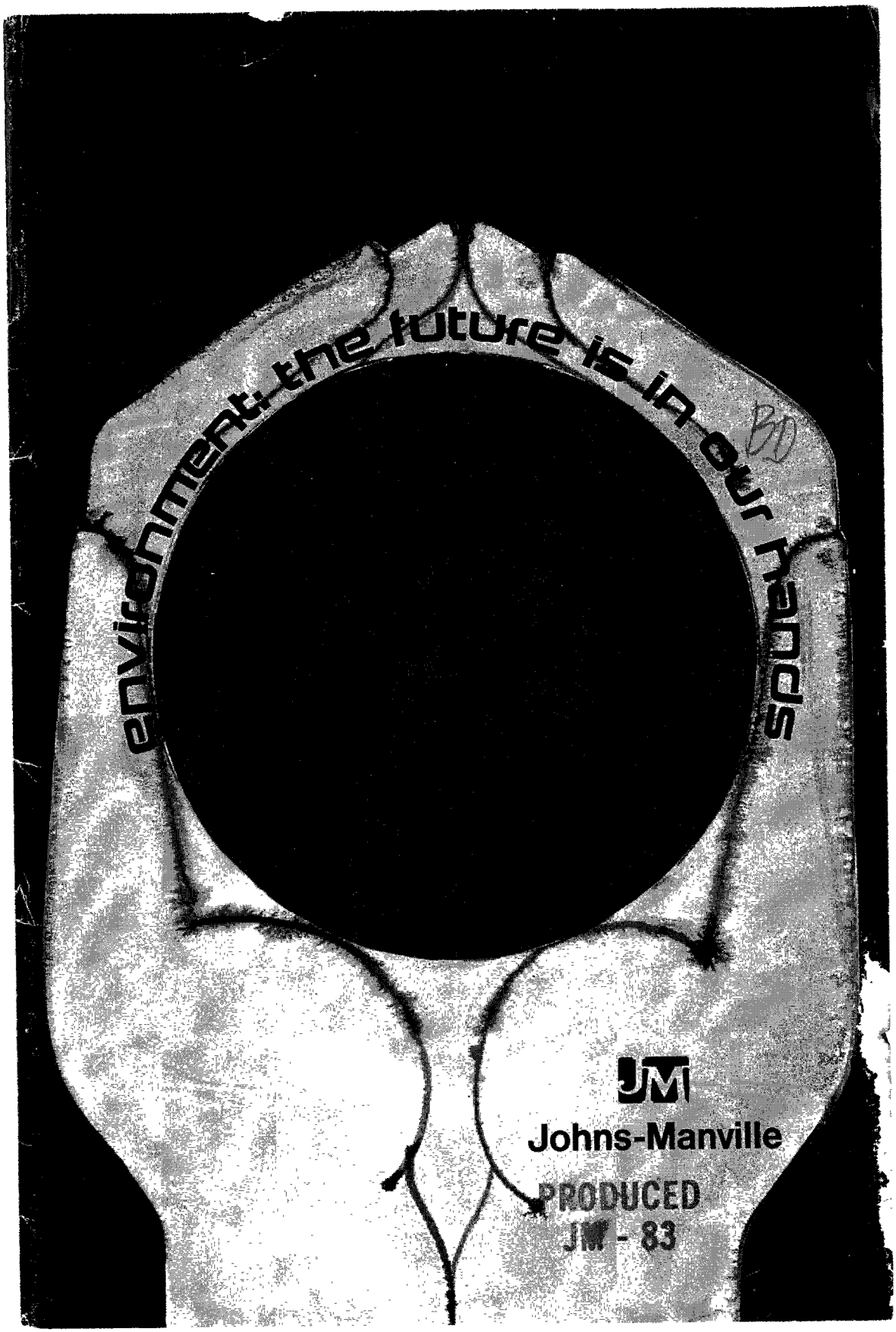
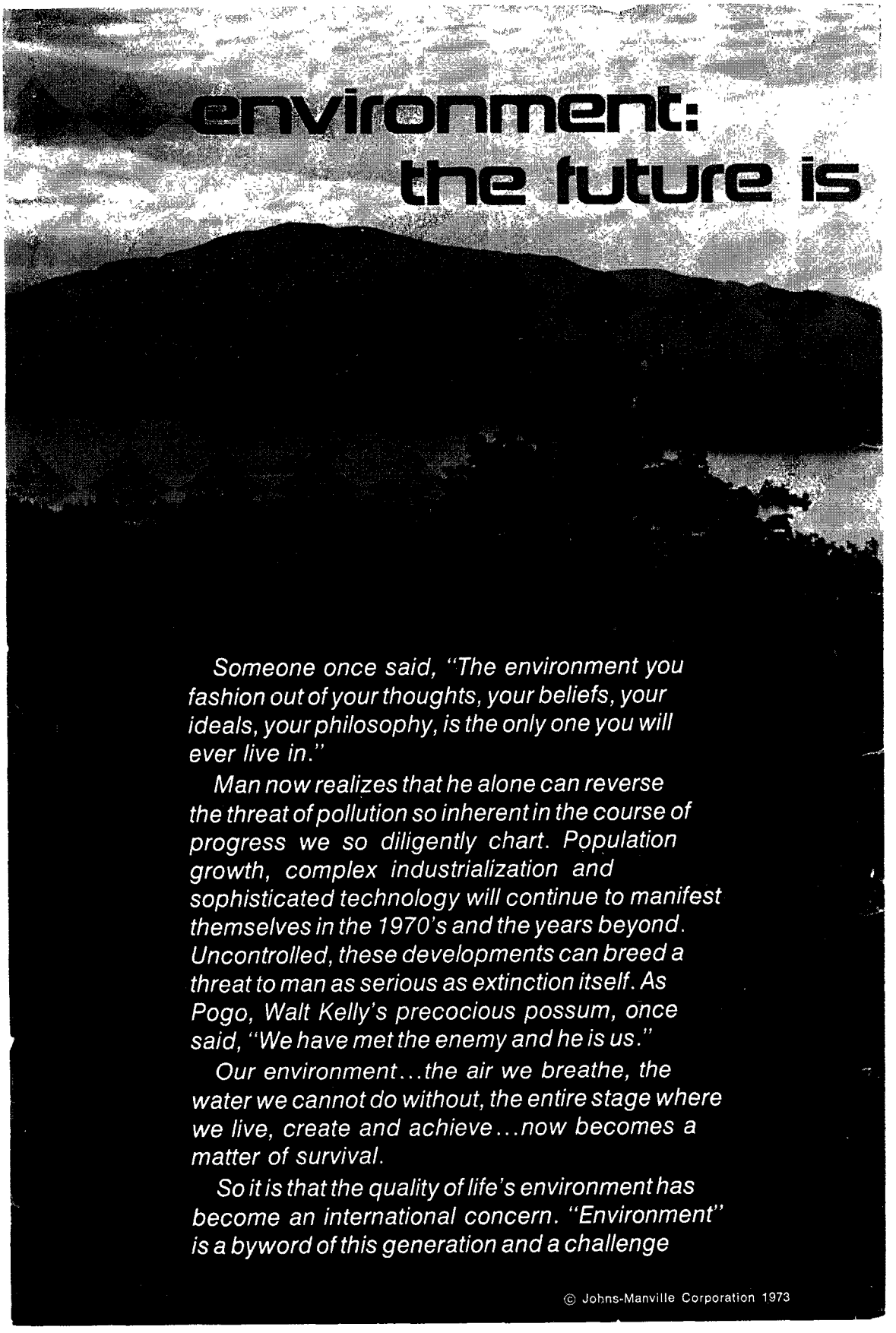


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environment:
the future is
Someone once said, "The environment you fashion out of your thoughts, your beliefs, your ideals, your philosophy, is the only one you will ever live in."
Man now realizes that he alone can reverse the threat of pollution so inherent in the course of progress we so diligently chart. Population growth, complex industrialization and sophisticated technology will continue to manifest themselves in the 1970's and the years beyond. Uncontrolled, these developments can breed a threat to man as serious as extinction itself. As Pogo, Walt Kelly's precocious possum, once said, "We have met the enemy and he is us."
Our environment...the air we breathe, the water we cannot do without, the entire stage where we live, create and achieve...now becomes a matter of survival.
So it is that the quality of life's environment has become an international concern. "Environment" is a byword of this generation and a challenge
© Johns-Manville Corporation 1973



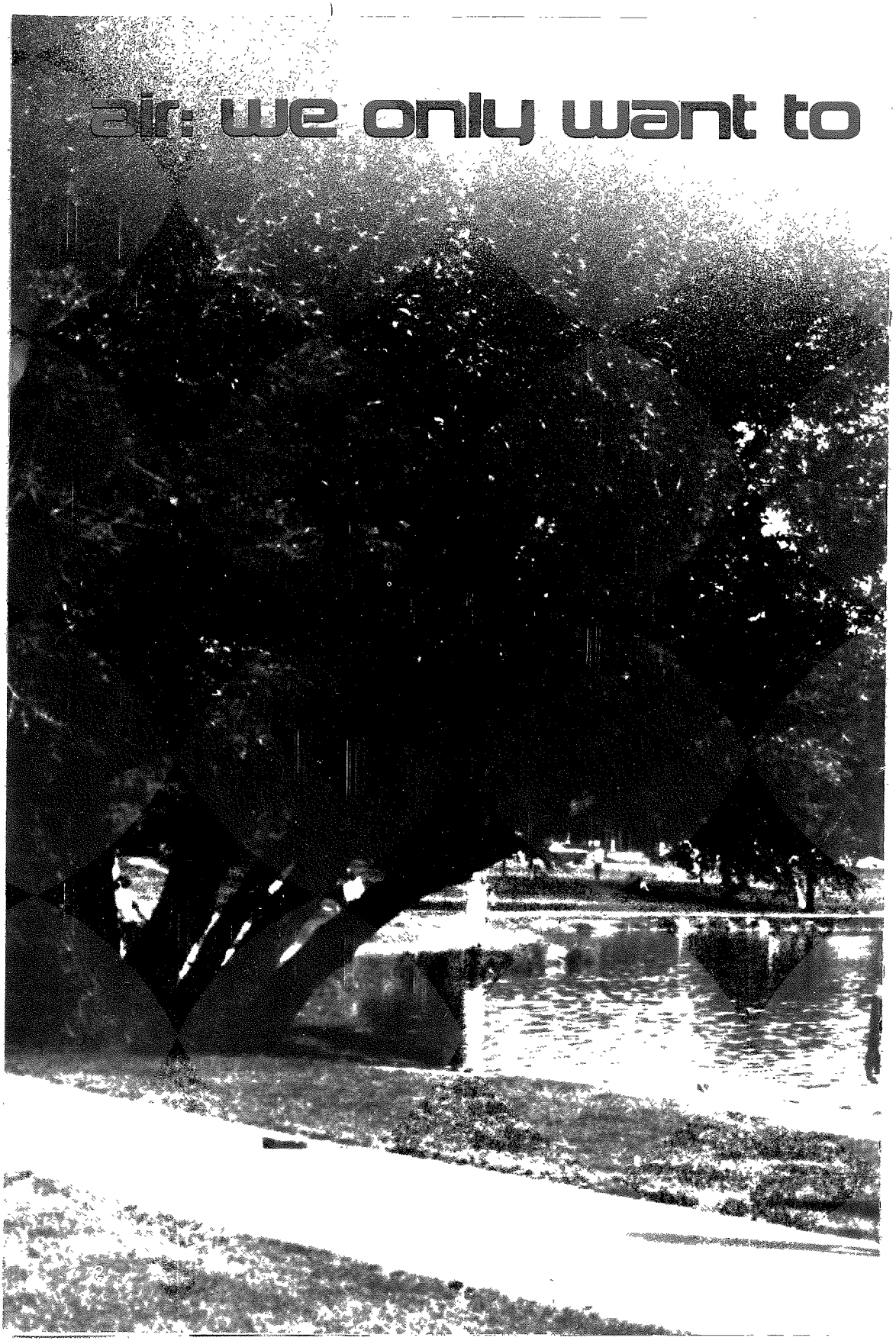
to survival tomorrow.

Prophets of doom say it's too late to save the environment. We at Johns-Manville think otherwise. We feel man and nature can live in harmony. We're working to achieve that goal. But we're realistic, too. It will take time, technology, money...and people...to make it happen.

Several years ago we set down a policy "to develop, produce and market raw materials, products and services to control, protect and improve man's environment and industrial processes with emphasis on comfort and safety." With J-M, it's more than a statement. It has been a dual commitment to first protect the environment in and around our own operations; second, to share our knowledge with others who are equally optimistic about the future.

This magazine outlines some of our ideas and innovations to help solve environmental problems. We want to share them with you.

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air: we only want to

breathe it, not see it

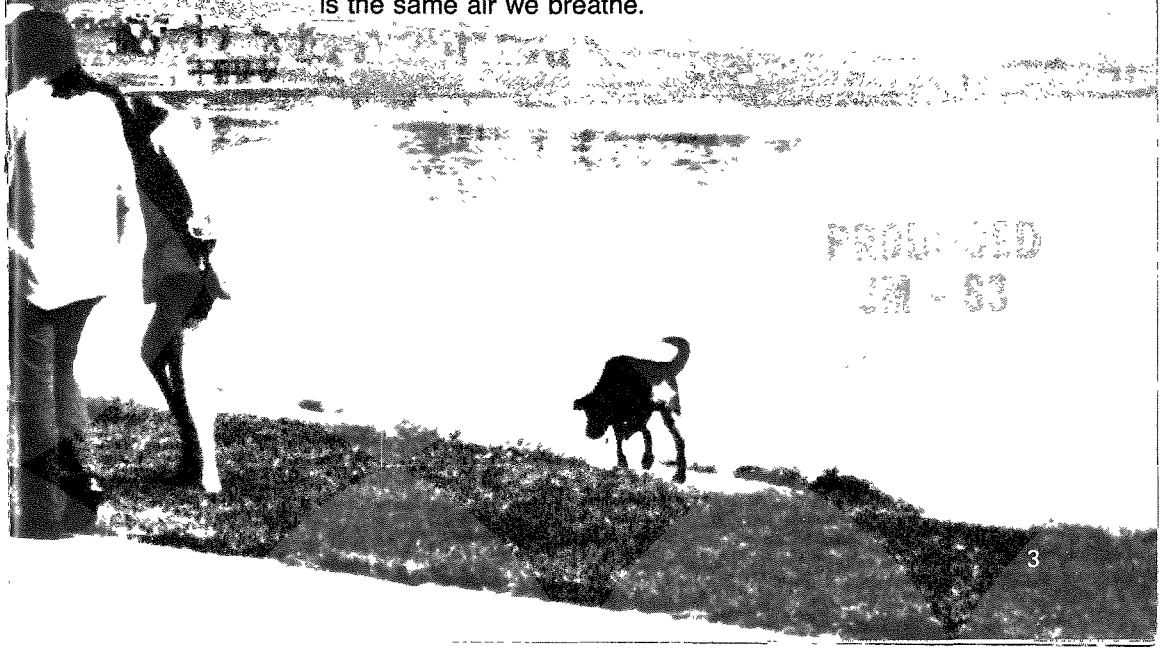
Air pollution is as old as the world itself. Fires caused by lightning that strikes forests, volcanic eruptions and other natural phenomena have always contributed to atmospheric contamination. But the advent and progress of civilization have put a huge stress on the quality of our air.

In the United States alone, it is estimated that, given the priority and technology, it would cost up to $60 billion to clean up the air. The sources of air pollution? Automobile emissions contribute about 60 percent, industry about 17 percent, power plants about 14 percent and other sources about nine percent.

It has only been during the last decade that massive concern has been expressed about air pollution. Yet, as far back as the 1920's, J-M developed ways to control and even eliminate the emissions belched into the air from the stacks at our plants in more than 70 communities. We've used scrubbers, precipitators, after-burners and filtration systems in our manufacturing processes. We developed, and still maintain, the world's largest fabric filter (bag house) at our Jeffrey Mine in Quebec.

Developments such as these, coupled with strong laws to regulate pollutants released into the atmosphere and a genuine desire by people to do their parts, have already helped clear the haze which mars our landscapes.

We at J-M are by no means finished. We'll continue to develop ways to keep our air clean. We're part of the communities where we work. And after all, the air you breathe is the same air we breathe.



Johns-Manville, Environment: The Future Is in Our Hands (1973)
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HEAF helps us...

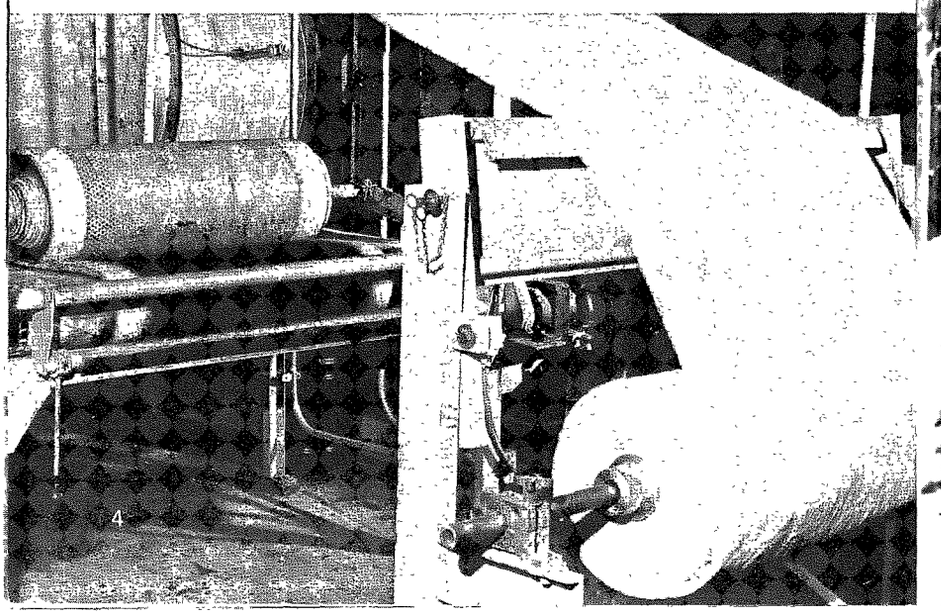
HEAF... High Energy Air Filtration system. Back in 1968, after seven years of research, we came up with HEAF, a system that utilizes glass fiber mats to trap pollutants. It is effective in removing many hard-to-control pollutants along with normal contaminants.

HEAF's advantages? More than 95 percent efficient for liquid and solid, sub-micron particulates. Less expensive than other systems we tried. Changes filters automatically. Less space requirements and lower operating costs.

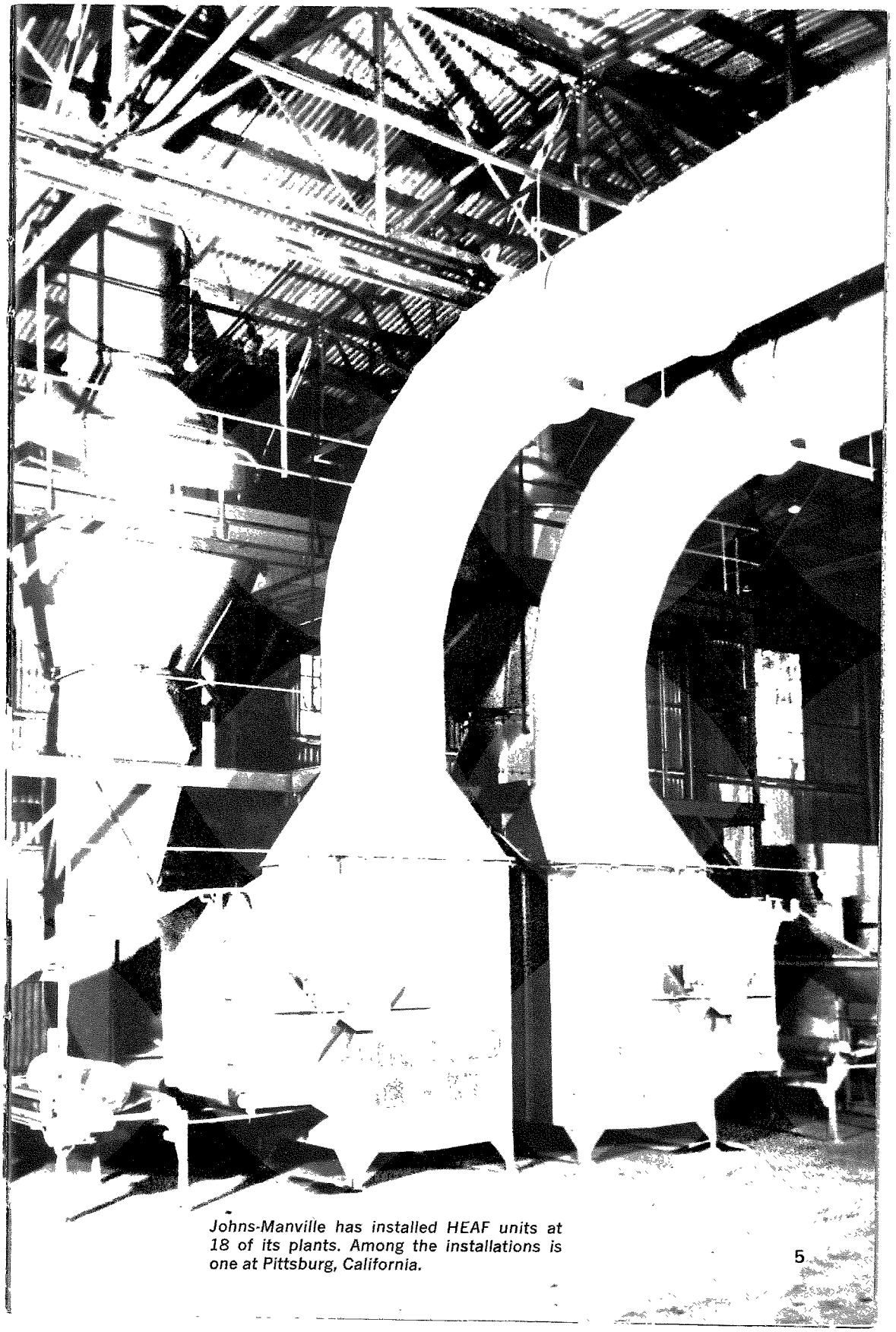
We first used HEAF on fiber glass ovens at our Penbryn, N.J. plant. Since then we've installed it in 18 J-M facilities and plan on 14 installations in the next 10 months. That's putting a lot of confidence into a product that has to protect people.



A glass fiber filter medium is fed to the HEAF unit from a roll set on a travel mechanism. It can be operated automatically or by hand.



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Johns-Manville has installed HEAF units at 18 of its plants. Among the installations is one at Pittsburg, California.

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...why not let it help you?

Our commitment is to share our success with others. It makes sense. If HEAF is working well in J-M plant communities, it certainly can work for other companies and other communities.

HEAF works for Celotex Corp. in Texas, Pennsylvania and Illinois. In Chicago, Celotex, a producer of asphalt roofing materials, had an ultimatum: clean up or close down. Two HEAF units, each able to handle 20,000 cubic feet per minute (cfm), were installed and today the plant has controlled pollution, plume and odor emissions. Celotex has ordered an additional HEAF unit.

R. Lavin and Sons, a bronze smelting company in Chicago, uses a 20,000 cfm HEAF to solve air-emission problems. So does a New Jersey tape firm. Not only did HEAF clean the air, it opened a door for plant engineers to redesign their manufacturing techniques. And that meant a better product.

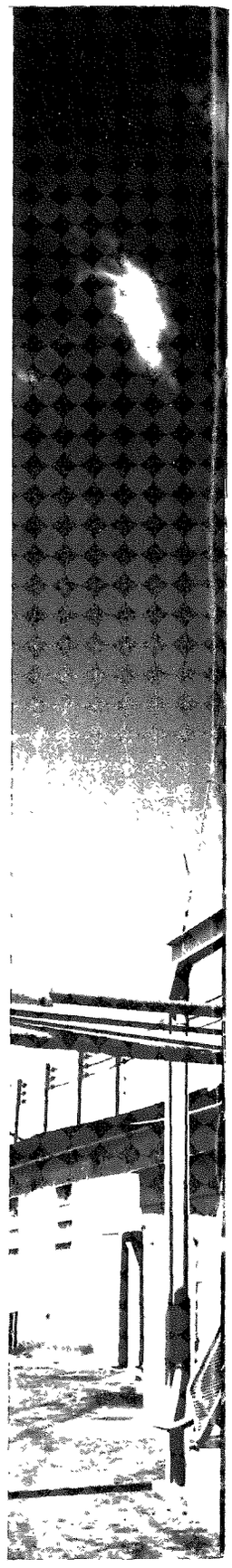
Here are some other places where HEAF is working:

- a nylon coating operation in Maryland (10,000 cfm)
- fiber glass ovens in Ontario (15,000 cfm)
- a detergent manufacturer in Maryland (1,500 cfm)

There's another nice thing about HEAF. We can build a special unit to fit your special needs. We're doing it for asphalt contractors in the Los Angeles area. J-M has developed a mini-HEAF (300 cfm) which can be used on the kettles contractors use for heating asphalt before it is applied.

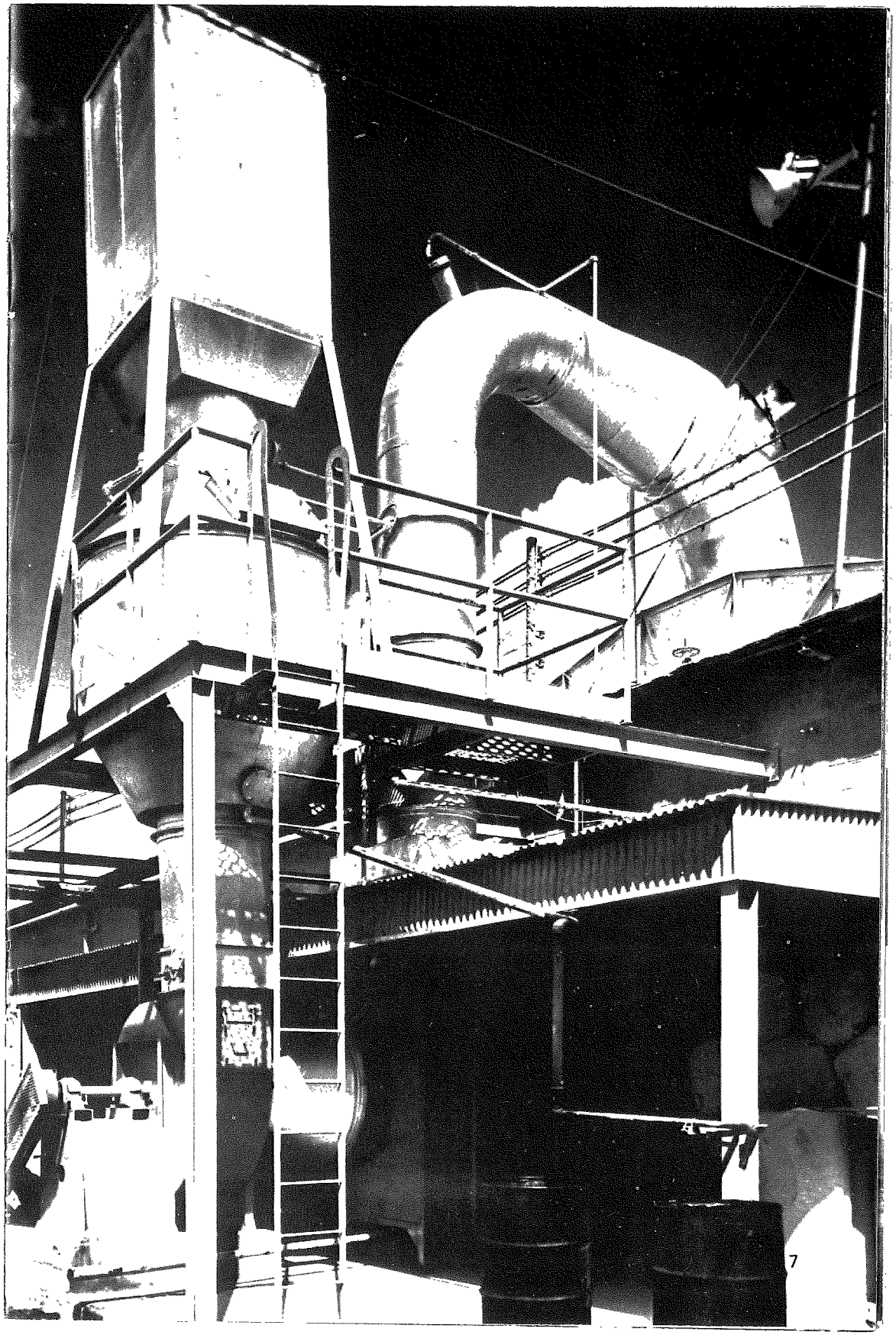
These are only a few examples of the many HEAF units we have installed or are producing for customers.

HEAF... it's nothing glamorous, but it does the job. And that's what environmental control is all about.



Celotex Corp. uses HEAF at its plants in Texas, Pennsylvania and Illinois.

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water: it must come

Water and survival go hand-in-hand. We don't have to impress anyone with the fact that we simply can't live without water. But we must impress everyone with the importance of making it clean... before we use it and again after we use it.

Consider the problem. In school we learned about the hydrologic cycle. There is only a certain amount of water on the earth and it is being recycled through evaporation, precipitation and the like. There has to be a point at which nature's cleansing process cannot handle the load and man must step in to lend a hand.

J-M gets down to the heart of the problem. We make pipe... many kinds... to move water without infiltration or exfiltration. We mine, manufacture and market minerals that filter out impurities from water. We produce systems which treat water when you're through with it . . . and make it usable again.

We can't ignore the threat to our most fundamental natural resource. We must work to keep our water clean ...otherwise we won't have anything for which to work at all.



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clean



Clean water is an essential part of our daily lives, whether at play or at work.

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we deliver...

When you turn on the faucet to get water for drinking, cooking or washing, it must be clean. Delivering water from its point of origin to your faucet and ready to use is one of our important contributions to a better environment. At J-M, we have the materials to do the job.

Our Transite and plastic pipe products take clean water and move it to you—clean. The pipes and their joints have virtually no leakage and that means no contamination from outside sources.

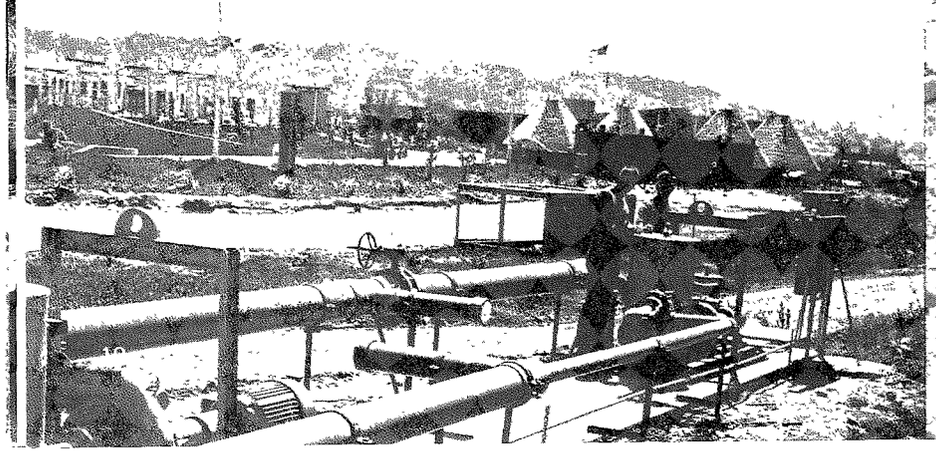
In Somalia, they're using J-M pipe to move fresh water from rural areas to the capital city, Mogadishu. Our asbestos-cement pipe serves as a supply line from a reservoir in Connecticut; more than 40,000 feet of our pipe make up a feeder main supplying domestic water in Georgia.

We also have the means to filter water before you use it. We mine and market a product we call Celite, diatomaceous earth created by the skeletal remains of microscopic aquatic plants. As a filtering agent, Celite catches impurities in its pores and lets the clean water pass through to you.

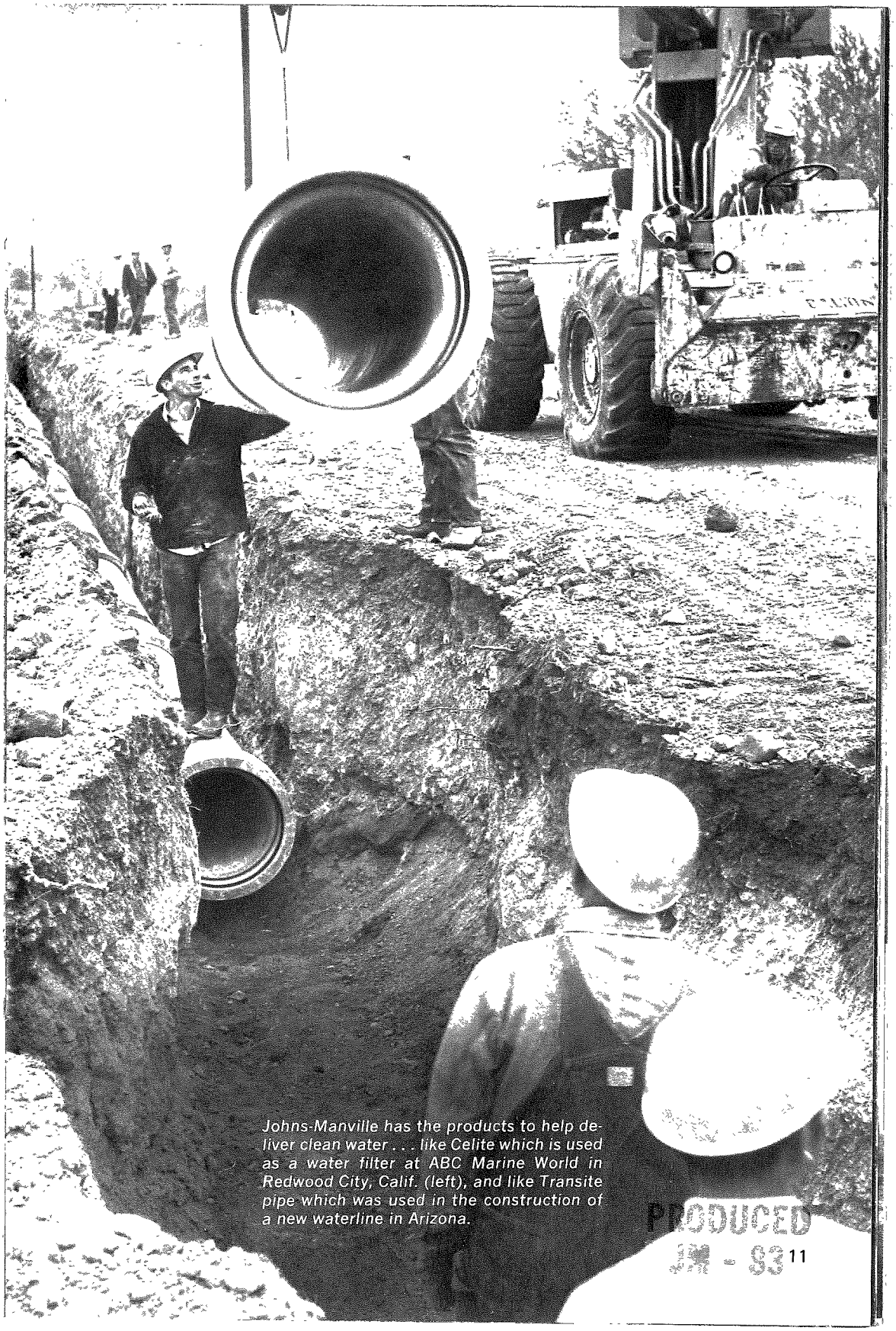
Boonton, N.J. has a new water treatment plant and uses Celite as a filtration agent.

Triangle Cable Company in New Jersey is a manufacturer of utility power cable, building wire and hot-rolled copper rods. Countless metal fines were washed away in the production process. After using Celite in its filtration process, Triangle not only cleaned up its waste water but also was able to recover the metal fines and return them to usable products.

Clean water... we have to keep it flowing if we want a healthful environment.



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Johns-Manville has the products to help deliver clean water . . . like Celite which is used as a water filter at ABC Marine World in Redwood City, Calif. (left), and like Transite pipe which was used in the construction of a new waterline in Arizona.

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JM - 93 11

...and carry out

You want clean water. So do the people who'll use the water when you're through with it. J-M has been working on that problem too.

We manufacture pipe that takes waste water from you without leakage to the environment. One pipe is Flextran, a fiber glass reinforced mortar pipe which has brought the industry a new dimension in corrosion resistance. Another is Permastran, a lightweight fiber glass, plastic composite pipe that has proved effective, time and again, for moving waste water.

We also have a new idea for treating waste water. We call it MBF... Moving Bed Filter. The idea is working at the Manville, N.J. Borough Waste Water Treatment Plant where we are cooperating with the borough and U.S. Environmental Protection Agency on a demonstration project.

Here's what MBF can do. Through efficient use of coagulant chemicals, MBF has the capacity to reduce turbidity, phosphorus, suspended solids and biochemical oxygen demand (BOD) to the levels you need today... and those needed for tomorrow.

Its features? Flexible chemical feed for the treatment you want...handles high and variable solids loads with low, uniform effluent residual...small, compact construction ...automated.

Engineers plan to use MBF in Greenville, Maine, as a phosphorus removal system to protect Moose Head Lake. In Colorado City, Colo., a new city along the Rocky Mountains' Front Range, a unique compact combination of conventional sewage treatment methods and MBF will be working side by side to meet stringent effluent standards.

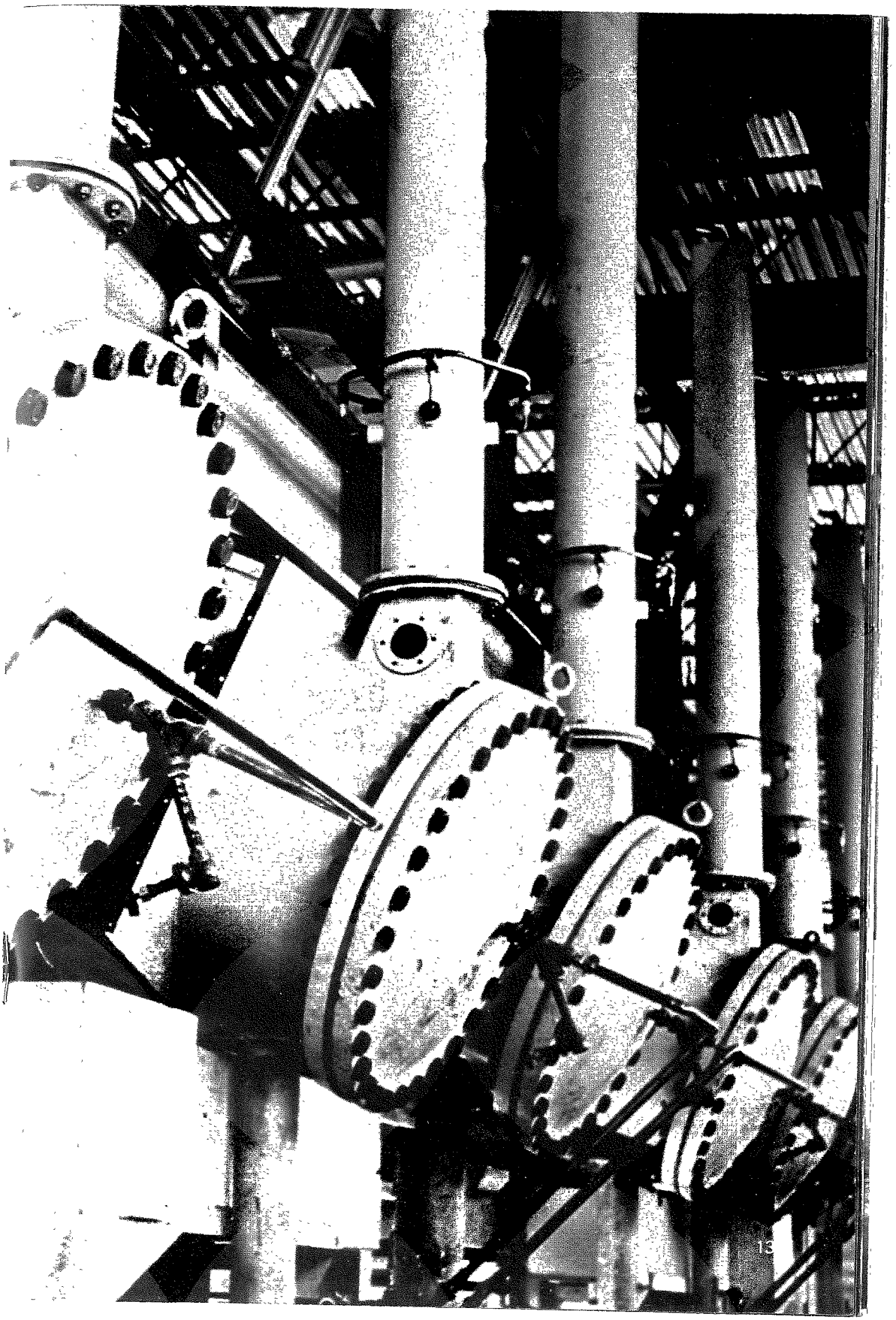
And in Yellowstone National Park, engineers are designing a treatment system which uses MBF to remove phosphorus from waste water at tourist facilities near Old Faithful.

MBF... use it as a separate system or couple it with other sewage treatment techniques. Either way, MBF can help clean your water, again and again.



The Moving Bed Filter was first used as a pilot project in Manville, N. J.

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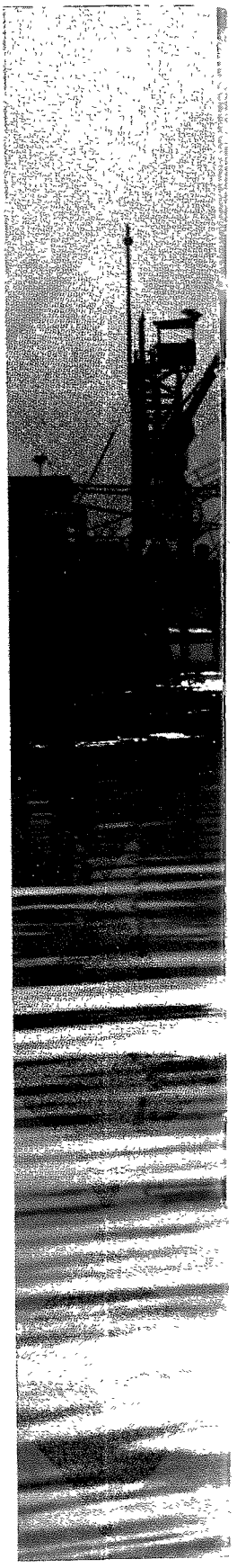
oil and water don't mix

The world's increasing dependence on petroleum products has brought with it a new and tragic threat to the environment. Oil spills on the world's waterways may deface the landscape, kill wildlife and even cause millions of dollars of loss to commerce. While the oil industry is working hard to prevent oil spills, there still remains a need to protect the environment when there is a spill off any of the world's coastlines or on inland waterways.

Johns-Manville is developing a new generation of control systems to attack oil spills on two fronts. First, we have two oil absorbents—Sea Serpent and Water Wipe—which can be used to soak up slicks. Sea Serpent looks like a line of logs and is dragged across a spill. Made of polyurethane, sponge-like foam, Sea Serpent is lightweight, flexible and inexpensive. Water Wipe is a sheet form of Sea Serpent and can be used for smaller spills or to sop up oil until additional help arrives. The nice thing about both systems is they can be reused. Just wring them out and put them back to work.

We're also continuing to develop booms that corral oil slicks until they can be cleaned up. Our initial work in this area was conducted under a contract with the U.S. Coast Guard. The system was successfully tested in the Gulf of Mexico and off the coast of California. Today, we're working on a boom that is easy to handle, repair, clean and store. But more important, it's earning its stripes as an effective means of halting the spread of oil.

There's a law of nature that says oil and water don't mix. At J-M, we're working to make certain man doesn't break that law.



On the high seas or on inland waterways, Johns-Manville is working to help protect the environment from the threat of oil pollution.

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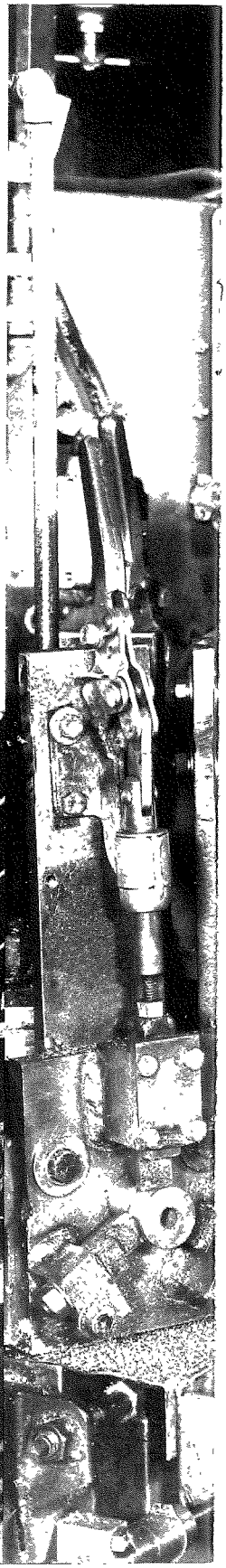


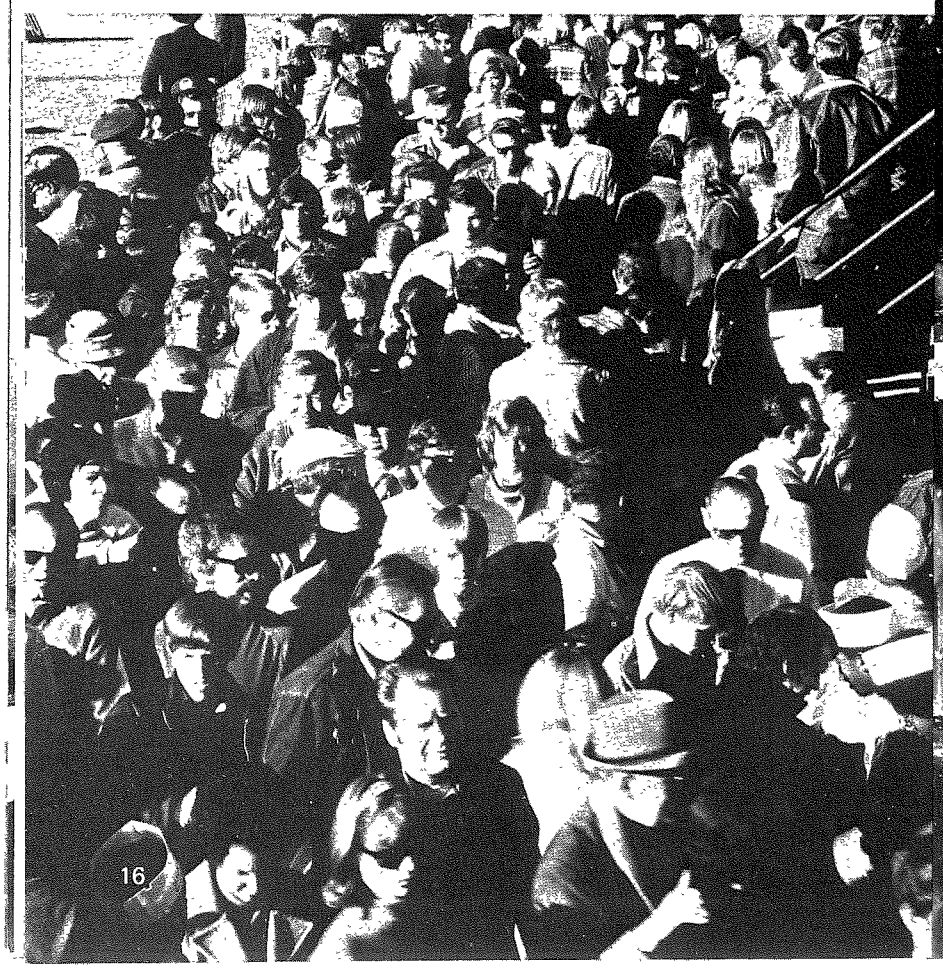
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hygiene: the third dimension

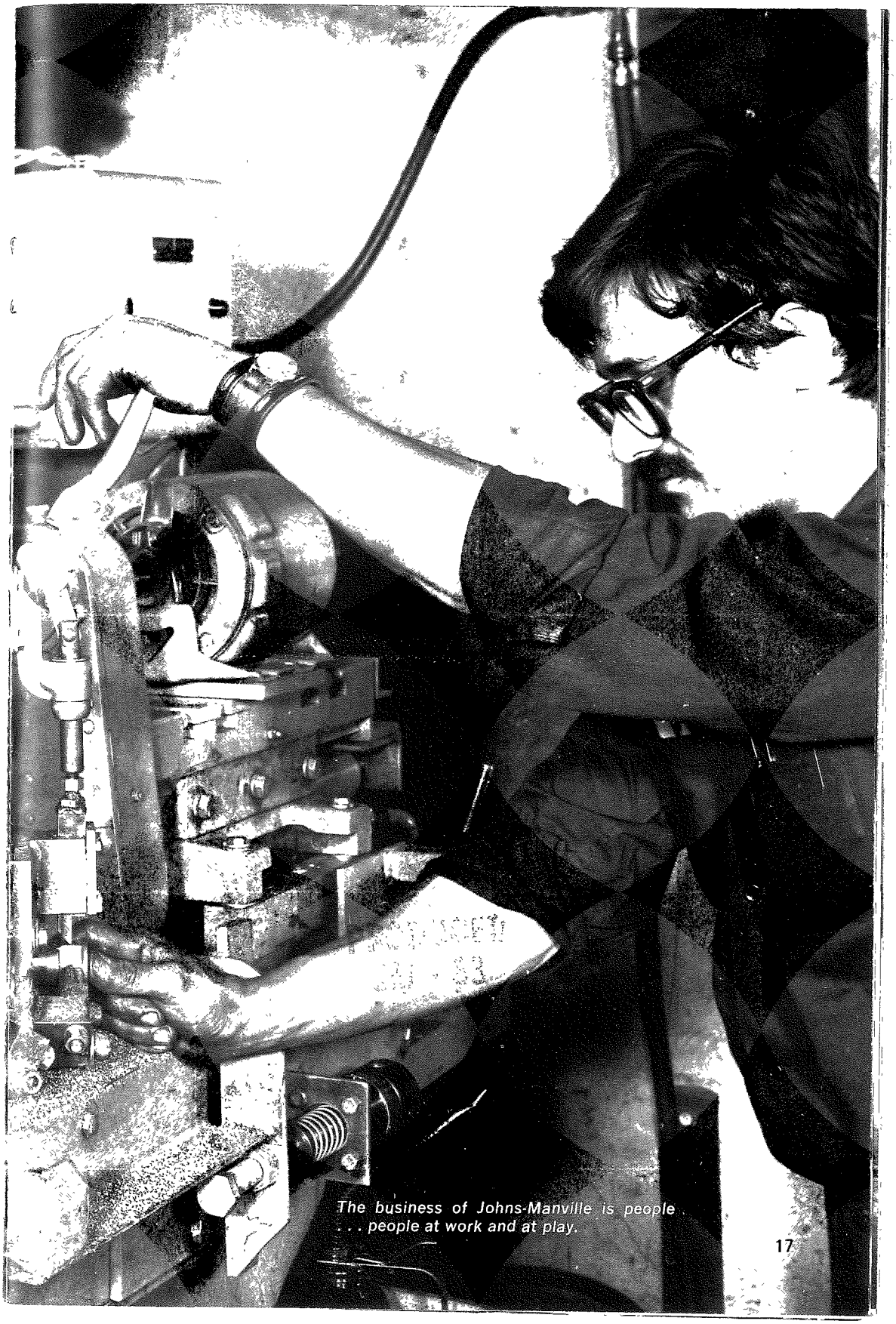
Air and water...they're the basic elements for a good environment. These are the precious natural resources that must be cherished and protected before all else. But there are other elements that are important in our approach to improving the total environment.

The following pages outline three services we provide to help make the total environment more comfortable and healthy. Our industrial hygiene services, our industrial environmental engineering activities and our acoustical products all help make your life more pleasant. They're part of our business at J-M...and the basic element of our business is people.





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The business of Johns-Manville is people . . . people at work and at play.

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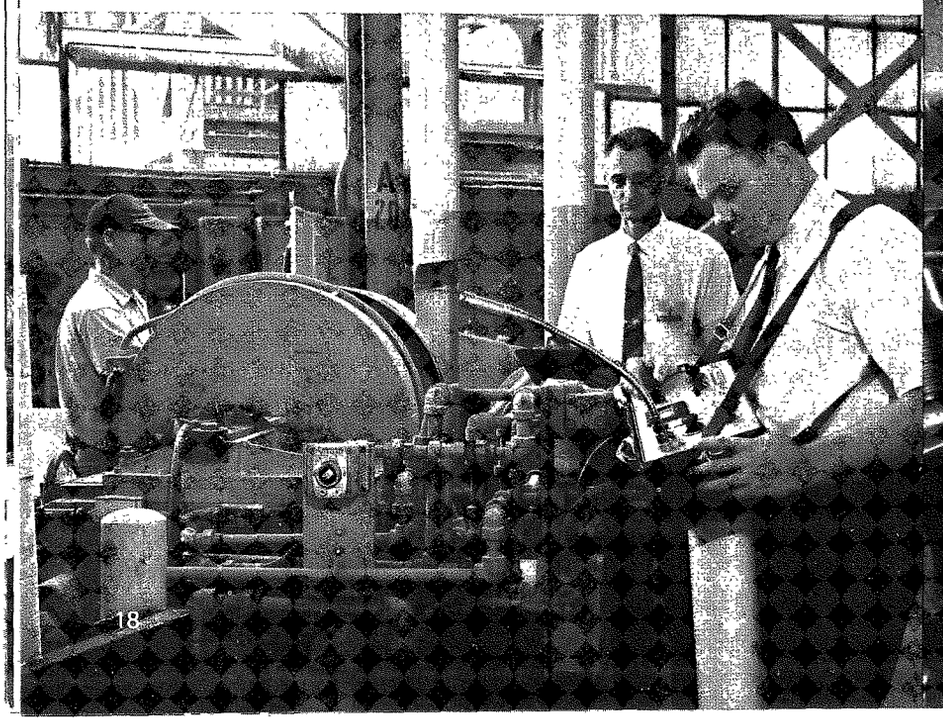
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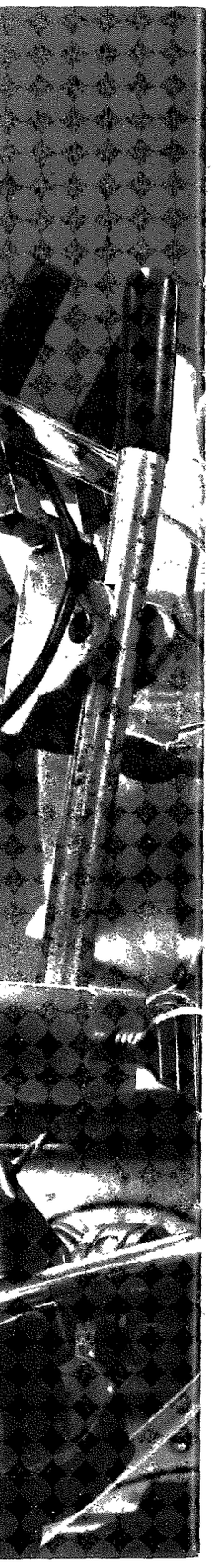
we pinpoint problems...

If you have a problem with noise, dust, fibers, fumes or vapors at your business facility, we can help you decide the best methods to solve the problems.

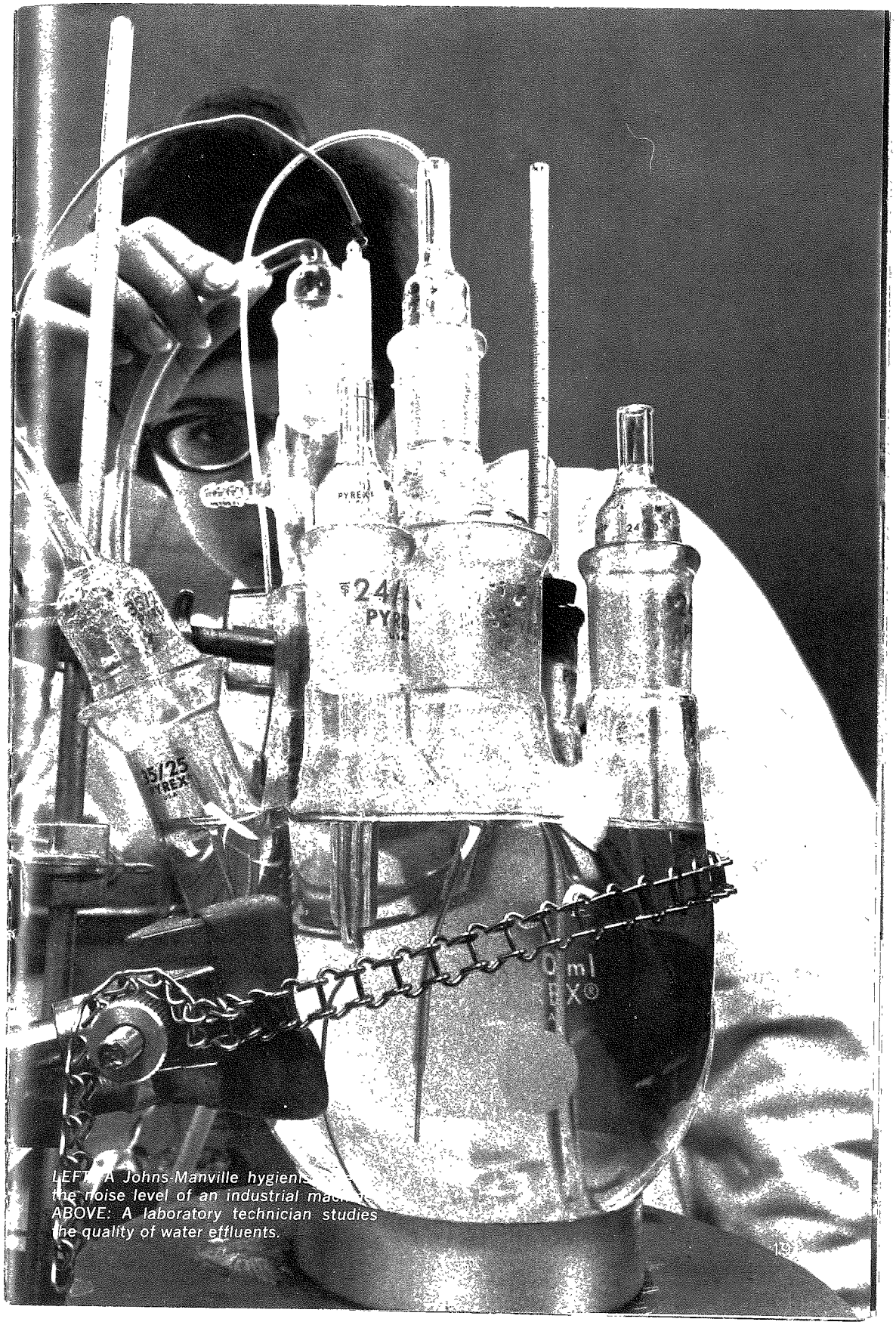
Our credentials? More than 50 years of industrial hygiene engineering experience at J-M plants. Our experience is worldwide, gathered at 70 facilities in such diverse areas as hard-rock mining, glass production, consumer product manufacturing, chemical processing and soft goods production; experience that says people are our most precious resource.

This is what we'll do. Specialists from one of our industrial hygiene centers in California, Illinois, New Jersey or Quebec may be retained to visit your plant and survey work areas. They'll check noise levels of machines. They'll survey dust and vapor levels in work areas. And they'll tell you how you stand in relation to the laws that govern your operations. Hopefully, you're complying with the regulations. If you're not, and you need help deciding the best way to solve your problems, we can lend a hand, and that includes training your own industrial hygiene staff if you want one.





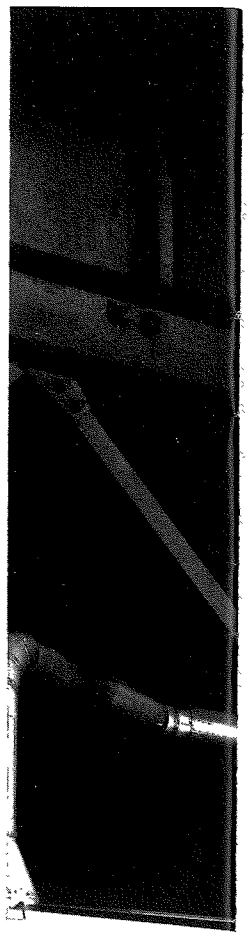
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LEFT: A Johns-Manville hygienist measures the noise level of an industrial machine. ABOVE: A laboratory technician studies the quality of water effluents.

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...and we solve them...

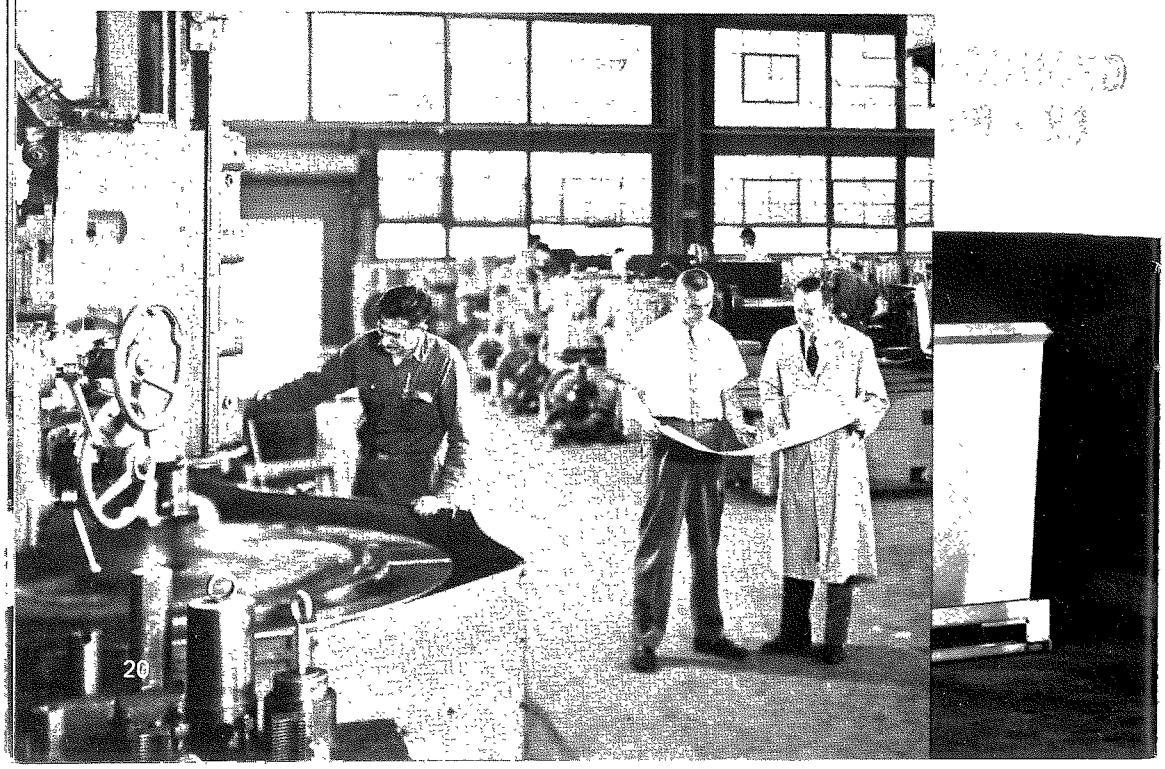


J-M industrial environmental engineering services are directed toward finding meaningful solutions to all problems in an industrial environment, both at our facilities and at yours. Environmental engineering is conducted by a team of professionals—scientists, engineers and technicians who, in the last five years, have produced nearly 600 pollution control systems.

How far will we go in providing engineering services? As far as you want. We'll conduct engineering surveys and provide recommendations, detailed design and engineering reports. We'll even coordinate the purchase and installation of corrective equipment.

Among our industrial environmental engineering credits are helping a Colorado mattress manufacturer clean up dust; showing a New Jersey petro-chemical firm how to solve fume and vapor problems; and designing air-handling systems for a paint company in Maryland.

Why keep the knowledge we've gained to ourselves? If we can share it with others, we're doing something to help steer the course toward a better environment.



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Johns-Manville industrial hygiene engineering covers the entire industrial environment.
21

...quietly

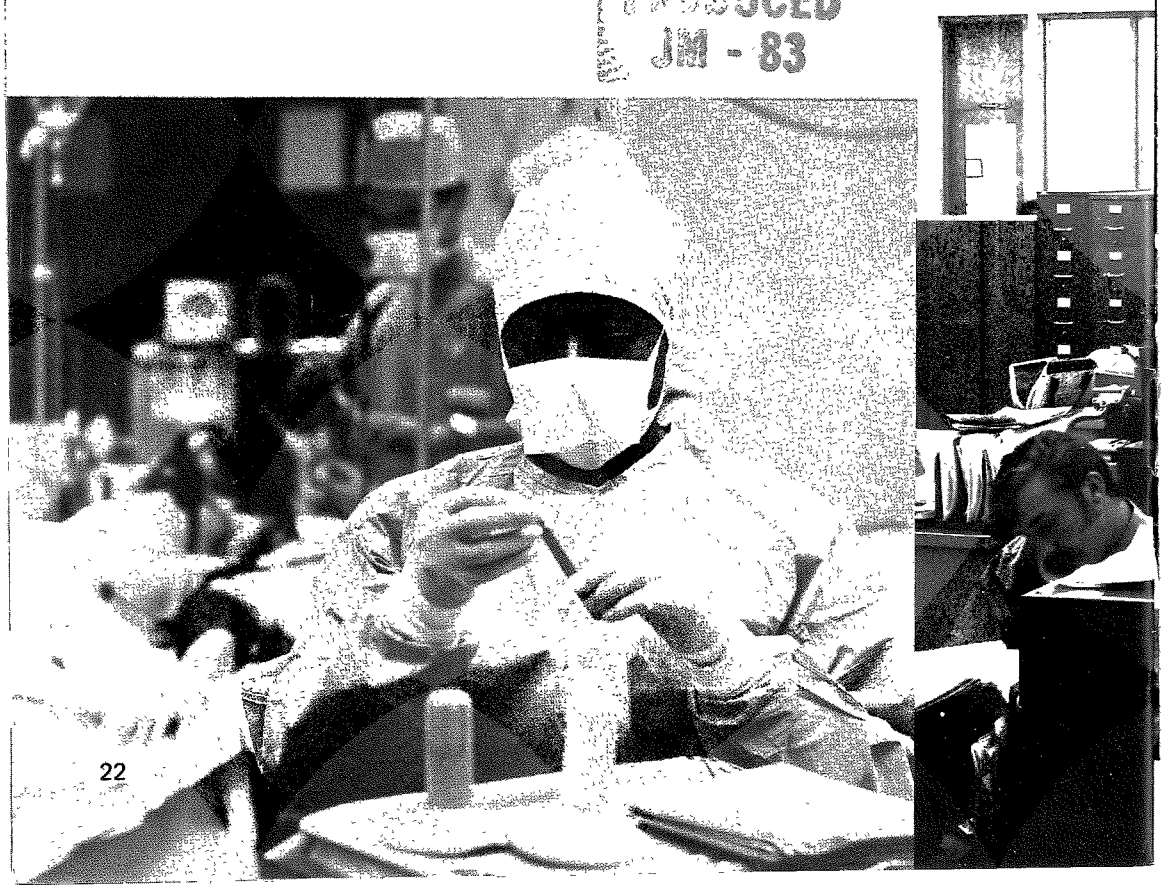
In 1900, less than 80 million people were living in the United States. By 1970, the population had more than doubled—but the land didn't. And along with more people, there came a barrage of noise—trains, airplanes, appliances, and automobiles. More people using more things on the same amount of land: some experts say that if this trend continues, millions of Americans will be deaf by the 21st century.

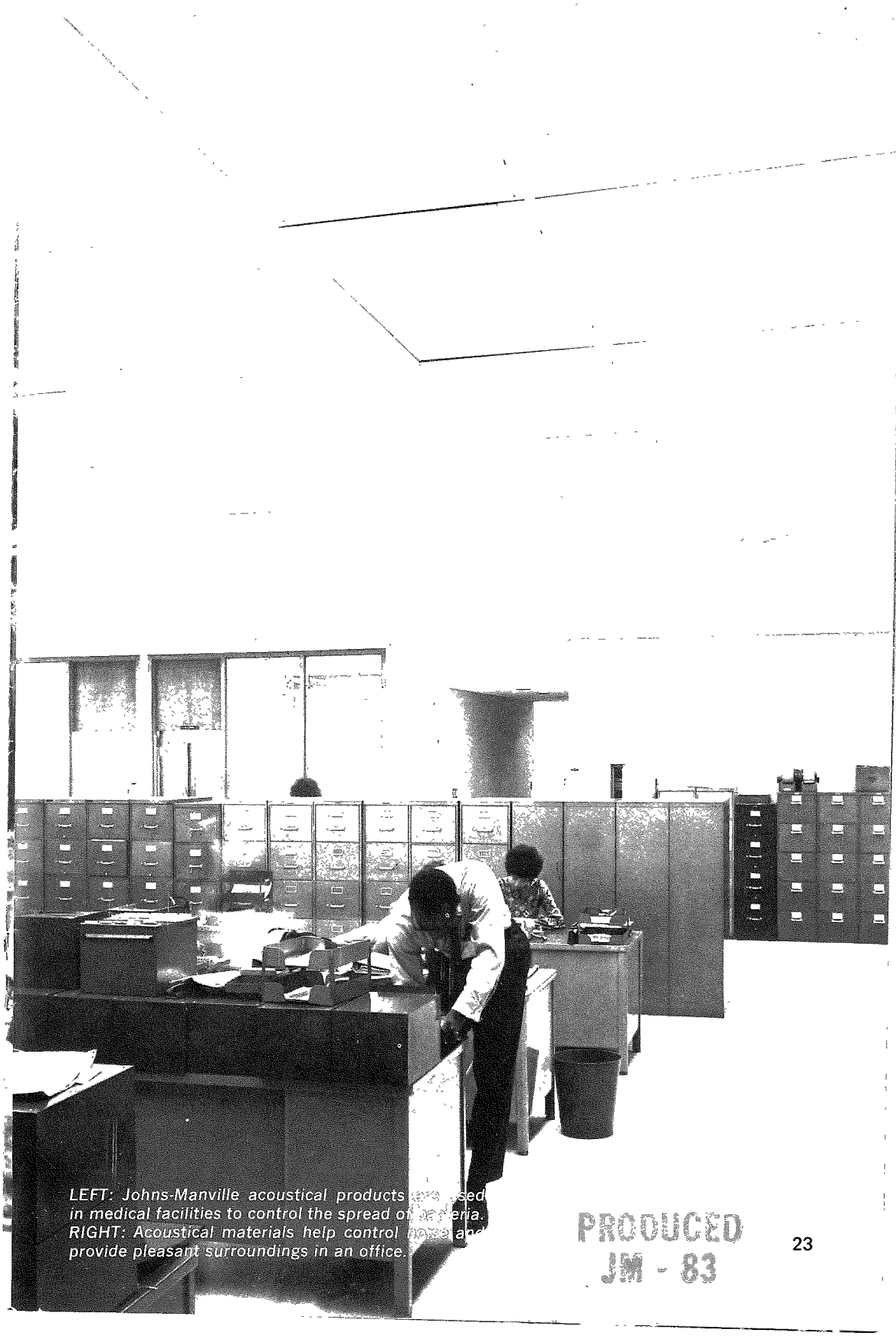
J-M has manufactured and marketed acoustical products...since 1910. They have superior sound control, acoustical correction and vibration isolation qualities that deaden noise in manufacturing, educational and public facilities. They also make your home a silent refuge from the outside world.

We also have a line of acoustical products that double as bacteria-control systems and are used in laboratories, hospitals and restaurants.

Keeping the noise out when you're in. It's all a matter of being seen, not heard.

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LEFT: Johns-Manville acoustical products [illegible] used in medical facilities to control the spread of [illegible] bacteria. RIGHT: Acoustical materials help control noise and provide pleasant surroundings in an office.

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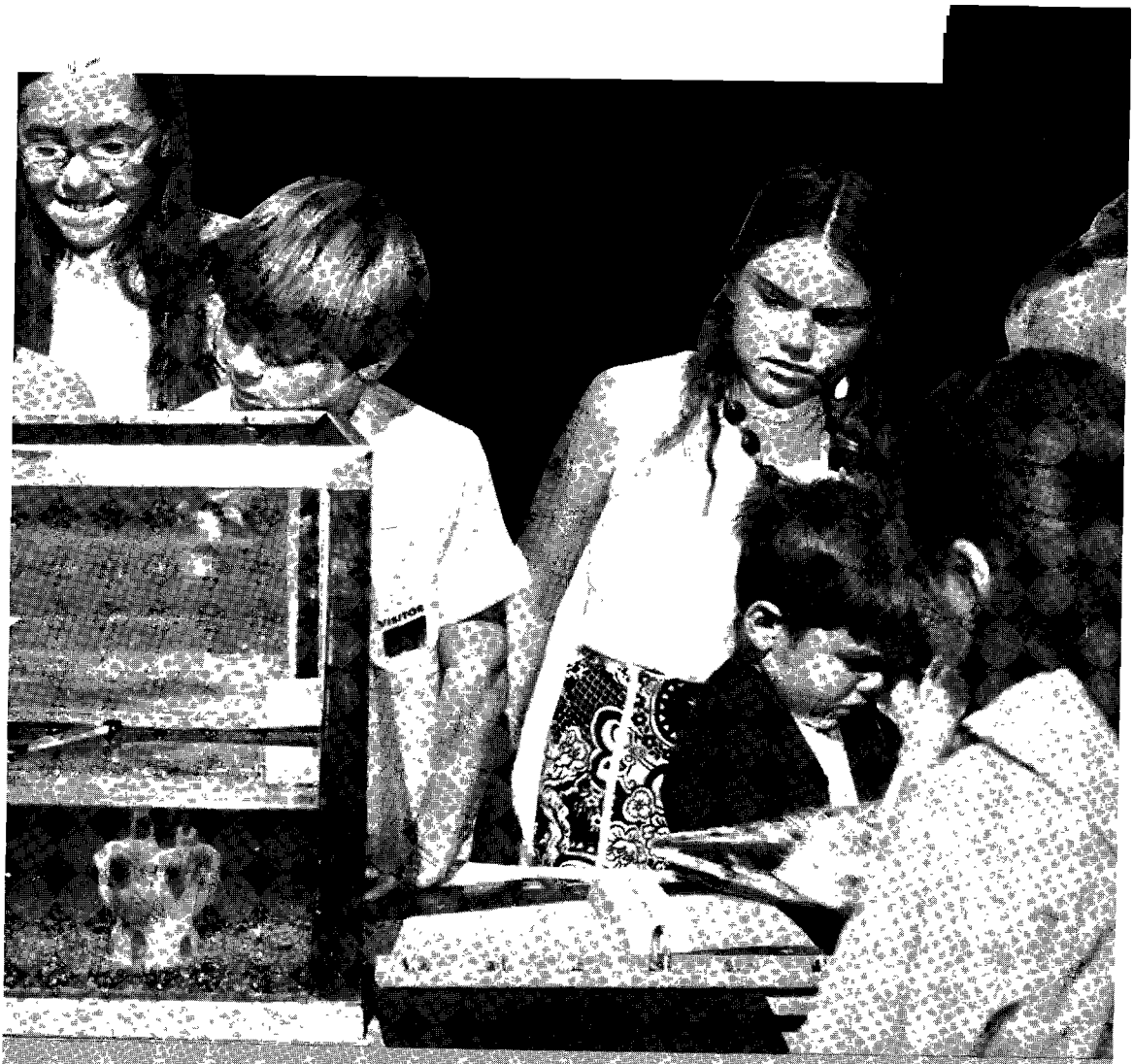
Earth,
our planet, our home.
Patterned with water, soil and air
to sustain all living organisms
in a precise balance of
interdependent regeneration.

And man,
singularly endowed with intellect,
with the power to alter and elevate
Earth's nurturing elements
to enrich his own life.

Following nature's pattern,
man has multiplied, flourished,
adding his own beauty
to his world.
With ingenuity he has refined,
in mere centuries of time,
the elements of an eternity,
harnessing energy from the
mighty waters,
feeding the soil that it might
yield to his demand,
and releasing into the finite
skies, water and soil
that which served not his needs.

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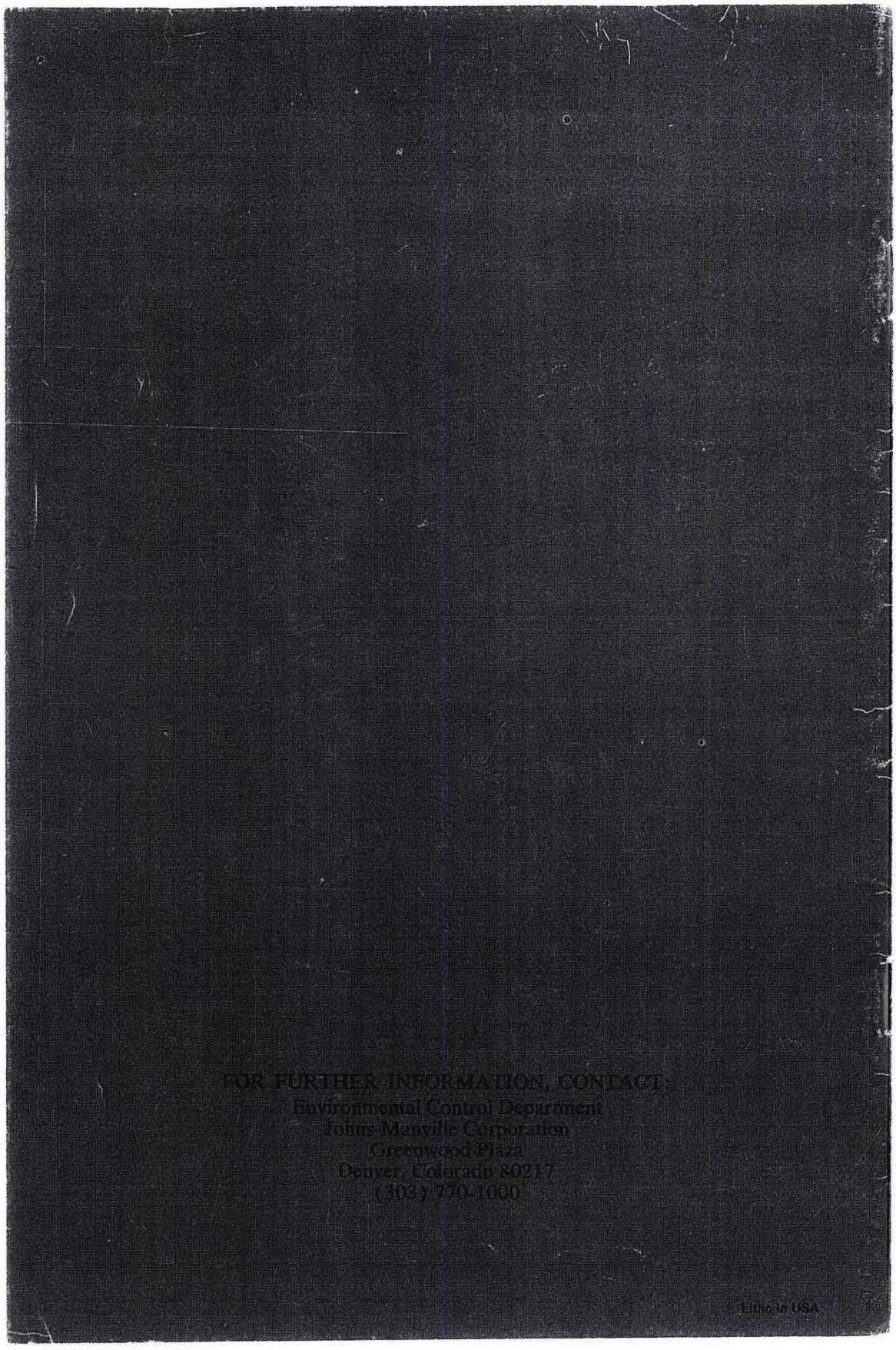


At last,
man is pausing from his toil
to view the world he has
mastered.
And he is troubled.
In the relentless drive
to perfect his own design,
he has violated
nature's law of balance,
and his very environment
bears the scars of
rash improvidence.

Today we know
that the equilibrium between
man and his planet
can and must
be restored.
Conscious at last of his place
in the scheme of destiny,
man faces his task
with humility.
To his universal family
he calls for
help.
And the world answers
with an unqualified determination
that man CAN
live, work and play in harmony
with his environment.

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FOR FURTHER INFORMATION, CONTACT:
Environmental Control Department
Johns-Manville Corporation
Greenwood Plaza
Denver, Colorado 80217
(303) 770-1000
Litho in USA