ILLINOIS POLLUTION CONTROL BOARD October 17, 1996

DORDTHY L. ROFFMAN

Complainent.

PCB 94-146 (Enforcement-Noise)

CTTY OF COLLAGBIA.

MATTHEW J. MARLEN APPEARED ON BEHALF OF THE COMPLAINANT:

THOMAS D. ADAMS OF ADAMS AND HUETSCH, APPEARED ON BEHALF OF RESPONDENT.

OPINION AND ORDER OF THE BOARD (by J. Yi):

This matter is before the filmois Pollation Control Board (Board) pursuant to a complaint filed by Doryddy L. Hoffman (complaintat) against the City of Columbia (City or respondent) on May 5, 1994. Ms. Hoffman filed this catazen enforcement action pursuant to Section 31(b) of the Environmental Protection Act (Act). (415 fLCS \$/31(b)(1994).)

Ms. Hoffman alleges that the City étojated the prohibition of nothe polithion set forth in Sections 23 and 24,61 the Act and the Bours's regulation is 35 III. Adm. Code 900, 102; in the operation of the City's insuintenance facility located southeast of Ms. Hoffman's property at 523 Giffborn Street. Collambia, Illinois: (415 ILGS 6/23 and 5/24 (1994).) Several bearings were held in thigs matter before Board Hearing Officer John Hudspeth on October 35, 1994. October 31, 1995. December 11, 12 and 27, 1625. The parties filled briefs on March 28, 1996. May 30, 1996 and June 3, 1996. For the reasons stated below we find respondenting volutions of Section, 36 of the Act and 35 III. Addi. Code 900 102.

Applicable Laws

The specific sections of the Act and the Bbard regulations on which Ms. Hoffman bases her complains are Sections 23 and 24 of the Act, and 35 III. Adm. Code Section 900 102 of the Board's regulations.

Section 23 of the Act state what: "[t]he General Assembly finds that excessive noises endangers physical and emotional health and well-being, unterferes with left innate business' and recreational activities, increase construction costs' degresses properly values, offends the

sentes, creates public missances, and in other respects reduces the quality of our environment. It is the purpose of this Tatle to prevent noise which creates a public varisance."

Section 24 of the Act states that "(a)o purson shall crait beyond the boundaries of his "
property any noise that surreasonably interfers with the enjoyment of life or with any lawful
business or activity, sq as to violate any regulation or standfird adopted by the Board under this

* Section 23of the Act exists that the Board. *pursuant to procedures prescribed in Tile VII of the Act, may adopt regulations prescribing limitations on noise emissions beyond the boundaries of the property of any person and prescribing requirements and standards for equipment and procedures for monitoring noise and the collection, reporting and retention of data resulting from such monitoring. *(415 LICS 5725 (1994)).

Section 900, 102 of the Board regulations states that "[a]o person shall cause or allow the emission of sound beyond the boundaries of his property, as property is defined in Section 25 of the Art, to as to base noise pollution in Illinois [Section 900, 10] has defined noise pollution to be "the emission of sound that unreasonably interferes with the enjoyment of life or with any lawful business or activity], or so as to violate any other provisions of this chapter.

In determining whether noue rises to the level of a missance, the unreasonable a superference with complainments empoyment of life, the Board takes into consideration Section 33xc) of the Act which muse that "[i]n mixing its orders and determinations, the Board shall take into consideration all the facts and circumstances graving upon the reasonableness of the emissions, discharges, or deposits upolved including, butpuly immed to:

- The character and degree of injury to, or interference with the protection of the health ageneral welfare, and physical gropers of the people;
- The social and economic values of the pollution source;
- The suitability or unsuitability of the pollution source in the area in which inis located, including the question of proximity of location in the area involved;
 - The technical practicability and economic reasonableness of reducing or eliminating the emissions, discharges or deposits resulting from such pollution source; and
- Any subsequent compliance.

(415 ILCS 5/33(c) (1994)*)

The Board in determining a remedy must consider Section 42(h) of the Act which states that "[i]n determining the appropriate civil penalty to be imposed, the Board is authorized to

consider any matters of second in minigation or aggravation of penalty, including but not limited so the following factors:

- The duration and gravity of the violations
- The pleasance or absence of the diligence on the part of the violator in attempting to comply with the requirements of this Act and Regulations thereufider or to secure relief therefrom as provided by the Act;
- Any expromic benefits accrued by the violator because of delay in compliance with acquirements;
- b. The impute of monetary benefit which will serve to deter further violations by the violator and to otherwise aid in enhancing voluntary compliance with this Act by the violator and other persons similarly subject to the Act; and
 - The number, proximity in time, and gravity of previously adjudicated violations of this Act by the violator.

(415 ILCS 5/42(h) (1994).)

Preliminary Matter

At hearing complainant entered into the record a video tape as Comp. Est 38. (Tr. at 108.) The hearing differs allowed the video tape to be entered into the record for the purpose of how the facility appears. (Tr. at 104.) The hearing officer stated "I don't think that any of the noise emanating from the tape are properly considered by the Board in this case." (Tr. at 104.) The noise emanating from the tape are properly considered by the Board in this case." (Tr. at 105.) Respondent, in its brief, argues that the video atpe should not be entered into the record because if it is for the purpose of visual-description it is cumulative and if it is for the purpose of describing the noise there is no foundation that after recorded levels are accurate and cites to Annino v. Browning-Ferth Industries of Illinois. (August 18. 1988), PCB 87.39 and Kystake v. St. Michael's Lutheran Chartfi, (August 30. 1990), PCB 80-182. [Resp. at 547.] Complaigning argues that the tape is not being admitted for the burposes of the quantity of sound but for the quality of the type of sounds and cites to Madoux v. Straden Locuma and Lumber. (May 21. 1991). PCB 90-149. (Reply at 1-2.)*

The Board-will allow the tape to be entered into the resort for the visual depiction of the facility while in operation and for a description of the types of noise, but not for appropriate to characterizing the volume of the noise level. As the Board found in Madous the system to tape can be utilized to demonstrate the poise, the sound of a warning device or the roar of an engine, but not for any substantive purposes. Additionally, the video is not camulative.

The respondent's brief will be referenced to as "Resp. at

The complaint's reply brief will be referenced to as "Reply at

dence because the photographs are made representations and the video provides visu onception of the operations at the facility. 4 .

Procedural Backen

On October 25, 1994 a hearing was held at the offices of Columbia City Hall, Columbia, Illimois. At the bearing the parties entered opening statements and discussed a settlement agreement. At the close of the authorient agreement discussion, the hearing officer communed the cause and directed both parties to-file-the settlement papers by November 30. 1994, surrount to the applicable Board procedural requirements at 35 Ill. Adm. Code 103.180 and Section 31(b) of the Act.

The settlement papers were not executed and on May 19, 1995 complainant filed a gnotion to enforce settlement and a memorandum in support of the motion to enforce settlement. On May 31, 1995 respondent filed a response to the motion to enforce. The Board, on August 24, 1995, denied complainant's motion to enforce and directed the parties t proceed to hearing. As stated above additional hearings were held October 31, 1995, December 11, 12 and 21, 1995.

General Background

Ms. Hoffman lives in a single family residence in a residential area of the City of Columbia. (Tr. at 27-28, Brief at 1.) Ms. Hoffman has been at this residence since 1959. (Tr. at 28, Brief at 1.) In 1959 the area where the City currently-operates its maintenance facility, which is the source of the noise in question, was an open area with some cedar trees. berry bushes and other vegetation. (Tr. at . 8, Brief at 1.) The City built a brick pump house sometime before 1967 on the property behind Ms. Hoffman's property. (Tr. at 29. Brief at 1. Comp. Ex.44.) In 1967, the City built a 'arge brick shed on the same piece of property. (Tr. at 29, Brief at 1, Resp. Ex.#34 (brick partion only).). During the time period starting in 1967 until the present the City added to the Leility including a salt bin and asphalt bin (Comp. Ex #10), approprie piles (Comp. Ex #11 and 10), earth pile (Comp. Ex #12 and 15). expansion to the brick shed (Comp. Ex.#21, Resp. Ex.#34) and various other improvements (Comp. Ex. #21). (Tr. at 50-65.) The southwest corner of Ms. Hoffman's house is approximately 191 feet (ft.) from the large shed made up of the brick shed built in 1967 and the expansion. (TV. at 209, Comp. Ex.#39.) The salt and asphalt bins are approximately 247 ft from the southwest corner of Ms. Hoffman's house. (Tr. at 211, Comp. Ex.#39.) Ms. Hoffman's house is located roughly 26 ft. in from the property line. (Tr. at 212, Comp. Ex.# 39.) The maintenance faculated is situated on a triangular piece of land which abuts complainant's residence and others on one side, a cemetery on another side and a park along the final side. (Resp. at 4, Comp. Ex.#2.)

The transcript of the hearings will be referenced to as "Tr. at .", and the complainant's posthearing brief will be referred to as. "Brief at .".

The complainant's exhibits will be referenced to as "Comp. Ex# ."

The respondent's exhibits will be referred to as "Resp. Ext.".

The City maintenance facility utilizes several different trucks to perform various road and other maintenance tasks around the City. Also the City owers and operates several different machines such as backhoes, dozers and an endloader which assist in carrying out the maintenance functions for the City. (See Robbits.#12. 26, 28, 29 and 34.) Finally, there were also everal other pieces of equipment stored at the facility such as a strest except. a "Bornag" roller and several trucks used for spreading oil on streets. (See Comp. Ex.#5, 18 and 22, Resp. Ex.#2 and 28). The normal business hours of the facility are 8,000 a.m. to 4:30 p.m. (Tr. ag 725.) However, due to emergencies, such as snow storms and water main breaks, the facility is used anytime throughout a 24-hour period depending on when the emergency occurs. (Tr. at 728.)

Arguments

Complainant

Although couplainant/did not specifically argue the factors of Section 33(c) of the Act in its brief, the Board, for east of the readers, will summarize complainant's argument which tend to be related to one by the factors

The character and begree of injury to, or interference with the protection of the health, general welfare and physical property of the people.

Ms. Hoffman testified that the dump trucks make a for of noise due to metal clasging, truck bods dragging on the kapitall, and enginest roaring. (Birlet at 2. The 16.5-66, Comp. Ex. 87, 4; 6, 12, 16 and 22.) Furthermore. Ms. Hoffman testified that this equipment, referred to as the "Clast", (equipment manufactured by Caterpillar), generate noise from the loading and unleading of aughtespatic the roaring of the engines, and the beaking bell or warning device. (Brief at 2.Tr. at 51) 72-74 and 57, and Comp. Ex. 873.) Additionally, Ms. Hoffman testified that the street weeper "sputners againstners" before it warns up. (Brief at 2. Tr. at 66, Comp. Ex. 873 Big (103/394)). Finally, Ms. 'Hoffman testified that aff air horn occasionally blast while the oil is being boiled and that the engine creates a noise while it is betain and circulating the oil pior to application all of which creates noise. (Brief at 3, Tr. at 61, 66, 71, Comp. Ex. 873 at 7 (8/15/94).)

Next complainant sets forth how the above described noise interferes with her enjoyment of life. (Biref at 3-7.) Ms. Hoffman testified that before 1988 the grigibborhood had a quiet and peaceful reputation (Birlef at 3, Tr. at 116.) Ms. Hoffman testified that the operation of these trucks occur occasionally after midright or early in the morning. (Biref at 3, Tr. at 30, 69. Comp. Ex. 473.) From [99] suntil §95, Ms. Hoffman kept a journal of describing the noises and the time of occurrence, which was submitted as complainant's exhibit number 37. (Comp. Ex. 437.) On several pocasions the journal lists the disturbances happening early to the morning or late at night! (Reply at 2-3-generally Comp. Ex. 437.) The majority of the entries concern noise generated by engine rearing, backup bells or warning devices, and the loading and unloadings of asgregate. (generally Comp. Ex. 473.) Ms.

To substantiate the testimony of Ms. Hoffman complainant called Ms. Schuler, Ms. Hoffman's daughter. (Brief at 4-5, Tr. at 246.) Msr. Schuler and her family lived at Ms. Hoffman's abouse periodically from 1973 to 1994. (Tr. at 247.) During those periods of time Mrs. Schuler and her family lived in the basement of the house. (Tr. at 247.) Mrs. Schuler testified that you could not converse outside when there was activity at the facility due to the roar of the engines and that the backup warling devices were not the only annoyance. (Brief at 4, Tr. at 248-249.) Mrs. Schuler stated that the noise from the site would wake her husband and occurred during odd hours of the day and not just during normal working hours. (Tr. at 250.) Mrs. Schuler stated that the working hours were not restricted to 8:00 a.m. or 7:00 a.m. and if the weather mured bad if where, "...it can be at any hour of the day". (Brief at 5, Tr. at 250.) Mrs. Schuler testified that the noise is "nerve-graking", that "(wilpen you're awakened in the middle of the night, it's very hard tog obactod sleep", and that "([the roar of the engine pups a lot of stress on you, undue stress which "[il] prevents you from performing one hundred percent" at work the next day. (Brief at 5, Tr. at 25.7547)

Next complainant presented the testimony of Mr. Greg Zak of the Agency who appeared on behalf of complainant to further support the contention of a misance violation. (Brief at 5-9.) Mr. Zak, based on his observations at the site, the prior testimony of complainant's witnesses, and the measurements taken by the Agency and E.D.16. Testified that there were considerable exceedences of the Board's numerical limitations and that there is a well-founded puisance complaint regarding the operations at the facility. (Brief at 5, Tr. at 287-288.) Mr. Zak specifically mentioned the loading and unloading of aggregate and the engine noise of front end loader and the trucks as operations which may result in a misance. (Tr. at 287-288.) Next Mr. Zak testified that the noise measurements and the results taken by Ms. Hoffman and the Agency which were entered into the record as complainant's exhibit number two (2) are empirical facts which "gubstantiate and back-up Ms. Hoffman's claims of nuisance noise". (Brief at 6, Tr. at 288, Tr. at 290-330.) In response to whether the measurements were taken in compliance with the regulations. Mr. Zak stated "liln general it was", except that "ftlhe one area where it would not necessarily be in strict compliance would be a situation of having the microphone in the window". (Brief at 9. Tr. at 294-295.) However, Mr. Zak testified further that:

Typically the way it's done, according to measurement standards, would be to have the microphone located outdoors, at least twenty-five feet from the residential structure. However, there is some latitude in the way this is done. If corrections are made for a different configuration, in other words, in this case

Engineering Dynamics International (E.D.I.) is a consultant engineering furn hired by the City to take sound measurements of the activities at the site.

Complainment's brief states, that "[i]this result was based upon Mr. Zak's opinion that the maintenance faculary is a Class "B" emitter and Ms. Hoffman's home is a Class "A" receiver under the Standard Land Use Coding Mannal (SLUCM) code (Section 60).102 of the regulations)" and cates to Mr. Zak's issumony. (Biref at 7, Tr. as 301-304.) Complainment argues that the maintenance facility is Class "B" lead and not Class "C" lead "piccusse it does not use very heavy industrial equipment, such as that found in coal mining or quarying operations". (Berief at 6, Tr. at 303-305). Finally in support of the claim by complainment that there are noise exceedences at night complainments states that "[a]lihough measurements were not taken at night. Mr. Zak testified that regardless of whether the measurements were taken with the sau ny or down, as long as the same equipment is being used, we are going to see the same measurement". (Biref at 6, Tr. at 310-311).

In explaining the results of the measurements and complainant's exhibit 41. Mr. Zak stated that the amount of sound rotuction needed in order to bring the facility into complaine with the numerical limits, would be two decibels at 500 bertz. 13 decibels at 1,000 bertz, 18 decibels at 2,000 bertz, and six decibels at 4,000 bertz. (Tr. at 30.1). Mr. Zak testified that exceedences at the 50 bertz coates beand "would typically represent exhaus noise from internal combustion engines"; the levels at 500 bertz "could be a number of sources there, perhaps a "combination of truck noise, end loader noise"; the levels at 1,000 bertz and 2,000 bertz "would in all likelihood be the backup beeper from any equipment so equipped in the yard"; the level at 4,000 bertz "would be, again, just noise emissions from the equipment in general, and wpuid be rather hard to characterize it coming from a specific source at this point, as was then decibels back at 500 bertz. "(Biref at 7, Tr. at 324-326. Comp. Ex #42.) Mr. Zak further states "[1]'s a little difficult to characterize exactly where those [the exceedences of 4,000 bertz] cause from "and that "Mr. Tolan will be able to give you more information on the probable cause of those levels." (Tr. at 325.)

Conferring the backup warning devices and the possible exemption under Section 101.017(s), which states "Sections 901.102 through 901.106 inclusive shall not apply to sound emitted from emergency warning devices and unregulated safety valves", complainant states that Mr. Zak assuted in drafting this provision and he testified that this exception was meant to apply to true emergency warning devices, such as fire strens located at the station, not those on the vehicles in this case. (Brief at 7, Tr. 332-337.) Complainant's states "that Mr. Zak and the Illinois E.P.A. have taken the position that the exemption does not apply-to back-up alarms are as they are not true emergency warning devices". (Brief at 7, Tr. 334). Complainant argues that the "[Diack-up alarms are a safety device as opposed to an emergency warning devices and "[dluss, the exemption is not applicable to this case because backup alarms do not fall within the score of the provision." (Brief at 7.).

The social and economic values of the pollution source.

• Complainant asserts that although respondent "rambles on about the social and economic necessity of the maintenance fieldity", it "overfoots the simple fact that the services performed by the Maintenance Department will continue to be provided regardless of where the maintenance facility is located". (Reply at 7.) Complainant argues that the social and economic value will neither change nor be affected because the facility will temain near or in the City. (Reply at 7.)

The suitability or unsuitability of the pollution source in the area in which it is located, including the question of proximity of location in the area involved.

Complainant asserts that the maintenance facility is neither suited nor compatible with the surrounding area. (Brief at 10.) Complainant's brief maintains that the maintenance facility is definitely not compatible with the surrounding area because it is situated in a residential area with houses around it". (Briefat-10, Tr. as 44.) Additionally, complainant cites to the testimony of Mr. John Coats, a former mayor of the City, who testified that, in his opinion, the present location of the maintenance facility was inappropriate for the maintenance facility and that there is a fair amount of sural undeveloped property near the City limits which would be appropriate for the maintenance facility. (Brief at 10. Tr. at 216-218.) Furthermore, complainant argues the fact that the maintenance facility was zoned residential until 1989 and the City rezoned from residential to agricultural, and broadened the scope of the definition of agricultural to include municipal buildings as a permitted use, demonstrates that the site is not suitable. (Brief 10-11.) Complainant states that the City's Planning Commission and Zoning Board of Appeals had denied the City's request to rezone the maintenance facility from residential to agricultural, nevertheless the City changed the zoning (Brief at 11.) Complainant also maintains that the City has twice considered moving the maintenance facility; once for construction of a road, and in 1994 because it had grown so fast." during the three years that the City Superintendent did not believe expanding the amount of equipment at the facility was wise due to the residential area. (Brief at 11.) Finally. complainant asserts that "[t]he City has conceded that the present site of the maintenance facility is insufficient and it has recently been looking at alternative sites to relocate the maintenance facility". (Brief at 11.).

In addition to location arguments, complainant also argues that the maintenance facility has bad a negative effect on the assessed value of her home as further proof of the maintenance facility. (Bericf at 9.) Complainant asserts that "(I)he Assessor decreased thissassessed value of Ms. Hoffman's home by five percentage points due to neighborhood factors", which can only be attributable to the maintenance facility. (Brief at 9.) Additionally, complainant states that "her property value has decreased as a consequence of the profit of the profi

The technical practicability and economic reasonableness of reducing or eliminating the emissions, discharges or deposits resulting from such pollution source.

Complainant states that Mr. Zak testified that there are five (5) actions necessary to reduce the problem that Ms. Hoffman is experiencing. (Brief at 7-9.) Mr. Zak testified that the equipment powered by internal combustion engines needs to have installed "equal to or . " better than a Nelson Model 400 muffler. Nelson being the manufacturer of mufflers" such as the backhoe end loader and the trucks larger than the pickup truck used at the facility. (Brief as 7-8, Tr. as 343, 357, Comp. Ex #3, 4, 6, 10, 25, and 34.) Next Mr. Zak stated that the aggregate pile should be relocated on site as far from complainant's residence as possible. south of the City building using it as a sound barrier. (Brief at 8, Tr. at 343-344, Comp. Ex \$2.) Third, complament asserted that the City building should be lined with drywall to "add mass to the walls of the building, preventing the sound from traveling out from the building through the existing metal shell" and unfaced fiberglass insulation to "absorb sound, preventing reverberation of the busiding, and adding an overall acoustic deadening of the interior of the building". (Brief at 8. Tr. at 345-346.) Fourth, Mr. Zak testified that a fence. to act as a sound barner, should be built along the property line of Ms. Hoffman androximately 150 to 200 feet in length, roughly 20 feet high and a sufficient thickness to withstand the wind. (Brief at 8, Tr. at 346.) Finally, Mr. Zak stated that the back-up warning devices should be disconnected on the same equipment that have been designated to receive the Neison 400 muffer de other equipment that is operated frequently on site. (Brief at 9. Tr. at 3634 Mr. Zak testared that the barrier is necessary begause, "[I]ooking at the octave band data in previous exhibits, the mufflers, and the building lining, and even moving the aggregate pile, it's still not going to,. . . , bring the levels down to meet the numerical limits" (Tr. at . 349.) Additionally, Mr. Zak stated that "in order to solve the problem, one needs to use a combination of the barrier along with the other suggested ways of solving the problem." (Tr. at 353.) Mr. Zak testified that the cost of adding the insulation and drywall to the City building would probably be in the neighborhood of a few \$12,000, the opst of constructing the fence would be approfit in littly between \$12,000 to \$15,000, and the average cost is around \$250 for the Nelson 400 muffler. (Tr. at 362.)

In addition Mr. **Calk also testified to the possibility of reducing the noise from the backup warning devices. Mr. Zak natied "... that the OSHA regulations do not require backup alarm or better, if an observer is used in his of the backup better." (Tips. 1853.) Additionally, complainant submitted exhibit #46 which purports to be a copy of the applicable Occupational Safety and Health Administrative (OSHA) regulations, 29 C.F.R. 1926.601(4), which states:

- (4) No employer shall use any motor vehicle equipment having an obstructed view to the rear unless:
 - The vehicle has a reverse signal alarm audible above the surrounding noise level or:
 - (ii) The vehicle is backed up only when an observer signals that it is safe to

Complainant concludes that disconflecting or adding a switch to turn off the backup warning devices is feasible. (Brief at 9.)

Any subsequent compliance.

Complainant states that "[t]he City has not taken any substantive remedial measure to oreduce the noise emissions from its maintenance facility". (Brief at 10.). Furthermore, complainant, argues that "the reduction of the noise from one back-up alarm is not significant in light of the fact that the City engineer testified that the two backhoes, the motor grader, and the dump trucks are equipped with back-up alarms". (Brief, at 10.) Finally, complainant argues that the City has previously promised to build tourd barriers, install hospital grade mufflers on its heavy equipment, and disconnect the back-up alarms to resolve this case and has not done so. (Brief at 10.)

Respondent

The City states while respondent acknowledges then are sounds from the maintenance facility which majs affect some aspect of Toughtinant's life, the record shows that the sounds do not cause unreasonable interference with the chipyment of life and thus do not violate the Act or Board regulations. (Resp at 9,1 Gjung to Wells Manufacturing Cg. v. PCB. 73 III.2d 226, 383 N.E.2d 148, \$50 (1978), the City argues that "[t]the 'reasonableness' of the noise must be determined in light of the factors set forth in Section 33(c) of the Act." (Resp. at 9,1 The City, in its post-hearing brief, addresses each of the Section 33(c) factors which follow?

The character and degree of injury to, or interference with the protection of the health, general welfare and physical property of the people.

Citing to Kvassak. PCB 89-187 Aug. 30, 1990), the City states "(i)n considering the character of the interference caused by sound from the majingmance/facility the standard to which the Boardwefers' is that the noise substantially and frequently interferes with the use and enjoyment of life and property, beyond minor or trifling annoyance or disconfort, and that the record contains conflicting testimage and evidence concerning the extent of the noise from the maintenance facility". (Resp. at 10.) The City asserts that "(i)n this regard Complainant herself presents conflicting evidence as some neighbors experience no discomfort or disturbance from the maintenance facility". (Resp. at 10.)

The City states that the major interference alleged by compliant is the flueruption of and loss of sileep. (Resp. at 10.) The City argues that such interference according to the record "occurs very rately". (Resp. at 11.) Respondent cities to seven places in the transcript where there is testimony by complainant concerning noise interfering with sleep, states in its brief that there is not a single entry in compliantan's tog (complianant's exhibit #37) where sleep had been disturbed, and that its witnesses, the acting Director of Public Works and City Engineer, both testified that non-working hour emergencies happened only five to seven times.

per year (Resp at 10-11) The City argues that this record does not support complainant's claim of severe loss of sleep and does not amount to unreasonable interference. (Resp. at 11.)

Next the City states that the alleged series caused by the interference which illegetly caused Ms Hoffman to have surjety "a sparrous and inflammatory and reflects poorly on her credibility in pressaring this matter". (Rany at 12.) Respondent asserts that compliantam's implications in her formal compliant than the alleged mone pollution caused five surgeries omits out the facts "bas four of the five surgeries (and probably one more) were performed on her great due to detached retinas, fluid build-up, dumness, and infection, and the has had eyg problems all her life. (Reny at 12.) In respondent supreme to the clashed interference is of wortudg in her garden, reading in her swing, inviting francis over and generally the use of her property respondent supreme that the control does not support a finding that unreasonable interference is occurring. (Reny, at 12.) Respondent states that "(there is no evidence that Compliantar entertained francis and was entertupted or done) so, the has only testified that if might happen. (Reny at 12.) Respondent saverts that there was only ofte reference to the interruption of conversation and that was between Ms Hoffman and Mrs. Gottlerg (Ms. Hoffman's neighbort when they were tying to converse with each other from their own respective Variet and were across the street from one another. (Reny at 13.)

In support of the City's contention that the record does not provide support for a finding of unreasonable tuneference, at mutatina that its witnesse sestified for 1 at 702-706, 6, 786-790 and 794-801), neighbors to life. Hoffman, generally that they heard the noue from the maintenance facility but if did not bother them or merefere with their enjoyment of life, which contradicts the potentially based estimatory of contiplatanat and complanant's winnesses' testimory. (Resp. at 13-15). Additionally, responders argues that although the noise peasurements takin by the Agency and itself show exceedences in two areast, those exceedences are attributable to the back-up warring devices which are exempted by 35 III.
Additionally, responders a support of the properties of the second o

To cosk-bade the City states that "Complainant testafied that the major source of interference where interruption and loss, that claim is not supported by the evidence in the record", and that "bler other complaints of unterference are contradicted by not only her own testimony but also that of local residents who live in clone proximity to the mannetance facility set experience on disturbance or interference with the enjoyment of their lives". (Resp. at 18.1) Therefore any interference alleged does not support a finding that the interference has unreassable. (Resp. at 18.2)

The social and economic values of the pollution source,

The City states that the facility provides substantial social and economic benefits to the community because it is an integral part of performing necessary governmental functions such as road and solver repair, snow removal@salt.apreading, and street tweeping. (Resp. at 18.)
Furthermore, (b) City statesabar ("low work.carried outs the maintenance facility is done by
public mandate and supervised by the least governing body. (Resp. at 18.) Finally, the City
states that the facility employs 17 people including the City Engineer and secretary. (Resp. at
18.)

The suitability or ansuitability of the pollution source in the area in which it is located including the question of proximity of location in the area involved.

The City asserd that "(tibe record indicates the maintenance facility is suitably located, to serve its purpose in providing repair services to roads, severe, lift autions and the collection system operating with the City of Columbia." (Resp. at 18419.) In support of this contention, the City cites to the testimony of Mr. Kenneth Waughn, City Engineer, who stated "(if) is a centrally located facility which enables us to provide quick responde time anywhere that response would be exceeded in the city for any type of a situation (Tr. at 718), and that each location is "extremely destrible (Tr. at 719, (Resp. at 18).) Additionally, the City argues that complainant's statements that the facility is not suitable or compatible because of the surrounding residential rate is not shared by doker city, residents by citing the testimony of Mrs. Zoeller who stated "I don't see how I can complain", "I feel very lucky, I'm the very first street that ever gets plowed when it mows, so I'm algays able to go to work everyday "(Tr. at 804), (Resp. at 19.), Finally, the City asserts that "[although the Complainant has priority of location, in that she bough her property in 1959 (Tr. at 8) and Respondent not until 1967 (R. Es. 18), such will not override other considentions in this case. (Resp. at 19.)

The technical practicability and economic reasonableness of reducing or eliminating the emissions, discharges or deposits resulting from such pollution source.

The City cites to <u>Detlaff v. Baodo</u>. PCB 92-26 (July 1, 1993), which states "(t)be, focus of inquiry into the technical practicability and economic reasonableness of control measures is on what can be done about the allegedly offersive noise", and argues that the relief alternatives presented by complainant are not economically reasonable, or are not supported by the record. (Rep., at 20.)

First respondent argues that complainant's request for cease and desist "is clearly imappropriate considering the cost of obtaining property that is equally suitably focated and building a new facility, as well as the interruption in services which would be caused by such a move". (Resp. at 20.) In support of the City's argument it cites to the testimony of Mr. Coats wimes for complainant and former mayor who testified that the cost of locating a similar facility would be \$150,000. (Resp. at 20. Tr. at 224-226.) Furthermore the City cites to its witness, the City Engineer, who estimated that services would be interrupted for at least two to three weeks white the facility was being moved. (Resp. at 20. Tr. at 720. Tr. at 720.).

The respondents "R. Ex. 18" means Resp. Ex# 18;

Next respondent arrues that the allegations do not merit the extensive measures: outlined by Mr. Zak. especially in light of testimosy of other local residents, the City Engineer, and Dr. Weissenburger's testimony that a noise barrier and drywall and insulation added to the maintenance building are unnecessary." (Resp. at 22.) Respondent argues that Mr. Zak's proposed ecommendations for the abatement of noise at the facility are based on his "opinion without inspecting the maintenance building or having personally heard the sound and observed the activity at the site". (Resp. at 21, Tr. at 385, 398.) Respondent argues that the estimated costs of Mr. Zak for the acoustical fence of between \$12,000-\$15,000, which is. based solely on his experience in a prior unrelated case before the Board, are underestimated. (Resp. at 21.) Respondent argues this based on the gost estimates of between \$52,000-\$57,000 (Tr. at 743-744), not including engineering design or soil borings and analysis, as testified to by its witness the City Engineer based on case specific information. (Respirat 21.) Additionally the City argues that "there is no evidence in the record that any sound emanates from the maintenance building, thus the recommendation that it be drywalled and insulated in not supported and is superfluous". (Resp. at 21.) Finally, respondent, argues that the record reflects that the only source of noise from the backup warning devices that is allegedly creating a unreasonable interference is the tractor or the Caterpillar equipment at the facility and not from all trucks equipped with backup warning devices. (Resp. at 17, Tr. at 71.)

Any subsequent compliance.

The City simply states that it has lowered the volume control from high to low for the back-up bell on the endloader and the City Engineer testified that the sound was "noticeably lower" (Tr. at 73½, (Resp. at 23.)

To conclude, the City states that "aftersignil consideration of all the facts and circumstances in the record, and in light of the Section 33(c) factors, the Board must find the poise from the maintenance facility does not constitute as unreasonable interference with Complianant's enjoyment of life and lawful activity in violation of Section 24 of the Act and Section 900. 102 of the Board's regulations. (Resp. at 84-) Alternatively, the City states that should the Board determine there is unreasonable materiages. (Revenuelies ordered should be limited to growing the aggregate piles, installing proposition of section and reducing the volume of the transfer backer and after where growings. (Revenuelies ordered should be volume of the transfer backer and after where growings. (Rose, 25 %).

Discussion

Before determining the issue of missner, the Board will consider No-melevant issues raised by the parties: classification of the maintenance facility pursuant to the SLUCM code and the exemption of washing devices set forth in 35 III. Adm. Code 901.107(b). Although neither issue will be dispositive of the matter of nuisance, both issues permit to the wellbut of evidence resented to the Board.

Classification

Site classification guruant to SLUCM code, set forth generally in 35 Iii, Adm. Code 901, determine the numerical acount limitations that can be legally emitted from one piece of groperty to another pursuant to 35 III. Adm. Code 901.102 and 901.103. As stated above, complainant argues that the City's maintenance facility should be classified as a Class "B" site and the City affect that it should be classified as a class C" as the White the matter before the Board is roa a complaint based on an alleged numerical violation, evidence of numerical a exceedences is relevant to the Board's determination but its not dispositive of the matter. Additionally, as stated above, whether the City's maintenance ffcility is classified as Class "C" or Class 48" does not change the fact that both parties agreed that numerical iminations for Class "B" and Class "C" ag different. Class "C" numerical limitations are, less stringent than those of Class "B" for sound emitted to the Class "A" site, residential property.

In the Matter Or. Noise Poliution Control Reculations, (July 31, 1973), R. 72-3, the Board stated "fifthe classification of land is dependent on the sexual use being made of the land, rather than on anticipated or planned use such associated occur if the classifications were based on zoning". (Op. at p. 2.3) Further in the samp opinion the Board states, "lejenual land use is an appropriate basis in that the regulation is designed disproted people where they actually live and work, rather than protecting vacant properly in anticipation of people living and working "there". (Op. at 24.1)

We find that the actual use of the properly dictates the classification, rather than the examing or who or what entity is conducting the activity. In this case we have a maintenance facility which provides for the general maintenance of the roads and other public works in the City. There are no SLUCM codes for road maintenance and related activities. Site Classification "b" generally includes, motion picture production, communication, wholesale trade, retail trade, personal and financial services, business services, repair services, professional services, contraction, glumbing, heating, painting", etc.), governmental services (executive, legislative and judicial services, police, fire, civil defense and other protective services), eccrational, and public assembly activities. Site Classifications "C" generally includes, manificaturing, petroleum refining, motor-while transportation, numerice crit transportation, marine craft transportation, marine craft transportation, marine craft transportation, automobile parking utilities, agricultural and related activities, forestry, fishing, mining, and other resource production and extraction activities.

We find, considering the types of activities carried out at the maistenance facility, that the site tends more to be a manufacturer, motor vehicle transportation, agricultural, mining and resource production and extraction classification than a services or retail type facility. Therefore we would find the City's institutenance facility to fall under the "C" classification. This is not to say that all city maintenance facilities would fall under the "C" classification but the facts of this case dictate such finding. As such the pumerical readings entered into the regord by the parties should be compared in light of emissions limitations from a Class "C"-site to a Class "A" site as evidence tending to support or not support an alleged naisance 3 violation.

Purmotion

When the Board adopted the numerical limitation footed in 35 III. Adm. Code 901.102 drough 901.105 a also created certain exceptions as we forth at 35 III. Adm. Code 901.107. In this case the particular argume whether 35 III. Adm. Code 901.107(b) applies to the \$\frac{1}{2}\$ abschap warring devices connected to the large trucks at the maintenance faculity. Section \$01.107(b) makes "Section 901.102 through 901.105 inclinaive shall not apply no sound omitted from mineractory warrant devices and unremained safety relaces valves".

This fiction has been brought pursuant to 48 III. Adm. Code 900.102 (general minimizer prohibition) and not pursuant to Section 901.102 through 901.106 (sumerical limination oscitions). Therefore the estimation does not apoly to therefore. However, as stated above, while this action is not brought pursuant to an alleged numerical violation, evidence of a sounerical exceedences is relevant. Thus a discussion as to whether the backup warming a vice were intended to be branched at the exception to beneficial.

In In the Matter of: Noise Polintion Control Regulations, (July 31, 1973), R 72-3, the Board stated:

Rule 208(b) (901 107(b)) exempts warning and safety devices from they numerical institutions. This was done because the social benefits far out-weight any sanoyance and because the noise enisation occur infaquency and usually for short durations. If should be noted that the Exception would also cover the periodic maintenance and esting of 15th devices. Not covered by the exception would be devices which they means some ways be similar but which are used routinelyss the course of operation such as circuit bigaters used for wintening electrical power.

Op. at 30.1

The baltup warning devices associated with the larger trucks at the maintenance facility fall under the "similar but which are used rotunely" exclusion from the exception that was discussed by the Bough. The Board does recognize the social benefits associated with the backup warning device gas we believe such device was not the type of warning devices the Board unended to exempt from the quancient regulation. Therefore evidence concerning manerical exceedences attributable to the backup warning devices is relevant insofar as the alleged missnoor volution.

Nuisance violation

The threshold issue in any noise nuisance enforcement proceeding is whether the sounds have caused some type of interference with complainant's enjoyment of life's jawfill business activity. Interference is more than an ability to distinguish sounds affinibugable to a particular sturce. Rather, the sounds must objectively affect complainant's life or business.

activities. (See e.g., Village of Matricon v., World Music Theatte Jam Productions, LTD, and Giencruk Development Jac., April 25, 1991). PCB 90-146, Kutsak v. S., Michaelle Latheran Charch. (August 30, 1990) PCB 89-182; Ziroli v. Dive Soop, (March 14, 1991) PCB 89-225.) Testimony to the effect that the Sound constitutes an inserference solely because it could be beared is insufficient to support a finding beyond a "utiliting interference, perty v. annoyance or minor discomfort." (Wells Manufacturing Co. v., PCB, 73 III.24 226, 383) No. E. 24 148, 130 (1978). Blased on the testimony (sumerical noise readings, and the proorfy, the Board finds that sounds emanating from the City's maintenance facility caused, and continues to cause, an interference with Ms. Hoffman's evidporent of life. The Board notes, however, that not all of the testimony supports a finding of interference on every day the maintenance facility is in operation or from every altered source of noise as fiducated below.

The Board finds that the testimony presented at the hearing demonstrates the necessary interference. Complainant presented the testimony of Mr. Zak who conducted numerical noise readings on July 21, 1995 which demonstrate that the "gy"'s maintenance operation was exceeding the Board's numerical noise limitations at least when those measurement were taken. Additionally, the City's frow measurement of monostrate the same, and respondent admits that the sound affects complainant's life. In Ferndale Heights Utilities 20, v. Illinois Pollution Cognet Board, 44 Ill. App. 3d 962, 3'Ill. Dec. 539, 358 N.E. 2d 3'Z. V. Illinois Pollution court upbeld the Board's finding of interference based on testimony such as "a great source of irritation" and "awakened once or twice a year". (358 N.E. 2d 1229.) The record in this matter comains similar regimnory and evidence gain Ferndale.

Sections 900,101 and 900,102, which apply here, were given judicial interpretition in Ermdale. The First District Court held the regulatory language to be constitutional since sufficient standards could be complehended from reading Section 24, the Board's regulations, and the guidelines for enforcement cases found in Section 33(c) of the Act. (358 N. E.20 and the guidelines for enforcement cases found in Section 33(c) of the Act. (358 N. E.20 and the properties of the pro

Once the Board determines that interference is caused by a respondent's activities the Board must determine if that interference is unreasonable. The "reasonableness" of the noise pollution must be determined in reference to statutory criteria in Section 33(c) of the Act. Wells Manufacturing Company v. Pollution Control Beard, 79 III.24 226, 383 N.E.24 48 (1978). Music Tace, Div. of Borden, Inc. v. Pollution Control Beard, 69 III.24 390, 389 N.E. 24 5 (1975); Incinerator, Inc. v. Pollution Control Beard, 69 III.24 290, 319 N.E. 26 794 (1974): 'Cityoof Monmouth v. Pollution Control Beard, 59 III.24 282, '313 N.E.24 (16) (1974). However, complainants are not required (spintroduce evidence on these criteria. (Processing & Bootle v. Pollution Control Board, 59 III.24 865 (1976).) We now consider each of these factors in determining whether the interference was unreasonable.

Character and Degree of the Injury or Interference

Botton 33-CA11 directs the Bount to consider the character and degree of any interfeature, caused by the noise enumed from the Cryl's measuremence factory. The standard to which the Board refers to a whether the mose intertainty and frequently interferes with a fairful beassess again; beyond senor criting annoyance or discounfort. (See, e.g., Braineri, Y. Hagen, kelpril 27, 1969) PCD 88-171; 98 PED 497.) As attend above, complexions presonate ovidence through temporary at the hearing and Comp. Ex.873 as to the character and cegore of super or interference. Complexions states that the mass patterference or aginty is that, noise probabes life from steeping through the right and probabes her form steeping through the right and probabes her form steeping through the right and probabes her form steeping through the right and the steeping through the research and the steeping through the research and the steeping through the masteriance besiter than that of measurement is witnesses with live further away from the

facility, bahand the Cay's building and at a higher elevation. Furthermore, as stated in Discovery South Group v. Himous Polishion Control Board. To show 'unreasonable inserferance' (complainment) Matterson was not required to show that all of its citizens were affacted or that show affected were affacted to the same degree." (657 N.E.26 57.)

Having found that the majintenance facility is creating a sub-mantal and frequent interference. The Board also finds that not all activities as the facility an attributing to the interference. In reviewing the record and especially the testimony of Ms. Hoffman, the atterference has been demonstrated to be the result of (1) engage uruse from the large trucks as persured in Comp. Euris 3, 4, 6, 10, 10, 25, and 34, (2) the backing beginner from the large trucks as associated with only the Citerpillar equipment as testified to by Ms. Hoffman, and (3) the loading and uniformly designed to the control of the control of

Social or Economic Value of the Source

When considering this factor the Board-mass weight the value of the fourth-versas the social or economic wade is provides. The City argues that the maintenance facility provides, substantial social and-economic-benefit to the community. Complainant does not deny the social or economic which the social or economic value the location of the maintenance facility as oft nocessary to carry que int sfunctions. We agree with opoplainant that steps can be taken to place the noise levels without impeding on the social or economic value the

Sustability or Unsuitability of the Source, Including Priority of Location

 Both parties agree that Ms. Haffmar has priority of location. Additionally, both parties admit that the tackiny currently-has proper gausage We find, although the location of the maintenance facultus may be beneficial as far as carrying out in purpose, the record reflects that the flicity's location does not correspond to the neighboring land uses. Complainant's exhibit RC clearly shows that the facility shots residential property on the side which is closest to the facility. 'Considering the priority of location and the proximity of the residential property to the City's maintenance facility, the noise source is amountable.

Technical Practicability and Economic Reasonableness of Control

The record contains a substantial amount of evidethe concerning the technical pretricability and the economic reasonableness of the suggested control methods. Complainant has requested that the facility be relocated or that several control devices be instituted. Mr. Zak of the Agency, for complainant, and Dr. Weissenburger, for respondent, presented conflicting evidence concerning the technical practicality of the control devices for the maintenance facility. Additionally, the puries presented conflicting evidence as to the costs for implementing the recommended control measures. As discussed below we find that some control devices for a scions to be technically practical and economically reasonable, while others are not.

Subsequent Compliance

The Ciry states that it has reduced the noise from one backup warning device by turning the volume down. Considering the record and the complained of noise which is interfering, with Ms. Hoffman's enjoyment of life the reduction of one source does not showsubsequent compliance. Ms. Hoffman complains of noise from the roaring engines and the loading and unloading of aggregate in addition to the warning devices which are located on more than just one white?

After considering all of the above factors and the record we find that the City's — emaintenance facility is creating at unreasonable interference in violation of Section 900.102.

While there is some social value of the maintenance facility, it is causing a substantial and
frequent interference, its location is unsuitable considering it does not have priority of location
and surrounding land uses are residential, there has been no subsequent compliance and as
disbusted more fully below thereexists technically functioable and economically feasible
control devices that can be implemented which will reduce the noise. Based on these findings
the Board will consider the appropriate grandies associated with the noise source attributed to
the unreasonable interference.

Remedy

Pormally, in desertaining the proper-bennedy in an enforcement case, the Board must consider the factors set from in Section 33(c) and 42(h) of the Act. Since the Board has considered the Section 33(c) factors in determining that an unreasonable interference has considered unique civil grientities were requested, we will limit the discussion of the Section 33(c) factors, in tergion of a since property in the property of the section of th

the usuary or interference and the technical proceduatility and tennemic treasonableman of " relocating the measurement faculty, and the sources attributable to the unreasonable materiasque. The \$150,000 cost associated with relocating the faculty is not continued by reasonable coefficients the type of interference and the attenuative control continue.

Alternatively, complaints requests than the following five actions be implemented to rebuse the areas (1) equal to or begar than Nelson Model 400 morflers be put on the equipment and as the backhos end floater and the trucks shown in Comp. Ex #9.3, 4, 6, 10, 23, and 34, (2) that the aggregate pite be relocated on sign as far from complainant's residence as possible, (3) that the Cryb suitions about he load with drywall and unfaced fiberglass simulations, (4) an accommonal round barrier be basis along the property-lame of Md. Hoffman approximately 150 to 200 fost on length, and roughly 20 foot logh; and (5) the backup warraing devices have useful remarks installed on the same organizate that have been desaggeded to receive the Nelson 400 muffler. Complainant argues that gli of the above actions are becoming to refuse the coose.

• In considering complainant's sequest and the second, especially the testimony of Mr. Zale, we flad that not all of the above across are mossissry to reduce the source activation in the unrelated to the source across the second of the s

The Board has determined that the record does not reflect that maintenance facility ⁶ building is a route of none change manner, and therefore, to require that it be lined with drywall and have unfactible therejass insulation installed in not economically reasonable and is not economically reasonable and is not economically reasonable and is not economically reasonable and in not economically reasonable and in the content of the dependent of the content of the dependent of th

The Board found that the toading and unloading of aggregate, which includes but is not limited to the drive rock and said bies in a source of also note which results in untransomable interforence. The record does not reflect the cost of moving the aggregate piles but respondents valued that should be board require reduces on mouse, as bould be lumined to moving the aggregate pile in addition to adding thousands grade mufflers, and reducing the backup beopers on the trucks. Since the City has agreed in the alternative to move the aggregate pile and it is apparent that City has the means to do so the Board finds that moving the aggregate piles it is practical and economically reasonable couptof mechanism which should be implemented at the manuscence facility and will be included in the Board's order.

Another source the Board founded of an unreasonable interference was the roaring of the engages from the large trucks. Mr. Zak testified that the cost of a Nelson 400 militier was

As discussed above the fourd finds that the backup warning devices on the Caterpillar equipment at the site are causing an unreasonable interference. Complainant entered into the record OSHA regulations ferenting to motor whiches and suped that an observer may be used instead of the audible warning device. At 29 C.F.R. XWII Section 1926 602(a)(9)(i) and (ii) (audible alarms for material bandling equipment), which would specifically apply to the Cateroillar conjument at the facility states:

- (i) All bidirectional machines, such as rollers? compacters, front-end of loaders, buildozers, similar equipment, shall be eqtipped with a horn, distinguishable from the surrounding, noise level, which shall be operated as needed when the machine is moving in either direction. The horn-a shall be maintained in an operative condition.
 - (ii) No employer shall permit earthmoving or compacting equipment which has an obstructed view to the rear to be used in reverse gear unless the equipment has in operation a reverse signal alarm distinguishable from the surrounding noise level or an employee signals that it is safe to do

Respondent does not argue that OSHA requires audible warning devices or that there are State regulations which would require audible warning devices on the Caterpillar equipment at the facility and stated that reducing the backup warning dealers on the Caterpillar equipment should be 'die of the remedies should the Board find unresponsible interference.

The Board finds there exists a control mechanism to eliminate the missance noise of a sociated with the exclusive arming devices on the Caterpillar equipment that is technically engaged and economically reasonable. The Board will not order the City to add on/off switches to the warning devices but will order the City to take action consistent with applicable federal and State have to reduce or eliminate the noise from the pictup warning devices.

The final congol mechanism requested by complainant is on building of an acoustical barrier. Complainant argues that the cost of the barrier would building of an acoustical barrier. Complainant argues that the cost willabe between \$52,000 - \$57,000. As noted above, Mr. 2ak testified that the barrier is necksary because in his opinion. "[I]ooking at the octave band data in previous exhibits; the mufflers, and the building lining, and even moving he_signegate pile, it's still not going top.... bring the levels down to meet the numerical limits (Tr. at 347). As stated previously, this matter is before the Board persuant to a mistance

comprises entirely control mechanisms must be related to the finding of missance. While a system concurring mammaria exceedances is solvent as considering an extraorable superference, belong the remedy on the good of complying with the manuscral limitations is not appropriate. We find that the apostance barrier is post were about a consumer and accessive part of controlling the souse which light into an unreasonable interference. Purthermore, only some of the noise sources have been demonstrated to be an unreasonable interference and we are optimize present in the best about the part of the controlling the sound barrier is requested to reduce all none certaint steps to be taken concerning these. The sound barrier is requested to reduce all none certainting from the facility. Considering the character and degree of the supery or interference, it is not accommissful assessable to measure the construction of the sound barrier.

Conclusion

According to Tide VI: Section 24 of the Act and Section 900.102 of the Board regulations, complexess has a right to the enjoyment of their tives and property. For the reasons stated show two find that reporting violated Section 24 of the Act and the Board's remainstons at 35 III. Adhr. Code 900.102.

file sum we flad, based on this record and the finding of unreasonable interference, and after considering the factors of Section 33(c) of the Act, the following control activates should be suplemented. (1) equal to or better than Nelson Model 400 thufflers be put on the equipment such as the backhoe and loader and the trucks shown in Comp. Et 8 3, 4, 6, 10, 22, and 34, (2) that the aggregate pile for relocated on size as far frong compliantant's residence as possible as depicted on Comp. Ex/2; and (3) the noise unsance autribusible to the backup warrang devices on the Casterplate equipment including but not limited to those depicted in Comp. Ex/8; 10, 13, and 14, should be climinated consistent with State and federal regulations.

ORDER

For the fetregoing reasons, the Board finds that respondent: City of Columbia, is in violation of Section 24 of the Environmental Protection Act and 35 III. Adm. Chde 900, 102 and hereby orders respondent, City of Columbia, to undertake and perform the following actions:

- Respondent shall cease and desist from future violations of Section 24 of the Environmental Projection Act and 35 Ill. Adm. Code 900, 102.
- Respondent shall install equal to or better than Nelson Model 400 mufflers be put on the equipment such as the backhoe end loader and the larger trucks shown in Comp. Ex #s 3, 4, 6, 108 25, and 34;
- Respondent shall relocate the aggregate piles on site as far from complainant's residence as passible as marked at hearing on Comp. Ex#2;

Respondent shall cease and desist from causing noise nuisance due to the result of sound emanating from the audible warning devices on the Caterpillar equipment at the facility depicted in Comp. Ex#s 10, 18, and 14 consistent with State and federal law.

IT IS SOORDERED

Board Member J. Theodore Meyer concurred.

Board Member K. Hennessey abstained.

Section 41 of the Environmental Protection Act (415 ILCS 5/41) provides for the appeal of final Board orders within 35 days of the dates of service of this order. (See also 35 -Ill. Adm. Code 101.246, Motion for Reconsideration

I. Dorothy M. Gunn, Clerk of the Illinois Pollution Board, hereby certify that the above opinion and order was adopted on the THE day of Dethue 1, 1996 By a vote of 6-0.

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Derothy M. Gurn, Clerk Illingis Pollution Control Board 2