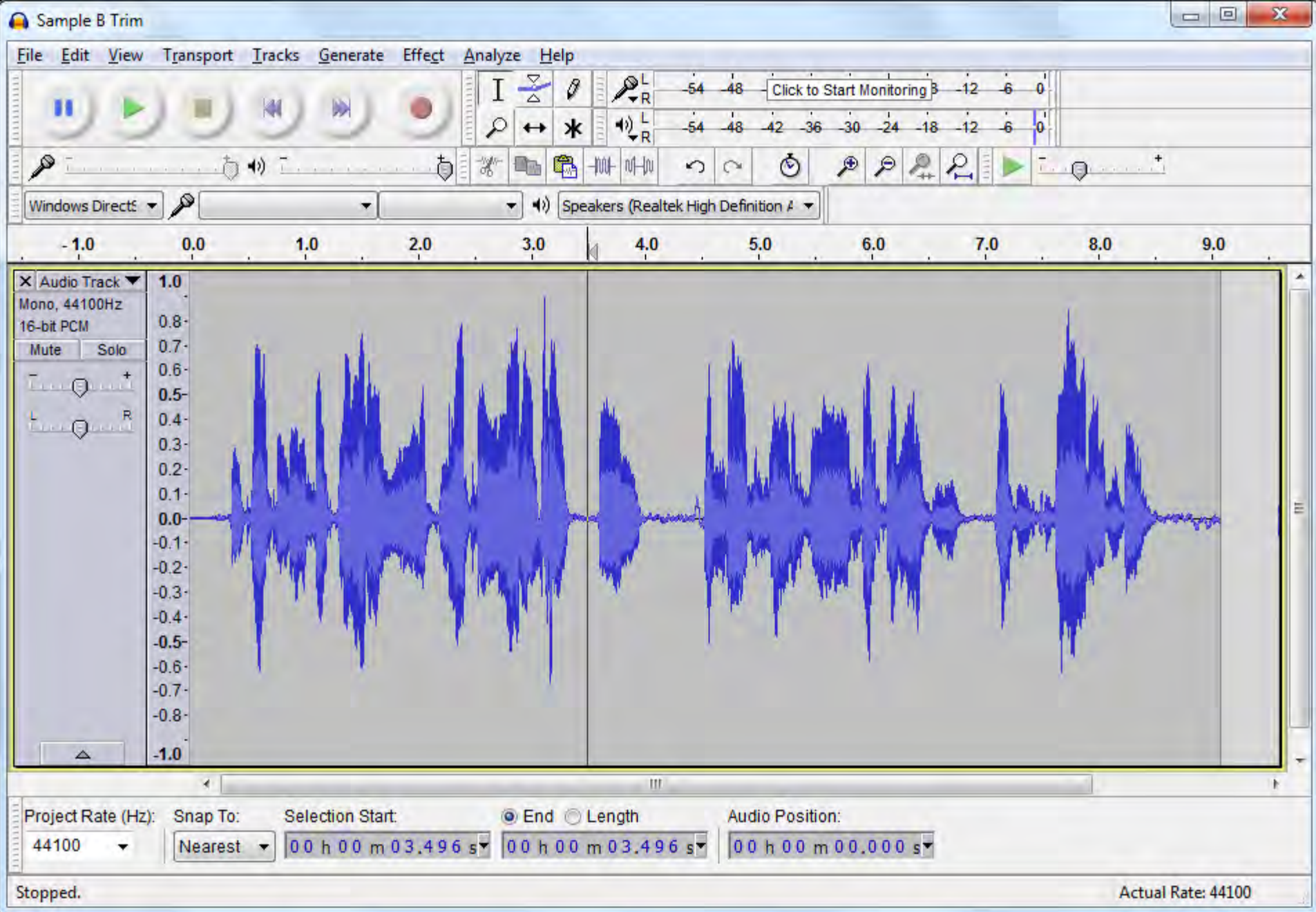
...and...



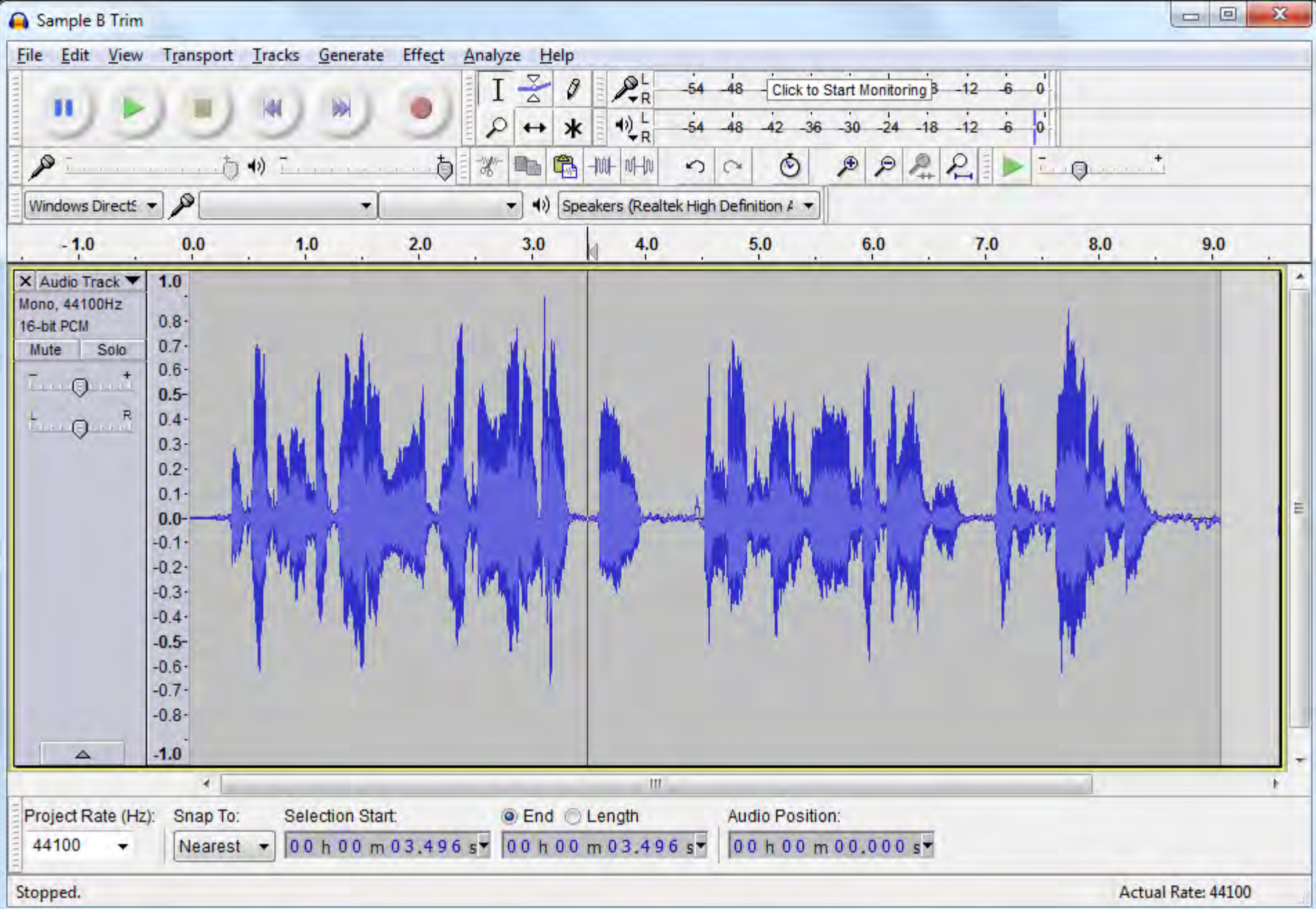
Voila!



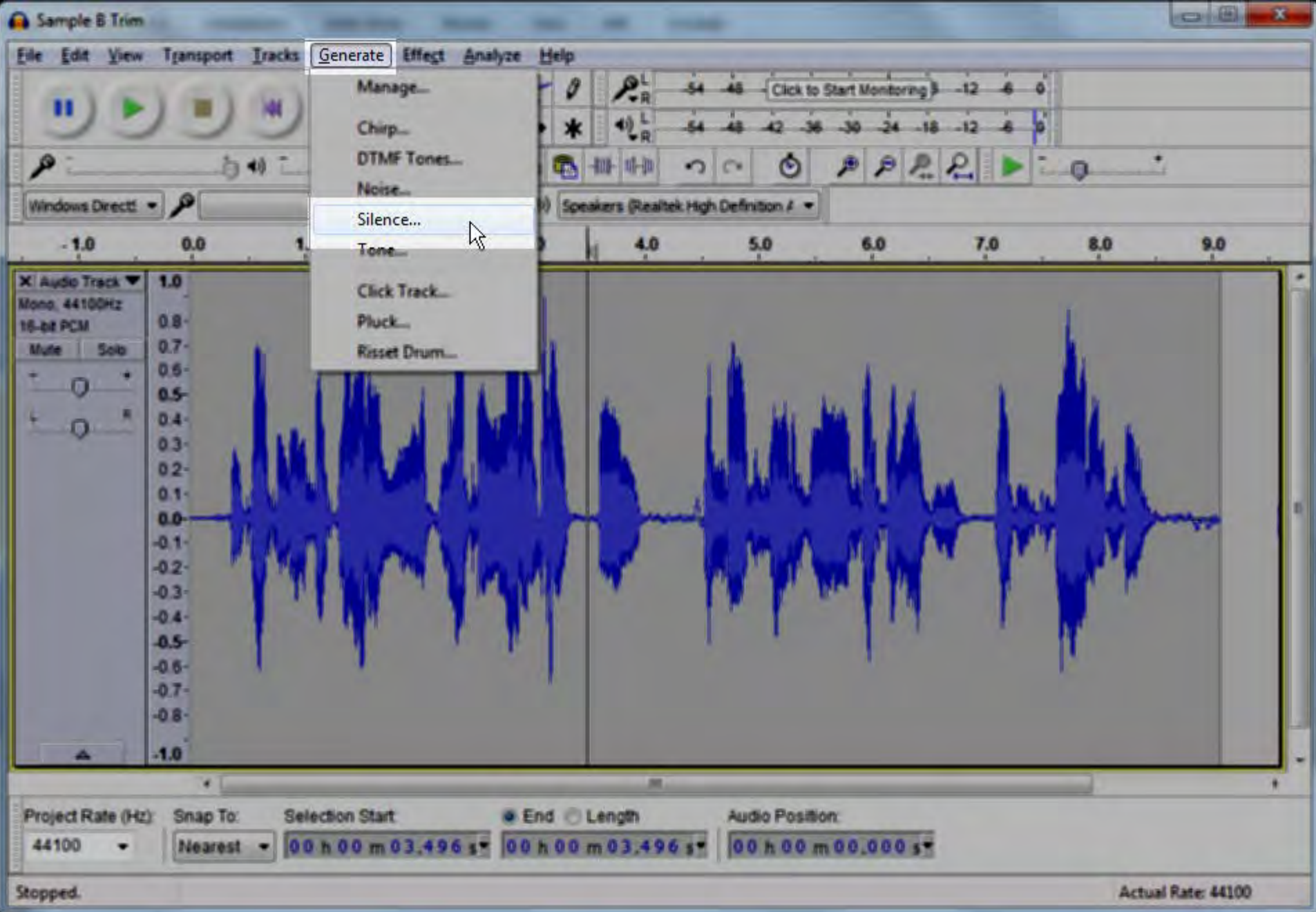
select...



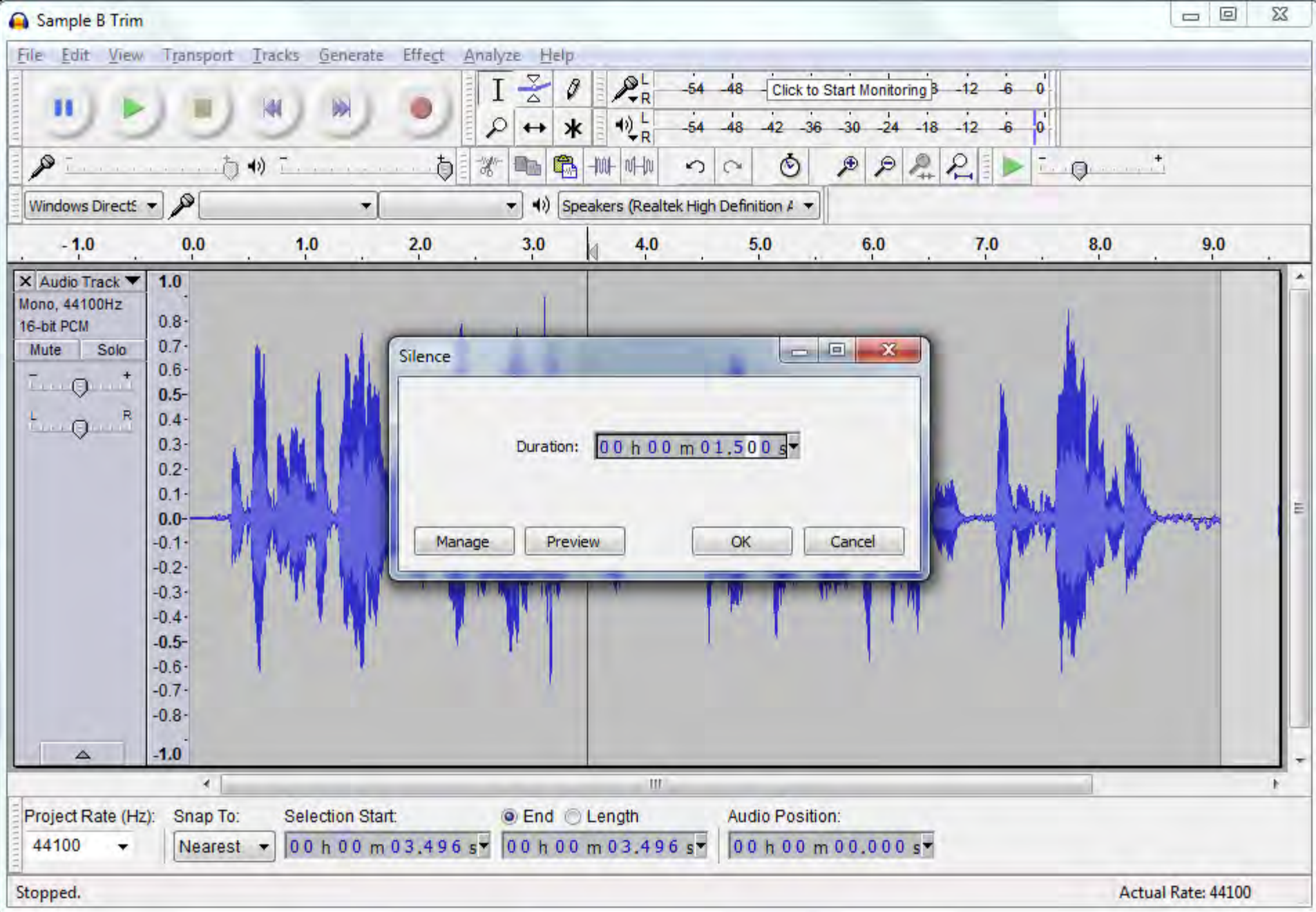
...and delete to tighten timing



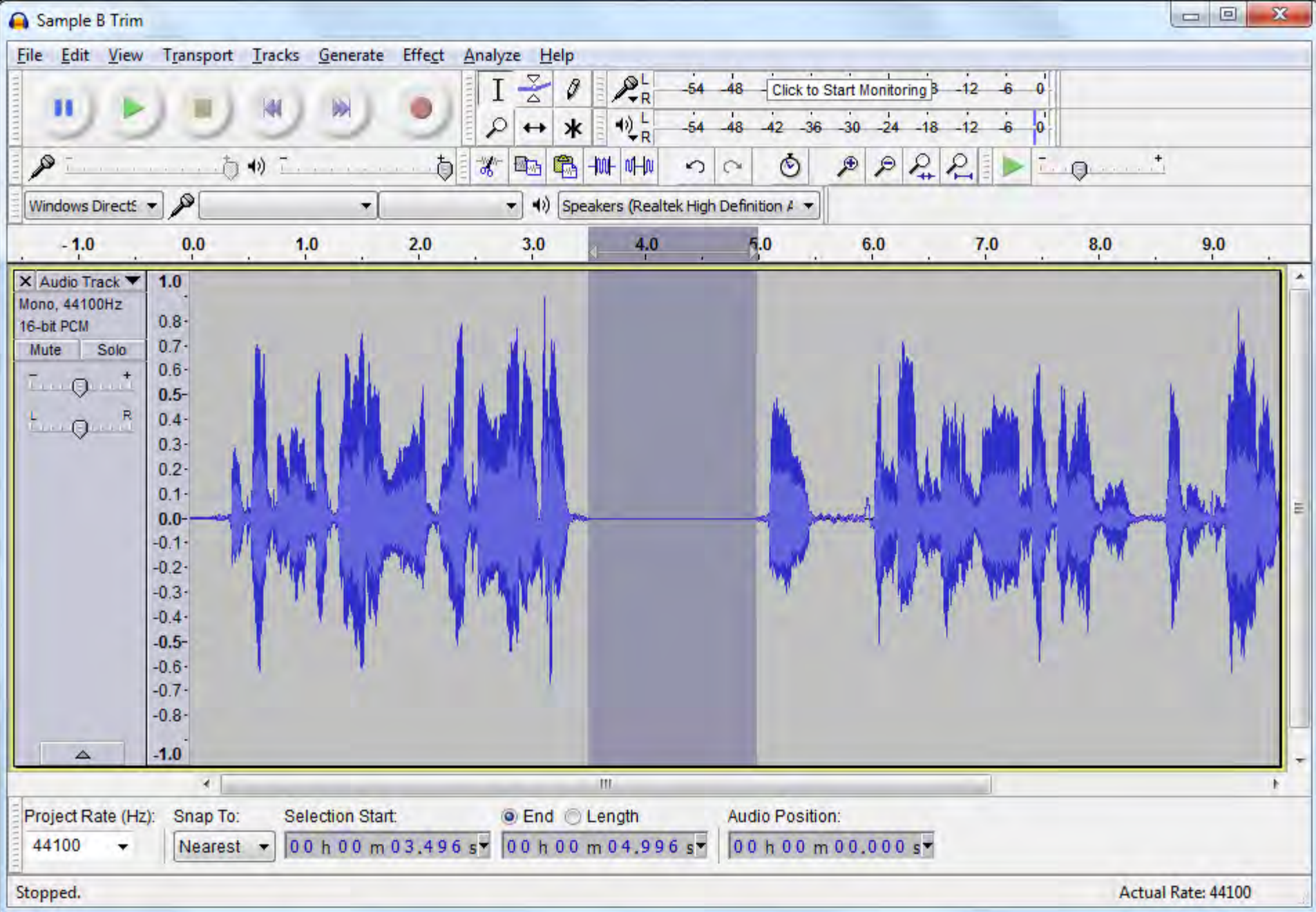
place the cursor...



choose Generate > Silence...



specify length...



...and click OK to add time

The Levelator

<http://www.conversationsnetwork.org/levelator>



the last step is The Levelator



Thank You.

Robert Hershenow

rdhersh@gmail.com

(510) 368-6355



Project

Set up project file structure.

Special Bonus Section!


```
graph TD; Project[Project] --- OriginalRecordings[Original Recordings];
```

Project

Save original recordings.

Original
Recordings

Also backup remotely

Project

Save working files in increments.

Original
Recordings

Working
files

Save these incrementally, and keep a log

Project

A separate folder for outputs.

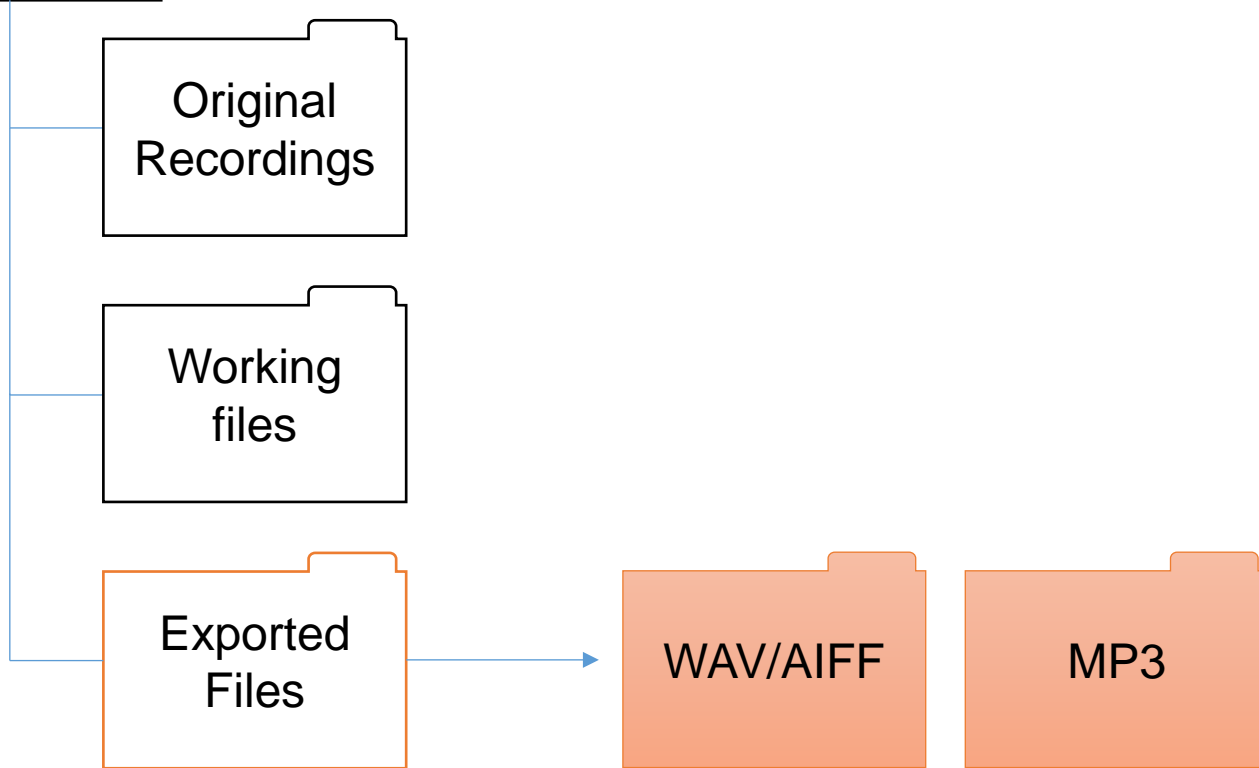
Original
Recordings

Working
files

Exported
Files

WAV/AIFF

MP3



Project

A separate folder for extras.

Original
Recordings

Working
files

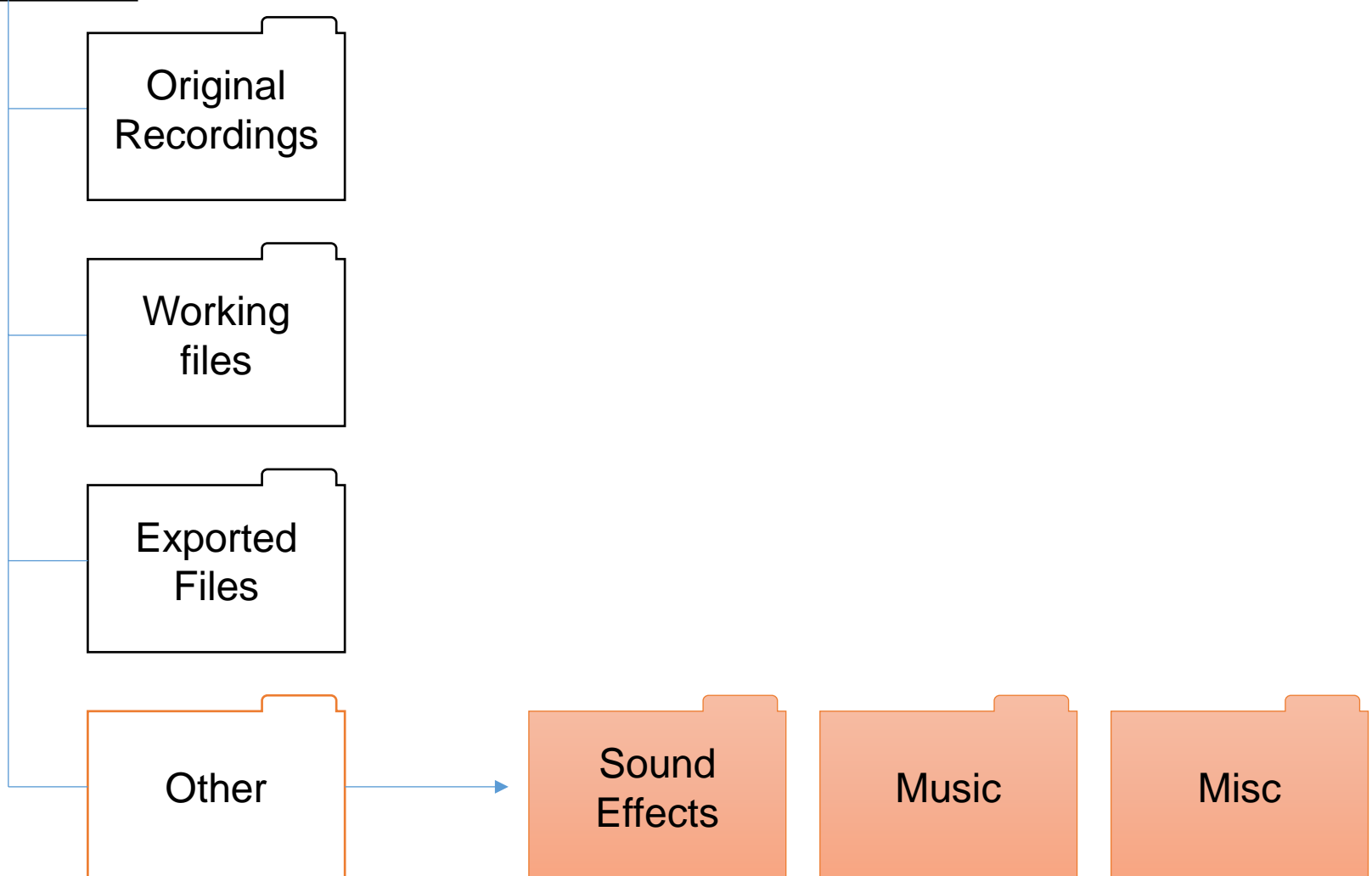
Exported
Files

Other

Sound
Effects

Music

Misc



Project

Organization saves time later on.

Original
Recordings

Working
files

Finished
Files

Other

