

NON-METALLIC MINING RECLAMATION PLAN NARRATIVE

Operator: Haas Sons Inc

Owner: Haas Sons Properties LLC

(1) Initial Site Plan

(a.) **Initial Site Maps** - see attached 24" x 36" map

- 1. Location Map See Land map
- 2. Topographic Map See Initial site map
- 3. Property Boundaries See Initial site map
- 4. Roads and Road Labels See Initial site map
- 5. Road Right-of-way Lines See Initial site map
- 6. Structures and Structure Labels See Initial site map
- 7. Intermittent and Perennial Streams See Initial site map
- 8. Concentrated Flow See Initial site map
- 9. Wetlands See Initial site map
- 10. Previous Excavations None
- 11. Wells See Initial site map
- 12. Groundwater Elevation See Initial site map
- 13. Utilities See Initial site map

(b.) **Supporting Information**

1. Landowner: Haas Sons Properties LLC

Address: 203 E Birch St

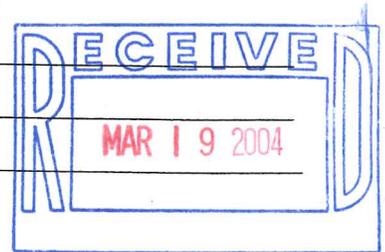
City, State, ZIP: Thorp, WI 54771

Applicant: Haas Sons Inc

Address: Same as above

City, State, ZIP: _____

2. Lease: _____



3. **Legal Description**

Tax Parcel Number(s) : See Attachment

Described as follows: See Attachment

4. **Property Owners Within 660 Feet of Project Site**

Francis Jenneman	Raymond Michels	Leonard and Laura Halfman Trust
Charlie Morning		

5. **Soil Information**

A horizon - 6" black dirt

B horizon - 2' clay

(2) **Site Operations Plan**

(a.) **Site Operations Map** - see attached 24" x 36" map

- 1. **Mine Site Boundary** See Site Operations map
- 2. **Separation Boundaries and Separation Dimensions** See Site Operations Map
- 3. **Planned Cell Boundaries** See Site Operations Map
- 4. **Disturbed Areas** See Site operations Map
- 5. **Processing Facilities** Portable crushing Plant
- 6. **Dewatering Systems** Pumps
Internal

7. Arrows Showing Surface Runoff Flow

No Runoff - internally drained

8. Screening Measures

See Stripping piles on Site operations map

9. Roads, Culverts, and Points of Public Road Access

See Site operations map

10. Practices to Limit Erosion and Sediment Delivery

Gradual Slopes, mulch and/or silt fence
Slopes will be seeded

(b.) Description of Site Operations

1. Description of Materials to be Extracted

Sand and Rock

2. Extraction and Processing to be Conducted at the Site

loaders will dig material out of bank, deposit it into crusher. when we get below water table, a backhoe will dig it out, then the loaders will carry it to the crusher.

3. Volumes of Materials

(Estimated Cubic Yards of Raw Material)

Cell	Area (acre), includes berms	During 1 st two years	During Full Life of Operation
1	20	75,000 = 5A	480,000 yds
2	20	0	480,000 yds
3	20	0	380,000 yds

(Continued on next page)

3. Volumes of Materials (continued from previous page)
 (Estimated Cubic Yards of Raw Material)

Cell	Area (acre), includes berms	During 1 st two years	During Full Life of Operation
Total	60	75,000	1,340,000

4. Site Dewatering and Effluent Discharge

*No off site all pumping will be
 from pond to pond. within mined
 areas*

5. Stormwater Permits/Management

See Appendix A, Stormwater management

6. Erosion Control & Permits

Erosion control will be implementing silt fence where needed along banks, seeding all restored slopes and drainage ways, also applying silt fence to drainageways if necessary

7. Reclamation Activities During Operations

Reclamation will take place as we mine through cells 1, 2, and 3. we will work from east to west, through cells 1 and 2, then we will turn north and work through cell 3. we will restore outermost boundaries as we mine past them. Will be stripping approx 5 acres at a time. to limit disturbed areas. Each entire cell will be mined above water and then will begin mining be low water at the starting point. at that time we will start reclaiming the side slopes of the pond created. Final slope will vary and water depths will vary also.

8. Timetable/Sequence of Operations

<u>Location</u>	<u>Activity</u>
<u>Cell 1</u>	<u>We will mine to the South west starting from the pit road. When we reach the South pit Boundary, and the cell 2 boundary. We will then move West into cell 2 working the whole face of the Bank to the west</u>

<u>Cell 2</u>	<u>we will mine the whole face of the Bank to the west up to the west pit Boundary. We will then go through the road between cells, and start mining cell 3</u>
---------------	---

<u>Cell 3</u>	<u>we will mine to the north and the west. when we reach the west property Boundary, we will mine north to the north property Boundary.</u>
---------------	---

(Continued on next page)

9. Timetable

Estimated period of operation/extraction for each cell:

Cell <u>1</u>	<u>8</u> years
Cell <u>2</u>	<u>8</u> years
Cell <u>3</u>	<u>8</u> years
Cell _____	_____ years
Cell _____	_____ years
Cell _____	_____ years
Cell _____	_____ years
Cell _____	_____ years
Cell _____	_____ years
Cell _____	_____ years
Cell _____	_____ years
Cell _____	_____ years
Total ----->	<u>20-30</u> years

(3) Final Site Plan

(a.) **Final Site Maps** - see attached 24" x 36" map

1. **Final Depths, Final Slope Angles, and Slope Stabilization Measures**

See Final site map

2. **Areas which Convey Concentrated Flow**

See Final site map

3. **Locations of Facilities or Structures to Remain in Place**

No structures will remain only Road to pit.

4. **Planned Development Features on the Site Following Closure**

See Final site map Ponds on South 40 other 20
will be seeded.

5. **Cross Sections Through the Site**

See Appendix B and Appendix C

(b.) **Description of Final Reclamation**

1. **Disposition of Structures and Roads**

There will be no structures when site is closed the
only road remaining will be the access road from the
pit to the Highway 124

2. **Soil Reapplication**

Topsoil will be applied to clay banks which will be
sloped 3:1 or greater. Topsoil will be applied on the floor
of cell 3 approx 4" to 6" thick. All banks and exposed
floors will be seeded if not done previously during site
operation.

* Clay will be approx 1 1/2' of depth
clay and blockdirt will be applied to
slopes only and not to bottom of ponds

3. **Seeding Plan**

See appendix D - seeding plan

Seeding will be done according to Section 630 and fertilizer
according to Section 629 in the Standards Specs. book
for roads and bridges.

4. Future Use

Cells land 2 will become a pond. Cell 3 will become a field.

Attachments

APPENDIX A: Stormwater Management permit

APPENDIX B: Cross sections, cells land 2

APPENDIX C: Cross section, cell 3

APPENDIX D: seeding plan

APP. E Land use agreements

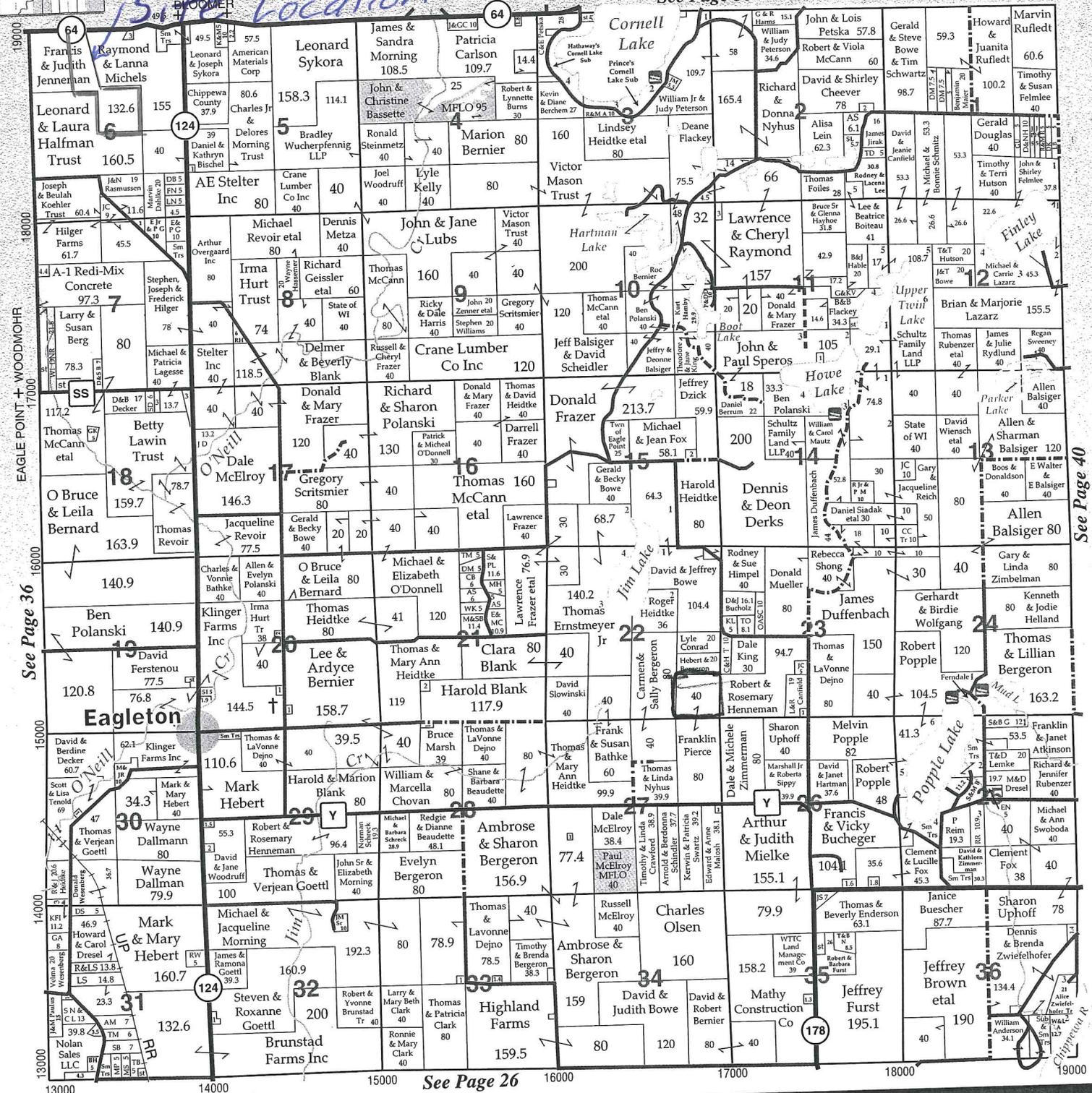
15. Eagle Point (E) Woodmohr (E), Bloomer (S)

T.30N. - R.8W.

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15. Eagle Location

See Page 50



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Appendix A

Stormwater Management

Attachment

The Southwest Quarter of the Northeast Quarter (SW $\frac{1}{4}$ -NE $\frac{1}{4}$); and

The East 653 feet of the North 6 $\frac{1}{2}$ rods of the Southeast Quarter of the Northwest Quarter (SE $\frac{1}{4}$ -NW $\frac{1}{4}$); and

Part of the Northeast Quarter of the Northwest Quarter (NE $\frac{1}{4}$ -NW $\frac{1}{4}$) described as follows: Beginning at a point on the North line of said Northeast Quarter of the Northwest Quarter which is 18 rods West of the Northeast corner thereof; thence Southeasterly to a point of the South line thereof which is 8 rods West of the Southeast corner of said Northeast Quarter of the Northwest Quarter; thence West along the South line 521 feet; thence Northerly to a point on the North line which is 310 feet West of the point of beginning; thence East on the North line to the point of beginning.

All in Section 6, Township 30 North, Range 8 West, Chippewa County, State of Wisconsin.

Tax Parcel Numbers:

23008-0613-00000000

23008-0623-01000000 (part)

23008-0621-00020000 (part)

} to be divided

The information requested on this form is needed for the Department of Natural Resources (the Department) to determine if discharges of process wastewater and/or stormwater from your nonmetallic mining operation are eligible for coverage under the Wisconsin Pollutant Discharge Elimination System (WPDES) generalized permit No. WI-0046515-3. Discharge of industrial wastewater from a nonmetallic mining site which has not obtained coverage under the nonmetallic mining general permit or other applicable WPDES permit may result in forfeitures up to \$10,000 per day, pursuant to s. 283.91(2), Stats. The Department may request additional information regarding your nonmetallic mining operation if needed to assess the operation's eligibility for coverage under a WPDES permit. Personal identification information requested on this form may be used for other water quality program purposes.

Section I: Mailing Address (Parent Company/Owner) Information - To be completed by all dischargers

Company/Owner Name: Haas Sons Inc

Contact Name: Last Haas First Phil MI E Title V Pres.

Street Address: 203 E Birch St City _____ State _____ Zip Code _____

Phone Number 669-5469 Fax Number _____ E-mail address (if available) _____

Section II: Facility (Site/Property) Information - To be completed for coverage of a stationary individual site

Facility Name: Haas / Jenneman Facility Identification # [FID] (if available) _____

Contact Name: Last Haas First Philip MI E Title V Pres.

Street Address: 203 E Birch St City Thorp State WI Zip Code 54771

Property location: County _____ Township _____ Range _____ Section _____ Quarter - Qtr/Qtr _____ Lat/Long-GPS Coordinates (if available) _____

Phone Number 669-5469 Fax Number _____ E-mail address (if available) _____

Attach a site map, such as an air photo, USGS topographic map or survey map, showing the facility location, the nearest public roadway, surface waters within 1000 feet, stormwater drainage patterns, the wastewater discharge points to surface waters or seepage, and other pertinent features.

Section III: Mobile Unit Information - To be completed for coverage of a machinery group or spread that operates at a number of sites

Mobile Unit Operator Name/Contact: Last Haas First Phil MI E Title V Pres.

Facility Identifier (FID) # (if available) 47-02803 Primary County (or counties) of Operation [attach additional sheets if necessary and check here] Clark Chipp Taylor

Anticipated Site(s) to be Visited by Mobile Unit [attach additional sheets if necessary and check here] _____

Phone Number 669-5905 Mobile Phone Number 829-8922 E-mail address (if available) _____

Section IV: Stormwater Information - To be completed by all dischargers

1	What is the Standard Industrial Classification (SIC) code for the facility/machinery (4 digits)? Primary: 1 4 _____ Others? _____	<p>For Department Use Only</p> <input type="checkbox"/> Individual Coverage <input type="checkbox"/> Spread Coverage <input type="checkbox"/> NPR
2	Is this site supervised by the Department of Transportation (DOT) and used exclusively as a DOT borrow site? (i.e. the borrow site is an excavation for a DOT project and does not include any other commercial activity) <input checked="" type="checkbox"/> No <input type="checkbox"/> Yes <input checked="" type="checkbox"/> N/A, because this information summary is for a mobile unit.	
3	Have any leaks, spills, overflows or similar instances resulted in contamination of stormwater runoff from the facility in the last three years? <input checked="" type="checkbox"/> No <input type="checkbox"/> Yes <input type="checkbox"/> N/A, because this information summary is for a mobile material processing unit.	

Section IV continued:

- 4 What is the flow pattern of stormwater run-off at the site?
- Externally Drained (some or all of the stormwater that contacts disturbed areas or excavated materials runs beyond the site property boundary). Include facilities that have dewatering discharges to surface waters.
 - Internally Drained (No off-site discharge -- all stormwater that contacts disturbed areas or excavated materials is contained on site, does not flow beyond property boundaries and does not flow to surface waters)
 - This information summary is for a mobile unit. A site plan is not submitted.

Section V: Facilities that discharge wastewater generated during the process of mining must provide the following information as to where the wastewater goes. The mining process wastewaters are to be described in Section VI.

1. What is the receiving water for the process wastewater discharges? Indicate in the space provided which outfalls go to groundwater and which go to surface waters. Check all that apply (NOTE: an outfall is an individual discharge point, such as a pipe, channel, or seepage point that conveys the wastewater to the surface or ground water)
- Groundwater (this includes infiltration of wastewater through the soil via seepage, septic systems and associated drain fields, ditches, absorption ponds, irrigation fields, etc.).
 - a. Outfall #(s): _____
 - Wetland (note whether you believe wetland is natural or artificial)
 - a. Outfall #(s): _____
 - Surface Water (this includes drainage ways with aquatic life, tributaries, creeks, streams, rivers or lakes that receive discharges from nonmetallic mining operations)
 - a. Outfall #(s): _____
 - b. What is the name of the surface water your discharge enters? _____
 - c. How far is it from the point where it leaves your facility until it reaches the receiving surface water (how far does it travel through storm sewers or drainage ditches)? Check one:
 - Less than 1000 feet Between 1000 and 5000 feet Greater than 5000 feet
 - d. Is noncontact-cooling water discharged from the facility? Yes No
 If so, what is the source of the water used for noncontact cooling water? Check one:
 - 100% from public or private wells
 - ___ % from public or private wells and ___ % from surface water receiving the discharge (approximate % per year)
 - 100 % from the surface water receiving the discharge
 - Municipal or sewage district treatment plant - Outfall #(s): _____
 If ALL discharges from your facility (process wastewater and stormwater) go to a municipal treatment plant, you do NOT require regulation under a WPDES discharge permit. Therefore, skip the rest of the checklist and sign page 4. If future operations at your facility result in a direct discharge to waters of Wisconsin, you will need to inform the Dept.

For Department Use Only

Eligible

Ineligible

ERW
 ORW

INR 103 Completed

DNA

2 To the best of your knowledge, does your process wastewater (from material grading, pit dewatering, stack scrubbing, boiler blowdown, etc.) contain any of the substances listed below (or other substances that could be harmful to human health or aquatic life)? Check all that apply.

- | | | |
|---|---|--|
| <input type="checkbox"/> 4,4'-DDD | <input type="checkbox"/> 4,4'-DDE | <input type="checkbox"/> 4,4'-DDT |
| <input type="checkbox"/> alpha - BHC | <input type="checkbox"/> Dieldrin | <input type="checkbox"/> Chlordane |
| <input type="checkbox"/> Mercury | <input type="checkbox"/> Mirex | <input type="checkbox"/> Octachlorostyrene |
| <input type="checkbox"/> Photomirex | <input type="checkbox"/> PCB | <input type="checkbox"/> Pentachlorobenzene |
| <input type="checkbox"/> 1,2,3,4-Tetrachlorobenzene | <input type="checkbox"/> 1,2,4,5-Tetrachlorobenzene | <input type="checkbox"/> 2,3,7,8-Tetrachlorodibenzo-p-dioxin |
| <input type="checkbox"/> Toxaphene | <input type="checkbox"/> gamma - BHC (Lindane) | <input type="checkbox"/> tech. - BHC |
| <input type="checkbox"/> Hexachlorobenzene | <input type="checkbox"/> Hexachlorobutadiene | |
| <input type="checkbox"/> Other (such as solvents or dissolved metals) _____ | | |

If any of the above substances are checked, you may be required to segregate that wastewater and not discharge it to waters of the state. If you wish to pursue obtaining a permit to discharge wastewater containing these chemicals, indicate that you want the Department to send an application for a site specific WPDES discharge permit by checking here .

Check here if none of the above substances are expected to be in the discharge.

Section V continued:

3. Have any other WPDES permits been issued to your facility that authorize the discharge of other wastewaters to Wisconsin surface or ground waters?

- Yes List the number of the separate permit: WPDES Permit No. WI-_____
- No

4. Are Water Treatment Additives used in waste streams that are discharged to surface waters or groundwaters? (Such as: separation aids, boiler treatments, scale/rust inhibitors, biocides, chlorine, etc.)?

- No Skip the rest of this additive section.
- Yes Is the additive considered a biocide (biocides are designed to control biological growth, such as algae, in tanks, cooling towers, and other equipment)?
- No Yes

For each outfall at which additives are used, you must submit the following information for each additive on Appendix A (page 5 of this form):

- Commercial name of the additive to be used.
- Amount or concentration of additive to be used.
- Anticipated discharge concentration of additive.
- Proposed frequency of usage.
- Material Safety Data Sheets (MSDS's) for each additive.

If your discharge enters a surface water, you must enter the following information on Appendix A:

- At least one 48-hour LC₅₀ or EC₅₀ value for *Daphnia magna* and at least one 96-hour LC₅₀ or EC₅₀ value for fathead minnow, rainbow trout, or bluegill.

NOTE: The information requested above should be available from your additive supplier.

For Department Use Only

Completed

Re-submit

Additive follow-up necessary

Yes

No

Section VI: Discharge Characterization - Complete this section for process wastewater discharges related to production operations at the facility. Process wastewater types are listed below. Examples of other process wastewater types might be softener regeneration wastewater, scrubber water, or wastewater from internal building floor drains. Dust suppression water may be omitted if there is no runoff. Outfalls described below should be located on the site map requested in Section II, page 1.

Type of Wastewater (check all that apply):	Outfall # (#1, #2, etc.)	Average Daily Flow (gallons per day)	Type of Wastewater (check all that apply):	Outfall # (#1, #2, etc.)	Average Daily Flow (gallons per day)
<input type="checkbox"/> Washwater Associated with Material Processing	#		<input type="checkbox"/> Sanitary wastewater from toilets, sinks, etc. <i>If the sanitary wastewaters are not mixed with the mining process water, write the type of sanitary waste treatment system in the daily flow column in place of a flow estimate.</i>	#	
	#			#	
	#			#	
<input type="checkbox"/> Pit Dewatering	#		<input type="checkbox"/> Other (describe type)	#	
	#			#	
	#			#	
<input type="checkbox"/> Noncontact Cooling Water, Condensate or Boiler Water	#		<input type="checkbox"/> Other (describe type)	#	
	#			#	
	#			#	
<input type="checkbox"/> Vehicle or Equipment Washwater	#		<input type="checkbox"/> Other (describe type)	#	
	#			#	
	#			#	

Section VII: Signatory Requirements – This form must be signed by the official representative of the permitted facility who is: the owner, the sole proprietor for a sole proprietorship, a general partner for a partnership, a ranking elected official or other duly authorized representative for a unit of government, a member or manager for a limited liability company, or an executive officer of at least the level of vice president having overall responsibility for the operation of the facility for a corporation or designee of one of the above. If this form is not signed, or is found to be incomplete, it will be returned.

I certify that I am familiar with the information contained in this application and that to the best of my knowledge and belief such information is true, complete and accurate.

Philip Haas Printed or Typed Name of Official Representative V Pres. Title

Philip Haas Signature of Official Representative 3-16-04 Date

If a consultant has completed this application, provide the following information:

Company Name _____

Consultant Name: Last _____ First _____ MI _____ Title _____

Street Address _____ City _____ State _____ Zip Code _____

Phone Number _____ Fax Number _____ Email Address (if available) _____

Check here if you should receive Discharge Monitoring Reports (DMR's)

MAIL COMPLETED APPLICATION TO:

Insert Regional Department Address Here

For Department
Use Only

Date Application Received _____

Status Denied
 Approved
 Specific permit

Date: _____

Comments _____

Appendix B

**Cross sections
Cells 1 and 2**

Setbacks will be at least 50' from all highways

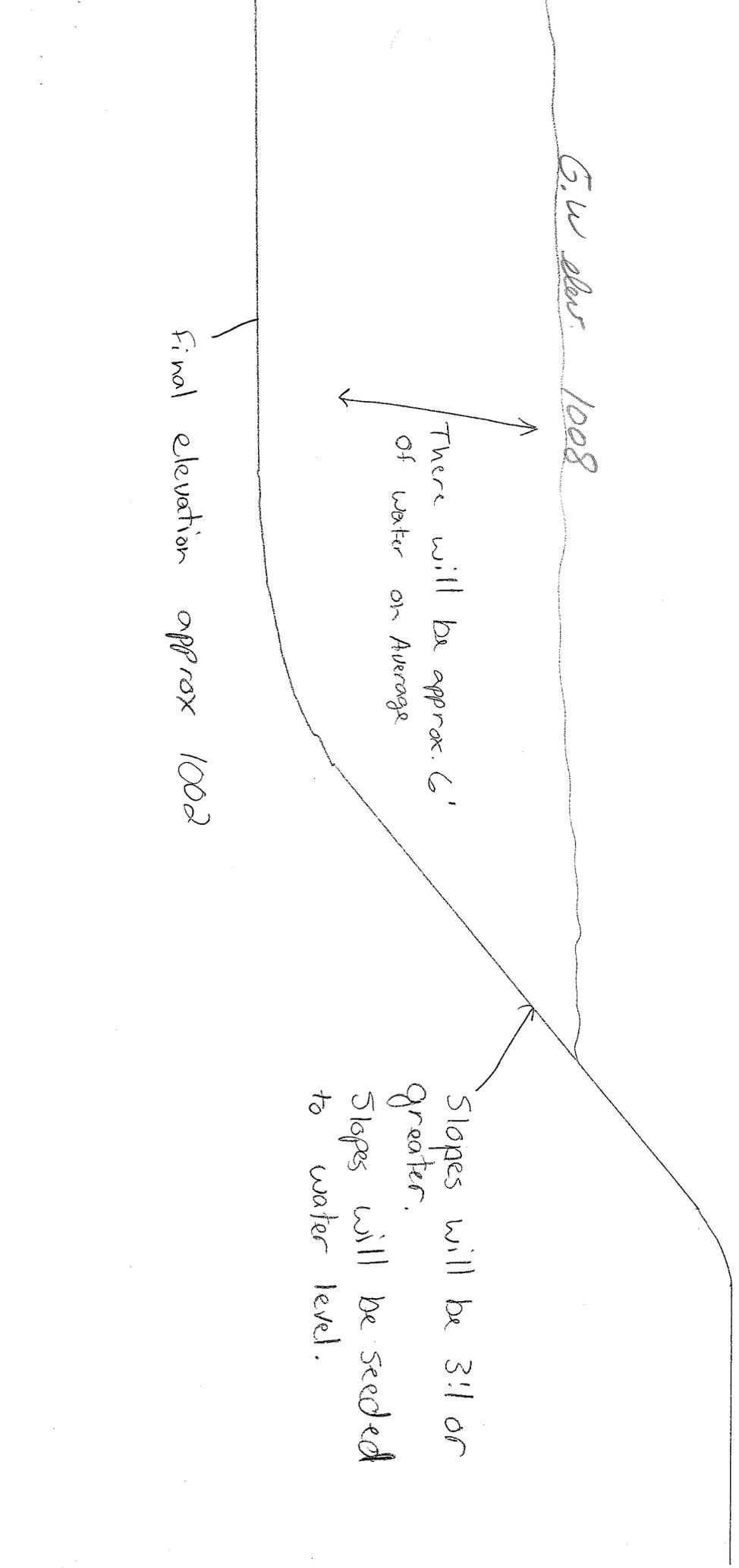
Setback →

G.W. elev. 1008

There will be approx. 6' of water on average

Slopes will be 3:1 or greater. Slopes will be seeded to water level.

Final elevation approx 1002



Appendix C

Cross section Cell 3

all setbacks will be atleast
50' from all highways

← Setback →

Slopes will be 3:1 or
greater. All slopes will be seeded
and mulched if necessary.

Ground water Elev. approx
1008

Final elevation will be approx. 1008.
Floor will be seeded. Floor may have slight hills.

Appendix D

Seeding Plan

TABLE OF SEED MIXTURES

Species	Purity Min. %	Germination Min %	Mixture Proportions, Percent						
			No. 10	No. 20	No. 30	No. 40	No. 50	No. 60	No. 70
Kentucky Bluegrass	85	80	40	5	10	35			
Creeping Red Fescue	97	85	25		30	15			
Improved Hard Fescue	97	85		20		15			15
Improved Turf Type Tall Fescue	98	85		35	25				35
Fults Salt Grass	98	85			10				
Redtop	92	85	5					9	
Timothy	98	90						5	
Barnyard Grass	97	85						2	
Little Bluestem	PLS*								4
Prairie Dropseed	PLS*								0.5
Sideoats Grama	PLS*								4.5
Switchgrass	PLS*							2.5	
Bluejoint Grass (Calamagrostis Canadensis)	PLS*							0.5	
Canada Wild Rye	PLS*							2	3
Perennial Ryegrass	97	90	20	25					28
Improved Fine Perennial Ryegrass	96	85			15	25			
Annual Ryegrass	97	90						72	
Alsike Clover	97	90						5	
Red Clover	98	90						2	
White Clover	95	90	10			10			
Empire Birdsfoot Trefoil	95	80		15	10		50		10
Crownvetch	95	70					50		

*Pure Live Seed. These grasses shall contain no improved varieties.

630.2.1.5.1.1.2 Mixture to be Used. The selection of the seed mixture or mixtures for use on the project shall meet with the approval of the engineer, and unless otherwise provided in the contract, shall be in accordance with the following:

Seed Mixture No. 10 is intended for use on projects where average loam, heavy clay or moist soils predominate.

Seed Mixture No. 20 is intended for use on projects where light, dry, well-drained, sandy or gravelly soils predominate and shall be used for all high cut and fill slopes (generally exceeding six to eight feet), except where No. 70 is used.

Seed Mixture No. 10 or No. 20 shall be used on all ditches, inslopes, median areas and low fills, except where Seed Mixture No. 30 or No. 70 is used.

Seed Mixture No. 30 is intended for use on medians and on slopes or ditches generally within 15 feet of the shoulder where a salt-tolerant turf is desired.

Seed Mixture No. 40 shall be used in urban or other areas where a lawn type turf is desired.

630.3.3.4.1

Seed Mixture No. 50 may be applied together with Seed Mixture No. 20 or be overseeded when necessary.

Seeding shall be done with the selected seed mixture sown at the specified rate.

630.3.2 Preparation of Seed Bed. Grading, shouldering, topsoiling and fertilizing items, when part of the work under the contract, shall be completed before permanent seeding, except that when equipment designed for the purpose is used, the fertilizer and seed mixture may be placed in one operation.

The area to be seeded shall be worked with discs, harrows or other appropriate equipment until a reasonably even and loose seed bed is obtained immediately in advance of the seeding.

630.3.3 Sowing. Unless otherwise specified, seeds may be sown at the option of the contractor, by either Method A or Method B described below.

630.3.3.1 Method A. The selected seed mixture shall be sown by means of equipment adapted to the purpose, or it may be scattered uniformly over the areas to be seeded, and lightly raked or dragged to cover the seed with approximately one-fourth inch of soil. After seeding, the areas shall be lightly rolled or compacted by means of suitable equipment, preferably of the cultipacker type when in the judgement of the engineer the seedbed is either too loose or contains clods which would reduce the germination of the seed. Slopes steeper than three to one need not be rolled.

Scattering seed by hand shall be done only with satisfactory hand seeders and only at such times when the air is sufficiently quiet to prevent seeds from blowing away.

630.3.3.2 Method B. Upon the prepared seed bed, the seed shall be sown or spread by means of a stream or spray of water under pressure operated from an approved type of machine designed for that purpose. The selected seed mixture and water shall be placed into a tank, provided within the machine, in sufficient quantities that when the contents of the tank are sprayed on a given area the seed will be uniformly spread at the required rate of application. During the process the contents of the tank shall be kept stirred or agitated to provide uniform distribution of the seed. The contents of the tank shall be emptied within two hours after the seed is added to the tank. Seed which is allowed to remain mixed with the water for longer than two hours shall be rejected. Dragging or rolling will not be required.

630.3.3.3 Borrow Pits and Waste Areas. Borrow pits, and waste areas off the right-of-way, shall be seeded with the selected seed mixture permitted in Subsection 630.2.1.5.2.1. Selection of such seed mixture shall be made in consultation with the landowner or his agent. In the event the landowner does not want the pit or waste area seeded or seeded with any of the permitted mixtures, no payment will be made for fertilization or seeding of such areas.

630.3.3.4 Seeding Rates.

630.3.3.4.1 Right-of-Way. The sowing rate for seeds, in pounds per 1000 square feet of area, shall be as follows:

Seed Mixture No. 10 at 1-1/2 pounds

Seed Mixture No. 20 at 3 pounds

Seed Mixture No. 30 at 2 pounds

Seed Mixture No. 40 at 2 pounds

Seed Mixture No. 50 at 1/2 pound

Seed Mixture No. 60 at 1-1/2 pounds (equivalent)

Seed Mixture No. 70 at 3 pounds (equivalent)

Seeding, Temporary at 3 pounds