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**NOTE:** Due to limitations on the numbers of characters allowed for file names in Pro Tools and other DAE programs, we have had to abbreviate many of the actual file names – but not the folders in which they are stored. Always check the name of the folders and the tracks contained within when you import them to ensure you have the correct names.

## Exterior Ambiances

**AM RUSH HOUR OUTDOORS A** Suburban summer morning – lots of birds and squirrels chirping. Traffic nearby and far off in distance and jet plane flyovers. Total time 1:30

**AM RUSH HOUR OUTDOORS B** Suburban summer morning – later hour. Different traffic patterns including distant truck noise and no jet flyover. More cars starting and driving off in this version. Birds and squirrels with occasional dog barking. Total time 2:30.

**CAR IN DRIVEWAY** Morning rush hour traffic in distance. Birds and squirrels closer. In left front to side, house door closes. Car door opens and closes. Car starts, shifts into gear and backs down driveway to street. Car changes gear and drives off. Total Time 1:10

**DISTANT TRAIN HORN** Another suburban morning, early September. Slightly windy. Train horn is heard in distance on left side. Less bird and squirrel noise but more traffic noise in both distance and closer. Car doors and cars starting heard. Train horn continues throughout. Truck backing beep noise also heard. Total time 3:00

**LATE NIGHT HELICOPTER FLYOVER** Lots of crickets and toads background noise. Aero Med Helicopter sound comes from right rear and flies over to left front. Total time 1:30

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**TRAIN AND FIRETRUCKS** Suburban October morning. Birds, squirrels, and windy conditions. Fire truck sirens are heard on left in distance first then train horn is heard. Neighbors talking in background for a portion of the recording. Ambulance warbler sirens also heard. Approximately 6 to 8 different emergency vehicle sirens are heard throughout the recording. Total Time 6:00. (For those wondering local news later said it was a vehicle accident with no serious injuries. A fuel tank rupture was the reason for the large response).

**WINDY MORNING** Same morning as the Train and Fire Trucks recording but much earlier. Lots of wind, some crickets and tree branch squeaks. Distant traffic and local car drivebys. Total time 3:30.

## Industrial Sounds

### CITY STREETS & SANITATION CREW

**BACKHOE & CREW** – Caterpillar backhoe tractor filling hole in street. Also crew shoveling dirt and asphalt. Dump truck engine and air brakes in background as well. Total time 2:57.

**CREW DRIVE OFF** – Streets & San crew driving trucks off after job completion. Total time – 2:36

**SEWER VACCUM CREW** – Large sewer vacuum truck operation – with run up and run down of vacuum.

**Sewer Vac A** – Five-minute version with multiple vacuum run up and run down. Total time – 5:33

**Sewer Vac B** – Short version vacuum runs up and down once – Total time – 50 seconds.

### GARBAGE TRUCK

Outdoor suburban ambiance. Garbage truck drive up – collects garbage from nearby homes and drives away with several stops. Dog barking in background.

Total Time – 3:45

## MECHANIC'S SHOP

The Mechanic's Shop is actually the repair center for a Fire and Emergency Services Vehicle dealership. Unless otherwise noted, the microphone array was placed as close to the equipment being used as possible. Each recording features the equipment being turned on, used, and then turned off with, when applicable, rundown of the equipment. In the case of the scrap metal being dropped all sounds were recorded approximately five feet away from drop point.

**ACETYLENE TORCHES** Two different size torches, large unit and a smaller portable torch, and a misfiring torch.

**LARGE TORCH A:** Ignite, on, adjust flame, and pop off. Total time 14 seconds.

**LARGE TORCH B:** Quick on and off. Ignite and loud pop. Total time 04 seconds.

**SMALL TORCH A:** Ignite with cigarette lighter, adjust flame, cutting, shut off w/o pop sound. Total time 45 seconds.

**SMALL TORCH B:** Ignite with lighter and quick off. 06 seconds.

**TORCH MISFIRES:** The technical term for this is, "idiot holding the torch doesn't let enough gas into the hose". The result is when you try to light the torch you get a rapid sparking sound similar to a machine gun but with a different sound. Several different versions. Total time 13 seconds.

**BAND SAW** Dayton Bandsaw, manufactured in 1975, sawing through 2 inch by 3/8 6063-aluminum alloy aircraft bar.

**Version A:** Power on, sawing through, part of bar drops to floor, power off.

**Version B:** Power on, operator forces cutting bar faster, piece drops to floor, power off.

**BENCH GRINDER** Dayton Bench Grinder manufactured in 1975, one horse motor and 10" grind wheels. Four different type of grind recordings as listed below:

**Bench Grinder 01** – turn on, grinding steel channel - turn off – wheel rundown.

**Bench Grinder 02** – turn on, grinding steel channel with coarser grind wheel– turn off – wheel rundown.

**Bench Grinder 03** – turn on, grinding half inch round steel – turn off – wheel rundown.

**Bench Grinder 04** – turn on, grinding half inch steel round with coarser grind wheel - turn off – wheel rundown.

**BUFFING JACK** Custom built in 1939. Buffing 306 stainless steel to shiny finish.

**Version A** Light buffing wheel start up buffing for a bit, followed by pushing steel on wheel hard enough to stop wheel, releasing run up followed by a bit more buffing, power off and wheel run down.

**Version B** harder density buffing wheel, startup, and buffing then steel pull off hard, power off and wheel run down.

**DIESEL ENGINES INSIDE SHOP** Three different diesel trucks are started inside the shop with the doors closed and no outlet hose on the exhaust system. Engines revved up, and shut down with air brake release at end. Microphone Array was placed approximately 10 to 15 feet away from each truck's exhaust pipe.

**Diesel Engine Version A** – Detroit Diesel V-6; 2-Stroke – straight exhaust no muffler.

**Diesel Engine Version B** – Detroit Diesel Straight-6; 4-Stroke – also straight exhaust no muffler.

**Diesel Engine Version C** – Caterpillar Diesel V-8; 4-Stroke – with typical exhaust and muffler system.

**DROPPING SCRAP METAL** Various scrap steel, aluminum and hardened steel. Bar, angle bar, blocks, and plate scrap being dropped on concrete floor. **Aluminum Plate Drop A:** Quarter inch aluminum plate 10 inches wide four feet long with two inches of one side bent at 90 degrees. Four drops – two on angled side, two on flat side. Total time 19 seconds.

**Aluminum Plate Drop B:** Three pieces of quarter inch by three feet aluminum plate bolted together and dropped. Total time 04 seconds.

**Box of Scrap Steel Dumped** Large amount of various sized scrap steel pieces dumped. Total time 06 seconds.

**Picking Up Steel Shards:** By hand throwing larger scrap steel pieces back in box. Then using shovel to pick up the smaller scrap. Total time 1:45.

**Steel Drop A:** Two versions of same angle bar - first drop, microphone placed five feet away.... Second drop, microphones placed 15 feet away. Total time 11 seconds.

**Steel Drop B:** Hardened one inch thick bar three feet long dropped onto floor with some scrap. Total time 04 seconds.

**Steel Drop C:** Two angle bars, each one-inch by five feet by quarter inch dropped on top of each other in X pattern. Total time 5 seconds.

**Steel Drop D:** Hardened steel bar, half inch thick five inches long bent at center 90 degrees. Total time 04 seconds.

**Steel Drop E:** Several kinds of steel including plate, bar, and hardened block. Total time 03 seconds.

**GARAGE BAY DOOR OPEN & CLOSE:** 16 foot bay doors going up overhead and back down. Microphone array placed approximately five feet from center of door inside shop. Really highlights IMAX channel. Total time 52 seconds.

**HAND GRINDER:** Electric hand grinder with a 4½ inch wheel.

**Hand Grinder Version A:** Cutting wheel on steel channel. Total time 51 seconds

**Hand Grinder Version B:** Cutting wheel as above, different side. Total time 1:02

**Hand Grinder Version C:** Grinding wheel smoothing out surface of steel channel. Total time 51 seconds.

**IMPACT WRENCH** Removing, then putting back on two-inch diameter lug nuts from fire truck wheel. Two versions of different perspectives.

**METAL LATHE** Built in 1912 by the Chard Lathe Company. Two speed direct motor drive. Power on – run – power off.

**Metal Lathe Version A:** Problem with clutch engaging after startup.

Total time 23 seconds.

**Metal Lathe Version B:** Clutch engages no problem. Total time 13 seconds.

**PLASMA TORCH** Powermax 800 Hypertherm Plasma Torch. Cutting half inch by two inch steel bar.

**SHOP HAMMERS:** Five pound shop hammer and ten pound sledge hammer being hit hard on several different types of surface. Each version has a completely different sound from the rest. Multiple hits for all versions but enough pause to isolate each one if needed. Five different versions for the five pound shop hammer and three different versions for the ten pound sledge.

**STEEL PLATE SHEAR** 1926 STAMCO steel plate shear with 30-inch heavy flywheel cutting quarter inch stainless plate bars. Power on, flywheel run-up, four slow cuts and then ten rapid cuts, power off, and long flywheel run-down.

**WELDING ¼ INCH STEEL DIAMOND PLATE** MillerMatic 200 Mig Wire Welder. Welding ¼ inch Steel Diamond Plate to back bumper of delivery truck. Two versions different time lengths.

**WOOD SAWHORSE DROP:** On concrete floor. Total time 03 seconds.

## **STREET SWEEPER – ELGIN WHIRLWIND**

Suburban morning ambiance. The street sweeper is heard in distance then approaching closer from right rear, and passing through left rear side and off in distance again. Total time – 1:41

# Interior Ambiances

## BATHROOM SHOWER STALL

**Bathroom Shower Stall Close Up** – Recorded inside bathroom right outside shower stall. No curtain or liner. Noise of air movement from central air unit running from ceiling vent above microphones is in background. Shower is turned on then off. After a pause the hot air ventilation fan is turned on and shower is run again then off and then ventilation fan turns off and timer for fan is still running.

**Bathroom Shower Stall Down The Hall** – Recorded in next room slightly down the hall from the bathroom. Home's central air unit is running in background. The shower is run and shut off, then bathroom vent fan is turned on and shower started and shut off again, with vent fan shutting off.

**Version A** With bathroom door open. Total time 2:01.

**Version B** With bathroom door closed. Just outside in hall. Total time 1:47.

**Bathroom Shower From Bedroom** - Second floor master bedroom of smaller two story house. Carpeting and drywall. Two windows in corner of room. Microphones placed with windows on left and behind. Bathroom is the next room over from the bedroom with a wall of closets separating. Fan vent turned on, water runs for temperature, shower turned on and run. Total time 2:40.

## DRYER AND WASHER RUN

We decided to run a top load washer and a dryer at the same time simply because they're rarely recorded together. Then we recorded a newer front load washer but only the washer as the dryer sounds the same as other dryers.

**DRYER & WASHER A – START AND FILL** – Top load washer and standard gas dryer. Dryer starts first and washer fills and then runs. Total time 50 seconds.

**DRYER & WASHER B – RUN** – Top load washer and standard gas dryer running together. Total time 49 seconds.

**FRONT LOAD WASHER** – Newer model front load washer. Four versions:

**Front Load Washer A Start** – Washer starts – fills and begins to run.

Total time 3:10

**Front Load Washer B Run** – Washer running – load of towels. Total time 2:03.

**Front Load Washer C Rinse Cycle** – Washer empties soapy water and fills with rinse water and runs. Total time – 2:00.

**Front Load Washer D Spin Cycle** – Washer starts and completes entire spin cycle with heavy load of towels, with run down and ending. Total time 5:03

## FURNACE START AND RUN

Newer gas furnace in smaller house. Recorded from about 10 feet away. Furnace starts, blower starts, burner ignites, fan starts up, and then normal operation for remainder of recording. Total time 2:00.

## LARGE CATHEDRAL

Urban Cathedral location. These recordings were made in the sanctuary, in the evening when the sanctuary was not being used. Room size approximately 75 feet wide by 150 feet long. Ceiling height at over 30 feet. Cobblestone floor, stone walls, wood trim, and wood ceiling. Sanctuary has balcony that runs in a U-shape from the front alter area on both sides into the back with stairway access at both ends and in the middle back. The steam heating system can be heard hissing in the background.

### **LARGE CATHEDRAL INTERIOR AMBIANCES:**

**Version A:** Mostly quiet in the sanctuary with a few creaks and snaps of the old building during a cold night. Total time 3:00

**Version B:** As with version A but some additional noises including exterior traffic (metro busses and cars). Total time 3:30

### **LARGE CATHEDRAL LOUD IMPACTS:**

**Large Cathedral Door Slam** Interior wooden door in back of sanctuary separating sanctuary from outer foyer – the location of the door is in the right rear of the soundfield. Total time 06 seconds.

**Large Cathedral Drop 01** Heavy drop thud – Total time 04 seconds.

**Large Cathedral Drop 02** Another heavy drop – Total time 04 seconds.

**LARGE CATHEDRAL WALKAROUND:** Starting in lower sanctuary, footsteps walking up right side, out of sanctuary and reappearing in upper balcony right side, then upper balcony left side then down on left side of sanctuary.

Total time 2:30

## INTERIOR LIVING ROOM OF SMALL HOUSE

1200 square foot ranch home on semi-quiet Suburban Street. Recorded in living room on a Saturday morning in spring with the windows closed. Some traffic noises and bird noises outside. Clocks ticking in living room and kitchen.

**Version A:** Shorter version with car passing from left to right. Microphones directed with windows and street facing left to right front. Total time 1:30.

**Version B:** Microphones directed with windows and street on left front to rear. Large truck pulls up and stops. Total time 3:00.

**Version C:** Microphones directed with windows and street at front left to right. Quieter version with no street traffic. Total time 3:00

## SMALL CHURCH OR MEETING HOUSE

Very small country church on a two-lane road out in rural farmland. The road is approximately 30 feet from outside doors. There is no hall or chamber separating the doors from the sanctuary. The doors were closed during the recording session. Room size about 50 feet by 100 feet ceiling height about 20 feet, hardwood floors, wood panel wainscoting and plaster walls and a plaster vaulted ceiling.

**Version 01** Silent interior with small clock ticking. Total time 1:30.

**Version 02** Three vehicles pass by outside from right to left. Total time 1:12.

**Version 03** Footsteps from front to back of church on right side. Two cars pass. Church bell is rung three times (inside perspective). Footsteps down stairs in back on right and basement door opens and closes. Total time 1:26

## SOUNDS OVERHEAD

This is a collection of recordings where the microphone array was placed in the basement of a typical home and a variety of sounds were made on the floor above. The type of flooring is indicated in each sound category.

**1 LITER SODA POP BOTTLE – PLASTIC ROLLED OVERHEAD** Two versions, full 1Ltr. Plastic bottle rolled on wood floor. Total time 14 seconds.

**Big Butt Bounce Overhead** – Bouncing my big butt on wood floor repeatedly and directly above the microphones. What we do for art... Total time 05 seconds.

**HOOVER VACUUM OVERHEAD** – Hoover Wind Tunnel Vacuum, older model. On carpeted floor of small room with no furniture. Four versions with vacuum going in different directions, as indicated.

**Hoover Vacuum 01** – Directly overhead on and off only. – Total time 15 seconds

**Hoover Vacuum 02** – Front to back starting on right side across to left side front to back. Total time 58 seconds.

**Hoover Vacuum 03** – Right to left (side to side) starting in back across to front. Total Time 1:17

**Hoover Vacuum 04** – Front to back then side to side. Total time 2:46. Roll over in-floor air register at :28 second mark

**SHOE DROPS OVERHEAD** Pair of large shoes dropped on wood floor directly over the microphone array. Total time 06 seconds.

**SIT DOWN HARD OVERHEAD** Also could be described as a body impact. One hard sit down with no padding on a wood floor directly above the microphones. Total time 04 seconds.

**TOY TRAIN OVERHEAD 01** various cars of a wooden railway set being thrown on and across a wooden floor. Total time 28 seconds.

**TOY TRAIN OVERHEAD 02** Battery powered wood toy train set running on oval shaped track directly over microphones. Total time 1:06.

**WALKING OVERHEAD** Two versions as indicated below. Both start with climbing up carpeted basement stairs, walking through tile floor galley kitchen and then into hardwood floor living room, turn around, and go back.

**Walking Overhead 01** – with shoes on. Total time 31 seconds.

**Walking Overhead 02** – with socks only. Total time 27 seconds.

## **Weapons and Explosions**

### **FIREWORKS & FIRECRACKERS**

**Firecrackers** – Recorded 4<sup>th</sup> of July 2007. Neighborhood nut shooting off individual firecrackers. Recorded about 1,000 feet away from source.

**Version 01** Total time 4 seconds.

**Version 02** Total time 3 seconds.

**Fireworks** – Also recorded 4<sup>th</sup> of July 2007. Both are city fireworks displays recorded at near the massive finale. Both also could be used to sound like a war zone or area being bombed.

**Fireworks 1 Mile Away** – microphones placed about a mile away from the fireworks. Total time 2:27.

**Fireworks 10 Miles Away** – microphones placed 10 miles away from the fireworks. Total time 4:41.

## INDOOR SHOOTING RANGE – Next Room

These tracks were recorded at the indoor shooting range with the microphone array in shooting range room A and the shooter in shooting range room B, right next door. A concrete block wall separates the rooms. The ceiling of each room is comprised of a few drop-ceiling tiles above the shooting area and the un-insulated underside of the roof of the building with some steel plate baffling. The walls of both rooms are concrete block all the way around, the floor is poured concrete, and the shooter is firing the weapons at a steel plate centrifuge which is wedge shaped inward so that the bullets are caught and dropped into a five gallon bucket. In several of the recordings you can hear the bullets hitting the centrifuge and dropping into the bucket

### **RUGER KMKIII678GC 22 CALIBER TARGET PISTOL**

Full clip single shots then full clip rapid shot

### **SMITH AND WESSON MODEDL 686 REVOLVER 357 Magnum**

Single shots with high attenuation then less attenuation.

### **SMITH AND WESSON MODEL 629 44 MAGNUM REVOLVER**

Single shots with high attenuation then less attenuation

### **SMITH AND WESSON MODEL 500 REVOLVER – 50 CALIBER MAGNUM**

Single shots with high attenuation then less attenuation.

*This is the largest caliber handgun in the world. And with all due respect to Dirty Harry, this hand cannon will rip your shoulder out of its socket.*

### **SIG SAUER MODEL P226 9MM SPORT PISTOL**

Two versions – 7 rounds rapid with little attenuation and 7 single shots with high attenuation.

## INDOOR SHOOTING RANGE – Same Room

As the name implies these guns were recorded with the microphone array in the same shooting gallery room as the shooter. The array was setup downrange, halfway between the shooter and the previously mentioned steel plate centrifuge.

### **RUGER KMKIII678GC 22 CALIBER TARGET PISTOL (as above)**

Two versions, 10 rounds rapid, and 10 single shots. Low attenuation.

### **Ruger 45 Caliber clip semi auto.**

Two versions, Three single shots, and 8 rapid shots. Low attenuation.

### **Smith & Wesson 38 Special Revolver**

Single shots – low attenuation. **Note:** this is the same gun as the 357 Magnum above.

### **SIG SAUER MODEL P226 9MM SPORT PISTOL (as above)**

Two versions, three single shots and eight rapid shots. Low attenuation.

## OUTDOOR SHOOTING RANGE

The outdoor shooting range is located off a rather busy country highway, a few miles north of the nearest city. Never the less some traffic noise is apparent in some of the tracks. In each case the microphone array was placed between the shooters and the target. There was no wind during the recording session but there was some bird noise in the background as well on some of the tracks.

**Soviet SKS** Yugoslavian (Soviet) Samozaryadnyi Karabin Sisyemi Simonova Obrazets 1945g - commonly just called the SKS rifle. 7.62x39mm M43 cartridge. Single and Rapid shots.  
**THE weapon of choice of terrorists and the Red Army of the mid to late 1970s and 1980s.**

**Chinese SKS** Samozaryadnyi Karabin Sisyemi Simonova Obrazets 1945g with muzzle. 7.62x39mm M43 cartridge. Single and Rapid shots.  
**This particular model has a synthetic body suited for rainy climates.**

**TWO SKS** The Soviet and Chinese SKS single shots and quick fire on left and right side.

**Remington 870 12 gauge pump shotgun.** Rapid shot 5 shells.

**TWO PISTOLS** Ruger 22 & Taurus 38 snub nose. 22 on left and 38 on right.

**Remington 22 Caliber Rifle** unsure of model or year.



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