

VILLAGE OF LOMBARD
REQUEST FOR BOARD OF TRUSTEES ACTION
For Inclusion on Board Agenda

	Resolution or Ordinance (Blue)
X	Recommendations of Boards, Commissions & Committees (Green)
	Other Business (Pink)

TO: PRESIDENT AND BOARD OF TRUSTEES

FROM: William T. Lichter, Village Manager

DATE: April 27, 2005 (COW) (B of T) Date: May 5, 2005

TITLE: Educational Recycling Grants

SUBMITTED BY: John Burg, Assistant Director of Public Works



BACKGROUND/POLICY IMPLICATIONS:

See attached memo.

Fiscal Impact/Funding Source:

Community Recycling Fund 2790.777500 \$6,266.00

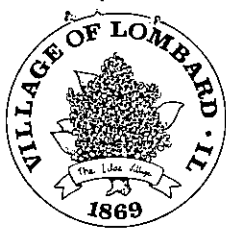
Review (as necessary):

Village Attorney X _____ Date _____

Finance Director X _____ Date _____

Village Manager X W.T. Lichter Date 4/27/05

NOTE: All materials must be submitted to and approved by the Village Manager's Office by 12:00 noon, Wednesday, prior to the Agenda Distribution.



To: William Lichter, Village Manager
Through: Wes Anderson, Director of Public Works
From: John Burg, Assistant Director of Public Works
Date: April 27, 2005
Subject: Educational Recycling Grants

John Burg

John Burg

At the meeting on April 26, 2005 the Environmental Concerns Committee recommended approval of the following Educational Recycling Grants: \$800.00 for Chicagoland Academy, \$2,600.00 for Madison School, and \$2,866.00 for Park View School.

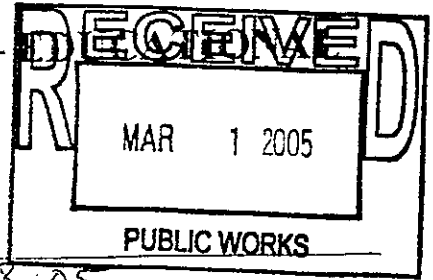
The Committee did not recommend the full amount requested by Chicagoland Academy due to the small number of students who will benefit from the grant.

I also recommend approval of these three Educational Recycling Grants. Please place this item on the May 5, 2005 agenda for consideration by the Village President and Board. Call me with questions.

SOLID WASTE RECYCLING GRANT PROGRAM-

Village of Lombard, Illinois

Application Form (Last revised 1-31-05)



Part 1 - GENERAL INFORMATION

Today's date: 2 28 05

Name Of School: Chicagoland Academy Grant Contact Phone: (day) 630-620-8950 (evening)

Address: 19W549 ROOSEVELT ROAD and 815 S FINLEY ROAD

Number of students at school 58 Estimated number of students living in corporate limits of Village of Lombard 8

Name/Title of Person Submitting Application: MARY KIATT

Part 2 - EFFECTIVENESS OF CURRENT PROGRAM (recycling, environment, conservation)

- 1. Have you earned an "Earth Flag"? Yes ___ No X If yes, list years ___
2. Do you have an environmental club? Yes ___ No X If yes, how many are in the club and how long has the club been in existence? ___
3. How many students participate in recycling/environmental/conservation efforts? 58
4. How many students are being taught about recycling/environment/conservation? 58
5. How many students will the grant funds help to educate? 58
6. How is the recycling/environmental/conservation program emphasized in your classes throughout the school?
7. In your typed report, explain your current recycling/environmental/conservation program and past accomplishments. How long have you had a recycling/environmental/conservation program? What does the school do for the environment besides recycling? How has the school program helped people in the Village of Lombard?

Attach typed explanation.

Part 3 - FINANCIAL COMMITMENT AND PROJECT DESCRIPTION

- 1. Has the school received grant money from the Village of Lombard? Yes X No ___
2. Amount of grant request? 1354.45
3. Provide detailed description in report of items requested and costs. If the grant involves commodity purchases, provide three quotes including companies and prices. If recycled products are being purchased, list what percentage of products is made from recycled products.

Attach typed explanation.



19W549 Roosevelt Road • Lombard, IL 60148 • 630/620-8950

February 28, 2005

Re: Solid Waste Recycling Grant Educational Program

Part 2f:

All classrooms at Chicagoland Academy recycle paper. The staff also re-uses the backs of paper as scrap paper. We use SCARE for several items. Parents continue to donate old computers from their workplace. The teachers also use plastic containers such as milk jugs, for art projects.

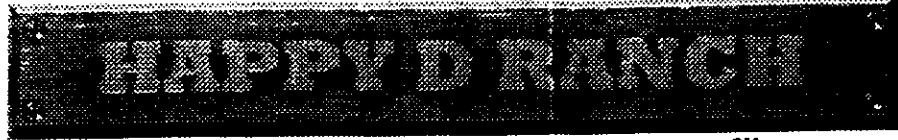
Part 2g:

Our recycling/environment accomplishments last year included office equipment donated from one of the parent's work place, some teachers taught a recycling lesson for Earth Day, our older students participated in a clean up day where they removed debris from a local park and the younger students planted flowers in front of the school.

We are in the process of purchasing recycled rubber mulch for the front of the school which will enhance the Village of Lombard by improving the look of the school.

Part 3c:

Chicagoland Academy would like to purchase more educational materials to enhance our science curriculum in regards to recycling and protecting the environment. We've selected several hands-on type materials that the children will use from year to year. Attached are the materials we would like to purchase.



Welcome to Happy D Ranch

Phone Orders: (888) 989-1558

Down to Earth Ideas for a Better Environment SM

Items in Cart: 0
Total: \$0.00

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REDUCED PRICES ON ALL WORM BINS
.. Take Advantage of our Can-O-Worms SPECIAL!

NEW! See our Commercial Worm Farm info Kit!!

Worms shipped year round.

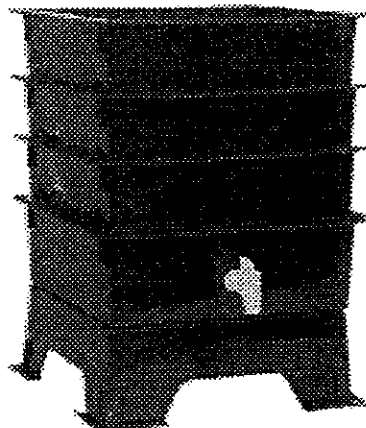
GUARANTEED LIVE DELIVERY!

Worm Factory 3 Tray Value Pack \$107 + \$24 S/H

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- » [Printable Order Form](#)

A comprehensive starter package for smaller households, classrooms, or businesses with less waste and/or space limitations at an unbeatable price.

This kit helps to make a great Science Fair Project; use it long after your children have won 1st Prize & the Science Fair is over! (When purchasing for a Science Project, let us know under "Special Instructions" so we can include a list of ideas for projects.) Teach your children that we all should RECYCLE!



Exploring Profits in Worm Farming

By Glenn Denabroff

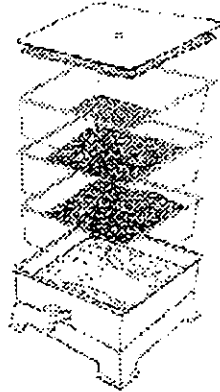
2 lbs hungry redworms



Bumper Sticker

stored inside or outside.

The 16 inch square trays are small enough to be placed in an under the sink cabinet. If used indoors we recommend a regular routine of beneficial nematodes for fruit fly control.



Worm Factory Diagram

WormFactory 3 Tray Value Pack \$107+\$24 sh

\$107.00

Quantity Desired:

ADD TO CART

WISH LIST

COMPARE

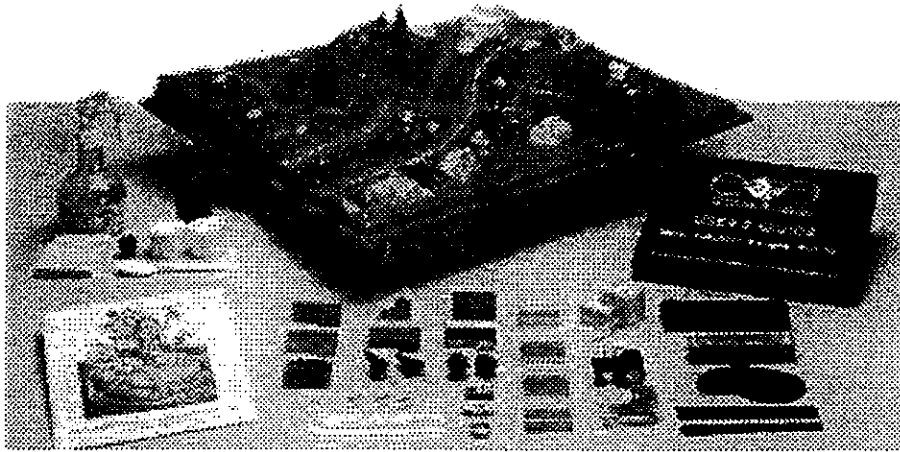
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Last modified on December 2, 2004.

EnviroScape® — Nonpoint Source Model



EnviroScape Nonpoint Source * Patent Number 5,427,530 * JT&A, inc. © 1990-2004
approximate size: 30" x 25" x 6"

[Explore Landscape](#)

Please be patient, this page contains a 40 kb image, but the tour is worth the brief wait!

[Another view of WATERSHED/NPS landscape](#)

Watershed/Nonpoint Source is the first in the EnviroScape series — also known as EnviroScape I and EnviroScape II. Water pollution comes from many sources. Nonpoint sources contribute a great deal to the pollution in our water bodies. The combined affect of pollution from many small sources can have a real impact on the quality of our shared water resources.

EnviroScape Watershed/Nonpoint Source tracks pollution from nonpoint sources, including

- residential areas,
- forestry areas,
- transportation,
- recreation,
- agriculture and construction,
- as well as from industry as a point source.

Pollution and runoff are visually apparent when rain falling over the landscape top carries soil (cocoa), chemicals (colored drink mixes) and oil (cocoa and water mixture) through a watershed to a body of water. Stormwater runoff and storm drain function are also addressed.

Best management practices include felt buffer strips as vegetation, clay to create berms and other methods to show conservation and water

is 33.5" x 28" x 10", made from strong black polyester, with adjustable handles and inside pockets.

ITEM#	EnviroScape Product	Price + shipping
71005C	Nonpoint Source Unit	\$679 + \$29
71005CAS	Carrying Case	\$199
71005BAG	Shoulder/Tote Bag	\$86.95



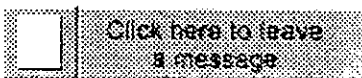
Patent Number 5,427,530 * JT&A, inc. © 1990-2004
 EnviroScape® is a registered trademark of JT&A, inc. Should you reference the product name in any publicity of your programs, websites or publications, etc., we request you add the registered trademark to its name (EnviroScape®). Thank you.

Coastal	Groundwater Kit	Hazardous Materials
Landfill	Watershed / NPS	Riparian Kit
Wetlands	Tools for Schools	Funding Sources
Supplemental Curriculum		Additional Resources

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EnviroScape
 c/o JT&A, inc.
 14524-F Lee Road
 Chantilly, VA 20151

Voice: +1 703-631-8810
Fax: +1 703-631-6558
E-mail: info@enviroscapecom.com



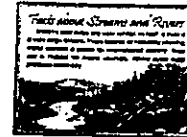
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Classroom Resources • Life Science

GRADES

K-6

ECOLOGY AND ENVIRONMENT



B
GRADES 3-5
BODIES OF FRESH WATER BULLETIN BOARD SET

Content Standard C, K-4; 5-8

Bring the exploration of freshwater habitats, animals, and facts into your classroom with this realistic fresh water bulletin board set of 16 pieces. Activity sheet included. 15½" x 15½"

Bodies of Fresh Water Bulletin Board Set 550-025-2496 \$8.95

NEW
GRADES 4-6
POWER OF SCIENCE® ECOLOGY

Content Standard C, K-4; 5-8
Now your students now to make earth-friendly decisions in everyday life! This kit will enforce the importance of environmental cleanup, pollution, food shortages, and the greenhouse effect. Hands-on experiments connect air, water, soil, plants and human life. Includes a Teacher Guide.

Power of Science® Ecology 550-162-4280 \$52.95

GRADES K-6
ISLAND ECOSYSTEM KIT

Content Standard C, K-4; 5-8
Create a complete terrarium/aquarium community using materials provided in this kit. Includes an island and ecosystem terrarium, water conditioner, and guide. You add your own living organisms (sold separately).

Island and Ecosystem Kit 550-090-1262 \$18.00
Shipping Material Card* 550-270-2644 \$34.50
(1 Newt, 1 Goldfish, 2 Snails, 1 Crab, 1 Jar Daphnia, 2 Sprigs Elodea, 2 oz. Duck Weed, Fish Food)

GRADES K-5
TERRARIUM EXPLORATIONS KIT

Content Standard C, K-4; 5-8
Observe the interaction and interdependence of biotic (living) and abiotic (non-living) elements in the terrarium. Includes materials, a step-by-step teacher guide with background information and ideas for further exploration.

Terrarium Explorations Kit 550-110-5125 \$19.95



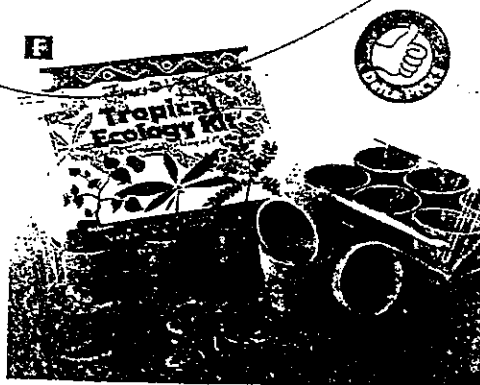
NEW
GRADES 4-6
BIOVIVA® GAME

Content Standard C, K-4; 5-8
Have fun testing your students knowledge of Planet Earth with this challenging Eco-Trivia game! Students will journey through the Earth's amazing biomes and will learn extraordinary facts about nature as they test their scientific knowledge with more than 800 questions included.

Bioviva® Game 550-077-9822 \$27.95

GRADES K-6
TROPICAL ECOLOGY KIT

Content Standard C, K-4; 5-8
Bring students to the rainforest by growing actual rainforest plants in the classroom. Includes 30 assorted tropical seeds, planting supplies, and teacher guide.



ROCKS AND MINERALS



GRADES 5-6

G GEODE STUDIES

Content Standard D, 5-8
Students will love cracking open these hollow stones formed millions of years ago. Once opened, the geodes reveal their sparkling quartz centers. This will be a fascinating fun-filled addition to your rocks and minerals curriculum.

Tub of Geodes (200, 1" diam. crack-open geodes)	550-180-8982	\$82.95
Rock Pick Hammer	550-080-1800	\$16.95
Adult Safety Goggles	55A-190-0029	\$4.95
Child Safety Goggles	55A-190-0030	\$3.95

Classroom Geode Kit includes 3 large (approx. 2" x 2" diam.) and 16 medium (approx. 1" diam.) crack-open geodes, and one large machine-cut and polished geode (approx. 2" diam.)

	550-110-4751	\$53.95
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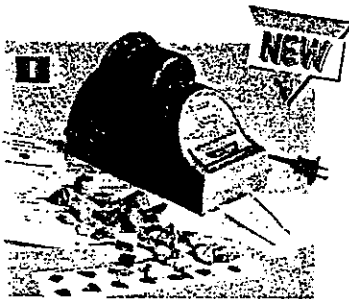
GRADES 3-5

H BOOK PLUS ROCK CYCLE MODEL

Content Standard D, K-4; 5-8
This colorful teaching model is designed specially for hands-on use. Students explore the dynamic factors involved in the rock cycle. Made of resilient, non-toxic, EVA foam. Includes a reproducible activity card. 10" x 14 1/2"



Rock Cycle Model	550-024-4685	\$21.95
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GRADES 5-

H ROCK TUMBLER

Content Standard D, 5-8
Now your students can create in a few weeks what nature does over thousands of years! This easy-to-use tumbler includes agates and abrasives to turn rough rocks into beautiful stones. Comes with comprehensive, illustrated student and teacher guides. 9"L x 5"W x 5"H

Rock Tumbler	550-201-6046	\$39.95
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GRADES 3-6

H SMITHSONIAN CRYSTAL GROWING KITS

Content Standard D, 5-8
Grow real crystals in the classroom. Just like those found in nature, these crystals can be classified by their geometric shapes. Materials and instructions included.



3-Crystal Kit Aqua/Emerald/Citrine	550-110-2738	\$13.95
3-Crystal Kit Geodes	550-110-2727	\$13.95

Exclusives

GRADES 3-6

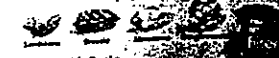
H EXPLORATIONS IN EARTH SCIENCE

Rocks and Minerals

Igneous Rocks



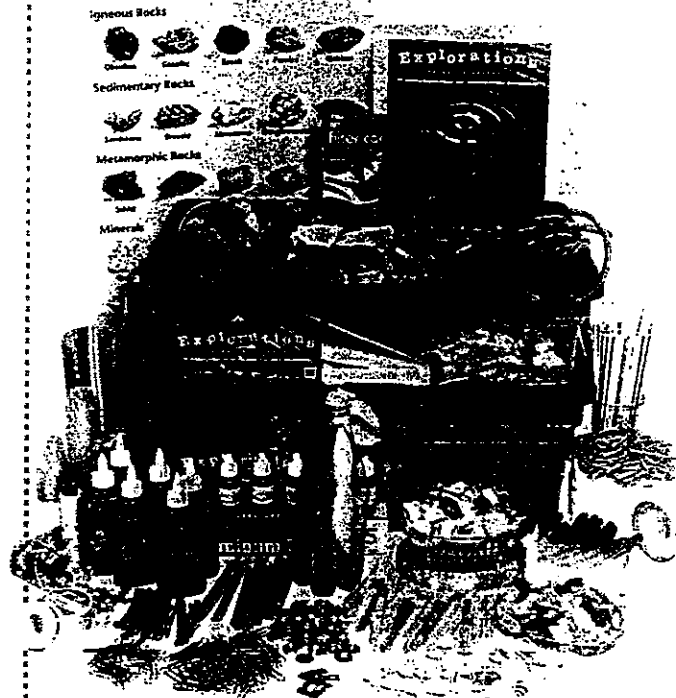
Sedimentary Rocks



Metamorphic Rocks



Minerals



Content Standard D, K-4; 5-8

A classroom essential, Explorations in Earth Science is a comprehensive kit that explores major earth science topics: rocks and minerals, erosion, soil, weathering, landforms, volcanoes, earthquakes, fossils, the atmosphere, weather, oceanography, the environment, and astronomy. Each kit includes enough hands-on materials for 30 students. The teacher guide, sold separately, includes background information, teaching suggestions, and reproducible masters.

Earth Science Classroom Kit	550-110-4025	\$269.00
Earth Science Teacher Guide	550-201-1250	\$32.98

GRADES 3-6

H HANDS-ON EXPLORATIONS: ROCKS AND MINERALS

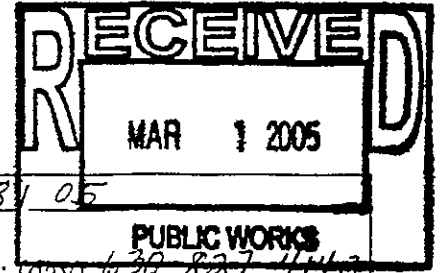
Content Standard D, K-4; 5-8
This mini kit is a wonderful introduction to geology that encourages hands-on learning. Students sort, examine, and classify specimens. Includes 160 rocks and minerals, a copy of Peterson First Guide: Rocks and Minerals, and five magnifying lenses.



Hands-on Explorations: Rocks and Minerals	550-750-5024	\$26.98
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SOLID WASTE RECYCLING GRANT PROGRAM- EDUCATIONAL
Village of Lombard, Illinois

Application Form (Last revised 1-31-05)



Part 1 - GENERAL INFORMATION

Today's date: 2/28/05

Name Of School: Madison Elementary Grant Contact Phone: (day) 630-827-1110
(evening) 630-466-9859

Address: 150 W. Madison Lombard, IL 60148

Number of students at school 590 Estimated number of students living in corporate limits of Village of Lombard 550

Name/Title of Person Submitting Application: Karen Elifson, LRC Director
Karen J. Elifson

Part 2 - EFFECTIVENESS OF CURRENT PROGRAM (recycling, environment, conservation)

- a. Have you earned an "Earth Flag"? Yes No If yes, list years _____
- b. Do you have an environmental club? Yes No If yes, how many are in the club and how long has the club been in existence? not this year, but we have had
- c. How many students participate in recycling/environmental/conservation efforts? 590
- d. How many students are being taught about recycling/environment/conservation? 590
- e. How many students will the grant funds help to educate? 590
- f. How is the recycling/environmental/conservation program emphasized in your classes throughout the school?
- g. In your typed report, explain your current recycling/environmental/conservation program and past accomplishments. How long have you had a recycling/environmental/conservation program? What does the school do for the environment besides recycling? How has the school program helped people in the Village of Lombard?

Attach typed explanation.

Part 3 - FINANCIAL COMMITMENT AND PROJECT DESCRIPTION

- a. Has the school received grant money from the Village of Lombard? Yes No
- b. Amount of grant request? 2600.00
- c. Provide detailed description in report of items requested and costs. **If the grant involves commodity purchases, provide three quotes including companies and prices.** If recycled products are being purchased, list what percentage of products is made from recycled products.

Attach typed explanation.

SOLID WASTE RECYCLING GRANT PROGRAM—EDUCATIONAL
Village of Lombard, Illinois

Application Form (Last revised 2-26-03)

February 22, 2005

Part 2—Effectiveness of Current Program

(a) Madison School earned an Earth Flag on 5-17-93. Renewed in 2001.

(b) Madison has a Garden Club (seven years old) available to students in third through fifth grade. This club is run by parents and community members on a volunteer basis. They are responsible for bird feeders, cleaning up litter, and beautifying our property through planting and landscaping. About 50 children are involved in this club. Last year we began an Aquatics Club as a means to teach children in grades 3 and 4 about ocean life, conservation of water resources, tropical fish, setting up an aquarium and caring for the fish and plants. We have about 30 children in this club with a waiting list. This has proved to be a very popular club, taught by Len Strejc, our physical education teacher. The rest of the school benefits from their work and enjoys the new additions to the aquarium as the children participate. Recently, one of the swordfish had 57 babies, a great attraction in the clear plastic “nursery” within the larger tank.

(c) Approximately 590 students are involved on a regular basis in our recycling efforts.

(d) Our entire school population of 590 students is taught about conservation and environmental issues as these topics come up in the curriculum.

(e) The grant funds, if received this year, will impact the entire student body, since all students use the library at least weekly. This is where the new materials and the plants will be located. (See Part 3 for description)

(f,g) Environmental issues are emphasized throughout the grade levels. The second graders raised bass in the classroom and released them into a stream the last two years. Children learn how these creatures help clean our streams and rivers. Our new science curriculum includes live mealworms, crayfish and chameleons which help students understand how various types of animal life play a role in our environment. The Student Council sponsors recycling with the classroom bins purchased in the past with Village Recycling Grant funds. They have conducted a lunchroom waste audit in cooperation with Kay McKeen from DuPage Recycling. This activity greatly increased student awareness of the waste generated at school and ways to reduce it. We also recycle ink cartridges and in the last year our toner cartridges from copiers and laser printers. Old computers have been given to students who do not own one to reduce this type of waste in the landfills. Last year we began an effort to reduce paper waste by posting our daily announcements for faculty and staff online instead of using paper. The district sets the building thermostats at 68 degrees in cool weather and 78 degrees in warm weather to

Secondly, we would like to order periodicals for children related to wildlife, the environment and conservation. Children are allowed to check these out during their regular library times. Magazines like *Your Big Backyard*, *Ranger Rick* and *Chicago Wilderness* teach primary children, intermediate children and adult staff about what we can do to investigate and care for our natural areas. A couple of new magazines are available this year: *Ask* and *Click*. (Descriptions are included in packet.)

Thirdly, we would like to purchase plants for our new LRC. Our school has been anticipating the renovation of a section of the school for a new LRC for several years. It is scheduled to be completed by next fall. We would like to purchase plants to enhance this new space and provide the garden club with growing things to care for. We would like real plants, but included silk for comparison purposes. Please note that different vendors for books and plants do not necessarily carry the same items, so it is difficult to get a truly accurate comparison. Thank you for your consideration of our projects. We would be happy to have you fund them all or in part. See attached lists for breakdown of expenses.

Summary of Grant Requests March 1, 2005

**Books (fiction, poetry, non-fiction and drawing)
on environmental topics: approximately \$1800.00**

**Plants for our new LRC (four to five floor plants which run \$80.00-
100.00 each and 6-7 tabletop plants for our shelves and circulation desk
at \$30.00-\$35.00 each) total of \$600.00**

**Periodicals for checkout by children and staff related to the
environment: total of \$200.00**

Grand total of \$2600.00



Aquatics club learns how to maintain the tank. Thank you to the village for making this learning experience possible.



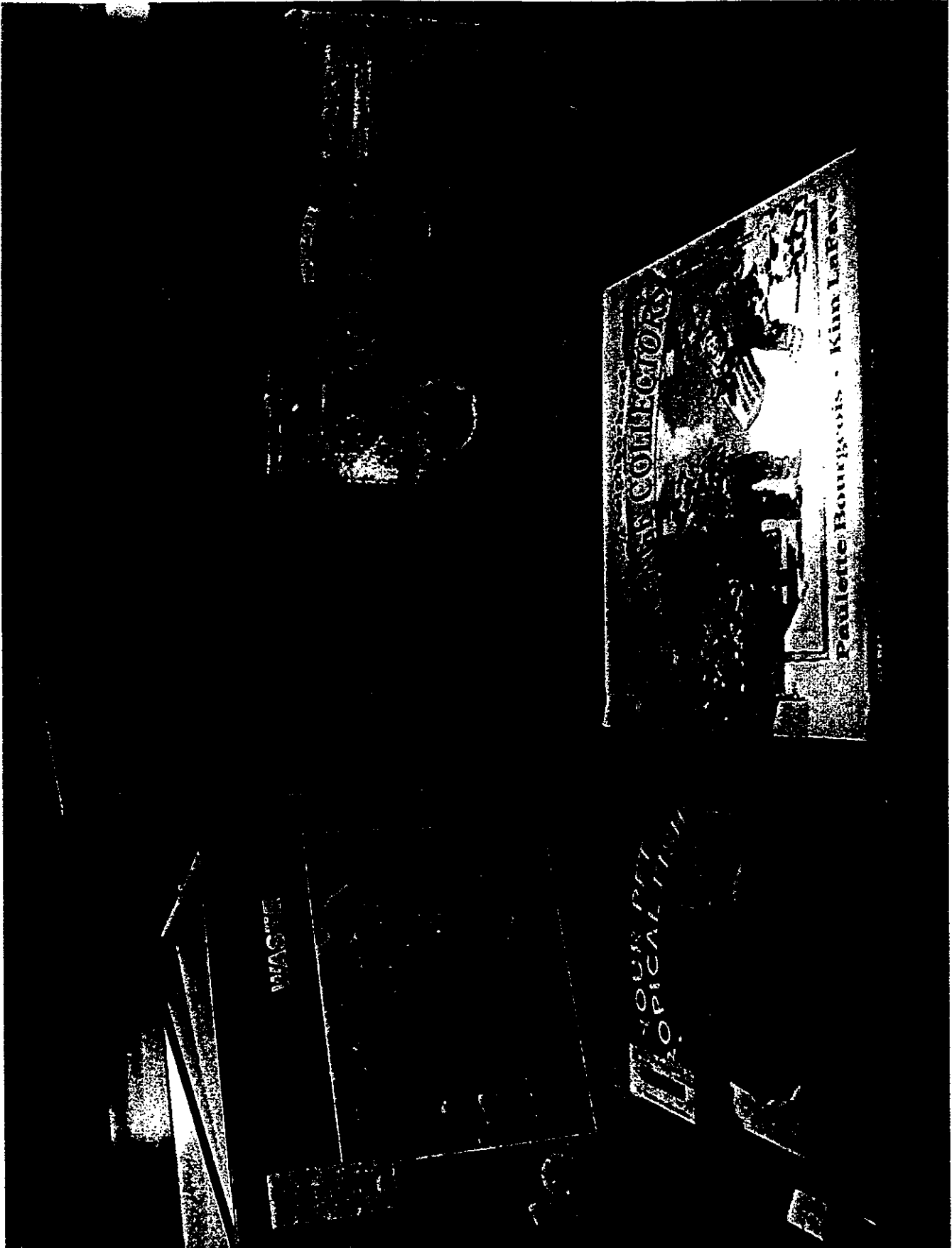




Some of our baby swordfish in their protected nursery.



Here are a few of the old books we would like to replace. Many are the old kind with no picture on the cover—not appealing at all to kids. Some have very worn spines and edges—some are obviously very dated in their content and illustrations.



These are some of the new books we
bought with great fun! Just a couple.
Quite a couple.

SOLID WASTE RECYCLING GRANT PROGRAM- EDUCATIONAL
Village of Lombard, Illinois

Application Form (Last revised 2-26-03)

Part 1 – GENERAL INFORMATION

Today's date: February 28, 2005

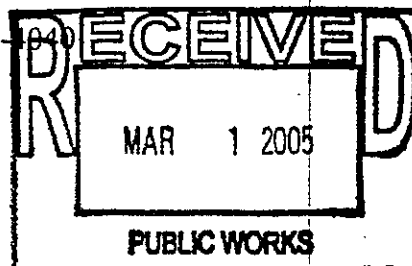
Name Of School: Park View Elementary Grant Contact Phone: (day) (630) 827-⁰⁴⁰
(evening)

Address: 321 North Elizabeth Lombard, Illinois 60148

Number of students at school: 271

Estimated number of students living in corporate limits of Village of Lombard: 271

Name/Title of Person Submitting Application: Sandra Dressler, Principal



Part 2 – EFFECTIVENESS OF CURRENT PROGRAM (recycling, environment, conservation)

- a. Have you earned an "Earth Flag"? Yes X No If yes, list years 1991
- b. Do you have an environmental club? Yes X No If yes, how many are in the club and how long has the club been in existence? 12 students in Junior Garden Club – 4 years
- c. How many students participate in recycling/environmental/conservation efforts? 271
- d. How many students are being taught about recycling/environment/conservation? 271
- e. How many students will the grant funds help to educate? 271
- f. How is the recycling/environmental/conservation program emphasized in your classes throughout the school? See attached.
- g. In your typed report, explain your current recycling/environmental/conservation program and past accomplishments. How long have you had a recycling/environmental/conservation program? What does the school do for the environment besides recycling? How has the school program helped people in the Village of Lombard? See attached.

Attach typed explanation.

Part 3 – FINANCIAL COMMITMENT AND PROJECT DESCRIPTION

- a. Has the school received grant money from the Village of Lombard? Yes x No
- b. Amount of grant request? 2,866.00
- c. Provide detailed description in report of items requested and costs. **If the grant involves commodity purchases, provide three quotes including companies and prices.** If recycled products are being purchased, list what percentage of products is made from recycled products.

Attach typed explanation.

(f.) How is the recycling/environmental/conservation program emphasized in your classes throughout the school?

Recycling and conservation practices have become part of the daily routines for Park View students. Bins for separating food waste and recyclables are available in the lunchroom and the student council sponsors paper recycling in the classroom by providing receptacles and pick up. Two benches made from recycled plastic lumber are located at the school's main entrance so part of a visitor's first impression of Park View is our awareness of and commitment to sound environmental practices.

PROJECT DESCRIPTION

Park View school is requesting \$2,866.00 for the purchase of native plants to create a vegetation buffer around the school's faculty/staff parking lot. This project will be a cooperative effort between Park View school, The Lombard Park District and the Lombard Garden Club.

BACKGROUND

(g) Environmental concerns and awareness have been a part of daily operations at Park View school since 1991. The school community has conducted several special environmental projects as well as incorporating environmental concerns into the general curriculum. Special projects include a water quality study of the Terrace View pond as part of a gifted program (1998), working with the Park District in planting prairie plants in Terrace View Park (1998, 1999), purchasing recycled benches and picnic tables and participating in a Nike sponsored shoe recycling drive (2004). As our environmental awareness has grown, we've become increasingly sensitive to the relationship between the physical school building and the park in which it sits, enabling us to identify additional areas of concern.

Park View school has a 14,150 square foot faculty/staff parking lot** positioned in such a way that storm water drainage flows directly from the parking lot, over mowed turf or through a drainage pipe, down a significant grade and into the Terrace View pond. Parking lots are recognized as a source of non-point source pollution with the potential to introduce automobile related contaminants such as oil, grease, antifreeze, brake fluid and asbestos from worn brake linings into a watershed. Mowed turf grass provides limited infiltration of storm water runoff. A vegetation buffer of native plants around the parking lot will reduce runoff and contamination through a number of mechanisms. Above ground plant parts absorb rainfall energy, reducing the impact on the soil surface. Root systems physically bind the soil together so it resists erosion. The deep roots of native vegetation provide channels into the soil which promote infiltration of rain water, slowing its progress to the pond and filtering particulate matter and contaminants.

In addition to reducing the speed of storm water runoff and filtering contaminants, a native plant buffer zone would provide additional wildlife habitat while discouraging Canada geese and contribute to the ongoing naturalization of Terrace View park.

PLANT LIST

Plant species were selected using the following criteria:

- native to DuPage County according to Plants of the Chicago Region by Floyd Swink and Gerould Whilhem 4th edition 1994
- appropriate for site conditions

Botanical/common Name	Natural Gardens*	Red Buffalo*	Taylor Creek*	Prairie Moon*
Nursery*				
Forbs				
<i>Allium cernuum</i> nodding onion	1.25	1.25	1.50	1.40
<i>Anemone cylindrica</i> thimbleweed	1.65	1.25	1.50	2.80
<i>Asclepias sullivantii</i> prairie milkweed	1.45	n/a	n/a	n/a
<i>Aster azureus</i> sky blue aster	1.25	n/a	1.50	1.80
<i>Aster laevis</i> smooth blue aster	1.25	1.25	1.50	3.00
<i>Baptisia leucantha</i> wild white indigo	2.95	1.25	2.25	3.50
<i>Carex bicknellii</i> bicknell's sedge	1.25	1.25	1.50	2.10
<i>Carex brevior</i> fescue sedge	1.25	n/a	n/a	n/a
<i>Carex gravida</i> heavy sedge	1.25	n/a	n/a	n/a
<i>Echinacea pallida</i> pale purple coneflower	1.25	n/a	1.50	1.80
<i>Eryngium yuccifolium</i> rattlesnake master	1.25	1.25	1.75	2.10
<i>Geum triflorum</i> prairie smoke	1.25	1.25	1.75	2.10
<i>Liatris pycnostachya</i> blazing star	1.45	1.25	1.75	1.50
<i>Monarda fistulosa</i> wild bergamot	1.25	1.25	1.50	n/a
<i>Petalostemum purpureum</i> purple prairie clover	1.30	n/a	2.25	1.80
<i>Pycnanthemum virginianum</i> common mountain mint	1.25	1.25	1.50	2.10
<i>Ratibida pinnata</i> yellow coneflower	1.25	1.25	1.50	2.10
<i>Schizachyrium scoparium</i> little bluestem	1.25	1.25	2.25	1.80

DESIGN/COST

The vegetation buffer will be 3,500 square feet, 500 allocated to woody species and 3,000 square feet planted in forbs and grasses. Plants will be spaced 18" on center for a total of 2000 plants. The species composition will be half grasses/sedges and half forbs. Plants will be watered as needed throughout the summer of 2005 by the Lombard Park District. Bare ground will be covered with straw mulch to reduce water loss and minimize soil erosion while the plants become established. The existing gravel drainage ditch will be modified by the replacement of the gravel with river stone and cobbles.

Total costs have been calculated based upon the least expensive price available.

Qty	Botanical/common Name	Natural Gardens	Red Buffalo	Total
Forbs				
64	<i>Allium cernuum</i> nodding onion	1.25	1.25	80.00
64	<i>Anemone cylindrica</i> thimbleweed	1.65	1.25	80.00
32	<i>Asclepias sullivantii</i> prairie milkweed	1.45	n/a	46.40
64	<i>Aster azureus</i> sky blue aster	1.25	n/a	80.00
64	<i>Aster laevis</i> smooth blue aster	1.25	1.25	80.00
16	<i>Baptisia leucantha</i> wild white indigo	2.95	1.25	20.00
64	<i>Carex bicknelli</i> bicknell's sedge	1.25	1.25	80.00
64	<i>Carex brevior</i> fescue sedge	1.25	n/a	80.00
64	<i>Carex grvida</i> heavy sedge	1.25	n/a	80.00
64	<i>Echinacea pallida</i> pale purple coneflower	1.25	n/a	80.00
16	<i>Eryngium yuccifolium</i> rattlesnake master	1.25	1.25	20.00
64	<i>Geum triflorum</i> prairie smoke	1.25	1.25	80.00
96	<i>Liatris pycnostachya</i> blazing star	1.45	1.25	120.00
64	<i>Monarda fistulosa</i> wild bergamot	1.25	1.25	80.00
64	<i>Petalostemum purpureum</i> / purple prairie clover	1.30	n/a	83.20
16	<i>Pycnanthemum virginianum</i> / common mountain mint	1.25	1.25	20.00
32	<i>Ratibida pinnata</i> yellow coneflower	1.25	1.25	40.00
448	<i>Schizachyrium scoparium</i> little bluestem	1.25	1.25	560.00
16	<i>Silphium laciniatum</i> compass plant	1.25	1.25	20.00
16	<i>Silphium terebinthinaceum</i> prairie dock	1.25	1.25	20.00
64	<i>Solidago rigida</i> stiff goldenrod	1.25	1.25	80.00
32	<i>Solidago speciosa</i> showy goldenrod	1.45	1.25	40.00
448	<i>Sporobolus heterolepis</i> prairie dropseed	1.25	n/a	560.00
32	<i>Tradescantia ohiensis</i> spiderwort	1.45	n/a	46.40
32	<i>Zizia aurea</i> golden alexanders	1.25	n/a	40.00

Appendix A

Natural Gardens
38W443 Highway 64
St. Charles, Illinois 60175
(630) 584-0150

Red Buffalo
10502 Seaman Road
Hebron, Illinois 60034
(815) 648-2059

Taylor Creek Nursery
Applied Ecological Services, Inc.
17921 Smith Road
P.O.Box 256
Brodhead, WI 53520
Phone: (608) 897-8641

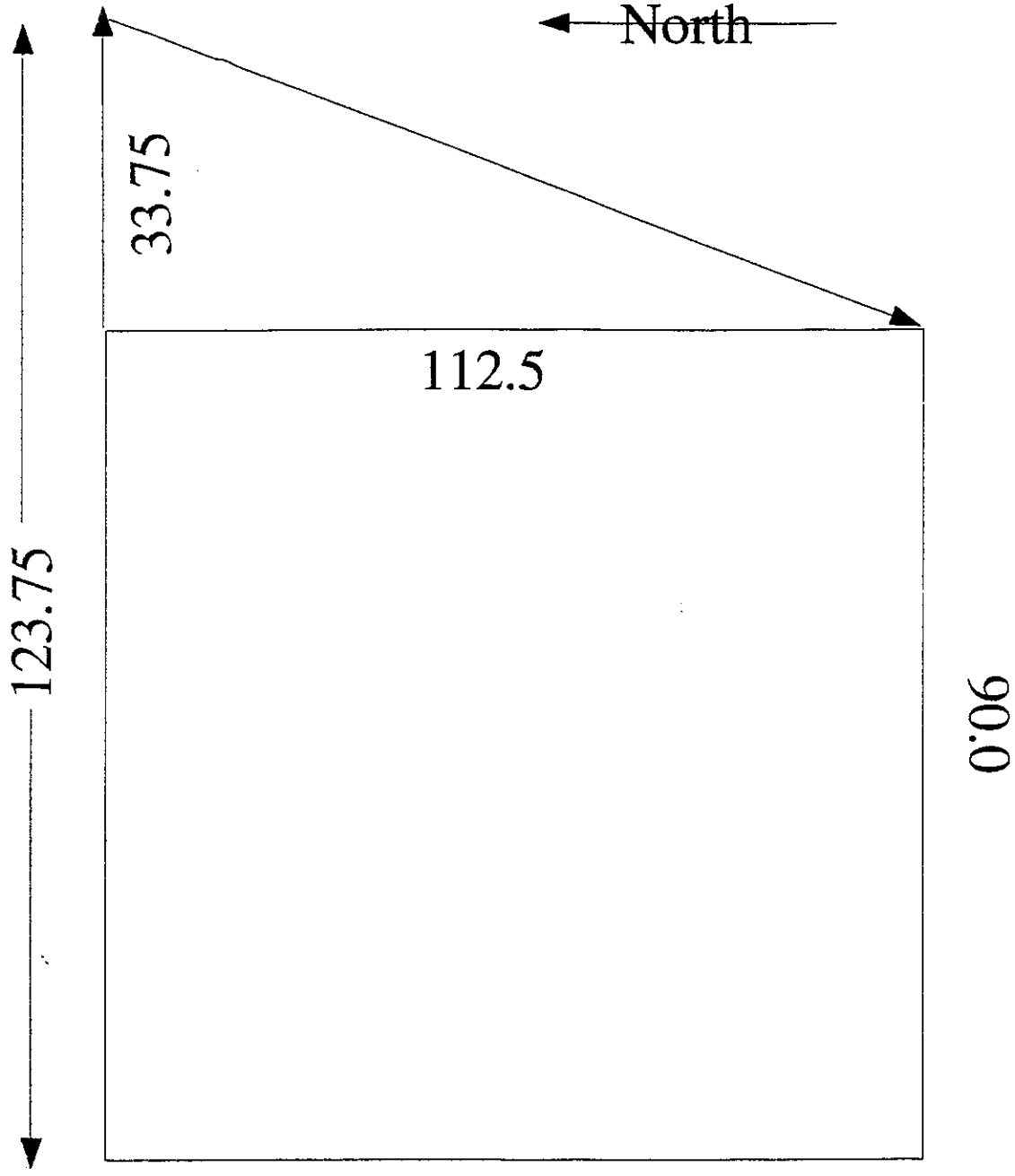
Prairie Moon Nursery
31837 Bur Oak Lane
Winona, MN 55987-9515
(507) 452-1362

Kane/DuPage Soil and Water Conservation District
2315 Dean Street, Suite 100,
St. Charles, IL 60175

Possibility Place Nursery
7548 W. Monee-Manhattan Road
Monee, Illinois 60449
(708) 534-3988

Spring Bluff Nursery
41W130 Norris Road
Sugar Grove, IL 60554
(630) 466-4278

Appendix B



$$\begin{aligned} \text{q Ft} &= 90 \times 112.5 \\ &+ .5 \times 112.5 \times 33.75 \\ &+ 31.5 \times 67.5 \\ &= 14,150 \text{ sq. ft} \end{aligned}$$