SECTION 404 PERMIT APPLICATION for EAGLE RIDGE DEVELOPMENT 179th STREET & WOLF ROAD ORLAND PARK, ILLINOIS

*

Prepared For:

Clearview Construction 179th @ 108th Street Orland Park, Illinois

Prepared By:

Wehler Peterson & Associates, Ltd. 226A West State Street St. Charles, Illinois

May 24, 1993

TABLE OF CONTENTS

404 Permit Application
Agency Submissions Illinois EPA IDOT - Division of Water Resources
Project Location Map
Delineation Plan
Mitigation Plan
Wetland Specifications
Five Year Monitoring Plan
Long Term Maintenance Program

Wetland Report

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AGENCY SUBMISSIONS

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310 So. Michigan Ave. Room 1606	ATTENTION:
Chicago, IL 60604-4205	RE:
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SIGNED: _____Larry Peterman

If enclosures are not as noted, kindly notify us at once.

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Project:Eagle Ridge - Orland Park, ILDate:May 20, 1993Scale:N.T.S.Location:T36N, R12E, Section 32



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DELINEATION PLAN

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MITIGATION PLAN

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	PLANT LIST
+6"-0"	Shore Edge* 200 Acorus calamus/Sweet Flag 200 Iris virginica/Blue Iris
0"-3"	Shoreline (1.3 ac)* 500 Ascelpias incarnata/Swamp Milkweed 500 Leersia oryzoides/Rice Cut Grass 300 Pontederia cordata/Pickerel 500 Sagattaria latifolia/Arrowhead 500 Scirpus acutus/Hardstem Bulrush 300 Sparganium eurycarpum/Burreed
3"-21	Erect Emergents (5.96 ac)* 4000 Alismaplantago-aquatica/Water Plantain 4000 Equisetum fluviatilis/Watern Horsetail 1500 Numphaea odorata/White Waterlily 1500 Sagittaria rigida/Stiff Arrowhead 4000 Scirpus fluviatilis/River Bulrush
*Plant in Mesh.	scattered pods of 20-30 tubers and protect pods with Geojute
0"-Top of 224	Bank (3.88 ac.) 57.64 lbs/ac. ++ .00 lbs. Provide LaFayette Home Nursery Seed Mix #3B Wet to Mesic Prairie with Forbs, Annuals & Short-lived Perennials, or equalivalent Add
+ 2 + 1 + 4	.00 lbs. Bouteloua curtipendula/Sideoats Grama .00 lbs. Bouteloua gracilis/Blue Grama .00 lbs. Buchloe dactyloides/Buffalograss
+These gr	asses to be seeded separately into the top 1/3 of the slope.
Top of Ba: 86.	nk to Toe of Slope (1.26 ac) ++ 00 lbs. Provide LaFayette Home Nursery Seed Mix #18 Broad Spectrum Slope Seed at 68.25 lbs/ac Add
4.0	00 lbs. Seed Mix #10A Annuals & Short-lived Perennials at 3.00 lbs/ac
5.0	Add 00 lbs. Mesic to Dry Prairie Forbs Mix @ 3.55 lbs/ac
++ Cover a	all slope areas with Anti-Wash/GeoJute supplied by: Belton Industries, Inc. 8613 Roswell Road
	Altanta, GA 30350 1-800-225-4099

Wetland Mitigation PLANT LIST



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WETLAND SPECIFICATIONS

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WETLANDS PLANTING

SCOPE OF WORK

- 1.01 This work shall consist of furnishing, transporting, and installing all seeds, plants, or other materials required for (1) the establishment of the planted areas, (2) postplanting management, and (3) any remedial operations in conformance with the Plans as specified in these Special Provisions or as directed by the Landscape Architect.
- Rough grading will be done by the Earthwork Contractor under 1.02 his contract. After planting is completed, the Owner shall be responsible for removing the causeway and leaving the pond areas graded to plan. All marsh areas to be planted shall be brought to final grade according to the drawings and specifications by the Contractor. The Landscape Architect will stake the limits of the normal water contour and 1' above the normal water and high water contour. The pond water shall be drawn down and held down by the Contractor, either all at once or one pond at a time. Planting shall begin in the highest zone and proceed down to the under water zones.

BED PREPARATION

- 2.01 Final grade of planting beds is critical to the survival of the species planted. Species are grouped into zones that are directly related to their grade and the elevation of pond water. Final grade shall be the Contractor's responsibility because much of the survival of plants depends on proper water depth.
- 2.02 Areas with existing vegetational cover shall be disked prior to seeding.
- 2.03 All areas must have a minimum of 6 inches of topsoil. Topsoil will be spread by Contractor. Pulverization is not necessary. A smooth product is not required.

SEED CERTIFICATION

- 3.01 All seed shall be guaranteed by the vendor to be true to name origin, purity, germination and percent pure live seed per pound.
- 3.02 Where state certification laws are in force, all seed shall bear certification of tests acceptable to that state's control agency and shall be free of all noxious weeds. The amount of all other weed seeds shall not exceed one percent.

- 3.03 Seed inoculation is not required.
- 3.04 Seeding methods shall be done in a manner to ensure complete coverage of the area to be seeded at the specified seeding rate and so that seed is raked well into the topsoil. Seed shall be sown to an average depth of 1/4 inch. These beds will be underwater periodically and seed is in danger of washing away.

Within twelve hours after seeding, the seeded areas shall be rolled to compact the seed bed and ensure contact of seed with the soil. Slopes shall be rolled at right angles to water run off. In under water zones rolling shall precede planting of root stock.

3.05 Period of seeding shall be between completion of pond grading and no later than September 15.

If the Owner agrees in writing to extend the planting to the next season, the period of planting shall be from April 15 to June 30. If spring planting is decided upon, top dressing of the topsoil shall be done by the Contractor to bring it to a 6" depth.

- 3.06 No seeds shall be sown during high winds or when the seed bed is not in a proper condition for seeding.
- 3.07 Within 24 hours after seeding all zones above water beds shall be given one of the following coverings of mulch:
 - A. Straw mulch shall be applied uniformly at a rate of approximately 2 tons per acre on all planting beds. The mulch shall be loose enough to permit air to circulate but compact enough to reduce erosion. Mulch material shall contain no noxious weeds.
 - B. Excelsior mulch shall be made of wood fibers approximately 4 to 6 inches long cut from sound green timber. Cutting shall be made at a slight angle to the wood grain to provide maximum fiber strength but causing splintering of the fiber after weathering. Excelsior mulch shall be spread at a uniform rate of 71 bales per acre.
- 3.08 No maintenance of seeded areas will be required after germination has been established to the approval of the Landscape Architect. Any gaps between areas of growth greater than 8 square feet shall be resown and/or replanted.

WETLANDS PLANTING -2-

TREE PLANTING

- 4.01 This work shall consist of furnishing and planting trees of the species indicated on the drawings. All trees shall conform to the specifications for the American Standard for Nursery Stock as approved by the American National Standards Institute No. ANSI Z60.1-1973. Trees shall be balled and burlapped and grown by a northern, state-inspected nursery. Trees shall be reasonably straight, branched and free of insect and disease problems. The Landscape Architect reserves the right to tag trees at the nursery. Trees shall be planted at locations shown on the drawings, spaced randomly.
- 4.02 All broken or damaged branches shall be pruned at the time of planting in a manner that will preserve the natural growth habit of each tree in accordance with the best horticultural practices. Pruning shall be done at the time of planting for purposes of thinning and the terminal leader shall not be removed.
- 4.03 <u>Guarantee</u>: All original and replacement trees shall be guaranteed to remain in good live condition throughout the calendar year following the year of planting. The Contractor shall replace any dead or diseased plants, in accordance with these specifications, during the present or next planting season following receipt of a written statement from the Landscape Architect that replacement for a specific plant is required.
- 4.04 <u>Watering</u>: All trees shall be thoroughly watered at the time of planting.
- 4.05 All of the trees shall be mulch to a depth of 4" and placed for a diameter of matching plant ball. The type of mulch shall be one of the types specified in the SEEDING Section 3.07.

SHRUB PLANTING

- 5.01 This work consists of furnishing and planting shrubs of the species indicated on the drawings. All shrubs shall conform to the specification for the American Standard for Nursery Stock as approved by the American National Standards Institute No. ANSI Z60.1-1973. The Elderberry may have to be collected and installed bare root.
- 5.02 Shrubs shall be balled and burlapped and grown by a northern, state-inspected nursery. Shrubs shall be reasonably symmetric, branched and free of insects and disease problems. Shrubs shall be planted at locations shown on the drawings.

WETLANDS PLANTING

- 5.03 All broken or damaged branches shall be pruned at the time of planting in a manner that will preserve the natural growth habit of each shrub in accordance with the best horticultural practices. Pruning shall be done at the time of planting for purposes of thinning and the natural habit shall not be destroyed.
- 5.04 <u>Guarantee</u> All original and replacement shrubs shall be guaranteed to remain in good live condition throughout the calendar year following the year of planting. The Contractor shall replace any dead or diseased plants, in accordance with these specifications, during the present or next planting season following receipt of a written statement from the Landscape Architect that replacement for a specific plant is required.
- 5.05 <u>Watering</u> All shrubs shall be thoroughly watered at the time of planting.
- 5.06 All shrubs shall be mulched. The type and depth of mulch shall be as specified in the TREE PLANTING Section 4.05.

ROOT STOCK PLANTING

- 6.01 This work shall consist of furnishing and hand planting root stock or tubers of the species specified on the drawings. All materials shall be free of insect and disease problems. Each species shall be handled and packed in the manner approved for that plant, having regard for the soil and climatic conditions at the time and place of digging and of delivery, and to the time that will be consumed while in transit or delivery. All precautions that are customary in good trade practice shall be taken to insure the arrival of the plants in good condition. Root stock shall be one year old transplants planted at the locations shown on the drawings. Note on plans that depth of planting and spacing varies from species to species.
- 6.02 Rows and the stock in the rows shall be spaced as designated. Alternate rows shall be staggered. Holes for the root stock shall be made large enough to accommodate the entire root system and the soil shall be worked in carefully among the roots. The crown shall be set as specified for each species.
- 6.03 Replacement plantings will be required if material is not of the species specified or not planted correctly.
- 6.04 All root stock shall be watered thoroughly at the time of planting.

WETLANDS PLANTING -46.05 Depending on water levels, the Contractor may use seeds to supplement the root stock planting. If this method is used, written approval from the Landscape Architect is required prior to use.

MESH COVERING

- 7.01 Root stock shall be covered with the mesh from Belton "Anti-Wash/Geojute", (Belton Industries, Inc., 8613 Roswell Road, Suite 200, Atlanta, GA 30338, 1-800-225-4099 or Telex: 494-2174) or approved equal, and weighted so it will hold the mesh to the soil surface at and below the water surface. Chicken wire or other metal products shall not be used. Injuring an adventuresome child is not worth any advantage that chicken wire has over other products.
- 7.02 The Landscape Architect will inspect for the installation of the mesh and will approve or disapprove of its installation. The Contractor shall make whatever remedial steps are requested by the Landscape Architect. If wire products are found to have been used, the Contractor shall remove them at his/her own expense and if plant material is damaged in the process then the Contractor shall supply materials and labor to replant those areas at his/her own expense.

INSPECTION AND ACCEPTANCE

- 8.01 Upon the written request of the Contractor, the Landscape Architect shall inspect all work for completion. The request shall be received at least 10 calendar days before the anticipated date of inspection, but not more than 35 days after the last seeding. Root stock and mesh cover inspection shall be from time to time as it is being installed and before the area to be inspected is flooded.
- 8.02 The Contractor shall be responsible for the satisfactory growth of grass, trees, shrubs, and vascular plant species on all areas seeded and/or planted under the Contract until final acceptance of the work. A search shall be conducted at the end of the first and second growing seasons after seeding and/or planting (fall of each season). The search will randomly sample the area for each class that was seeded and/or planted. If 75% of the species seeded and/or planted are alive and apparent and the same seeded area has 90% ground cover of acceptable species, 90% of vascular species, and 100% of tree and shrub species, the work will be accepted.

8.03 Upon satisfactory completion and reinspection of all repairs or renewals necessary, the Landscape Architect shall certify in writing as to the completion of the work. The reseeding shall have come along far enough to judge its success before the seeding shall be considered acceptable.

CLEAN UP

9.01 Upon completion of planting, seeding, mulching operations the Contractor shall remove from the area all equipment, debris and excess material. The premises shall be left in a neat and orderly condition.

POST PLANTING MANAGEMENT

- 10.01 In the spring of the year after planting, the Contractor shall monitor growth at the site and schedule a time to eliminate emerging cattails when they are 3 to 4 feet in height. The Contractor shall use a wick applicator or similar device to apply "Rodeo" to the cattails at their apex as the manufacturer recommends. Cattails shall be "wicked" wherever they appear in the marsh areas at the site.
- 10.02 The Landscape Architect will inspect the site at an appropriate length of time after this treatment to inspect the results and approve or disapprove the work.

FIVE YEAR MONITORING

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FIVE YEAR

WETLANDS MONITORING

This program is being established for the purpose of the following:

- The development of the newly established wetlands habitats.
- The purpose is to determine the success of the plantings that have been installed and to insure that quality habitats form while denying a major foothold to invasive wetland plants.

First and Second Years

In concert with the contractor, an inspection of the site will take place at the end of the growing season (Fall). The search will randomly sample the area for each class that was seeded and/or planted. If 75% of the species seeded and/or planted are alive and apparent and the sample seeded area has 90% groundcover of acceptable species, 90% of vascular species, and 100% of tree and shrub species the work will be accepted. Following the inspection a report will be prepared and forwarded to the Army Corps for their use.

Third through Fifth Year

In the succeeding years of the program a random search will be conducted at the beginning of the growing season.

A report will be prepared following each search that will relate to the original mitigation plan. The report will include:

- 1. Thriving plant types
- 2. Plant types that have not survived
- 3. The general condition of the wetland areas
- 4. To the extent possible, the level and type of wildlife inhabiting the wetland

Burning

Where the wetlands restoration contains 30% or greater percentage of Wet/Mesic/Dry Prairie grasses and sedges at least once during the monitoring period the wetlands shall be burned.

Burning shall occur during the fall following the third growing season. Burning may, however, be necessary following the second growing season if 30% of the site is being invaded by such invasive plants as cattails, loosestrife, etc. Successive burnings shall occur as the build-up of fuel matrix dictates.

Five Year Wetlands Monitoring Page 2

Burning shall be undertaken with appropriate equipment and the supervision of a qualified consultant and with the cooperation of the local fire department.

At such time during the course of this program, the level of invasive plants (cattails, loosestrife, etc.) begin to take over more than 30% of the site the Army Corps or other appropriate agency shall be consulted so the remedial action can be taken.

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LONG TERM MAINTENANCE PROGRAM

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LONG TERM MAINTENANCE PROGRAM

This program is being established for the purpose of perpetuating the success of the plantings that have been installed and to insure that quality habitats form while denying a major foothold to invasive wetland plants.

In concert with a qualified consultant, an inspection of the site will take place at the middle of the growing season. The search will randomly sample the area for each class that was seeded and/or planted. If 75% of the species seeded and/or planted are alive and apparent and the sample seeded area has 90% groundcover of acceptable species, 90% of vascular species, and 100% of tree and shrub species the work will be accepted.

In the succeeding years of the program a random search will be conducted at the beginning of the growing season.

A report will be prepared following each search that will relate to the original mitigation plan. The report will include:

- 1. Thriving plant types
- 2. Plant types that have not survived
- 3. The general condition of the wetland areas
- To the extent possible, the level and type of wildlife inhabiting the wetland

BURNING

Where the wetlands restoration contains 30% or greater percentage of Wet/Mesic/Dry Prairie grasses and sedges the wetlands shall be burned during October or November at least once every two years.

Burning shall be undertaken with appropriate equipment, permits, and the supervision of a qualified consultant and with the cooperation of the local fire department.

At such time during the course of this program, if the level of invasive plants (cattails, loosestrife, etc.) begins to take over more than 30% of the site the Association will undertake remedial action to remove the invasive species and replant the disturbed areas with the originally recommended species.

WETLAND REPORT

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EAGLE RIDGE WETLAND REPORT

179th & WOLF ROAD COOK COUNTY, ILLINOIS

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Prepared for:

Clearview Construction 179th and 108th Avenue Orland Park, Illinois 60462

Prepared by:

Wehler Peterson & Associates, Ltd. 226A West State Street St. Charles, Illinois 60174

May 24, 1993

TABLE OF CONTENTS

TEXT

1.0 EXISTING CONDITIONS

- 1.1 Site Description
- 1.2 Wetland Description
- 1.3 Wetland Summary

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EXHIBITS

- A. 1" = 400' Wetland Delineation Aerial Photo
- B. 1" = 1320' Soil Conservation Service Soil Survey Map
- C. 1" = 2000' National Wetland Inventory Map
- D-F. U.S. ACOE Field Data Forms

WETLAND REPORT 179TH & Wolf Road

1.0 EXISTING CONDITIONS

1.1 <u>Site Description</u>

The subject site consists of 160 acres in Section 32, of Township 36 North, Range 12 East in Cook County, and is tributary to Marley Creek. An unnamed tributary to Marley Creek flows through the site. The site is gently sloping with higher elevations at the south and lower elevations at the north. Wetland soils dominate the northern and northwestern portions of the property. Ashkum soils associated with the tributary are prevalent in these areas. The entire area has been under cultivation in the past.

There are two separate drainageways through the site. The tributary to Marley Creek is in the north. This open ditch has been improved and drains approximately 1/3 of the property. Most of the flow through this ditch originates upstream from the subject site. This ditch flows under Wolf Road into Marley Creek at the northwest corner of the site. A drainage tile through the center of the site constitutes the second drainageway. The tile is in a natural drainageway, and connects with tile systems to the east. Flows from this tile system cross Wolf Road approximately 700' south of where the tributary crosses and enters a wetland fringe area associated with Marley Creek.

Vegetation on the site is lacking over most of the parcel due to agriculture. The tributary is tree-lined and contains emergent growth in the channel. An area at the northwest corner contains early successional wetland species in areas of disturbance and sparse sedges at the extreme corner. This corner is the lowest point on the site. A grass strip is maintained in the second drainage swale.

1.2 Wetland Description

Wetland A

Wetland A is a 3.779 acre wetland located in the northwest corner of the property. It is located north of and adjacent to the tributary. This area is at the lowest elevations found on site. The soils are Ashkum in the east and Milford in the west. Both soils are hydric with seasonally high water tables of 0-2 feet. Wetland Report 179th & Wolf Road

> High water creating wetland conditions is a result of overflows from the tributary. Water is ponded in the extreme northwest corner due to high water in Marley Creek. This area is at the confluence of the Marley Creek and its tributary. Drainage from this area flows into the tributary channel at the west end near the culvert under Wolf Road. It also drains directly into Marley Creek through a 10" culvert under an adjacent drive at the northwest corner. This area provides flood storage during times of high water. When high water recedes in the dry season, drainage to Marley Creek and the tributary continues.

> Vegetation is disturbed over the entire wetland. Sedges can be found at the culvert to Marley Creek only. The remainder of the area is farmed and dominated by smartweed and other pioneer species. The tributary is vegetated with willow trees and box elder along the banks and river bulrush in the channel.

> The quality of the water in the wetland and channel is poor due to heavy silt loads. Silt deposits have filled the bottom of the channel.

Wetlands B & C

Wetlands B and C are 0.845 and 0.426 acres respectively. Both wetlands are fringe areas associated with the south side of the tributary. Wetland B is mapped as Milford soils and Wetland C is mapped as Ashkum soils.

Both wetlands pond in early spring. Drainage into the improved tributary to Marley Creek is blocked by artificial levees running parallel to the channel. These levees most likely are made up the dredged materials deposited at the time of channelization. There are openings in the levees allowing seasonal ponding as the tributary overflow.

1.3 <u>Wetland</u> Summary

#	Size	Hydology	Soil	Vegetation
A	3.779	Seasonally flooded	Milford	Pioneer species
В	0.845	Seasonally flooded	Milford	Farmed
С	0.426	Seasonally flooded	Ashkum	Farmed
Total	: 5.05 a	acres		

Page 2





Scale: 1" = 1320' Location: T36N, R12E, Section 32

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Exhibit C National Wetlands Inventory



DATA FORM ROUTINE ONSITE DETERMINATION METHOD

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the court

Field Investigator(s): Wehler Peterson & Associates, Ltd. Date: 10-15-9 Project/Site: 179th & Wolf Road State: IL County: Co Applicant/Owner: Clearview Construction Plant Community#/Name: NOTE: If a more detailed site description is necessary, use back of a form or a field notebook.	2 ook A data
Do normal environmental conditions exist at the plant community? Yes <u>x</u> No (If no, explain on back) Has the vegetation, soils, and/or hydrology been significantly distury Yes <u>x</u> No (If yes, explain on back)	rbed?
Dominant Plant SpeciesStatusDominant Plant Species1. Carex sp.OBL8. Salix fragilis2. Ambrosia trifidaFACW+9. Scirpus fluviatilis3. Setaria faberiiUPL10. Acer negundo4. Polygonum pensylvanicumFACW+DRA11. Helianthus grosseserratus5. Aster sp.OBL DRA7. Phalaris arundinaceaFACW+	<u>Status</u> FAC+ OBL FACW+ FACW-
Percent of dominant species that are OBL, FACW, and/or FAC: 90+% Is the hydrophytic vegetation criterion met: Yes <u>x</u> No RATIONALE: > 50%	
SCS Mappng Unit: 232 Ashkum Subgroup: Is the soil on the hydric soils list: Yes x No Undetermined	
Is the soll a Histosol: Yes <u>No</u> Histic epipedon present Yes <u>No</u> Is the soil: Mottled: Yes <u>No</u> Gleyed: Yes <u>No</u> <u>No</u> Matrix color: <u>10 YR 2/0 (wet)</u> Mottle colors: <u>Is SCS mapping unit confirmed in field: Yes x No</u> <u>Other hydric soil indicators:</u> Is the hydric soil criterion met? Yes <u>x</u> No <u>RATIONALE: Low chroma</u>	_No
Is the ground surface inundated: Yes No x Surface water depth: Is the soil saturated: Yes No Depth to free-standing water in pit/soil probe hole:	3"
Silt on Grass: drift lines	
Is the wetland hydrology criterion met: Yes <u>x</u> No RATIONALE: Water present	
JURISDICTIONAL DETERMINATION AND RATIONALE Is the plant community a wetland? Yes <u>x</u> No RATIONALE: <u>All indicators positive</u>	

DATA FORM ROUTINE ONSITE DETERMINATION METHOD

Field Investigator(s): Wel	ler Peterson a	& Associates, Ltd.	Date: 10-15-9	2
Project/Site: <u>179th & Wol</u>	f Road	State: _IL	County:	Cook
Applicant/Owner: <u>Clearview</u>	Construction	Plant Commu	nity#/Name: E	3-C
NOTE: If a more detailed a	site descrip	tion is necessary	, use back of	data
form or a fleid notebook.				
Do pormal environmental a		int of the local		
Veg No y (If no	ovolain en	back	community?	
Has the vegetation soils	explain on	Dack)		
Ves v No (If ve	anu/or nyu.	n back) Farmed	ricantly distu	irbed?
		DACK) Farmed	••••••••••••••••••••••••••••••••••••••	
Dominant Plant Species	Status	Dominant Plant	Species	Ctotua
1. Zea mays	IIPI.	bominane i iune	opecies	BLALUS
2. Glycine max	UPL			
3.				
4.				
5.				
б.				
7.				
Percent of dominant specie	s that are (OBL, FACW, and/or	FAC: 0%	
Is the hydrophytic vegetat	ion criterio	on met: Yes	Nox	•
RATIONALE: Farmed; has distu	urbed vegetation	n		-
	===== SO	ILS =========	nanan analis bayan kanan manyi anyan analis kanan alahiy jenga manyi kalan benya tami Manya danga tamin analis kanan anali kanan yanan yanga manyi kalan dalam sama	
SCS Mapping Unit: 232 ASNA			Subgroup:	
Is the soil a Higtogolt Ver	SOLIS LIST:	Yes x No	Undetermined _	
Is the soil: Mottlod, Vo		HISCIC epipedor	present Yes	No
Matrix color: 10 VB 2/0	(wot) NO x	Gleyed: Yes	NO X	
TS SCS mapping unit confir	med in field	MOLLIE COTOFS:		
Other hydric soil indicator	THEA TH TIET(1.1es x NO -		
Is the hydric soil criteri	on met? Vec	X No		
RATIONALE: Low chroma	011 11/00. 105	NO		
	=== HYDRO	LOGY ======		
Is the ground surface inune	dated: Yes	No x Surfac	e water donth.	211
Is the soil saturated:	Yes	\sim No	e water depth.	
Depth to free-standing wate	er in pit/so	il probe hole:		
List other field evidence of	of surface i	nundation or soil	saturation	
			Sacuration.	
Is the wetland hydrology c	riterion met	: Yes v No		
RATIONALE: Water present				
			·····	
			······································	
JURISDICT	ONAL DETERM	INATION AND RATIC	NALE	
Is the plant community a w	etland? Yes	s x No		
RATIONALE: Soil and hydrolo	gy suggest tha	t wetland plants com	ld be supported	and
would dominate if the fie	ld were not tu	rned over in the ear	ly growing seaso	1.

DATA FORM ROUTINE ONSITE DETERMINATION METHOD

1

Contraction of the local distribution of the

adate:

Project/Site: 179th & Wolf Road State: IL County: Cook Applicant/Owner: Clearview Construction Plant Community#/Name: D NOTE: If a more detailed site description is necessary, use back of data Do normal environmental conditions exist at the plant community? Yes No (If no, explain on back) Has the vegetation, soils, and/or hydrology been significantly disturbed? Yes No (If no, explain on back)	Field Investigator(s): Wehler Peters	on & Associates, I	.td. Dat	e: 10-15-92
Applicant/Winer: Clearview Construction Plant Community#/Name: NOTE: If a more detailed site description is necessary, use back of data form or a field notebook. If no, explain on back) Do normal environmental conditions exist at the plant community? Yes No (If no, explain on back)	Project/Site: <u>179th & Wolf Road</u>	State	E: IL Co	unty: Cook
NOTE: If a more detailed site description is necessary, use back of data form or a field notebook. bo normal environmental conditions exist at the plant community? Yes No x (If no, explain on back) Has the vegetation, soils, and/or hydrology been significantly disturbed? Yes x No (If yes, explain on back) Dominant Plant Species Status Dominant Plant Species Dominant Plant Species Status Dominant Plant Species Status Dominant Plant Species Status Dominant Plant Species Status Dominant Plant Species Status Dominant Plant Species Status Polygonum pensylvanicum FACW+DRA 3. Abution theophrasti UPL 4. Amaranthus sp. UPL 5. Status Solution theophrasti UPL 4. Amaranthus sp. UPL 5. Status Solution theophrasti UPL 6. 7. Solution theophrasti UPL SCS Mapping Unit: 60 Milford Subgroup: Subgroup: Is the soil on the hydric soils list: Yes No Undeternined Is the soil soil fired in field: Yes No K No Matrix color: 10 YR 5/3 Mottle colors: No No	Applicant/Owner: <u>Clearview Construct</u>	tion Plant	Community#	/Name: D
Iterat notebook. Do normal environmental conditions exist at the plant community? Yes No (If no, explain on back) The vegetation, soils, and/or hydrology been significantly disturbed? Yes No (If yes, explain on back) The vegetation, soils, and/or hydrology been significantly disturbed? Yes No (If yes, explain on back) The vegetation, soils, and/or hydrology been significantly disturbed? Yes No (If yes, explain on back) Dominant Plant Species Status Dominant Plant Species Status Source Source Polygoum pensylvanicum PACM+DRA Status Status Amaranthus sp. UPL Status Status Status Status Sc Mapping Unit: 69 Milford SUBgroup: Status No X Sc Mapping Unit: 69 Milford Subgroup: Status No Matrix color: No X Is the soil a fitstosol: Yes No Histic epipedon present Yes No X Is the soil a fitstosol: Yes No Matrix color: No X Is the soil a fitstosol: Yes	NOTE: If a more detailed site des	cription is nec	essary, use	back of data
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Do not mail environmental conditions exist at the plant community? Yes No x (If no, explain on back) Has the vegetation, soils, and/or hydrology been significantly disturbed? Yes x No (If yes, explain on back) Dominant Plant Species Status Dominant Plant Species Status 1. Setaria faberii UPL Status Dominant Plant Species Status 2. Polygonum pensylvanicum FACW+DRA Abution theophrasti UPL Status Status 3. Abution theophrasti UPL UPL Status No x 6. 7. Percent of dominant species that are OBL, FACW, and/or FAC: 25% Status Sc Mapping Unit: 69 Milford SULS No x SCS Mapping Unit: 69 Milford Subgroup: Is the soil a Histosol: Yes No Mistic epipedon present Yes No Is the soil a Histosol: Yes No Histic epipedon present Yes No No X Status SCS mapping unit confirmed in field: Yes No x No X Is the soil aurated: Yes No x No X	Do normal onwirenmental renditi			
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YesNo	Has the vegetation soils and/on	1 ON DACK)		
Dominant Plant Species Status Dominant Plant Species Status Pominant Plant Species Status Dominant Plant Species Status 1. Setaria faberii UPL Durinant Plant Species Status 2. Polygonum pensylvanicum PACW+DRA Durinant Plant Species Status 3. Abutilon theophrasti UPL Amaranthus sp. UPL 4. Amaranthus sp. UPL Status No x 6. 7. Percent of dominant species that are OBL, FACW, and/or FAC: 25% 7. Status Status No x 8. Status Solis Subgroup: Status Sc Mapping Unit: 69 Milford Subgroup: Subgroup: Is the soil on the hydric soils list: Yes No Undetermined Is the soil: Nottle: Subgroup: No Is the soil: Nottle: No X Other hydric soil criterion met? Yes No X Other hydric soil criterion met? Yes No X Is the ground surface inundated: Yes No X Is the ground surface inundated: Yes	Yes x No (If yes overla)	in on hage	significant	tly disturbed?
Dominant Plant Species Status Dominant Plant Species Status 1. Setaria faberii UPL Plant Species Status 2. Folygonum pensylvanicum FACW+DRA Status Status 3. Abutilon theophrasti UPL Status Status Status 4. Amaranthus sp. UPL Status Status Status Status 5. G. Status UPL Status Status Status 5. G. Status UPL Status Status Status Status 5. G. Status UPL Status Status Status Status Status 5. Status UPL Status Status<		EGETATION		
Dominant Plant Species Status Dominant Plant Species Status 1. Setaria faberii UPL UPL Status	·	DODIATION		
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2. Polygonum pensylvanicum FACW+DRA 3. Abutilon theophrasti UPL 4. Amaranthus sp. UPL 5. 6. 7. Percent of dominant species that are OBL, FACW, and/or FAC: <u>25%</u> Is the hydrophytic vegetation criterion met: Yes <u>No x</u> RATIONALE: <u>< 50%</u> SOILS <u></u>	1. Setaria faberii IIPL	<u>Bominane i</u>	Taur Phecie	<u>s Status</u>
3. Abutilon theophrasti UPL 4. Amaranthus sp. UPL 5. 6. 7. Percent of dominant species that are OBL, FACW, and/or FAC: <u>25%</u> Is the hydrophytic vegetation criterion met: Yes <u>No x</u> RATIONALE: <u>< 50%</u> SOILS <u></u>	2. Polygonum pensylvanicum FAC	I+DRA		
4. Amaranthus sp. UPL 5. 6. 7. Percent of dominant species that are OBL, FACW, and/or FAC:25%	3. Abutilon theophrasti UPL			
5. 6. 7. Percent of dominant species that are OBL, FACW, and/or FAC: <u>25%</u> RATIONALE: <u>50%</u> SOILS <u>No x</u> SCS Mapping Unit: <u>69 Milford</u> SUbgroup: Is the soil on the hydric soils list: Yes <u>No</u> Undetermined Is the soil a Histosol: Yes <u>No</u> <u>Histic epipedon present Yes</u> <u>No</u> Matrix color: <u>10 YR 5/3</u> Mottle colors: <u>No</u> State soil indicators: Is the hydric soil indicators: Is the hydric soil criterion met? Yes <u>No</u> <u>x</u> RATIONALE: <u>Pebbles on surface suggest excavation</u> Is the soil saturated: <u>Yes <u>No</u> <u>x</u></u> Surface water depth: <u>Sufface</u> List other field evidence of surface inundation or soil saturation. Is the wetland hydrology criterion met: Yes <u>No</u> <u>x</u> RATIONALE: <u>Wetness</u> <u>JURISDICTIONAL DETERMINATION AND RATIONALE</u> RATIONALE: <u>Route of major field tile</u>	4. Amaranthus sp. UPL		×.	
6. 7. Percent of dominant species that are OBL, FACW, and/or FAC: <u>25%</u> Is the hydrophytic vegetation criterion met: Yes <u>No x</u> RATIONALE: <u>< 50%</u> SOILS <u>Subgroup:</u> SCS Mapping Unit: <u>69 Milford</u> <u>Subgroup:</u> Is the soil on the hydric soils list: Yes <u>No</u> Undetermined Is the soil on the hydric soils list: Yes <u>No</u> Undetermined <u>No</u> State soil: Mottled: Yes <u>No</u> <u>Gleyed: Yes <u>No</u> <u>No</u> Matrix color: <u>10 YR 5/3</u> Mottle colors: <u>No</u> <u>X</u> Matrix color: <u>10 YR 5/3</u> Mottle colors: <u>Subgroup:</u> Is SCS mapping unit confirmed in field: Yes <u>No</u> <u>X</u> Other hydric soil criterion met? Yes <u>No</u> <u>X</u> RATIONALE: <u>Pebbles on surface suggest excavation</u> Is the ground surface inundated: Yes <u>No</u> <u>X</u> Surface water depth: <u>Depth to free-standing water in pit/soil probe hole:</u> List other field evidence of surface inundation or soil saturation. <u>Sufface water depth:</u> Is the wetland hydrology criterion met: Yes <u>No</u> <u>X</u> RATIONALE: <u>Wetness</u> JURISDICTIONAL DETERMINATION AND RATIONALE Is the plant community a wetland? Yes <u>No</u> <u>X</u></u>	5.			
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Percent of dominant species that are OBL, FACW, and/or FAC: 25% Is the hydrophytic vegetation criterion met: Yes No x RATIONALE: < 50%	. 7			
Percent of dominant species that are OBL, FACW, and/or FAC: 25% Is the hydrophytic vegetation criterion met: Yes No x RATIONALE: < 50%				
Is the hydrophytic vegetation criterion met: Yes No x RATIONALE: SOILS	Percent of dominant species that a	re OBL, FACW, a	und/or FAC:	25%
RATIONALE: < 50%	Is the hydrophytic vegetation crit	erion met: $Y \epsilon$	es N	
SOILS Subgroup: SCS Mappng Unit: 69 Milford Subgroup: Is the soil on the hydric soils list: Yes No Undetermined Is the soil a Histosol: Yes No Histic epipedon present Yes No Is the soil: Mottled: Yes No Gleyed: Yes No Matrix color: 10 YR 5/3 Mottle colors: Module colors: Module colors: Is the hydric soil indicators: Is the hydric soil criterion met? Yes No X Other hydric soil criterion met? Yes No X RATIONALE: Pebbles on surface suggest excavation Is the ground surface inundated: Yes No X Is the soil saturated: Yes No X Depth to free-standing water in pit/soil probe hole: List other field evidence of surface inundation or soil saturation. Is Is the wetland hydrology criterion met: Yes No X RATIONALE: Wetness No X JURISDICTIONAL DETERMINATION AND RATIONALE Is the plant community a wetland? Yes No X RATIONALE: Route of major field tile<	RATIONALE: < 50%			×
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Sets Mapping Unit:		SOILS =====		na dalah kanang alama pangi kanan dalah kanan dalah kanan dalah kanan kanan kanan kanan kanan kanan kanan kanan Mangala kanan dalam kanan k
Is the soil on the hydric soils list: Yes No No Undetermined Is the soil a Histosol: Yes No Histic epipedon present Yes No Is the soil: Mottled: Yes No Gleyed: Yes No Matrix colors: Is the soil: Mottled: Yes No Gleyed: Yes No Matrix colors: No Is the soil indicators: Is the hydric soil indicators: No x X Other hydric soil criterion met? Yes No x X RATIONALE: Pebbles on surface suggest excavation X Is the ground surface inundated: Yes No x Is the soil saturated: Yes No x Depth to free-standing water in pit/soil probe hole: List other field evidence of surface inundation or soil saturation.	To the goil on the herbitic		Subgro	oup:
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Astrix color: 10 YR 5/3 Mottle colors: No	Is the soil a Histosol: Yes No	Histic ep;	ipedon prese	ent Yes No
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JURISDICTIONAL DETERMINATION AND RATIONALE: No x JURISDICTIONAL DETERMINATION AND RATIONALE: No x	Ts SCS mapping unit confirmed in 6	Mottle co]	lors:	
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Is the wetland hydrology criterion met: Yes <u>No x</u> RATIONALE: <u>Wetness</u> JURISDICTIONAL DETERMINATION AND RATIONALE Is the plant community a wetland? Yes <u>No x</u>	List other field evidence of surface	soir prope nor	e:	
Is the wetland hydrology criterion met: Yes <u>No x</u> RATIONALE: <u>Wetness</u> JURISDICTIONAL DETERMINATION AND RATIONALE Is the plant community a wetland? Yes <u>No x</u> RATIONALE: <u>Route of major field tile</u>		e inunuation or	soll satur	ation.
RATIONALE: <u>Wetness</u> JURISDICTIONAL DETERMINATION AND RATIONALE Is the plant community a wetland? Yes <u>No x</u> RATIONALE: <u>Route of major field tile</u>	Is the wetland hydrology criterion	met. Voc	No	
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Is the plant community a wetland? Yes <u>No x</u> RATIONALE: <u>Route of major field tile</u>	JURISDICTIONAL DET	ERMINATION AND	PATTONAT	
RATIONALE: Route of major field tile	Is the plant community a wetland?	Yes No	XALIONALE	
	RATIONALE: Route of major field tile		4 b.	