

APPENDIX N

Macrophyte Survey – North Twin and Pike Lakes, Polk County

Macrophyte Survey
North Twin and Pike Lakes, Polk County Wisconsin
Summer 2003

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Dragonfly Consulting
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Introduction:

This report is presented as an analysis/summary of data collected in a macrophyte survey completed during the summer of 2003 on North Twin and Pike Lakes, Polk County Wisconsin. This survey was conducted in mid June, 2003 to accommodate potential curly-leaf pondweed presence. All data is available on disk, has been loaded into a GIS program, and is available upon request.

Methods:

This survey incorporated a point intercept method of sampling the lake for macrophytes. A grid was generated that spaced the sampling points 100 meters running north/south and 100 meters running east/west. This spacing was used in order to accommodate for the large littoral zone in these two lakes. In addition, this would give approximately 60 sampling points, (Maps 1 and 5) which is recommended by the literature for littoral zones of this size.

At each point, a specially designed rake was lowered and a 1-meter tow was completed on the shoreline side of the boat. A subsequent sample was collected by use of a lighter weight bottom sampler with hinged jaws. Both sampling devices were completely cleaned of plant material and placed into a sampling pan. Each new species found in the entire sample were recorded as "present." Any species that had been found in the lake but not identified at a particular sampling point were recorded as "not present." Any species that was questionable (two) were collected and verified at the University of Minnesota Herbarium. The number or amount of a particular species at any one sampling point was not recorded. If no plants were collected, a depth was recorded but entered as "0." This was to indicate the depth was too great. Most of these points were eliminated ahead of time, but some sampling points a depth greater than 6 meters were used to verify no plant growth.

Upon completion, the data was entered into a spreadsheet where the average number of species per point, average native species per point, and frequency of species were calculated. In addition, a floristic quality was determined. The floristic quality is a measure of the apparent affect development has had on the plant community in the lake.

In addition, the data was entered into ArcView® for mapping purposes. The sample points, non-native sample sites, non-plant areas of the lake, as well as nuisance plant stands were mapped and are contained in this survey document.

Lastly, the data was used to calculate a floristic quality assessment of the lake, as established by Dr. Stanley Nichols. This assessment measures the response the plant community in the lake has had to disturbance. A list of all plant species that are part of the assessment are assigned a coefficient of conservatism ranging from 0 to 10. This number is then averaged and used in the following equation to calculate the floristic quality:

$$I = (\text{average } C) \times \sqrt{N}$$

Where **I** is the floristic quality, **C** is the conservatism and **N** is the number of species. These values are then compared to the lake averages from lakes that were studied in the same ecoregion as North Twin and Pike Lakes.

Results:

Pike Lake:

(Table 1)

Name of macrophyte	Frequency	Native?	Conservatism
<i>Ceratophyllum demersum</i>	0.42	Yes	3
<i>Potamogeton crispus</i>	0.25	No	-
<i>Potamogeton zosteriformis</i>	0.40	Yes	6
<i>Myriophyllum sibiricum</i>	0.45	Yes	7
<i>Lemna trisulca</i>	0.13	Yes	6
<i>Elodea canadensis</i>	0.07	Yes	3
<i>Potamogeton amplifolius</i>	0.15	Yes	7
<i>Potamogeton robbinsii</i>	0.20	Yes	8
<i>Chara spp.</i>	0.27	Yes	7
<i>Potamogeton diversifolius</i>	0.15	Yes	8
<i>Bidens beckii</i>	0.05	Yes	8
<i>Potamogeton praelongus</i>	0.22	Yes	8
<i>Vallisneria americana</i>	0.15	Yes	6
<i>Nuphar advena</i>	0.15	Yes	8
<i>Nymphaea odorata</i>	0.13	Yes	6
<i>Najas flexilis</i>	0.07	Yes	6
<i>Potamogeton pectinatus</i>	0.11	Yes	3
<i>Lemna minor</i>	0.02	Yes	5
<i>Potamogeton natans</i>	0.16	Yes	5
<i>Utricularia vulgaris</i>	0.16	Yes	7

Average species per point = **3.71**

Average native species per point = **3.45**

Average non-native species per point = **0.53**

Floristic quality index:

Pike Lake falls within the North Central Hardwoods Ecoregion (NCSE)

	<u>Pike Lake</u>	<u>NSCE Lakes avg</u>	<u>% of NSCE</u>
Number of species	19	14	136%

	<u>Pike Lake</u>	<u>NSCE Lakes avg</u>	<u>% of NSCE</u>
Avg. conservatism	6.16	5.6	110%
Floristic quality	26.84	20.9	128%

NorthTwin Lake:

(Table 2)

<u>Name of macrophyte</u>	<u>Frequency</u>	<u>Native?</u>	<u>Conservatism</u>
<i>Ceratophyllum demersum</i>	0.84	Yes	3
<i>Potamogeton crispus</i>	0.5	No	-
<i>Potamogeton zosterformis</i>	0.75	Yes	6
<i>Myriophyllum sibiricum</i>	0.60	Yes	7
<i>Lemna trisulca</i>	0.22	Yes	6
<i>Elodea canadensis</i>	0.50	Yes	3
<i>Potamogeton amplifolius</i>	0.16	Yes	7
<i>Potamogeton robbinsii</i>	0.52	Yes	5
<i>Chara</i> spp.	0.21	Yes	7
<i>Potamogeton diversifolius</i>	0.24	Yes	8
<i>Bidens beckii</i>	0.07	Yes	8
<i>Potamogeton gramineus</i>	0.16	Yes	7
<i>Vallisneria americana</i>	0.03	Yes	8
<i>Nuphar advena</i>	0.07	Yes	8
<i>Runnuculus longirostris</i>	0.05	Yes	6
<i>Nymphaea odorata</i>	0.07	Yes	6

Average species per point = **5.02**

Average native species per point = **4.49**

Average non-native species per point = **0.53**

Floristic quality index:

North Twin falls within the North Central Hardwoods Ecoregion (NCSE)

	<u>North Twin Lake</u>	<u>NSCE Lakes avg</u>	<u>% of NSCE</u>
Number of species	16	14	114%
Avg. conservatism	6.31	5.6	113%
Floristic quality	25.25	20.9	121%

% Coverage:

North Twin Lake: Approximately 6.2 acres not covered with plants and lake area is approximately 133 acres. This gives approximately 5% without coverage or **95% plant coverage**.

Pike Lake: Approximately 23 acres without plant coverage and approximately lake area is 158 acres. This gives approximately 14 percent without coverage or **86% plant coverage**.

Exotics:

Only one exotic was sampled. This was curly leaf pondweed or *Potamogeton crispus*. On Northtwin this plant was collected at 50% of the sampling sites and on Pike it was collected at 25% of the sites. It should be mentioned that the curly leaf was fairly scattered on North Twin, but on Pike, there was a substantial stand on the north shore in the bay just east of the public boat landing.

There were five purple loosestrife plants observed in the southwest shoreline of North Twin Lake in late July, 2003 (Map 8).

Summary

Floristic Quality

North Twin Lake and Pike Lake both show good water quality in relationship to the floristic quality. Both lakes show higher number of species, higher average conservatism and higher floristic quality than the average lake for this ecoregion. This indicates that the lake has less disturbance, as indicated by this index, then the average lake in this ecoregion. The conservatism reflects the tolerance that a plant has to human disturbance with a 1 being very tolerant while a 10 is very intolerant. Both lakes had a number of intolerant species with Pike Lake showing a longer list and therefore higher floristic quality. In general both lakes look to be in good health in based on the species of plants successfully growing in these lakes with Pike Lake being the better of the two.

Plant coverage

North Twin Lake has a tremendous coverage of aquatic plants. Approximately 95% of the lake has emergent or submergent plants present. A very small area is too deep for rooted plants. Therefore, the littoral zone of this lake is very large. Even though this is a very high coverage, the lake doesn't appear to have a consistent area of nuisance level. Refer to Map 7 to view the estimated area with no plants.

Pike Lake has a smaller coverage area of 86%. Again, this is very extensive coverage, but lower than North Twin is. The bay on the north shore to the east of the boat landing does appear to reach nuisance levels. Please see Map 4 to view this bay location and Map 3 to view the area with no plants. It should be noted that this area is based on including the backwaters of Pike Lake known as the "bass hole." If compared to the main part of the lake, this coverage decreases significantly.

The nuisance bay in Pike Lake (Map 4) may warrant management of the curly-leaf pondweed as it is growing rather dense stands in this bay. If the curly-leaf pondweed were eradicated, a follow up of how the native plants are fairing would be recommended.

Non-native species

The only non-native species that was present in both lakes was curly-leaf pondweed (*Potamogeton crispus*) (see Maps 2 and 6 for documented distribution of this species). No Eurasian water milfoil (*Myriophyllum spicatum*) was found. Curly-leaf pondweed was found in 25% of the samples taken in Pike Lake and 50% of the samples taken in North Twin had curly-leaf present. The samples in Pike Lake reflected larger, dense stands of the plant while North Twin had scattered plants, lacking large dense stands. This plant will need to be monitored for increasing density and probably managed soon in Pike Lake. A late summer sample was not conducted when the curly-leaf would be absent due to senescence.

On North Twin Lake, there were five plants of Purple Loosestrife observed on the southwest shoreline (see Map 8). This observation was taken in late July separate from the survey. Two of these plants were removed and the other three had the flowers removed when observed. A follow will be conducted in the summer of 2004 with continued monitoring in the future.

Species Diversity

Twenty species of aquatic plants were found during this survey in Pike Lake (Table 1) and sixteen species in North Twin Lake (Table 2). In both lakes, a healthy and diverse plant community is present. All but one of the plants is native (curly-leaf pondweed the exception). This compares to a NCHE average of 14 species, indicating a healthy ecosystem based on the aquatic plant diversity.

The most prevalent species was coontail (*Ceratophyllum demersum*) in North Twin Lake at 84% of the samples having this plant present. This plant can reach nuisance levels at times in lakes and with this frequency; coontail should be monitored for reaching nuisance levels. It is a much higher frequency than other plants. However, this plant can use large amounts of nutrients, which can help contribute to water clarity. In Pike Lake, northern milfoil (*Myriophyllum sibiricum*) was the most common. However, the frequency was only 45%, which is only slightly higher than two other plants. This reflects a very diverse and balanced population of macrophytes.

In addition to tremendous diversity, some indicator species were sampled. White-stem pondweed (*Potamogeton praelongus*) was observed in Pike Lake. This aquatic plant is very sensitive to water quality changes. The presence of this plant is an indicator of a healthy water system (Borman et al, 1997). In addition, bladderwort was sampled in the narrows between the lakes while wild rice was observed but not sampled. The presence of bladderwort in this portion of the lake provides a rather significant contribution to this special ecosystem. Other species sampled in both lakes that have ecological significance are large-leaf pondweed (cabbage weed), flat-stem pondweed, northern milfoil, and celery.

Nuisance Stands Warranting Management Actions:

Only one area had significant growth of a plant that is non-desirable. This area is the North Bay to the east of the boat landing on Pike Lake. This bay had extensive growth of curly-leaf pondweed, which is non-native. It may be prudent to manage this plant in the spring during the time this cold-water plant is growing. This would allow native, warm water plants to grow without competition from curly-leaf.

There have been spotty nuisance stands of elodea or waterweed near the narrows on North Twin Lake. Future monitoring should be conducted in these areas to establish any consistent development. Considering the coverage of plants in North Twin, nuisance stand development is a distinct possibility.

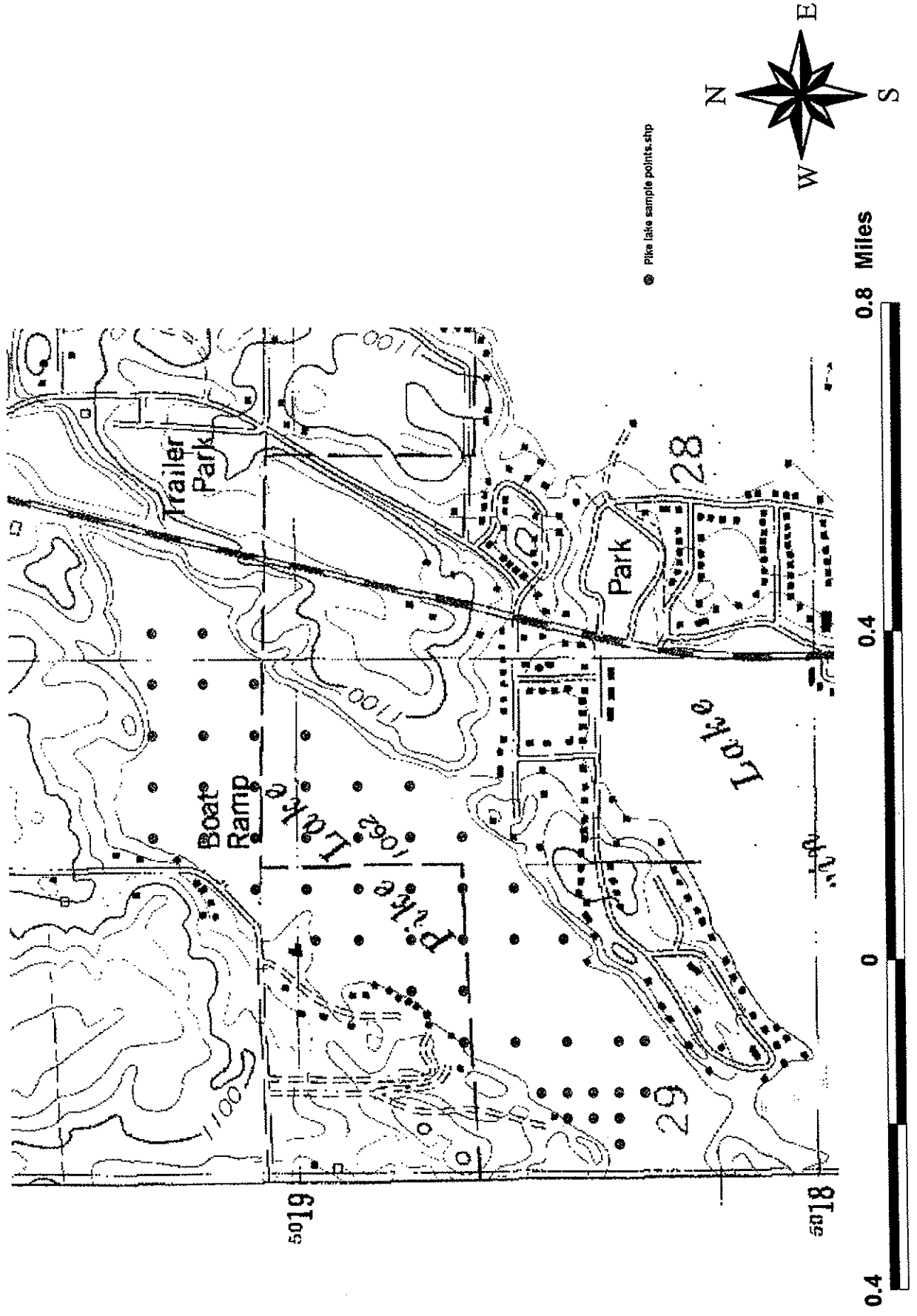
References:

Borman, Susan, Robert Korth and Jo Temte. 1997. Through the Looking Glass. Lakes Partnership, University of Wisconsin-Extension DNR. Stevens Point, WI. 248 pp.

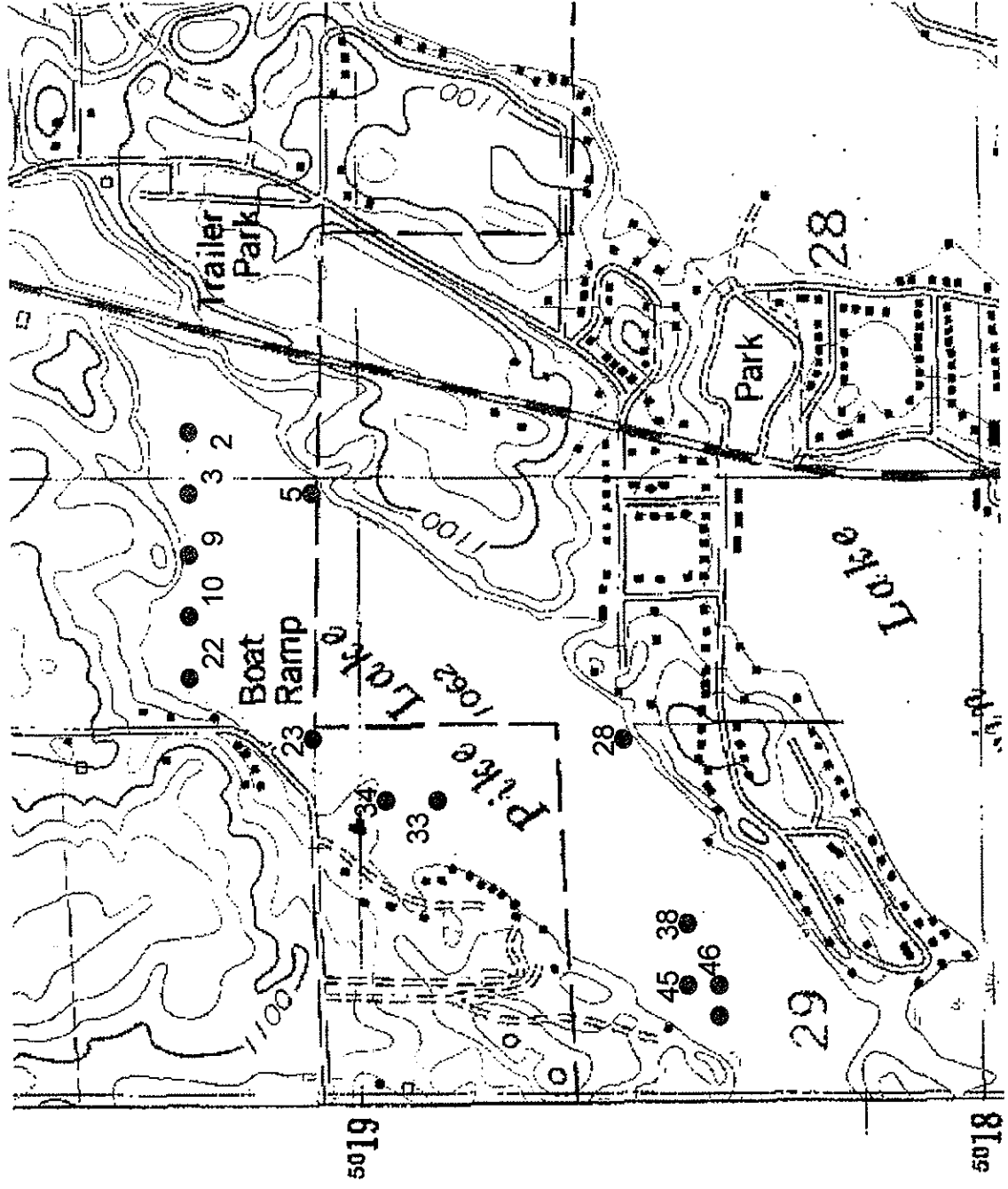
Madsen, John D. 2003. "Aquatic Plant Management Plan Guidelines for Wisconsin Lakes." Wisconsin DNR. 42pp.

Nichols, Stanley A. 1999. "Floristic Quality Assessment of Wisconsin Lake Plant Communities with Example Applications." Journal of Lake and Reservoir Management. 15(2): 133-141.

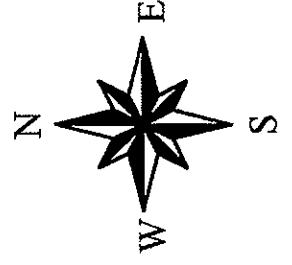
Pike Lake Sample Points



Points Curly-leaf Pondweed Sampled

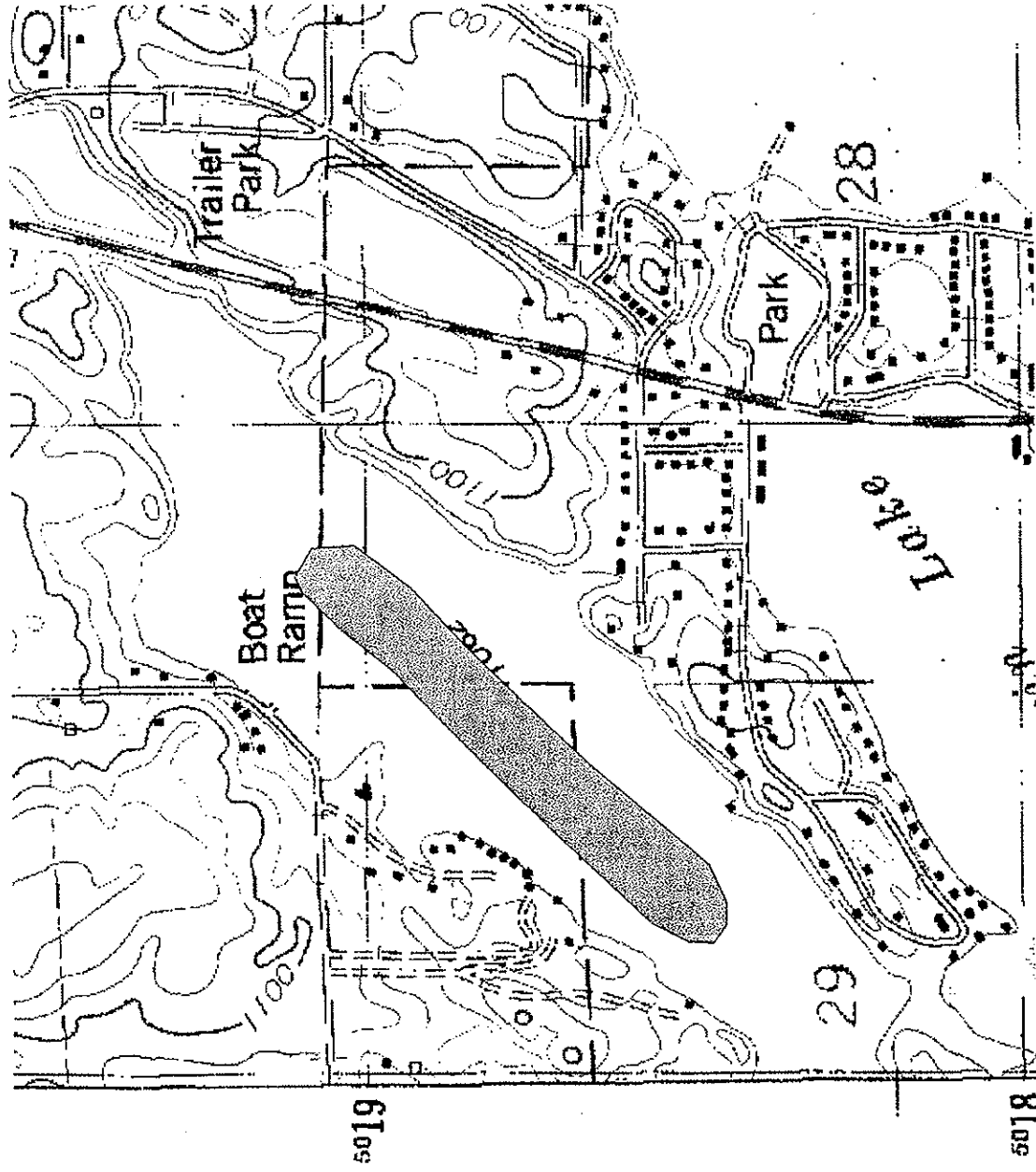


● Pike curly.shp

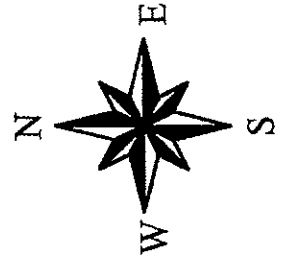




Area with no plants



Area with no plants plus lake.php



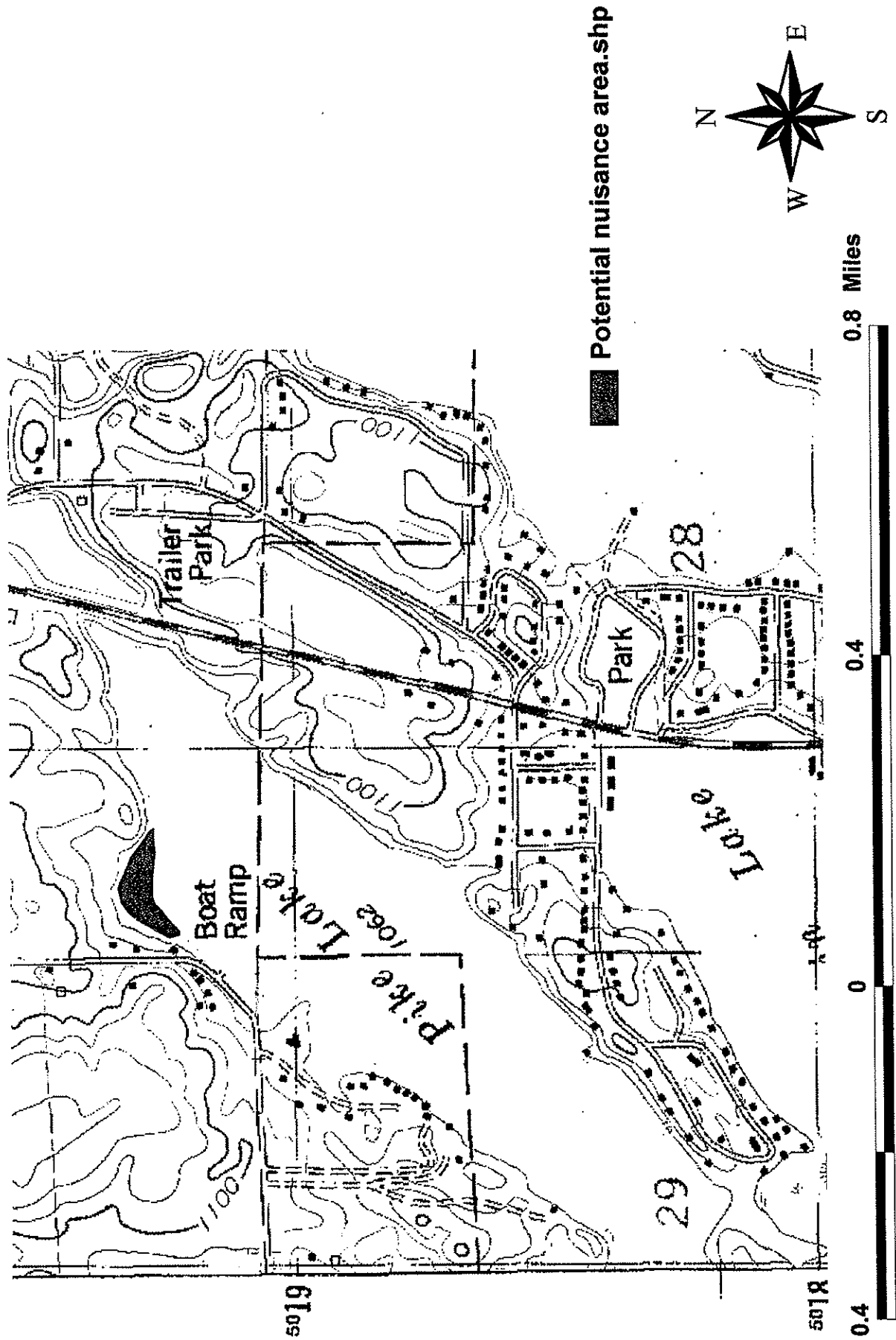
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0

0.4

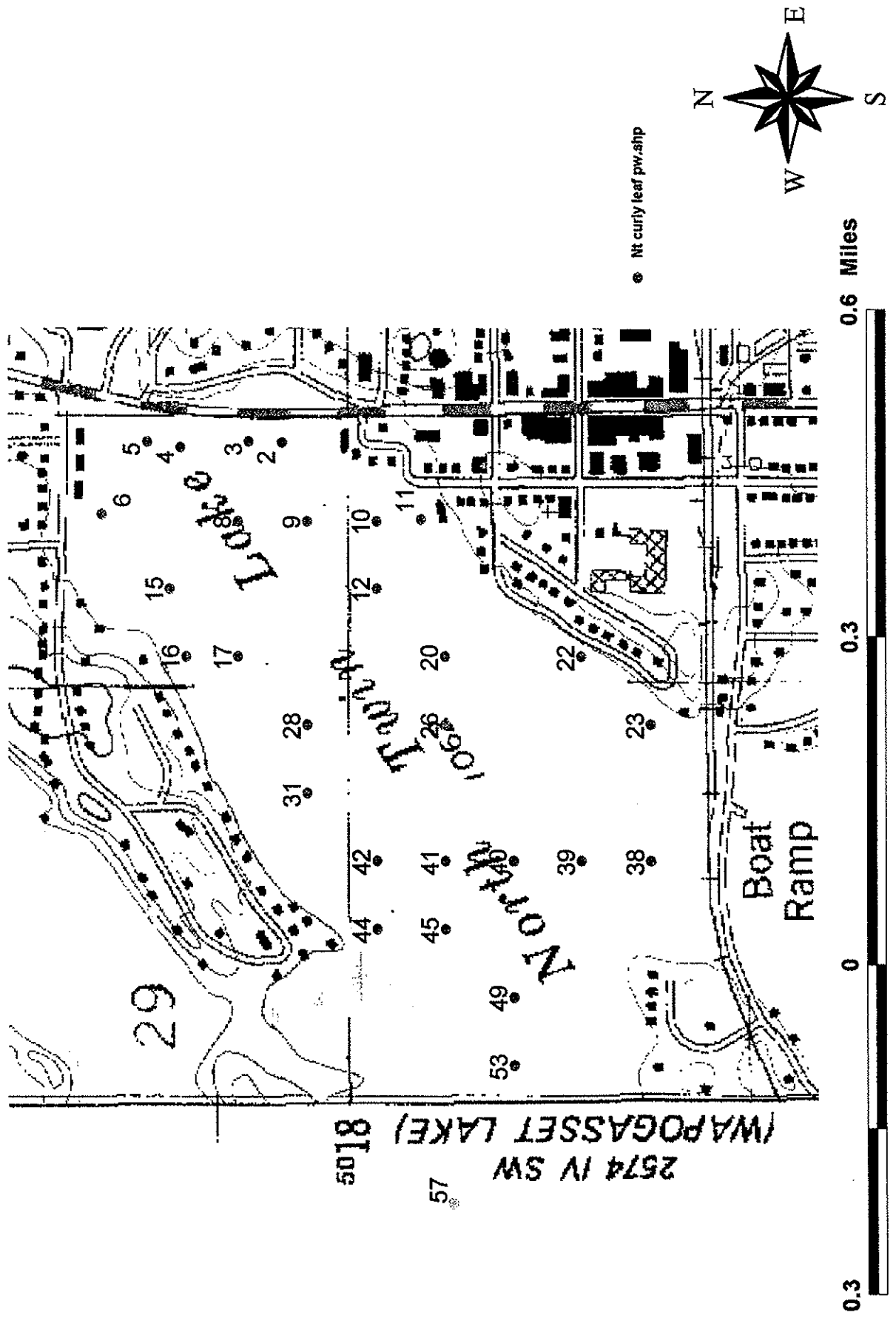
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Potential Nuisance Area

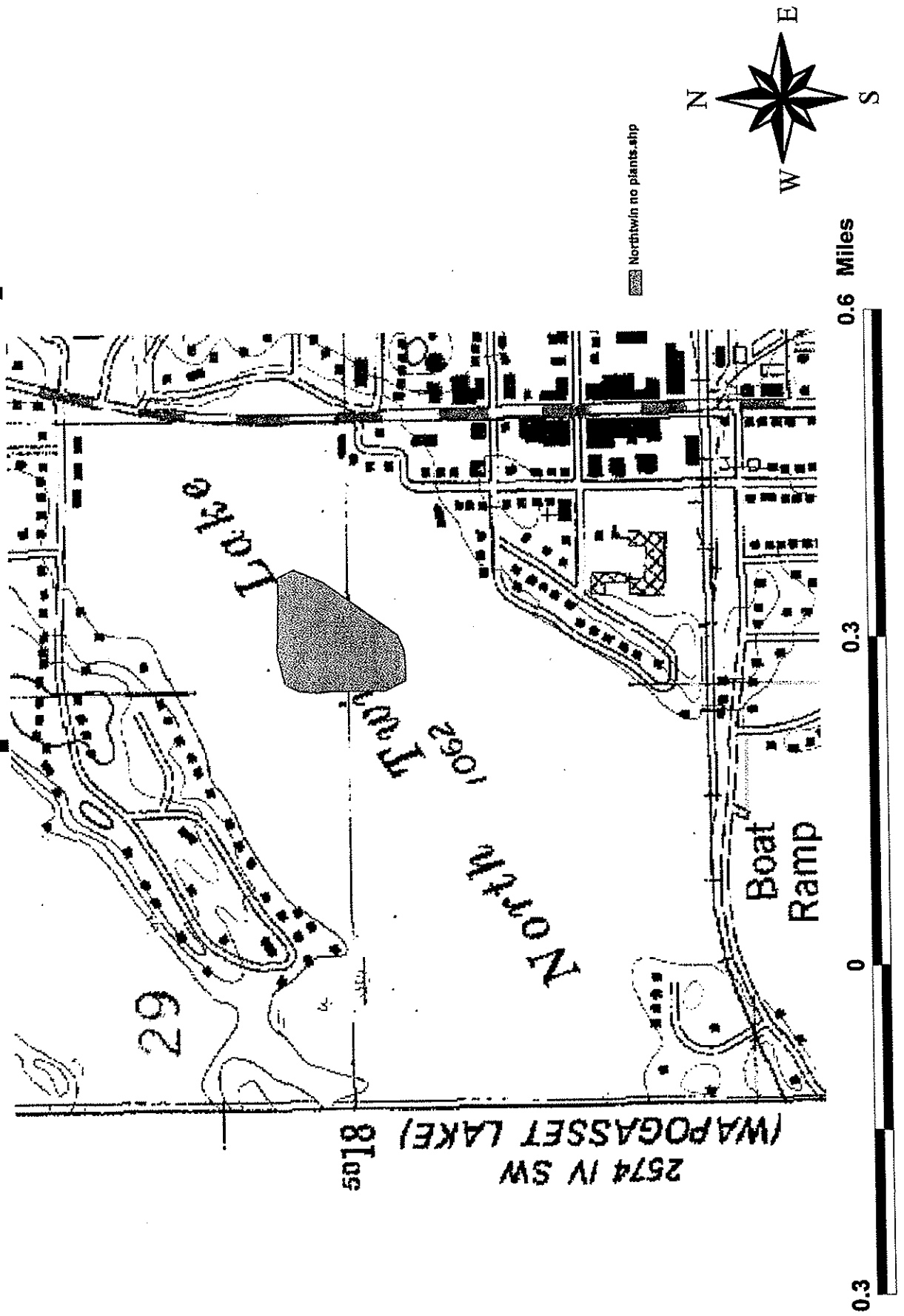


0.3

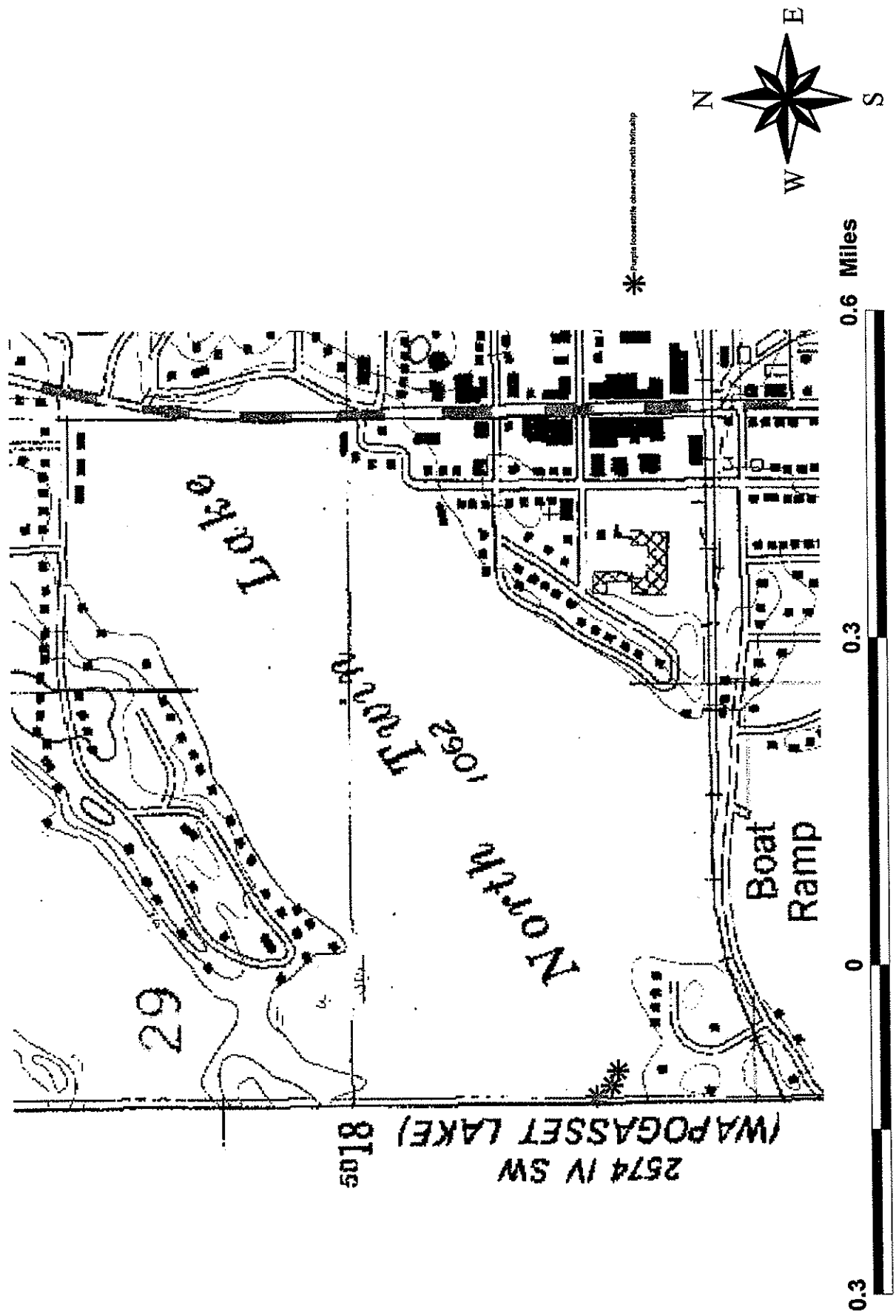
Points sampled with curly leaf pondweed



Area without plants sampled



Observed purple loosestrife on North Twin Lake



APPENDIX O

Water Quality Analytical Reports

SECTION A

Wisconsin Department of Natural Resources

Laboratory Report

06/06/2002

Lab: 113133790

Sample: IM023239

Page 1 of 2

Laboratory: Wisconsin State Laboratory of Hygiene
2601 Agriculture Dr
Madison WI 53707
Phone: 800-442-4618 Fax Phone: 608-224-6276

DNR ID 113133790

Sample:

Field #: PL-SUR	Sample #: IM023239
Collection Start: 05/20/2002 08:45 am	Collection End:
Collected by: SCHIEFFER	Waterbody/Outfall Id: 2624000
ID #: 493059	ID Point #:
County: Polk	Account #: LM008
Sample Location: PIKE LAKE	
Sample Description: DEEP HOLE - SURFACE	
Sample Source: SU	Sample Depth: M0.5-2.0
Date Reported: 06/06/2002	Sample Status: COMPLETE
Project No: LPL801	

Analyses and Results:

Analysis Method		Analysis Date	Lab Comment				
TEMPERATURE ON RECEIPT-FROZEN		05/21/2002					
Code	Description	Cas No	Result	Units	LOD	Report Limit	LOQ
136	TEMPERATURE AT LAB	E1645696	FROZEN	C		0	

Analysis Method		Analysis Date	Lab Comment				
CHLOROPHYLL A, UNCORRECTED, LAB 05/21/2002 (SM 10200H)		05/21/2002	SAMPLE RECEIVED FROZEN, NO TEST DONE				
Code	Description	Cas No	Result	Units	LOD	Report Limit	LOQ
32210	CHLOROPHYLL A UNCORRECTED	479618	**	UG/L		1.	

Analysis Method		Analysis Date	Lab Comment				
AMMONIA (AS N), DISS (EPA 350.1)		05/23/2002	SAMPLE RECEIVED FROZEN, RESULT APPROXIMATE				
Code	Description	Cas No	Result	Units	LOD	Report Limit	LOQ
608	NITROGEN NH3-N DISS	7664417	*0.028	MGL	0.013		0.042

Analysis Method		Analysis Date	Lab Comment				
NITRATE+NITRITE (AS N), DISS (EPA 353.2)		05/23/2002	SAMPLE RECEIVED FROZEN, RESULT APPROXIMATE				
Code	Description	Cas No	Result	Units	LOD	Report Limit	LOQ
631	NITROGEN NO3+NO2 DISS (AS N)	E701177	*0.045	MGL	0.01		0.031

Analysis Method		Analysis Date	Lab Comment				
TOTAL KJELDAHL NITROGEN (AS N) (EPA 351.2)		05/31/2002	SAMPLE RECEIVED FROZEN, RESULT APPROXIMATE				
Code	Description	Cas No	Result	Units	LOD	Report Limit	LOQ
625	NITROGEN KJELDAHL TOTAL	E1644079	*0.31	MGL	0.14		0.4

Wisconsin Department of Natural Resources

Laboratory Report

06/06/2002

Lab: 113133790

Sample: IM023239

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Analysis Method		Analysis Date	Lab Comment				
TOTAL PHOSPHORUS (AS P) (EPA 365.1)		05/29/2002	SAMPLE RECEIVED FROZEN, RESULT APPROXIMATE				
Code	Description	Cas No	Result	Units	LOD	Report Limit	LOQ
665	PHOSPHORUS TOTAL	7723140	*0.019	MGL	0.005		0.016

Analysis Method		Analysis Date	Lab Comment				
DISS REACTIVE PHOSPHORUS AS P (ORTHO P)(SM 4500PE)		05/21/2002	SAMPLE RECEIVED FROZEN, RESULT APPROXIMATE				
Code	Description	Cas No	Result	Units	LOD	Report Limit	LOQ
671	PHOSPHATE ORTHO DISS	7723140	*0.002	MGL	0.002		0.006

Analysis Method		Analysis Date	Lab Comment				
SUSPENDED SOLIDS (EPA METHOD 160.2)		05/23/2002	SAMPLE RECEIVED FROZEN, RESULT APPROXIMATE				
Code	Description	Cas No	Result	Units	LOD	Report Limit	LOQ
530	RESIDUE TOTAL NFLT (TOTAL SUSPENDED SOLIDS)	E1642818	*30	MGL	2		7

**Wisconsin Department of Natural Resources
Laboratory Report**

06/06/2002

Lab: 113133790

Sample: IM023240

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Laboratory: Wisconsin State Laboratory of Hygiene

DNR ID 113133790

2601 Agriculture Dr

Madison

WI 53707

Phone : 800-442-4618

Fax Phone : 608-224-6276

Sample:

Field #: PL-BOT

Sample #: IM023240

Collection Start: 05/20/2002 09:00 am

Collection End:

Collected by: SCHIEFFER

Waterbody/Outfall Id: 2624000

ID #: 493059

ID Point #:

County: Polk

Account #: LM008

Sample Location: PIKE LAKE

Sample Description: DEEP HOLE - BOTTOM

Sample Source: SU

Sample Depth: M008

Date Reported: 06/06/2002

Sample Status: COMPLETE

Project No: LPL801

Analyses and Results:

Analysis Method		Analysis Date	Lab Comment				
AMMONIA (AS N), DISS (EPA 350.1)		05/23/2002	SAMPLE RECEIVED FROZEN, RESULT APPROXIMATE				
Code	Description	Cas No	Result	Units	LOD	Report Limit	LOQ
608	NITROGEN NH3-N DISS	7664417	*0.075	MGL	0.013		0.042

Analysis Method		Analysis Date	Lab Comment				
NITRATE+NITRITE (AS N), DISS (EPA 353.1)		05/23/2002	SAMPLE RECEIVED FROZEN, RESULT APPROXIMATE				
Code	Description	Cas No	Result	Units	LOD	Report Limit	LOQ
631	NITROGEN NO3+NO2 DISS (AS N)	E701177	*0.063	MGL	0.01		0.031

Analysis Method		Analysis Date	Lab Comment				
TOTAL KJELDAHL NITROGEN (AS N) (EPA 351.2)		05/31/2002	SAMPLE RECEIVED FROZEN, RESULT APPROXIMATE				
Code	Description	Cas No	Result	Units	LOD	Report Limit	LOQ
625	NITROGEN KJELDAHL TOTAL	E1644079	*0.31	MGL	0.14		0.4

Analysis Method		Analysis Date	Lab Comment				
TOTAL PHOSPHORUS (AS P) (EPA 365.1)		05/29/2002	SAMPLE RECEIVED FROZEN, RESULT APPROXIMATE				
Code	Description	Cas No	Result	Units	LOD	Report Limit	LOQ
665	PHOSPHORUS TOTAL	7723140	*0.023	MGL	0.005		0.016

Analysis Method		Analysis Date	Lab Comment				
DISS REACTIVE PHOSPHORUS AS P (ORTHO P)(SM 4500PE)		06/01/2002	SAMPLE RECEIVED FROZEN, RESULT APPROXIMATE				
Code	Description	Cas No	Result	Units	LOD	Report Limit	LOQ
671	PHOSPHATE ORTHO DISS	7723140	*0.003	MGL	0.002		0.006

Wisconsin Department of Natural Resources
Laboratory Report

06/06/2002

Lab: 113133790

Sample: IM023240

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Analysis Method		Analysis Date		Lab Comment			
SUSPENDED SOLIDS (EPA METHOD 160.2)		05/23/2002		SAMPLE RECEIVED FROZEN, RESULT APPROXIMATE			
Code	Description	Cas No	Result	Units	LOD	Report Limit	LOQ
530	RESIDUE TOTAL NFLT (TOTAL SUSPENDED SOLIDS)	E1642818	*32	MGL	2		7

Analysis Method		Analysis Date		Lab Comment			
TEMPERATURE ON RECEIPT-FROZEN		05/21/2002					
Code	Description	Cas No	Result	Units	LOD	Report Limit	LOQ
136	TEMPERATURE AT LAB	E1645696	FROZEN	C		0	

Wisconsin Department of Natural Resources

Laboratory Report

06/06/2002

Lab: 113133790

Sample: IM023241

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Laboratory: Wisconsin State Laboratory of Hygiene
2601 Agriculture Dr
Madison
Phone : 800-442-4618

WI 53707
Fax Phone : 608-224-6276

DNR ID 113133790

Sample:

Field #: PL-OUT
Collection Start: 05/20/2002 09:10 am
Collected by: SCHIEFFER
ID #: 493204
County: Polk
Sample Location: PIKE LAKE AT OUTLET
Sample Description:
Sample Source: SU
Date Reported: 06/06/2002
Project No: LPL801

Sample #: IM023241
Collection End:
Waterbody/Outfall Id: 2624000
ID Point #:
Account #: LM008

Sample Depth: M0.5
Sample Status: COMPLETE

Analyses and Results:

Analysis Method		Analysis Date	Lab Comment				
AMMONIA (AS N), DISS (EPA 350.1)		05/23/2002	SAMPLE RECEIVED FROZEN, RESULT APPROXIMATE				
Code	Description	Cas No	Result	Units	LOD	Report Limit	LOQ
608	NITROGEN NH3-N DISS	7664417	*0.023	MGL	0.013		0.042

Analysis Method		Analysis Date	Lab Comment				
NITRATE+NITRITE (AS N), DISS (EPA 353.1)		05/23/2002	SAMPLE RECEIVED FROZEN, RESULT APPROXIMATE				
Code	Description	Cas No	Result	Units	LOD	Report Limit	LOQ
631	NITROGEN NO3+NO2 DISS (AS N)	E701177	*0.036	MGL	0.01		0.031

Analysis Method		Analysis Date	Lab Comment				
TOTAL KJELDAHL NITROGEN (AS N) (EPA 351.2)		05/31/2002	SAMPLE RECEIVED FROZEN, RESULT APPROXIMATE				
Code	Description	Cas No	Result	Units	LOD	Report Limit	LOQ
625	NITROGEN KJELDAHL TOTAL	E1644079	*0.38	MGL	0.14		0.4

Analysis Method		Analysis Date	Lab Comment				
TOTAL PHOSPHORUS (AS P) (EPA 365.1)		05/29/2002	SAMPLE RECEIVED FROZEN, RESULT APPROXIMATE				
Code	Description	Cas No	Result	Units	LOD	Report Limit	LOQ
665	PHOSPHORUS TOTAL	7723140	*0.019	MGL	0.005		0.016

Analysis Method		Analysis Date	Lab Comment				
DISS REACTIVE PHOSPHORUS AS P (ORTHOPHOSPHATE) (SM 4500PE)		06/01/2002	SAMPLE RECEIVED FROZEN, RESULT APPROXIMATE				
Code	Description	Cas No	Result	Units	LOD	Report Limit	LOQ
671	PHOSPHATE ORTHO DISS	7723140	*ND	MGL	0.002		0.006

Wisconsin Department of Natural Resources
Laboratory Report

06/06/2002

Lab: 113133790

Sample: IM023241

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Analysis Method		Analysis Date		Lab Comment			
SUSPENDED SOLIDS (EPA METHOD 160.2)		05/23/2002		SAMPLE RECEIVED FROZEN, RESULT APPROXIMATE			
Code	Description	Cas No	Result	Units	LOD	Report Limit	LOQ
530	RESIDUE TOTAL NFLT (TOTAL SUSPENDED SOLIDS)	E1642818	*28	MGL	2		7

Analysis Method		Analysis Date		Lab Comment			
TEMPERATURE ON RECEIPT-FROZEN		05/21/2002					
Code	Description	Cas No	Result	Units	LOD	Report Limit	LOQ
136	TEMPERATURE AT LAB	E1645696	FROZEN	C		0	

**Wisconsin Department of Natural Resources
Laboratory Report**

07/01/2002

Lab: 113133790

Sample: IM025567

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Laboratory: Wisconsin State Laboratory of Hygiene

DNR ID 113133790

2601 Agriculture Dr

Madison

WI 53707

Phone : 800-442-4618

Fax Phone : 608-224-6276

Sample:

Field #: PK-S

Sample #: IM025567

Collection Start: 06/11/2002 09:05 am

Collection End:

Collected by: SCHIEFFER

Waterbody/Outfall Id: 2624000

ID #: 493059

ID Point #:

County: Polk

Account #: LM008

Sample Location: PIKE LAKE

Sample Description: DEEP HOLE - SURFACE

Sample Source: SU

Sample Depth: M0.5

Date Reported: 06/28/2002

Sample Status: COMPLETE

Project No: LPL801

Analyses and Results:

Analysis Method		Analysis Date		Lab Comment			
VOLUME LAB FILT FOR CHLOROPHYLL A		06/17/2002					
(SM 10200H)							
Code	Description	Cas No	Result	Units	LOD	Report Limit	LOQ
32000	SAMPLE SIZE LITERS		500	ML			

Analysis Method		Analysis Date		Lab Comment			
CHLOROPHYLL A, UNCORRECTED, LAB		06/18/2002		INSTRUMENT DOWN, OTHER METHOD USED			
(SM 10200H)							
Code	Description	Cas No	Result	Units	LOD	Report Limit	LOQ
32210	CHLOROPHYLL A UNCORRECTED	479618	**	UG/L		1.	

Analysis Method		Analysis Date		Lab Comment			
CHLOROPHYLL A, FLUORESCENCE, FF		06/18/2002					
(WELSCHMEYER 1994)							
Code	Description	Cas No	Result	Units	LOD	Report Limit	LOQ
99717	CHLOROPHYLL A, FLUORESCENCE (WELSCHMEYER 1994)	479618	3.37	UG/L	0.26		0.87

Analysis Method		Analysis Date		Lab Comment			
AMMONIA (AS N), DISS (EPA 350.1)		06/14/2002					
Code	Description	Cas No	Result	Units	LOD	Report Limit	LOQ
608	NITROGEN NH3-N DISS	7664417	ND	MG/L	0.013		0.042

Analysis Method		Analysis Date		Lab Comment			
NITRATE+NITRITE (AS N), DISS (EPA 353.2)		06/14/2002					

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07/01/2002

Lab: 113133790

Sample: IM025567

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Code	Description	Cas No	Result	Units	LOD	Report Limit	LOQ
631	NITROGEN NO3+NO2 DISS (AS N)	E701177	ND	MGL	0.01		0.031

Analysis Method		Analysis Date		Lab Comment			
TOTAL KJELDAHL NITROGEN (AS N) (EPA 351.2)		06/18/2002					
Code	Description	Cas No	Result	Units	LOD	Report Limit	LOQ
625	NITROGEN KJELDAHL TOTAL	E1644079	0.49	MGL	0.14		0.4

Analysis Method		Analysis Date		Lab Comment			
TOTAL PHOSPHORUS (AS P) (EPA 365.1)		06/12/2002					
Code	Description	Cas No	Result	Units	LOD	Report Limit	LOQ
665	PHOSPHORUS TOTAL	7723140	0.020	MGL	0.005		0.016

Analysis Method		Analysis Date		Lab Comment			
DISS REACTIVE PHOSPHORUS AS P (ORTHOPHOSPHATE) (SM 4500PE)		06/12/2002					
Code	Description	Cas No	Result	Units	LOD	Report Limit	LOQ
671	PHOSPHATE ORTHO DISS	7723140	ND	MGL	0.002		0.006

Analysis Method		Analysis Date		Lab Comment			
SUSPENDED SOLIDS (EPA METHOD 160.2)		06/13/2002					
Code	Description	Cas No	Result	Units	LOD	Report Limit	LOQ
530	RESIDUE TOTAL NFLT (TOTAL SUSPENDED SOLIDS)	E1642818	6.	MGL	2		7

Analysis Method		Analysis Date		Lab Comment			
TEMPERATURE ON RECEIPT-ICED		06/12/2002					
Code	Description	Cas No	Result	Units	LOD	Report Limit	LOQ
136	TEMPERATURE AT LAB	E1645696	ICED	C		0	

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Sample: IM025569

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Laboratory: Wisconsin State Laboratory of Hygiene

DNR ID 113133790

2601 Agriculture Dr

Madison

WI 53707

Phone : 800-442-4618

Fax Phone : 608-224-6276

Sample:

Field #: PK-B

Sample #: IM025569

Collection Start: 06/11/2002 09:08 am

Collection End:

Collected by: SCHIEFFER

Waterbody/Outfall Id: 2624000

ID #: 493059

ID Point #:

County: Polk

Account #: LM008

Sample Location: PIKE LAKE

Sample Description: DEEP HOLE - BOTTOM

Sample Source: SU

Sample Depth: M007

Date Reported: 06/25/2002

Sample Status: COMPLETE

Project No: LPL801

Analyses and Results:

Analysis Method		Analysis Date		Lab Comment			
AMMONIA (AS N), DISS (EPA 350.1)		06/14/2002					
Code	Description	Cas No	Result	Units	LOD	Report Limit	LOQ
608	NITROGEN NH3-N DISS	7664417	0.589	MGL	0.013		0.042

Analysis Method		Analysis Date		Lab Comment			
NITRATE+NITRITE (AS N), DISS (EPA 353.1)		06/14/2002					
Code	Description	Cas No	Result	Units	LOD	Report Limit	LOQ
631	NITROGEN NO3+NO2 DISS (AS N)	E701177	ND	MGL	0.01		0.031

Analysis Method		Analysis Date		Lab Comment			
TOTAL KJELDAHL NITROGEN (AS N) (EPA 351.2)		06/18/2002					
Code	Description	Cas No	Result	Units	LOD	Report Limit	LOQ
625	NITROGEN KJELDAHL TOTAL	E1644079	1.66	MGL	0.14		0.4

Analysis Method		Analysis Date		Lab Comment			
TOTAL PHOSPHORUS (AS P) (EPA 365.1)		06/12/2002					
Code	Description	Cas No	Result	Units	LOD	Report Limit	LOQ
665	PHOSPHORUS TOTAL	7723140	0.277	MGL	0.005		0.016

Analysis Method		Analysis Date		Lab Comment			
DISS REACTIVE PHOSPHORUS AS P (ORTHOPHOSPHATE) (SM 4500PE)		06/12/2002					
Code	Description	Cas No	Result	Units	LOD	Report Limit	LOQ
671	PHOSPHATE ORTHO DISS	7723140	0.003	MGL	0.002		0.006

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Lab: 113133790

Sample: IM025569

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Analysis Method		Analysis Date		Lab Comment			
SUSPENDED SOLIDS (EPA METHOD 160.2)		06/13/2002					
Code	Description	Cas No	Result	Units	LOD	Report Limit	LOQ
530	RESIDUE TOTAL NFLT (TOTAL SUSPENDED SOLIDS)	E1642818	15.	MGL	2		7

Analysis Method		Analysis Date		Lab Comment			
TEMPERATURE ON RECEIPT-ICED		06/12/2002					
Code	Description	Cas No	Result	Units	LOD	Report Limit	LOQ
136	TEMPERATURE AT LAB	E1645696	ICED	C		0	

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Lab: 113133790

Sample: IM025568

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Laboratory: Wisconsin State Laboratory of Hygiene

DNR ID 113133790

2601 Agriculture Dr

Madison

WI 53707

Phone: 800-442-4618

Fax Phone: 608-224-6276

Sample:

Field #: PK-O

Sample #: IM025568

Collection Start: 06/11/2002 09:20 am

Collection End:

Collected by: SCHIEFFER

Waterbody/Outfall Id: 2624000

ID #: 493204

ID Point #:

County: Polk

Account #: LM008

Sample Location: PIKE LAKE AT OUTLET

Sample Description: LAKE WATER

Sample Source: SU

Sample Depth: M0.5

Date Reported: 06/25/2002

Sample Status: COMPLETE

Project No: LPL801

Analyses and Results:

Analysis Method		Analysis Date		Lab Comment			
AMMONIA (AS N), DISS (EPA 350.1)		06/14/2002					
Code	Description	Cas No	Result	Units	LOD	Report Limit	LOQ
608	NITROGEN NH3-N DISS	7664417	0.017	MGL	0.013		0.042

Analysis Method		Analysis Date		Lab Comment			
NITRATE+NITRITE (AS N), DISS (EPA 353.2)		06/14/2002					
Code	Description	Cas No	Result	Units	LOD	Report Limit	LOQ
631	NITROGEN NO3+NO2 DISS (AS N)	E701177	ND	MGL	0.01		0.031

Analysis Method		Analysis Date		Lab Comment			
TOTAL KJELDAHL NITROGEN (AS N) (EPA 351.2)		06/18/2002					
Code	Description	Cas No	Result	Units	LOD	Report Limit	LOQ
625	NITROGEN KJELDAHL TOTAL	E1644079	0.54	MGL	0.14		0.4

Analysis Method		Analysis Date		Lab Comment			
TOTAL PHOSPHORUS (AS P) (EPA 365.1)		06/12/2002					
Code	Description	Cas No	Result	Units	LOD	Report Limit	LOQ
665	PHOSPHORUS TOTAL	7723140	0.018	MGL	0.005		0.016

Analysis Method		Analysis Date		Lab Comment			
DISS REACTIVE PHOSPHORUS AS P (ORTHOPHOSPHATE) (SM 4500PE)		06/12/2002					
Code	Description	Cas No	Result	Units	LOD	Report Limit	LOQ
671	PHOSPHATE ORTHO DISS	7723140	ND	MGL	0.002		0.006

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Sample: IM025568

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Analysis Method		Analysis Date		Lab Comment			
SUSPENDED SOLIDS (EPA METHOD 160.2)		06/13/2002					
Code	Description	Cas No	Result	Units	LOD	Report Limit	LOQ
530	RESIDUE TOTAL NFLT (TOTAL SUSPENDED SOLIDS)	E1642818	6.	MGL	2		7

Analysis Method		Analysis Date		Lab Comment			
TEMPERATURE ON RECEIPT-ICED		06/12/2002					
Code	Description	Cas No	Result	Units	LOD	Report Limit	LOQ
136	TEMPERATURE AT LAB	E1645696	ICED	C		0	

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Lab: 113133790

Sample: IN000834

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Laboratory: Wisconsin State Laboratory of Hygiene

DNR ID 113133790

2601 Agriculture Dr

Madison

WI 53707

Phone : 800-442-4618

Fax Phone : 608-224-6276

Sample:

Field #: PL-SUR

Sample #: IN000834

Collection Start: 07/10/2002 11:00 am

Collection End:

Collected by: SCHIEFFER

Waterbody/Outfall Id: 2624000

ID #: 493059

ID Point #:

County: Polk

Account #: LM009

Sample Location: PIKE LAKE

Sample Description: DEEP HOLE - SURFACE

Sample Source: SU

Sample Depth: M0.5

Date Reported: 08/19/2002

Sample Status: COMPLETE

Project No: LPL801

Analyses and Results:

Analysis Method		Analysis Date		Lab Comment			
VOLUME LAB FILT FOR CHLOROPHYLL A		07/17/2002		(SM 10200H)			
Code	Description	Cas No	Result	Units	LOD	Report Limit	LOQ
32000	SAMPLE SIZE LITERS		300	ML			

Analysis Method		Analysis Date		Lab Comment			
CHLOROPHYLL A, FLUORESCENCE		07/17/2002		(WELSCHMEYER 1994)			
Code	Description	Cas No	Result	Units	LOD	Report Limit	LOQ
99717	CHLOROPHYLL A, FLUORESCENCE (WELSCHMEYER 1994)	479618	1.53	UG/L	0.26		0.87

Analysis Method		Analysis Date		Lab Comment			
AMMONIA (AS N), DISS (EPA 350.1)		07/17/2002					
Code	Description	Cas No	Result	Units	LOD	Report Limit	LOQ
608	NITROGEN NH3-N DISS	7664417	ND	MGL	0.013		0.042

Analysis Method		Analysis Date		Lab Comment			
NITRATE+NITRITE (AS N), DISS (EPA 353.2)		07/17/2002					
Code	Description	Cas No	Result	Units	LOD	Report Limit	LOQ
631	NITROGEN NO3+NO2 DISS (AS N)	E701177	ND	MGL	0.01		0.031

Analysis Method		Analysis Date		Lab Comment			
TOTAL KJELDAHL NITROGEN (AS N) (EPA 351.2)		07/19/2002					

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Lab: 113133790

Sample: IN000834

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Code	Description	Cas No	Result	Units	LOD	Report Limit	LOQ
625	NITROGEN KJELDAHL TOTAL	E1644079	0.45	MGL	0.14		0.4

Analysis Method		Analysis Date		Lab Comment			
TOTAL PHOSPHORUS (AS P) (EPA 365.1)		07/16/2002					
Code	Description	Cas No	Result	Units	LOD	Report Limit	LOQ
665	PHOSPHORUS TOTAL	7723140	0.014	MGL	0.005		0.016

Analysis Method		Analysis Date		Lab Comment			
DISS REACTIVE PHOSPHORUS AS P (ORTHOPHOSPHATE) (SM 4500PE)		07/11/2002					
Code	Description	Cas No	Result	Units	LOD	Report Limit	LOQ
671	PHOSPHATE ORTHO DISS	7723140	0.003	MGL	0.002		0.006

Analysis Method		Analysis Date		Lab Comment			
SUSPENDED SOLIDS (EPA METHOD 160.2)		07/11/2002					
Code	Description	Cas No	Result	Units	LOD	Report Limit	LOQ
530	RESIDUE TOTAL NFLT (TOTAL SUSPENDED SOLIDS)	E1642818	3.	MGL	2		7

Analysis Method		Analysis Date		Lab Comment			
TEMPERATURE ON RECEIPT-ICED		07/11/2002					
Code	Description	Cas No	Result	Units	LOD	Report Limit	LOQ
136	TEMPERATURE AT LAB	E1645696	ICED	C		0	

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Sample: IN000837

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Laboratory: Wisconsin State Laboratory of Hygiene

DNR ID 113133790

2601 Agriculture Dr

Madison

WI 53707

Phone : 800-442-4618

Fax Phone : 608-224-6276

Sample:

Field #: PL-BOT

Sample #: IN000837

Collection Start: 07/10/2002 11:10 am

Collection End:

Collected by: SCHIEFFER

Waterbody/Outfall Id: 2624000

ID #: 493059

ID Point #:

County: Polk

Account #: LM009

Sample Location: PIKE LAKE

Sample Description: DEEP HOLE - BOTTOM

Sample Source: SU

Sample Depth: M010

Date Reported: 07/24/2002

Sample Status: COMPLETE

Project No: LPL801

Analyses and Results:

Analysis Method		Analysis Date		Lab Comment			
AMMONIA (AS N), DISS (EPA 350.1)		07/17/2002					
Code	Description	Cas No	Result	Units	LOD	Report Limit	LOQ
608	NITROGEN NH3-N DISS	7664417	1.04	MGL	0.013		0.042

Analysis Method		Analysis Date		Lab Comment			
NITRATE+NITRITE (AS N), DISS (EPA 353.2)		07/17/2002					
Code	Description	Cas No	Result	Units	LOD	Report Limit	LOQ
631	NITROGEN NO3+NO2 DISS (AS N)	E701177	ND	MGL	0.01		0.031

Analysis Method		Analysis Date		Lab Comment			
TOTAL KJELDAHL NITROGEN (AS N) (EPA 351.2)		07/19/2002					
Code	Description	Cas No	Result	Units	LOD	Report Limit	LOQ
625	NITROGEN KJELDAHL TOTAL	E1644079	1.71	MGL	0.14		0.4

Analysis Method		Analysis Date		Lab Comment			
TOTAL PHOSPHORUS (AS P) (EPA 365.1)		07/16/2002					
Code	Description	Cas No	Result	Units	LOD	Report Limit	LOQ
665	PHOSPHORUS TOTAL	7723140	0.297	MGL	0.005		0.016

Analysis Method		Analysis Date		Lab Comment			
DISS REACTIVE PHOSPHORUS AS P (ORTHOPHOSPHATE) (SM 4500PE)		07/11/2002					
Code	Description	Cas No	Result	Units	LOD	Report Limit	LOQ
671	PHOSPHATE ORTHO DISS	7723140	0.004	MGL	0.002		0.006

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Sample: IN000837

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Analysis Method		Analysis Date		Lab Comment			
SUSPENDED SOLIDS (EPA METHOD 160.2)		07/11/2002					
Code	Description	Cas No	Result	Units	LOD	Report Limit	LOQ
530	RESIDUE TOTAL NFLT (TOTAL SUSPENDED SOLIDS)	E1642818	170.	MGL	2		7

Analysis Method		Analysis Date		Lab Comment			
TEMPERATURE ON RECEIPT-ICED		07/11/2002					
Code	Description	Cas No	Result	Units	LOD	Report Limit	LOQ
136	TEMPERATURE AT LAB	E1645696	ICED	C		0	

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Lab: 113133790

Sample: IN000838

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Laboratory: Wisconsin State Laboratory of Hygiene
2601 Agriculture Dr
Madison WI 53707
Phone : 800-442-4618 Fax Phone : 608-224-6276

DNR ID 113133790

Sample:

Field #: PL-OUT	Sample #: IN000838
Collection Start: 07/10/2002 11:20 am	Collection End:
Collected by: SCHIEFFER	Waterbody/Outfall Id: 2624000
ID #: 493204	ID Point #:
County: Polk	Account #: LM009
Sample Location: PIKE LAKE AT OUTLET	
Sample Description:	
Sample Source: SU	Sample Depth: M0.5
Date Reported: 07/24/2002	Sample Status: COMPLETE
Project No: LPL801	

Analyses and Results:

Analysis Method		Analysis Date	Lab Comment				
AMMONIA (AS N), DISS (EPA 350.1)		07/17/2002					
Code	Description	Cas No	Result	Units	LOD	Report Limit	LOQ
608	NITROGEN NH3-N DISS	7664417	ND	MGL	0.013		0.042

Analysis Method		Analysis Date	Lab Comment				
NITRATE+NITRITE (AS N), DISS (EPA 353.2)		07/17/2002					
Code	Description	Cas No	Result	Units	LOD	Report Limit	LOQ
631	NITROGEN NO3+NO2 DISS (AS N)	E701177	ND	MGL	0.01		0.031

Analysis Method		Analysis Date	Lab Comment				
TOTAL KJELDAHL NITROGEN (AS N) (EPA 351.2)		07/19/2002					
Code	Description	Cas No	Result	Units	LOD	Report Limit	LOQ
625	NITROGEN KJELDAHL TOTAL	E1644079	0.43	MGL	0.14		0.4

Analysis Method		Analysis Date	Lab Comment				
TOTAL PHOSPHORUS (AS P) (EPA 365.1)		07/16/2002					
Code	Description	Cas No	Result	Units	LOD	Report Limit	LOQ
665	PHOSPHORUS TOTAL	7723140	0.016	MGL	0.005		0.016

Analysis Method		Analysis Date	Lab Comment				
DISS REACTIVE PHOSPHORUS AS P (ORTHOPHOSPHATE) (SM 4500PE)		07/11/2002					
Code	Description	Cas No	Result	Units	LOD	Report Limit	LOQ
671	PHOSPHATE ORTHO DISS	7723140	ND	MGL	0.002		0.006

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Lab: 113133790

Sample: IN000838

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Analysis Method		Analysis Date		Lab Comment			
SUSPENDED SOLIDS (EPA METHOD 160.2)		07/15/2002					
Code	Description	Cas No	Result	Units	LOD	Report Limit	LOQ
530	RESIDUE TOTAL NFLT (TOTAL SUSPENDED SOLIDS)	E1642818	3.	MG/L	2		7

Analysis Method		Analysis Date		Lab Comment			
TEMPERATURE ON RECEIPT-ICED		07/11/2002					
Code	Description	Cas No	Result	Units	LOD	Report Limit	LOQ
136	TEMPERATURE AT LAB	E1645696	ICED	C		0	

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08/29/2002

Lab: 113133790

Sample: IN003315

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Laboratory: Wisconsin State Laboratory of Hygiene

DNR ID 113133790

2601 Agriculture Dr

Madison

WI 53707

Phone : 800-442-4618

Fax Phone : 608-224-6276

Sample:

Field #: PL-SUR

Sample #: IN003315

Collection Start: 08/07/2002 09:30 am

Collection End:

Collected by: SCHIEFFER

Waterbody/Outfall Id: 2624000

ID #: 493059

ID Point #:

County: Polk

Account #: LM009

Sample Location: PIKE LAKE

Sample Description: DEEP HOLE-SURFACE

Sample Source: SU

Sample Depth: M0.5

Date Reported: 08/28/2002

Sample Status: COMPLETE

Project No: LPL801

Analyses and Results:

Analysis Method		Analysis Date		Lab Comment			
VOLUME LAB FILT FOR CHLOROPHYLL (SM 10200H)		08/16/2002					
Code	Description	Cas No	Result	Units	LOD	Report Limit	LOQ
32000	SAMPLE SIZE LITERS		200	ML			

Analysis Method		Analysis Date		Lab Comment			
CHLOROPHYLL A, FLUORESCENCE (WELSCHMEYER 1994)		08/16/2002					
Code	Description	Cas No	Result	Units	LOD	Report Limit	LOQ
99717	CHLOROPHYLL A, FLUORESCENCE (WELSCHMEYER 1994)	479618	5.31	UG/L	0.26		0.87

Analysis Method		Analysis Date		Lab Comment			
AMMONIA (AS N), DISS (EPA 350.1)		08/15/2002					
Code	Description	Cas No	Result	Units	LOD	Report Limit	LOQ
608	NITROGEN NH3-N DISS	7664417	0.038	MG/L	0.013		0.042

Analysis Method		Analysis Date		Lab Comment			
NITRATE+NITRITE (AS N), DISS (EPA 353.2)		08/15/2002					
Code	Description	Cas No	Result	Units	LOD	Report Limit	LOQ
631	NITROGEN NO3+NO2 DISS (AS N)	E701177	ND	MG/L	0.01		0.031

Analysis Method		Analysis Date		Lab Comment			
TOTAL KJELDAHL NITROGEN (AS N) (EPA 351.2)		08/14/2002					

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Laboratory Report

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Lab: 113133790

Sample: IN003315

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Code	Description	Cas No	Result	Units	LOD	Report Limit	LOQ
625	NITROGEN KJELDAHL TOTAL	E1644079	0.49	MGL	0.14		0.4

Analysis Method		Analysis Date		Lab Comment			
TOTAL PHOSPHORUS (AS P) (EPA 365.1)		08/12/2002					
Code	Description	Cas No	Result	Units	LOD	Report Limit	LOQ
665	PHOSPHORUS TOTAL	7723140	0.015	MGL	0.005		0.016

Analysis Method		Analysis Date		Lab Comment			
DISS REACTIVE PHOSPHORUS AS P (ORTHOPHOSPHATE) (SM 4500PE)		08/08/2002					
Code	Description	Cas No	Result	Units	LOD	Report Limit	LOQ
671	PHOSPHATE ORTHO DISS	7723140	ND	MGL	0.002		0.006

Analysis Method		Analysis Date		Lab Comment			
SUSPENDED SOLIDS (EPA METHOD 160.2)		08/09/2002					
Code	Description	Cas No	Result	Units	LOD	Report Limit	LOQ
530	RESIDUE TOTAL NFLT (TOTAL SUSPENDED SOLIDS)	E1642818	3.	MGL	2		7

Analysis Method		Analysis Date		Lab Comment			
TEMPERATURE ON RECEIPT-ICED		08/08/2002					
Code	Description	Cas No	Result	Units	LOD	Report Limit	LOQ
136	TEMPERATURE AT LAB	E1645696	ICED	C		0	

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08/29/2002

Lab: 113133790

Sample: IN003314

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Laboratory: Wisconsin State Laboratory of Hygiene

DNR ID 113133790

2601 Agriculture Dr

Madison

WI 53707

Phone : 800-442-4618

Fax Phone : 608-224-6276

Sample:

Field #: PL-BOT

Sample #: IN003314

Collection Start: 08/07/2002 09:40 am

Collection End:

Collected by: SCHIEFFER

Waterbody/Outfall Id: 2624000

ID #: 493059

ID Point #:

County: Polk

Account #: LM009

Sample Location: PIKE LAKE

Sample Description: DEEP HOLE-BOTTOM

Sample Source: SU

Sample Depth: M009

Date Reported: 08/28/2002

Sample Status: COMPLETE

Project No: LPL801

Analyses and Results:

Analysis Method		Analysis Date		Lab Comment			
AMMONIA (AS N), DISS (EPA 350.1)		08/15/2002					
Code	Description	Cas No	Result	Units	LOD	Report Limit	LOQ
608	NITROGEN NH3-N DISS	7664417	1.36	MGL	0.013		0.042

Analysis Method		Analysis Date		Lab Comment			
NITRATE+NITRITE (AS N), DISS (EPA 353.0)		08/15/2002					
Code	Description	Cas No	Result	Units	LOD	Report Limit	LOQ
631	NITROGEN NO3+NO2 DISS (AS N)	E701177	0.138	MGL	0.01		0.031

Analysis Method		Analysis Date		Lab Comment			
TOTAL KJELDAHL NITROGEN (AS N) (EPA 351.2)		08/14/2002					
Code	Description	Cas No	Result	Units	LOD	Report Limit	LOQ
625	NITROGEN KJELDAHL TOTAL	E1644079	2.43	MGL	0.14		0.4

Analysis Method		Analysis Date		Lab Comment			
TOTAL PHOSPHORUS (AS P) (EPA 365.1)		08/12/2002					
Code	Description	Cas No	Result	Units	LOD	Report Limit	LOQ
665	PHOSPHORUS TOTAL	7723140	0.410	MGL	0.005		0.016

Analysis Method		Analysis Date		Lab Comment			
DISS REACTIVE PHOSPHORUS AS P (ORTHOPHOSPHATE) (SM 4500PE)		08/20/2002					
Code	Description	Cas No	Result	Units	LOD	Report Limit	LOQ
671	PHOSPHATE ORTHO DISS	7723140	0.003	MGL	0.002		0.006

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Laboratory Report

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Lab: 113133790

Sample: IN003314

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Analysis Method		Analysis Date		Lab Comment			
SUSPENDED SOLIDS (EPA METHOD 160.2)		08/09/2002					
Code	Description	Cas No	Result	Units	LOD	Report Limit	LOQ
530	RESIDUE TOTAL NFLT (TOTAL SUSPENDED SOLIDS)	E1642818	29.	MGL	2		7

Analysis Method		Analysis Date		Lab Comment			
TEMPERATURE ON RECEIPT-ICED		08/08/2002					
Code	Description	Cas No	Result	Units	LOD	Report Limit	LOQ
136	TEMPERATURE AT LAB	E1645696	ICED	C		0	

**Wisconsin Department of Natural Resources
Laboratory Report**

08/29/2002

Lab: 113133790

Sample: IN003313

Page 1 of 2

Laboratory: Wisconsin State Laboratory of Hygiene

DNR ID 113133790

2601 Agriculture Dr

Madison

WI 53707

Phone : 800-442-4618

Fax Phone : 608-224-6276

Sample:

Field #: **PL-OUT**

Sample #: **IN003313**

Collection Start: **08/07/2002 09:45 am**

Collection End:

Collected by: **SCHIEFFER**

Waterbody/Outfall Id: **2624000**

ID #: **493204**

ID Point #:

County: **Polk**

Account #: **LM009**

Sample Location: **PIKE LAKE**

Sample Description: **AT OUTLET**

Sample Source: **SU**

Sample Depth: **M0.5**

Date Reported: **08/28/2002**

Sample Status: **COMPLETE**

Project No: **LPL806 801**

Analyses and Results:

Analysis Method		Analysis Date		Lab Comment			
SUSPENDED SOLIDS (EPA METHOD 160.2)		08/09/2002					
Code	Description	Cas No	Result	Units	LOD	Report Limit	LOQ
530	RESIDUE TOTAL NFLT (TOTAL SUSPENDED SOLIDS)	E1642818	2.	MGL	2		7

Analysis Method		Analysis Date		Lab Comment			
TEMPERATURE ON RECEIPT-ICED		08/08/2002					
Code	Description	Cas No	Result	Units	LOD	Report Limit	LOQ
136	TEMPERATURE AT LAB	E1645696	ICED	C		0	

Analysis Method		Analysis Date		Lab Comment			
AMMONIA (AS N), DISS (EPA 350.1)		08/15/2002					
Code	Description	Cas No	Result	Units	LOD	Report Limit	LOQ
608	NITROGEN NH3-N DISS	7664417	0.014	MGL	0.013		0.042

Analysis Method		Analysis Date		Lab Comment			
NITRATE+NITRITE (AS N), DISS (EPA 353.2)		08/15/2002					
Code	Description	Cas No	Result	Units	LOD	Report Limit	LOQ
631	NITROGEN NO3+NO2 DISS (AS N)	E701177	ND	MGL	0.01		0.031

Analysis Method		Analysis Date		Lab Comment			
TOTAL KJELDAHL NITROGEN (AS N) (EPA 351.2)		08/14/2002					
Code	Description	Cas No	Result	Units	LOD	Report Limit	LOQ
625	NITROGEN KJELDAHL TOTAL	E1644079	0.53	MGL	0.14		0.4

Wisconsin Department of Natural Resources
Laboratory Report

08/29/2002

Lab: 113133790

Sample: IN003313

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Analysis Method		Analysis Date	Lab Comment				
TOTAL PHOSPHORUS (AS P) (EPA 365.1)		08/12/2002					
Code	Description	Cas No	Result	Units	LOD	Report Limit	LOQ
665	PHOSPHORUS TOTAL	7723140	0.015	MGL	0.005		0.016

Analysis Method		Analysis Date	Lab Comment				
DISS REACTIVE PHOSPHORUS AS P (ORTHOPHOSPHATE) (SM 4500PE)		08/12/2002					
Code	Description	Cas No	Result	Units	LOD	Report Limit	LOQ
671	PHOSPHATE ORTHO DISS	7723140	ND	MGL	0.002		0.006

Wisconsin Department of Natural Resources

Laboratory Report

10/25/2002

Lab: 113133790

Sample: IN007172

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Laboratory: Wisconsin State Laboratory of Hygiene
2601 Agriculture Dr
Madison WI 53707
Phone: 800-442-4618 Fax Phone: 608-224-6276

DNR ID 113133790

Sample:

Field #: SL-SUR	Sample #: IN007172
Collection Start: 09/18/2002 02:00 pm	Collection End:
Collected by: SCHIEFFER	Waterbody/Outfall Id: 2624000
ID #: 493059	ID Point #:
County: Polk	Account #: LM009
Sample Location: PIKE LAKE	
Sample Description: DEEP HOLE - SURFACE	
Sample Source: SU	Sample Depth:
Date Reported: 10/25/2002	Sample Status: COMPLETE
Project No: LPL801	

Analyses and Results:

Analysis Method		Analysis Date	Lab Comment				
SUSPENDED SOLIDS (EPA METHOD 160.2)		09/25/2002					
Code	Description	Cas No	Result	Units	LOD	Report Limit	LOQ
530	RESIDUE TOTAL NFLT (TOTAL SUSPENDED SOLIDS)	E1642818	3.	MGL	2		7

Analysis Method		Analysis Date	Lab Comment				
TEMPERATURE ON RECEIPT-ICED		09/19/2002					
Code	Description	Cas No	Result	Units	LOD	Report Limit	LOQ
136	TEMPERATURE AT LAB	E1645696	ICED	C		0	

Analysis Method		Analysis Date	Lab Comment				
VOLUME LAB FILT FOR CHLOROPHYLL A		10/01/2002					
(SM 10200H)							
Code	Description	Cas No	Result	Units	LOD	Report Limit	LOQ
32000	SAMPLE SIZE LITERS		200	ML			

Analysis Method		Analysis Date	Lab Comment				
CHLOROPHYLL A, FLUORESCENCE		10/02/2002					
(WELSCHMEYER 1994)							
Code	Description	Cas No	Result	Units	LOD	Report Limit	LOQ
99717	CHLOROPHYLL A, FLUORESCENCE (WELSCHMAYER 1994)	479618	7.48	UG/L	0.26		0.87

Analysis Method		Analysis Date	Lab Comment				
AMMONIA (AS N), DISS (EPA 350.1)		10/08/2002					
Code	Description	Cas No	Result	Units	LOD	Report Limit	LOQ

Wisconsin Department of Natural Resources
Laboratory Report

10/25/2002

Lab: 113133790

Sample: IN007172

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Code	Description	Cas No	Result	Units	LOD	Report Limit	LOQ
608	NITROGEN NH3-N DISS	7664417	0.030	MGL	0.013		0.042

Analysis Method		Analysis Date		Lab Comment			
NITRATE+NITRITE (AS N), DISS (EPA 353.2)		10/08/2002					
Code	Description	Cas No	Result	Units	LOD	Report Limit	LOQ
631	NITROGEN NO3+NO2 DISS (AS N)	E701177	ND	MGL	0.022		0.075

Analysis Method		Analysis Date		Lab Comment			
TOTAL KJELDAHL NITROGEN (AS N) (EPA 351.2)		09/24/2002					
Code	Description	Cas No	Result	Units	LOD	Report Limit	LOQ
625	NITROGEN KJELDAHL TOTAL	E1644079	0.58	MGL	0.14		0.4

Analysis Method		Analysis Date		Lab Comment			
TOTAL PHOSPHORUS (AS P) (EPA 365.1)		09/20/2002					
Code	Description	Cas No	Result	Units	LOD	Report Limit	LOQ
665	PHOSPHORUS TOTAL	7723140	0.015	MGL	0.005		0.016

Analysis Method		Analysis Date		Lab Comment			
DISS REACTIVE PHOSPHORUS AS P (ORTHO P)(SM 4500PE)		10/19/2002					
Code	Description	Cas No	Result	Units	LOD	Report Limit	LOQ
671	PHOSPHATE ORTHO DISS	7723140	0.002	MGL	0.002		0.006

Wisconsin Department of Natural Resources

Laboratory Report

10/15/2002

Lab: 113133790

Sample: IN007170

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Laboratory: Wisconsin State Laboratory of Hygiene

DNR ID 113133790

2601 Agriculture Dr

Madison

WI 53707

Phone: 800-442-4618

Fax Phone: 608-224-6276

Sample:

Field #: PL-BOT

Sample #: IN007170

Collection Start: 09/18/2002 02:00 pm

Collection End:

Collected by: SCHIEFFER

Waterbody/Outfall Id: 2624000

ID #: 493059

ID Point #:

County: Polk

Account #: LM009

Sample Location: PIKE LAKE

Sample Description: DEEP HOLE - BOTTOM

Sample Source: SU

Sample Depth:

Date Reported: 10/15/2002

Sample Status: COMPLETE

Project No: LPL801

Analyses and Results:

Analysis Method		Analysis Date		Lab Comment			
SUSPENDED SOLIDS (EPA METHOD 160.2)		09/25/2002					
Code	Description	Cas No	Result	Units	LOD	Report Limit	LOQ
530	RESIDUE TOTAL NFLT (TOTAL SUSPENDED SOLIDS)	E1642818	40.	MGL	2		7

Analysis Method		Analysis Date		Lab Comment			
TEMPERATURE ON RECEIPT-ICED		09/19/2002					
Code	Description	Cas No	Result	Units	LOD	Report Limit	LOQ
136	TEMPERATURE AT LAB	E1645696	ICED	C		0	

Analysis Method		Analysis Date		Lab Comment			
AMMONIA (AS N), DISS (EPA 350.1)		10/08/2002					
Code	Description	Cas No	Result	Units	LOD	Report Limit	LOQ
608	NITROGEN NH3-N DISS	7664417	2.51	MGL	0.013		0.042

Analysis Method		Analysis Date		Lab Comment			
NITRATE+NITRITE (AS N), DISS (EPA 353.2)		10/08/2002					
Code	Description	Cas No	Result	Units	LOD	Report Limit	LOQ
631	NITROGEN NO3+NO2 DISS (AS N)	E701177	ND	MGL	0.022		0.075

Analysis Method		Analysis Date		Lab Comment			
TOTAL KJELDAHL NITROGEN (AS N) (EPA 351.2)		09/24/2002					
Code	Description	Cas No	Result	Units	LOD	Report Limit	LOQ
625	NITROGEN KJELDAHL TOTAL	E1644079	3.99	MGL	0.14		0.4

Wisconsin Department of Natural Resources
Laboratory Report

10/15/2002

Lab: 113133790

Sample: IN007170

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Analysis Method		Analysis Date	Lab Comment				
TOTAL PHOSPHORUS (AS P) (EPA 365.1)		09/20/2002					
Code	Description	Cas No	Result	Units	LOD	Report Limit	LOQ
665	PHOSPHORUS TOTAL	7723140	0.814	MGL	0.005		0.016

Analysis Method		Analysis Date	Lab Comment				
DISS REACTIVE PHOSPHORUS AS P (ORTHO P)(SM 4500PE)		09/20/2002					
Code	Description	Cas No	Result	Units	LOD	Report Limit	LOQ
671	PHOSPHATE ORTHO DISS	7723140	0.002	MGL	0.002		0.006

Wisconsin Department of Natural Resources
Laboratory Report

10/15/2002

Lab: 113133790

Sample: IN007171

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Laboratory: Wisconsin State Laboratory of Hygiene
 2601 Agriculture Dr
 Madison WI 53707
 Phone : 800-442-4618 Fax Phone : 608-224-6276

DNR ID 113133790

Sample:

Field #: PL-OUT Collection Start: 09/18/2002 02:00 pm Collected by: SCHIEFFER ID #: 493204 County: Polk Sample Location: PIKE LAKE Sample Description: AT OUTLET Sample Source: SU Date Reported: 10/15/2002 Project No: LPL801	Sample #: IN007171 Collection End: Waterbody/Outfall Id: 2624000 ID Point #: Account #: LM009 Sample Depth: Sample Status: COMPLETE
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Analyses and Results:

Analysis Method		Analysis Date		Lab Comment			
AMMONIA (AS N), DISS (EPA 350.1)		10/08/2002					
Code	Description	Cas No	Result	Units	LOD	Report Limit	LOQ
608	NITROGEN NH3-N DISS	7664417	ND	MGL	0.013		0.042

Analysis Method		Analysis Date		Lab Comment			
NITRATE+NITRITE (AS N), DISS (EPA 353.1)		10/08/2002					
Code	Description	Cas No	Result	Units	LOD	Report Limit	LOQ
631	NITROGEN NO3+NO2 DISS (AS N)	E701177	ND	MGL	0.022		0.075

Analysis Method		Analysis Date		Lab Comment			
TOTAL KJELDAHL NITROGEN (AS N) (EPA 351.2)		09/24/2002					
Code	Description	Cas No	Result	Units	LOD	Report Limit	LOQ
625	NITROGEN KJELDAHL TOTAL	E1644079	0.44	MGL	0.14		0.4

Analysis Method		Analysis Date		Lab Comment			
TOTAL PHOSPHORUS (AS P) (EPA 365.1)		09/20/2002					
Code	Description	Cas No	Result	Units	LOD	Report Limit	LOQ
665	PHOSPHORUS TOTAL	7723140	0.014	MGL	0.005		0.016

Analysis Method		Analysis Date		Lab Comment			
DISS REACTIVE PHOSPHORUS AS P (ORTHOPHOSPHATE) (SM 4500PE)		10/19/2002					
Code	Description	Cas No	Result	Units	LOD	Report Limit	LOQ
671	PHOSPHATE ORTHO DISS	7723140	ND	MGL	0.002		0.006

Wisconsin Department of Natural Resources
Laboratory Report

10/15/2002

Lab: 113133790

Sample: IN007171

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Analysis Method		Analysis Date		Lab Comment			
SUSPENDED SOLIDS (EPA METHOD 160.2)		09/25/2002					
Code	Description	Cas No	Result	Units	LOD	Report Limit	LOQ
530	RESIDUE TOTAL NFLT (TOTAL SUSPENDED SOLIDS)	E1642818	ND	MGL	2		7

Analysis Method		Analysis Date		Lab Comment			
TEMPERATURE ON RECEIPT-ICED		09/19/2002					
Code	Description	Cas No	Result	Units	LOD	Report Limit	LOQ
136	TEMPERATURE AT LAB	E1645696	ICED	C		0	

Laboratory Report

Entered

08/01/2003

Lab: 113133790

Sample: IN022886

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Laboratory: Wisconsin State Laboratory of Hygiene
 2601 Agriculture Dr.
 Madison WI 53718
 Phone: 800-442-4618 Fax Phone: 608-224-6276

DNR ID 113133790

Sample:

Field #: PL-SUR Sample #: IN022886
 Collection Start: 06/05/2003 01:00 pm Collection End:
 Collected by: SCHIEFFER Waterbody/Outfall Id: 2624000
 ID #: 493059 ID Point #:
 County: Polk Account #: LM009
 Sample Location: PIKE LAKE
 Sample Description: DEEP HOLE - SURFACE
 Sample Source: SU Sample Depth: M0.05
 Date Reported: 07/28/2003 Sample Status: COMPLETE
 Project No: LPL801

Analyses and Results:

Analysis Method		Analysis Date		Lab Comment			
VOLUME LAB FILT FOR CHLOROPHYLL A		06/19/2003					
Code	Description	Cas No	Result	Units	LOD	Report Limit	LOQ
32000	SAMPLE SIZE LITERS		200	ML			

Analysis Method		Analysis Date		Lab Comment			
CHLOROPHYLL A, FLUORESCENCE (WELS)		06/20/2003					
Code	Description	Cas No	Result	Units	LOD	Report Limit	LOQ
99717	CHLOROPHYLL A, FLUORESCENCE (WELSCHMAYER 1994)	479618	3.79	UG/L	0.26		0.87

Analysis Method		Analysis Date		Lab Comment			
AMMONIA (AS N), DISS (EPA 350.1)		06/12/2003					
Code	Description	Cas No	Result	Units	LOD	Report Limit	LOQ
608	NITROGEN NH3-N DISS	7664417	0.019	MGL	0.013		0.042

Analysis Method		Analysis Date		Lab Comment			
NITRATE+NITRITE (AS N), DISS (EPA 353.2)		06/18/2003					
Code	Description	Cas No	Result	Units	LOD	Report Limit	LOQ
631	NITROGEN NO3+NO2 DISS (AS N)	E701177	ND	MGL	0.022		0.075

Analysis Method		Analysis Date		Lab Comment			
TOTAL KJELDAHL NITROGEN (AS N) (EPA 306.20)		06/20/2003					
Code	Description	Cas No	Result	Units	LOD	Report Limit	LOQ
625	NITROGEN KJELDAHL TOTAL	E1644079	0.26	MGL	0.14		0.4

Wisconsin Department of Natural Resources
Laboratory Report

08/01/2003

Lab: 113133790

Sample: IN022886

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Analysis Method		Analysis Date		Lab Comment			
TOTAL PHOSPHORUS (AS P) (EPA 365.1)		06/12/2003					
Code	Description	Cas No	Result	Units	LOD	Report Limit	LOQ
665	PHOSPHORUS TOTAL	7723140	0.019	MGL	0.005		0.016

Analysis Method		Analysis Date		Lab Comment			
DISS REACTIVE PHOSPHORUS AS P (ORTH06/06/2003							
Code	Description	Cas No	Result	Units	LOD	Report Limit	LOQ
671	PHOSPHATE ORTHO DISS	7723140	ND	MGL	0.002		0.006

Analysis Method		Analysis Date		Lab Comment			
SUSPENDED SOLIDS (EPA METHOD 160.2)		06/10/2003					
Code	Description	Cas No	Result	Units	LOD	Report Limit	LOQ
530	RESIDUE TOTAL NFLT (TOTAL SUSPENDED SOLIDS)	E1642818	5.	MGL	2		7

Analysis Method		Analysis Date		Lab Comment			
TEMPERATURE ON RECEIPT-ICED		06/06/2003					
Code	Description	Cas No	Result	Units	LOD	Report Limit	LOQ
136	TEMPERATURE AT LAB	E1645696	ICED	C		0	

Wisconsin Department of Natural Resources

Laboratory Report

06/30/2003

Lab: 113133790

Sample: IN022889

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Laboratory: Wisconsin State Laboratory of Hygiene

DNR ID 113133790

2601 Agriculture Dr.

Madison

WI 53718

Phone: 800-442-4618

Fax Phone: 608-224-6276

Sample:

Field #: PL-BOT

Sample #: IN022889

Collection Start: 06/05/2003 01:00 pm

Collection End:

Collected by: SCHEFFER

Waterbody/Outfall Id: 2624000

ID #: 493059

ID Point #:

County: Polk

Account #: LM009

Sample Location: PIKE LAKE

Sample Description: DEEP HOLE - BOTTOM

Sample Source: SU

Sample Depth: M10

Date Reported: 06/27/2003

Sample Status: COMPLETE

Project No: LPL801

Analyses and Results:

Analysis Method		Analysis Date		Lab Comment			
AMMONIA (AS N), DISS (EPA 350.1)		06/12/2003					
Code	Description	Cas No	Result	Units	LOD	Report Limit	LOQ
608	NITROGEN NH3-N DISS	7664417	0.642	MGL	0.013		0.042

Analysis Method		Analysis Date		Lab Comment			
NITRATE+NITRITE (AS N), DISS (EPA 353.2)		06/18/2003					
Code	Description	Cas No	Result	Units	LOD	Report Limit	LOQ
631	NITROGEN NO3+NO2 DISS (AS N)	E701177	ND	MGL	0.022		0.075

Analysis Method		Analysis Date		Lab Comment			
TOTAL KJELDAHL NITROGEN (AS N) (EPA 360.20/2003)							
Code	Description	Cas No	Result	Units	LOD	Report Limit	LOQ
625	NITROGEN KJELDAHL TOTAL	E1644079	3.82	MGL	0.14		0.4

Analysis Method		Analysis Date		Lab Comment			
TOTAL PHOSPHORUS (AS P) (EPA 365.1)		06/12/2003					
Code	Description	Cas No	Result	Units	LOD	Report Limit	LOQ
665	PHOSPHORUS TOTAL	7723140	1.21	MGL	0.005		0.016

Analysis Method		Analysis Date		Lab Comment			
DISS REACTIVE PHOSPHORUS AS P (ORTHO) (EPA 365.1)		06/06/2003					
Code	Description	Cas No	Result	Units	LOD	Report Limit	LOQ
671	PHOSPHATE ORTHO DISS	7723140	0.025	MGL	0.002		0.006

Analysis Method		Analysis Date		Lab Comment			
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Wisconsin Department of Natural Resources
Laboratory Report

06/30/2003

Lab: 113133790

Sample: IN022889

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SUSPENDED SOLIDS (EPA METHOD 160.2) 06/10/2003

Code	Description	Cas No	Result	Units	LOD	Report Limit	LOQ
530	RESIDUE TOTAL NFLT (TOTAL SUSPENDED SOLIDS)	E1642818	94.	MGL	2		7

Analysis Method

Analysis Date Lab Comment

TEMPERATURE ON RECEIPT-ICED

06/06/2003

Code	Description	Cas No	Result	Units	LOD	Report Limit	LOQ
136	TEMPERATURE AT LAB	E1645696	ICED	C		0	

Wisconsin Department of Natural Resources

Laboratory Report

06/30/2003

Lab: 113133790

Sample: IN022888

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Laboratory: Wisconsin State Laboratory of Hygiene

DNR ID 113133790

2601 Agriculture Dr.

Madison

WI 53718

Phone: 800-442-4618

Fax Phone: 608-224-6276

Sample:

Field #: PL-OUT

Sample #: IN022888

Collection Start: 06/05/2003 01:00 pm

Collection End:

Collected by: SCHIEFFER

Waterbody/Outfall Id: 2624000

ID #: 493204

ID Point #:

County: Polk

Account #: LM009

Sample Location: PIKE LAKE AT OUTLET

Sample Description:

Sample Source: SU

Sample Depth: M0.5

Date Reported: 06/27/2003

Sample Status: COMPLETE

Project No: LPL801

Analyses and Results:

Analysis Method		Analysis Date		Lab Comment			
AMMONIA (AS N), DISS (EPA 350.1)		06/12/2003					
Code	Description	Cas No	Result	Units	LOD	Report Limit	LOQ
608	NITROGEN NH3-N DISS	7664417	0.059	MGL	0.013		0.042

Analysis Method		Analysis Date		Lab Comment			
NITRATE+NITRITE (AS N), DISS (EPA 353.2)		06/18/2003					
Code	Description	Cas No	Result	Units	LOD	Report Limit	LOQ
631	NITROGEN NO3+NO2 DISS (AS N)	E701177	ND	MGL	0.022		0.075

Analysis Method		Analysis Date		Lab Comment			
TOTAL KJELDAHL NITROGEN (AS N) (EPA 36/20/2003)							
Code	Description	Cas No	Result	Units	LOD	Report Limit	LOQ
625	NITROGEN KJELDAHL TOTAL	E1644079	0.40	MGL	0.14		0.4

Analysis Method		Analysis Date		Lab Comment			
TOTAL PHOSPHORUS (AS P) (EPA 365.1)		06/12/2003					
Code	Description	Cas No	Result	Units	LOD	Report Limit	LOQ
665	PHOSPHORUS TOTAL	7723140	0.020	MGL	0.005		0.016

Analysis Method		Analysis Date		Lab Comment			
DISS REACTIVE PHOSPHORUS AS P (ORTHO)		06/06/2003					
Code	Description	Cas No	Result	Units	LOD	Report Limit	LOQ
671	PHOSPHATE ORTHO DISS	7723140	ND	MGL	0.002		0.006

Analysis Method		Analysis Date		Lab Comment			
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Wisconsin Department of Natural Resources
Laboratory Report

06/30/2003

Lab: 113133790

Sample: IN022888

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SUSPENDED SOLIDS (EPA METHOD 160.2) 06/10/2003

Code	Description	Cas No	Result	Units	LOD	Report Limit	LOQ
530	RESIDUE TOTAL NFLT (TOTAL SUSPENDED SOLIDS)	E1642818	5.	MGL	2		7

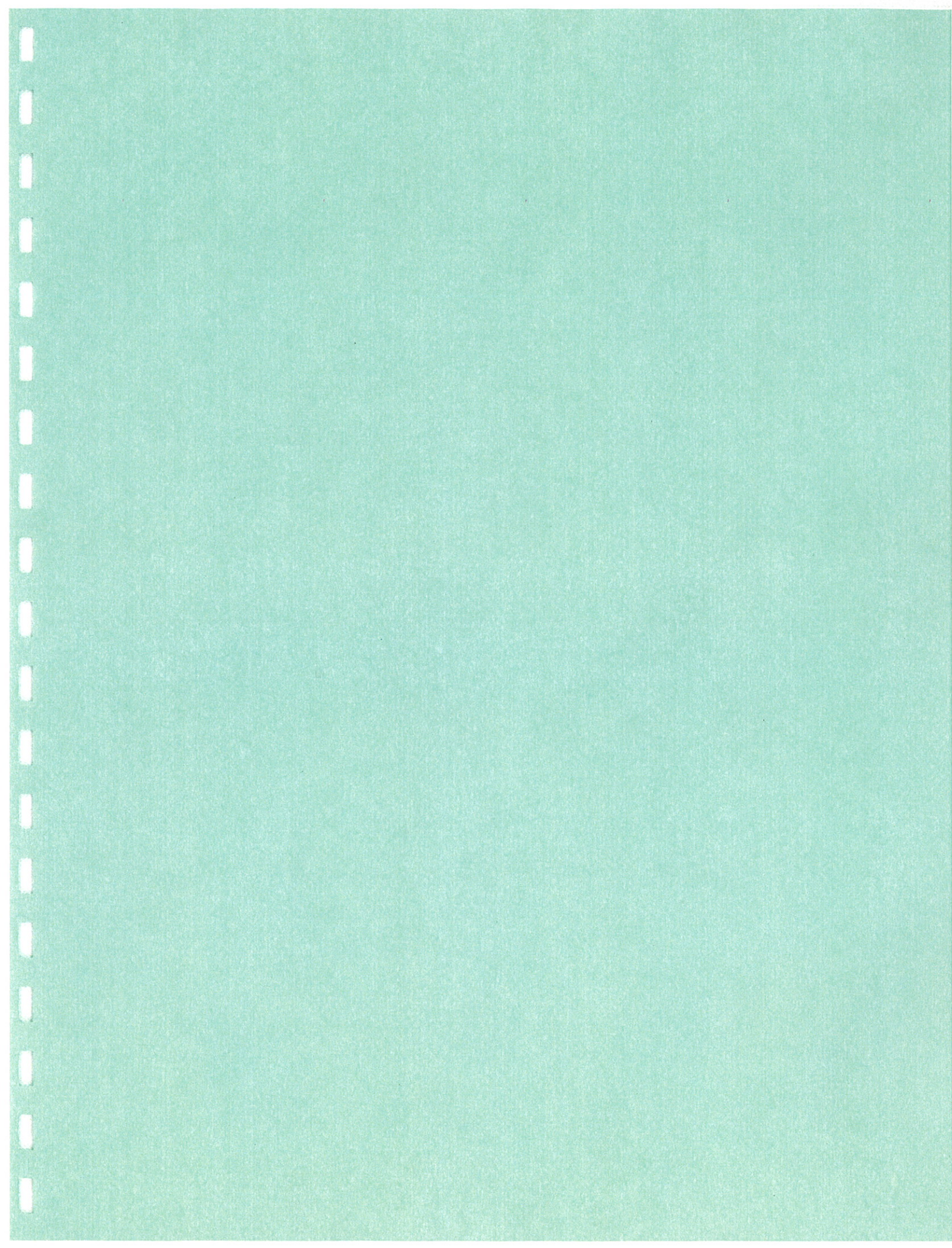
Analysis Method

Analysis Date Lab Comment

TEMPERATURE ON RECEIPT-ICED

06/06/2003

Code	Description	Cas No	Result	Units	LOD	Report Limit	LOQ
136	TEMPERATURE AT LAB	E1645696	ICED C			0	



Wisconsin Department of Natural Resources
Laboratory Report

06/04/2002

Lab: 113133790

Sample: IM022633

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Laboratory: Wisconsin State Laboratory of Hygiene

DNR ID 113133790

2601 Agriculture Dr

Madison

WI 53707

Phone: 800-442-4618

Fax Phone: 608-224-6276

Sample:

Field #: PL-RNF

Sample #: IM022633

Collection Start: 05/08/2002 06:50 pm

Collection End:

Collected by: SCHIEFFER

Waterbody/Outfall Id:

ID #:

ID Point #:

County: Polk

Account #: LM008

Sample Location: STORM WATER DISCHARGE PIPE TO PIKE LAKE

Sample Description: STORM WATER RUNOFF SAMPLE

Sample Source: NP

Sample Depth:

Date Reported: 06/04/2002

Sample Status: COMPLETE

Project No: LPL801

Analyses and Results:

Analysis Method		Analysis Date		Lab Comment			
AMMONIA (AS N), DISS (EPA 350.1)		05/14/2002					
Code	Description	Cas No	Result	Units	LOD	Report Limit	LOQ
608	NITROGEN NH3-N DISS	7664417	1.23	MGL	0.013		0.042

Analysis Method		Analysis Date		Lab Comment			
NITRATE+NITRITE (AS N), DISS (EPA 353.2)		05/14/2002					
Code	Description	Cas No	Result	Units	LOD	Report Limit	LOQ
631	NITROGEN NO3+NO2 DISS (AS N)	E701177	0.828	MGL	0.01		0.031

Analysis Method		Analysis Date		Lab Comment			
TOTAL KJELDAHL NITROGEN (AS N) (EPA 351.2)		05/22/2002					
Code	Description	Cas No	Result	Units	LOD	Report Limit	LOQ
625	NITROGEN KJELDAHL TOTAL	E1644079	2.15	MGL	0.14		0.4

Analysis Method		Analysis Date		Lab Comment			
TOTAL PHOSPHORUS (AS P) (EPA 365.1)		05/15/2002					
Code	Description	Cas No	Result	Units	LOD	Report Limit	LOQ
665	PHOSPHORUS TOTAL	7723140	0.268	MGL	0.005		0.016

Analysis Method		Analysis Date		Lab Comment			
DISS REACTIVE PHOSPHORUS AS P (ORTHOPHOSPHATE) (SM 4500PE)		06/10/2002					
Code	Description	Cas No	Result	Units	LOD	Report Limit	LOQ
671	PHOSPHATE ORTHO DISS	7723140	0.038	MGL	0.002		0.006

Wisconsin Department of Natural Resources

Laboratory Report

06/04/2002

Lab: 113133790

Sample: IM022633

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Analysis Method		Analysis Date		Lab Comment			
SUSPENDED SOLIDS (EPA METHOD 160.2)		05/14/2002					
Code	Description	Cas No	Result	Units	LOD	Report Limit	LOQ
530	RESIDUE TOTAL NFLT (TOTAL SUSPENDED SOLIDS)	E1642818	88.	MGL	2		7

Analysis Method		Analysis Date		Lab Comment			
TEMPERATURE ON RECEIPT-ICED		05/10/2002					
Code	Description	Cas No	Result	Units	LOD	Report Limit	LOQ
136	TEMPERATURE AT LAB	E1645696	ICED	C		0	

Wisconsin Department of Natural Resources
Laboratory Report

06/04/2002

Lab: 113133790

Sample: IM022634

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Laboratory: Wisconsin State Laboratory of Hygiene

DNR ID 113133790

2601 Agriculture Dr

Madison

WI 53707

Phone: 800-442-4618

Fax Phone: 608-224-6276

Sample:

Field #: PL-RNF2

Sample #: IM022634

Collection Start: 05/08/2002 07:05 pm

Collection End:

Collected by: SCHIEFFER

Waterbody/Outfall Id:

ID #:

ID Point #:

County: Polk

Account #: LM008

Sample Location: STORM WATER DISCHARGE PIPE TO PIKE LAKE

Sample Description: STORM WATER RUNOFF SAMPLE

Sample Source: NP

Sample Depth:

Date Reported: 06/04/2002

Sample Status: COMPLETE

Project No: LPL801

Analyses and Results:

Analysis Method		Analysis Date		Lab Comment			
AMMONIA (AS N), DISS (EPA 350.1)		05/14/2002					
Code	Description	Cas No	Result	Units	LOD	Report Limit	LOQ
608	NITROGEN NH3-N DISS	7664417	0.838	MGL	0.013		0.042

Analysis Method		Analysis Date		Lab Comment			
NITRATE+NITRITE (AS N), DISS (EPA 353.0)		05/14/2002					
Code	Description	Cas No	Result	Units	LOD	Report Limit	LOQ
631	NITROGEN NO3+NO2 DISS (AS N)	E701177	0.571	MGL	0.01		0.031

Analysis Method		Analysis Date		Lab Comment			
TOTAL KJELDAHL NITROGEN (AS N) (EPA 351.2)		05/22/2002					
Code	Description	Cas No	Result	Units	LOD	Report Limit	LOQ
625	NITROGEN KJELDAHL TOTAL	E1644079	1.91	MGL	0.14		0.4

Analysis Method		Analysis Date		Lab Comment			
TOTAL PHOSPHORUS (AS P) (EPA 365.1)		05/15/2002					
Code	Description	Cas No	Result	Units	LOD	Report Limit	LOQ
665	PHOSPHORUS TOTAL	7723140	0.244	MGL	0.005		0.016

Analysis Method		Analysis Date		Lab Comment			
DISS REACTIVE PHOSPHORUS AS P (ORTHOPHOSPHATE) (SM 4500PE)		05/10/2002					
Code	Description	Cas No	Result	Units	LOD	Report Limit	LOQ
671	PHOSPHATE ORTHO DISS	7723140	0.019	MGL	0.002		0.006

Wisconsin Department of Natural Resources
Laboratory Report

06/04/2002

Lab: 113133790

Sample: IM022634

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Analysis Method		Analysis Date		Lab Comment			
SUSPENDED SOLIDS (EPA METHOD 160.2)		05/14/2002					
Code	Description	Cas No	Result	Units	LOD	Report Limit	LOQ
530	RESIDUE TOTAL NFLT (TOTAL SUSPENDED SOLIDS)	E1642818	98.	MGL	2		7

Analysis Method		Analysis Date		Lab Comment			
TEMPERATURE ON RECEIPT-ICED		05/10/2002					
Code	Description	Cas No	Result	Units	LOD	Report Limit	LOQ
136	TEMPERATURE AT LAB	E1645696	ICED	C		0	

Laboratory Report

07/16/2002

Lab: 113133790

Sample: IM026900

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Laboratory: Wisconsin State Laboratory of Hygiene

DNR ID 113133790

2601 Agriculture Dr

Madison

WI 53707

Phone: 800-442-4618

Fax Phone: 608-224-6276

Sample:

Field #: PL-RNF

Sample #: IM026900

Collection Start: 06/21/2002 08:35 am

Collection End:

Collected by: SHIEFFER

Waterbody/Outfall Id:

ID #:

ID Point #:

County: Polk

Account #: LM008

Sample Location: STORM WATER DISCHARGE PIPE TO PIKE LAKE

Sample Description: STORM WATER RUNOFF

Sample Source: NP

Sample Depth:

Date Reported: 07/16/2002

Sample Status: COMPLETE

Project No: LPL801

Analyses and Results:

Analysis Method		Analysis Date		Lab Comment			
SUSPENDED SOLIDS (EPA METHOD 160.2)		06/28/2002		SAMPLE RECEIVED WITH ICE MELTED			
Code	Description	Cas No	Result	Units	LOD	Report Limit	LOQ
530	RESIDUE TOTAL NFLT (TOTAL SUSPENDED SOLIDS)	E1642818	*31	MGL	2		7

Analysis Method		Analysis Date		Lab Comment			
TEMPERATURE ON RECEIPT		06/24/2002					
Code	Description	Cas No	Result	Units	LOD	Report Limit	LOQ
136	TEMPERATURE AT LAB	E1645696	11.	C		0	

Analysis Method		Analysis Date		Lab Comment			
AMMONIA (AS N), DISS (EPA 350.1)		07/02/2002		SAMPLE RECEIVED WITH ICE MELTED			
Code	Description	Cas No	Result	Units	LOD	Report Limit	LOQ
608	NITROGEN NH3-N DISS	7664417	*0.355	MGL	0.013		0.042

Analysis Method		Analysis Date		Lab Comment			
NITRATE+NITRITE (AS N), DISS (EPA 353.2)		07/02/2002		SAMPLE RECEIVED WITH ICE MELTED			
Code	Description	Cas No	Result	Units	LOD	Report Limit	LOQ
631	NITROGEN NO3+NO2 DISS (AS N)	E701177	*0.214	MGL	0.01		0.031

Analysis Method		Analysis Date		Lab Comment			
TOTAL KJELDAHL NITROGEN (AS N) (EPA 351.2)		07/08/2002		SAMPLE RECEIVED WITH ICE MELTED			
Code	Description	Cas No	Result	Units	LOD	Report Limit	LOQ
625	NITROGEN KJELDAHL TOTAL	E1644079	*0.87	MGL	0.14		0.4

Wisconsin Department of Natural Resources

Laboratory Report

07/16/2002

Lab: 113133790

Sample: IM026900

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Analysis Method		Analysis Date	Lab Comment				
TOTAL PHOSPHORUS (AS P) (EPA 365.1)		06/25/2002	SAMPLE RECEIVED WITH ICE MELTED				
Code	Description	Cas No	Result	Units	LOD	Report Limit	LOQ
665	PHOSPHORUS TOTAL	7723140	*0.134	MGL	0.005		0.016

Analysis Method		Analysis Date	Lab Comment				
DISS REACTIVE PHOSPHORUS AS P (ORTHO P)(SM 4500PE)		06/25/2002	SAMPLE RECEIVED WITH ICE MELTED, RESULT APPROX				
Code	Description	Cas No	Result	Units	LOD	Report Limit	LOQ
671	PHOSPHATE ORTHO DISS	7723140	*0.054	MGL	0.002		0.006

Wisconsin Department of Natural Resources

Laboratory Report

07/16/2002

Lab: 113133790

Sample: IM026899

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Laboratory: Wisconsin State Laboratory of Hygiene

DNR ID 113133790

2601 Agriculture Dr

Madison

WI 53707

Phone: 800-442-4618

Fax Phone: 608-224-6276

Sample:

Field #: PL-RNF2

Sample #: IM026899

Collection Start: 06/21/2002 08:55 am

Collection End:

Collected by: SHIEFFER

Waterbody/Outfall Id:

ID #:

ID Point #:

County: Polk

Account #: LM008

Sample Location: STORM WATER DISCHARGE PIPE TO PIKE LAKE

Sample Description: STORM WATER RUNOFF

Sample Source: NP

Sample Depth:

Date Reported: 07/16/2002

Sample Status: COMPLETE

Project No: LPL801

Analyses and Results:

Analysis Method		Analysis Date	Lab Comment				
AMMONIA (AS N), DISS (EPA 350.1)		07/02/2002	SAMPLE RECEIVED WITH ICE MELTED				
Code	Description	Cas No	Result	Units	LOD	Report Limit	LOQ
608	NITROGEN NH3-N DISS	7664417	*1.36	MGL	0.013		0.042

Analysis Method		Analysis Date	Lab Comment				
NITRATE+NITRITE (AS N), DISS (EPA 353.2)		07/02/2002	SAMPLE RECEIVED WITH ICE MELTED				
Code	Description	Cas No	Result	Units	LOD	Report Limit	LOQ
631	NITROGEN NO3+NO2 DISS (AS N)	E701177	*ND	MGL	0.01		0.031

Analysis Method		Analysis Date	Lab Comment				
TOTAL KJELDAHL NITROGEN (AS N) (EPA 351.2)		07/08/2002	SAMPLE RECEIVED WITH ICE MELTED				
Code	Description	Cas No	Result	Units	LOD	Report Limit	LOQ
625	NITROGEN KJELDAHL TOTAL	E1644079	*2.73	MGL	0.14		0.4

Analysis Method		Analysis Date	Lab Comment				
TOTAL PHOSPHORUS (AS P) (EPA 365.1)		06/25/2002	SAMPLE RECEIVED WITH ICE MELTED				
Code	Description	Cas No	Result	Units	LOD	Report Limit	LOQ
665	PHOSPHORUS TOTAL	7723140	*0.297	MGL	0.005		0.016

Analysis Method		Analysis Date	Lab Comment				
DISS REACTIVE PHOSPHORUS AS P (ORTHO) (SM 4500PE)		06/25/2002	SAMPLE RECEIVED WITH ICE MELTED, RESULT APPROX				
Code	Description	Cas No	Result	Units	LOD	Report Limit	LOQ
671	PHOSPHATE ORTHO DISS	7723140	*0.082	MGL	0.002		0.006

Wisconsin Department of Natural Resources
Laboratory Report

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Lab: 113133790

Sample: IM026899

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Analysis Method		Analysis Date		Lab Comment			
SUSPENDED SOLIDS (EPA METHOD 160.2)		06/28/2002		SAMPLE RECEIVED WITH ICE MELTED			
Code	Description	Cas No	Result	Units	LOD	Report Limit	LOQ
530	RESIDUE TOTAL NFLT (TOTAL SUSPENDED SOLIDS)	E1642818	*37	MGL	2		7

Analysis Method		Analysis Date		Lab Comment			
TEMPERATURE ON RECEIPT		06/24/2002					
Code	Description	Cas No	Result	Units	LOD	Report Limit	LOQ
136	TEMPERATURE AT LAB	E1645696	11.	C		0	

Wisconsin Department of Natural Resources

Laboratory Report

08/12/2002

Lab: 113133790

Sample: IN002194

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Laboratory: Wisconsin State Laboratory of Hygiene
2601 Agriculture Dr
Madison WI 53707
Phone : 800-442-4618 Fax Phone : 608-224-6276

DNR ID 113133790

Sample:

Field #: PL-RNF Sample #: IN002194
Collection Start: 07/25/2002 09:30 am Collection End:
Collected by: SCHIEFFER Waterbody/Outfall Id:
ID #: ID Point #:
County: Polk Account #: LM009
Sample Location: STORM WATER DISCHARGE PIPE TO PIKE LAKE
Sample Description: STORM WATER RUNOFF SAMPLE
Sample Source: NP Sample Depth:
Date Reported: 08/12/2002 Sample Status: COMPLETE
Project No: LPL801

Analyses and Results:

Analysis Method		Analysis Date	Lab Comment				
AMMONIA (AS N), DISS (EPA 350.1)		08/05/2002					
Code	Description	Cas No	Result	Units	LOD	Report Limit	LOQ
608	NITROGEN NH3-N DISS	7664417	0.195	MGL	0.013		0.042

Analysis Method		Analysis Date	Lab Comment				
NITRATE+NITRITE (AS N), DISS (EPA 353.2)		08/05/2002					
Code	Description	Cas No	Result	Units	LOD	Report Limit	LOQ
631	NITROGEN NO3+NO2 DISS (AS N)	E701177	0.163	MGL	0.01		0.031

Analysis Method		Analysis Date	Lab Comment				
TOTAL KJELDAHL NITROGEN (AS N) (EPA 351.2)		08/06/2002					
Code	Description	Cas No	Result	Units	LOD	Report Limit	LOQ
625	NITROGEN KJELDAHL TOTAL	E1644079	0.45	MGL	0.14		0.4

Analysis Method		Analysis Date	Lab Comment				
TOTAL PHOSPHORUS (AS P) (EPA 365.1)		07/29/2002					
Code	Description	Cas No	Result	Units	LOD	Report Limit	LOQ
665	PHOSPHORUS TOTAL	7723140	0.102	MGL	0.005		0.016

Analysis Method		Analysis Date	Lab Comment				
DISS REACTIVE PHOSPHORUS AS P (ORTHOPHOSPHATE) (SM 4500P)		07/29/2002	HOLDING TIME EXCEEDED BY 2 DAYS				
Code	Description	Cas No	Result	Units	LOD	Report Limit	LOQ
671	PHOSPHATE ORTHO DISS	7723140	*0.056	MGL	0.002		0.006

Wisconsin Department of Natural Resources

Laboratory Report

08/12/2002

Lab: 113133790

Sample: IN002193

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Laboratory: Wisconsin State Laboratory of Hygiene

DNR ID 113133790

2601 Agriculture Dr

Madison

WI 53707

Phone: 800-442-4618

Fax Phone: 608-224-6276

Sample:

Field #: PL-RNF2

Sample #: IN002193

Collection Start: 07/25/2002 09:40 am

Collection End:

Collected by: SCHIEFFER

Waterbody/Outfall Id:

ID #:

ID Point #:

County: Polk

Account #: LM009

Sample Location: STORM WATER DISCHARGE PIPE TO PIKE LAKE

Sample Description: STORM WATER RUNOFF SAMPLE

Sample Source: NP

Sample Depth:

Date Reported: 08/12/2002

Sample Status: COMPLETE

Project No: LPL801

Analyses and Results:

Analysis Method		Analysis Date		Lab Comment			
AMMONIA (AS N), DISS (EPA 350.1)		08/05/2002					
Code	Description	Cas No	Result	Units	LOD	Report Limit	LOQ
608	NITROGEN NH3-N DISS	7664417	0.912	MGL	0.013		0.042

Analysis Method		Analysis Date		Lab Comment			
NITRATE+NITRITE (AS N), DISS (EPA 353.1)		08/05/2002					
Code	Description	Cas No	Result	Units	LOD	Report Limit	LOQ
631	NITROGEN NO3+NO2 DISS (AS N)	E701177	0.134	MGL	0.01		0.031

Analysis Method		Analysis Date		Lab Comment			
TOTAL KJELDAHL NITROGEN (AS N) (EPA 351.2)		08/06/2002					
Code	Description	Cas No	Result	Units	LOD	Report Limit	LOQ
625	NITROGEN KJELDAHL TOTAL	E1644079	1.70	MGL	0.14		0.4

Analysis Method		Analysis Date		Lab Comment			
TOTAL PHOSPHORUS (AS P) (EPA 365.1)		07/29/2002					
Code	Description	Cas No	Result	Units	LOD	Report Limit	LOQ
665	PHOSPHORUS TOTAL	7723140	0.214	MGL	0.005		0.016

Analysis Method		Analysis Date		Lab Comment			
DISS REACTIVE PHOSPHORUS AS P (ORTHOPHOSPHATE) (SM 4500PE)		08/29/2002		HOLDING TIME EXCEEDED BY 2 DAYS			
Code	Description	Cas No	Result	Units	LOD	Report Limit	LOQ
671	PHOSPHATE ORTHO DISS	7723140	*0.067	MGL	0.002		0.006

Wisconsin Department of Natural Resources

Laboratory Report

08/12/2002

Lab: 113133790

Sample: IN002194

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Laboratory: Wisconsin State Laboratory of Hygiene
2601 Agriculture Dr
Madison
Phone : 800-442-4618

WI 53707
Fax Phone : 608-224-6276

DNR ID 113133790

Sample:

Field #: PL-RNF
Collection Start: 07/25/2002 09:30 am
Collected by: SCHIEFFER
ID #:
County: Polk
Sample Location: STORM WATER DISCHARGE PIPE TO PIKE LAKE
Sample Description: STORM WATER RUNOFF SAMPLE
Sample Source: NP
Date Reported: 08/12/2002
Project No: LPL801

Sample #: IN002194
Collection End:
Waterbody/Outfall Id:
ID Point #:
Account #: LM009
Sample Depth:
Sample Status: CORRECTED

Analyses and Results:

Analysis Method		Analysis Date	Lab Comment				
AMMONIA (AS N), DISS (EPA 350.1)		08/05/2002					
Code	Description	Cas No	Result	Units	LOD	Report Limit	LOQ
608	NITROGEN NH3-N DISS	7664417	0.195	MGL	0.013		0.042

Analysis Method		Analysis Date	Lab Comment				
NITRATE+NITRITE (AS N), DISS (EPA 353.2)		08/05/2002					
Code	Description	Cas No	Result	Units	LOD	Report Limit	LOQ
631	NITROGEN NO3+NO2 DISS (AS N)	E701177	0.163	MGL	0.01		0.031

Analysis Method		Analysis Date	Lab Comment				
TOTAL KJELDAHL NITROGEN (AS N) (EPA 351.2)		08/06/2002					
Code	Description	Cas No	Result	Units	LOD	Report Limit	LOQ
625	NITROGEN KJELDAHL TOTAL	E1644079	0.45	MGL	0.14		0.4

Analysis Method		Analysis Date	Lab Comment				
TOTAL PHOSPHORUS (AS P) (EPA 365.1)		07/29/2002					
Code	Description	Cas No	Result	Units	LOD	Report Limit	LOQ
665	PHOSPHORUS TOTAL	7723140	0.102	MGL	0.005		0.016

Analysis Method		Analysis Date	Lab Comment				
DISS REACTIVE PHOSPHORUS AS P (ORTHOPHOSPHATE) (SM 4500PE)		08/06/2002					
Code	Description	Cas No	Result	Units	LOD	Report Limit	LOQ
671	PHOSPHATE ORTHO DISS	7723140	0.056	MGL	0.002		0.006

Wisconsin Department of Natural Resources
Laboratory Report

08/12/2002

Lab: 113133790

Sample: IN002194

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Analysis Method		Analysis Date	Lab Comment				
SUSPENDED SOLIDS (EPA METHOD 160.2)07/31/2002							
Code	Description	Cas No	Result	Units	LOD	Report Limit	LOQ
530	RESIDUE TOTAL NFLT (TOTAL SUSPENDED SOLIDS)	E1642818	10.	MGL	2		7

Analysis Method		Analysis Date	Lab Comment				
TEMPERATURE ON RECEIPT-ICED		07/26/2002					
Code	Description	Cas No	Result	Units	LOD	Report Limit	LOQ
136	TEMPERATURE AT LAB	E1645696	ICED	C		0	

Wisconsin Department of Natural Resources

Laboratory Report

08/12/2002

Lab: 113133790

Sample: IN002193

Page 1 of 2

Laboratory: Wisconsin State Laboratory of Hygiene
2601 Agriculture Dr
Madison WI 53707
Phone: 800-442-4618 Fax Phone: 608-224-6276

DNR ID 113133790

Sample:

Field #: PL-RNF2 Sample #: IN002193
Collection Start: 07/25/2002 09:40 am Collection End:
Collected by: SCHIEFFER Waterbody/Outfall Id:
ID #: ID Point #:
County: Polk Account #: LM009
Sample Location: STORM WATER DISCHARGE PIPE TO PIKE LAKE
Sample Description: STORM WATER RUNOFF SAMPLE
Sample Source: NP Sample Depth:
Date Reported: 08/12/2002 Sample Status: CORRECTED
Project No: LPL801

Analyses and Results:

Analysis Method		Analysis Date		Lab Comment			
AMMONIA (AS N), DISS (EPA 350.1)		08/05/2002					
Code	Description	Cas No	Result	Units	LOD	Report Limit	LOQ
608	NITROGEN NH3-N DISS	7664417	0.912	MGL	0.013		0.042

Analysis Method		Analysis Date		Lab Comment			
NITRATE+NITRITE (AS N), DISS (EPA 353.2)		08/05/2002					
Code	Description	Cas No	Result	Units	LOD	Report Limit	LOQ
631	NITROGEN NO3+NO2 DISS (AS N)	E701177	0.134	MGL	0.01		0.031

Analysis Method		Analysis Date		Lab Comment			
TOTAL KJELDAHL NITROGEN (AS N) (EPA 351.2)		08/06/2002					
Code	Description	Cas No	Result	Units	LOD	Report Limit	LOQ
625	NITROGEN KJELDAHL TOTAL	E1644079	1.70	MGL	0.14		0.4

Analysis Method		Analysis Date		Lab Comment			
TOTAL PHOSPHORUS (AS P) (EPA 365.1)		07/29/2002					
Code	Description	Cas No	Result	Units	LOD	Report Limit	LOQ
665	PHOSPHORUS TOTAL	7723140	0.214	MGL	0.005		0.016

Analysis Method		Analysis Date		Lab Comment			
DISS REACTIVE PHOSPHORUS AS P (ORTHOPHOSPHATE) (SM 4500P)		08/26/2002					
Code	Description	Cas No	Result	Units	LOD	Report Limit	LOQ
671	PHOSPHATE ORTHO DISS	7723140	0.067	MGL	0.002		0.006

Wisconsin Department of Natural Resources
Laboratory Report

08/12/2002

Lab: 113133790

Sample: IN002193

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Analysis Method		Analysis Date		Lab Comment			
SUSPENDED SOLIDS (EPA METHOD 160.2)		07/31/2002					
Code	Description	Cas No	Result	Units	LOD	Report Limit	LOQ
530	RESIDUE TOTAL NFLT (TOTAL SUSPENDED SOLIDS)	E1642818	23.	MGL	2		7

Analysis Method		Analysis Date		Lab Comment			
TEMPERATURE ON RECEIPT-ICED		07/26/2002					
Code	Description	Cas No	Result	Units	LOD	Report Limit	LOQ
136	TEMPERATURE AT LAB	E1645696	ICED	C		0	

Wisconsin Department of Natural Resources

Laboratory Report

09/13/2002

Lab: 113133790

Sample: IN004693

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Laboratory: Wisconsin State Laboratory of Hygiene

DNR ID 113133790

2601 Agriculture Dr

Madison

WI 53707

Phone: 800-442-4618

Fax Phone: 608-224-6276

Sample:

Field #: PL-RNF

Sample #: IN004693

Collection Start: 08/13/2002 09:00 am

Collection End:

Collected by: SCHIEFFER

Waterbody/Outfall Id:

ID #:

ID Point #:

County: Polk

Account #: LM009

Sample Location: STORM WATER DISCHARGE PIPE TO PIKE LAKE

Sample Description: STORM WATER RUNOFF SAMPLE

Sample Source: NP

Sample Depth:

Date Reported: 09/13/2002

Sample Status: COMPLETE

Project No: LPL801

Analyses and Results:

Analysis Method		Analysis Date	Lab Comment				
AMMONIA (AS N), DISS (EPA 350.1)		09/09/2002	SAMPLE RECEIVED FROZEN				
Code	Description	Cas No	Result	Units	LOD	Report Limit	LOQ
608	NITROGEN NH3-N DISS	7664417	*0.570	MGL	0.013		0.042

Analysis Method		Analysis Date	Lab Comment				
NITRATE+NITRITE (AS N), DISS (EPA 353.0)		09/09/2002	SAMPLE RECEIVED FROZEN				
Code	Description	Cas No	Result	Units	LOD	Report Limit	LOQ
631	NITROGEN NO3+NO2 DISS (AS N)	E701177	*0.315	MGL	0.022		0.075

Analysis Method		Analysis Date	Lab Comment				
TOTAL KJELDAHL NITROGEN (AS N) (EPA 351.2)		09/04/2002	SAMPLE RECEIVED FROZEN				
Code	Description	Cas No	Result	Units	LOD	Report Limit	LOQ
625	NITROGEN KJELDAHL TOTAL	E1644079	*1.01	MGL	0.14		0.4

Analysis Method		Analysis Date	Lab Comment				
TOTAL PHOSPHORUS (AS P) (EPA 365.1)		08/29/2002	SAMPLE RECEIVED FROZEN				
Code	Description	Cas No	Result	Units	LOD	Report Limit	LOQ
665	PHOSPHORUS TOTAL	7723140	*0.137	MGL	0.005		0.016

Analysis Method		Analysis Date	Lab Comment				
DISS REACTIVE PHOSPHORUS AS P (ORTHOPHOSPHATE) (SM 4500PE)		09/02/2002	SAMPLE RECEIVED FROZEN				
Code	Description	Cas No	Result	Units	LOD	Report Limit	LOQ
671	PHOSPHATE ORTHO DISS	7723140	*0.080	MGL	0.002		0.006

Wisconsin Department of Natural Resources
Laboratory Report

09/13/2002

Lab: 113133790

Sample: IN004693

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Analysis Method		Analysis Date		Lab Comment			
SUSPENDED SOLIDS (EPA METHOD 160.2)		08/23/2002		SAMPLE RECEIVED FROZEN			
Code	Description	Cas No	Result	Units	LOD	Report Limit	LOQ
530	RESIDUE TOTAL NFLT (TOTAL SUSPENDED SOLIDS)	E1642818	*20.	MGL	2		7

Analysis Method		Analysis Date		Lab Comment			
TEMPERATURE ON RECEIPT-FROZEN		08/22/2002					
Code	Description	Cas No	Result	Units	LOD	Report Limit	LOQ
136	TEMPERATURE AT LAB	E1645696	FROZEN	C		0	

Laboratory Report

09/13/2002

Lab: 113133790

Sample: IN004671

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Laboratory: Wisconsin State Laboratory of Hygiene

DNR ID 113133790

2601 Agriculture Dr

Madison

WI 53707

Phone: 800-442-4618

Fax Phone: 608-224-6276

Sample:

Field #: PL-RNF2

Sample #: IN004671

Collection Start: 08/21/2002 09:30 pm

Collection End:

Collected by: SCHIEFFER

Waterbody/Outfall Id:

ID #:

ID Point #:

County: Polk

Account #: LM009

Sample Location: STORM WATER DISCHARGE PIPE TO PIKE LAKE

Sample Description: STORM WATER RUNOFF SAMPLE

Sample Source: NP

Sample Depth:

Date Reported: 09/13/2002

Sample Status: COMPLETE

Project No: LPL801

Analyses and Results:

Analysis Method		Analysis Date		Lab Comment			
AMMONIA (AS N), DISS (EPA 350.1)		09/09/2002					
Code	Description	Cas No	Result	Units	LOD	Report Limit	LOQ
608	NITROGEN NH3-N DISS	7664417	0.372	MGL	0.013		0.042

Analysis Method		Analysis Date		Lab Comment			
NITRATE+NITRITE (AS N), DISS (EPA 353.2)		09/09/2002					
Code	Description	Cas No	Result	Units	LOD	Report Limit	LOQ
631	NITROGEN NO3+NO2 DISS (AS N)	E701177	0.212	MGL	0.022		0.075

Analysis Method		Analysis Date		Lab Comment			
TOTAL KJELDAHL NITROGEN (AS N) (EPA 351.2)		09/04/2002					
Code	Description	Cas No	Result	Units	LOD	Report Limit	LOQ
625	NITROGEN KJELDAHL TOTAL	E1644079	0.55	MGL	0.14		0.4

Analysis Method		Analysis Date		Lab Comment			
TOTAL PHOSPHORUS (AS P) (EPA 365.1)		08/29/2002					
Code	Description	Cas No	Result	Units	LOD	Report Limit	LOQ
665	PHOSPHORUS TOTAL	7723140	0.060	MGL	0.005		0.016

Analysis Method		Analysis Date		Lab Comment			
DISS REACTIVE PHOSPHORUS AS P (ORTHOPHOSPHATE) (SM 4500PE)		09/02/2002					
Code	Description	Cas No	Result	Units	LOD	Report Limit	LOQ
671	PHOSPHATE ORTHO DISS	7723140	0.034	MGL	0.002		0.006

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Laboratory Report

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Lab: 113133790

Sample: IN004671

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Analysis Method		Analysis Date		Lab Comment			
SUSPENDED SOLIDS (EPA METHOD 160.2)		08/23/2002					
Code	Description	Cas No	Result	Units	LOD	Report Limit	LOQ
530	RESIDUE TOTAL NFLT (TOTAL SUSPENDED SOLIDS)	E1642818	9.	MGL	2		7

Analysis Method		Analysis Date		Lab Comment			
TEMPERATURE ON RECEIPT-ICED		08/22/2002					
Code	Description	Cas No	Result	Units	LOD	Report Limit	LOQ
136	TEMPERATURE AT LAB	E1645696	ICED	C		0	

Wisconsin Department of Natural Resources
Laboratory Report

10/22/2002

Lab: 113133790

Sample: IN008246

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Laboratory: Wisconsin State Laboratory of Hygiene

DNR ID 113133790

2601 Agriculture Dr

Madison

WI 53707

Phone: 800-442-4618

Fax Phone: 608-224-6276

Sample:

Field #: PL-RNF2

Sample #: IN008246

Collection Start: 09/26/2002 10:20 am

Collection End:

Collected by: SCHIEFFER

Waterbody/Outfall Id:

ID #:

ID Point #:

County: Polk

Account #: LM009

Sample Location: STORM WATER DISCHARGE PIPE TO PIKE LAKE

Sample Description: STORM WATER RUNOFF SAMPLE

Sample Source: NP

Sample Depth:

Date Reported: 10/22/2002

Sample Status: COMPLETE

Project No: LPL801

Analyses and Results:

Analysis Method		Analysis Date		Lab Comment			
AMMONIA (AS N), DISS (EPA 350.1)		10/10/2002					
Code	Description	Cas No	Result	Units	LOD	Report Limit	LOQ
608	NITROGEN NH3-N DISS	7664417	0.484	MGL	0.013		0.042

Analysis Method		Analysis Date		Lab Comment			
NITRATE+NITRITE (AS N), DISS (EPA 353.2)/10/2002							
Code	Description	Cas No	Result	Units	LOD	Report Limit	LOQ
631	NITROGEN NO3+NO2 DISS (AS N)	E701177	0.236	MGL	0.022		0.075

Analysis Method		Analysis Date		Lab Comment			
TOTAL KJELDAHL NITROGEN (AS N) (EPA 0/02/2002 351.2)							
Code	Description	Cas No	Result	Units	LOD	Report Limit	LOQ
625	NITROGEN KJELDAHL TOTAL	E1644079	1.38	MGL	0.14		0.4

Analysis Method		Analysis Date		Lab Comment			
TOTAL PHOSPHORUS (AS P) (EPA 365.1) 10/01/2002							
Code	Description	Cas No	Result	Units	LOD	Report Limit	LOQ
665	PHOSPHORUS TOTAL	7723140	0.117	MGL	0.005		0.016

Analysis Method		Analysis Date		Lab Comment			
DISS REACTIVE PHOSPHORUS AS P (ORTHOPHOSPHATE) (SM 4500PE) 10/02/2002				SAMPLE RECEIVED PAST HOLDING TIME			
Code	Description	Cas No	Result	Units	LOD	Report Limit	LOQ
671	PHOSPHATE ORTHO DISS	7723140	*0.042	MGL	0.002		0.006

Wisconsin Department of Natural Resources

Laboratory Report

10/22/2002

Lab: 113133790

Sample: IN008246

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Analysis Method		Analysis Date		Lab Comment			
SUSPENDED SOLIDS (EPA METHOD 160.2)		10/01/2002		MATRIX DUPLICATE QC EXCEEDED			
Code	Description	Cas No	Result	Units	LOD	Report Limit	LOQ
530	RESIDUE TOTAL NFLT (TOTAL SUSPENDED SOLIDS)	E1642818	*4.8	MGL	2		7

Analysis Method		Analysis Date		Lab Comment			
TEMPERATURE ON RECEIPT-ICED		09/30/2002					
Code	Description	Cas No	Result	Units	LOD	Report Limit	LOQ
136	TEMPERATURE AT LAB	E1645696	ICED	C		0	

SECTION B

Wisconsin Department of Natural Resources

Laboratory Report

06/17/2002

Lab: 113133790

Sample: IM022836

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Laboratory: Wisconsin State Laboratory of Hygiene

DNR ID 113133790

2601 Agriculture Dr

Madison

WI 53707

Phone : 800-442-4618

Fax Phone : 608-224-6276

Sample:

Field #: NTL-SUR

Sample #: IM022836

Collection Start: 05/10/2002 09:00 am

Collection End:

Collected by: SCHIEFFER

Waterbody/Outfall Id: 2623900

ID #: 493060

ID Point #:

County: Polk

Account #: LM008

Sample Location: NORTH TWIN LAKE

Sample Description: DEEP HOLE - SURFACE

Sample Source: SU

Sample Depth: M001

Date Reported: 06/17/2002

Sample Status: COMPLETE

Project No: LPL800

Analyses and Results:

Analysis Method		Analysis Date		Lab Comment			
VOLUME LAB FILT FOR CHLOROPHYLL A		05/16/2002					
(SM 10200H)							
Code	Description	Cas No	Result	Units	LOD	Report Limit	LOQ
32000	SAMPLE SIZE LITERS		900	ML			

Analysis Method		Analysis Date		Lab Comment			
CHLOROPHYLL A, UNCORRECTED, LAB		05/24/2002		LOW ABSORBANCE, RESULT APPROXIMATE			
(SM 10200H)							
Code	Description	Cas No	Result	Units	LOD	Report Limit	LOQ
32210	CHLOROPHYLL A UNCORRECTED	479618	*<1	UG/L		1.	

Analysis Method		Analysis Date		Lab Comment			
AMMONIA (AS N), DISS (EPA 350.1)		05/24/2002					
Code	Description	Cas No	Result	Units	LOD	Report Limit	LOQ
608	NITROGEN NH3-N DISS	7664417	0.025	MG/L	0.013		0.042

Analysis Method		Analysis Date		Lab Comment			
NITRATE+NITRITE (AS N), DISS (EPA 353.2)		05/15/2002					
Code	Description	Cas No	Result	Units	LOD	Report Limit	LOQ
631	NITROGEN NO3+NO2 DISS (AS N)	E701177	0.016	MG/L	0.01		0.031

Analysis Method		Analysis Date		Lab Comment			
TOTAL KJELDAHL NITROGEN (AS N) (EPA 351.2)		05/22/2002					
Code	Description	Cas No	Result	Units	LOD	Report Limit	LOQ

Wisconsin Department of Natural Resources
Laboratory Report

06/17/2002

Lab: 113133790

Sample: IM022836

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Code	Description	Cas No	Result	Units	LOD	Report Limit	LOQ
625	NITROGEN KJELDAHL TOTAL	E1644079	0.55	MGL	0.14		0.4

Analysis Method		Analysis Date		Lab Comment			
TOTAL PHOSPHORUS (AS P) (EPA 365.1)		05/15/2002					
Code	Description	Cas No	Result	Units	LOD	Report Limit	LOQ
665	PHOSPHORUS TOTAL	7723140	0.023	MGL	0.005		0.016

Analysis Method		Analysis Date		Lab Comment			
DISS REACTIVE PHOSPHORUS AS P (ORTHOPHOSPHATE) (SM 4500PE)		05/14/2002		HOLDING TIME EXCEEDED BY 2 DAYS			
Code	Description	Cas No	Result	Units	LOD	Report Limit	LOQ
671	PHOSPHATE ORTHO DISS	7723140	*0.003	MGL	0.002		0.006

Analysis Method		Analysis Date		Lab Comment			
SUSPENDED SOLIDS (EPA METHOD 160.2)		05/16/2002					
Code	Description	Cas No	Result	Units	LOD	Report Limit	LOQ
530	RESIDUE TOTAL NFLT (TOTAL SUSPENDED SOLIDS)	E1642818	ND	MGL	2		7

Analysis Method		Analysis Date		Lab Comment			
TEMPERATURE ON RECEIPT-ICED		05/14/2002					
Code	Description	Cas No	Result	Units	LOD	Report Limit	LOQ
136	TEMPERATURE AT LAB	E1645696	ICED	C		0	

Wisconsin Department of Natural Resources
Laboratory Report

06/04/2002

Lab: 113133790

Sample: IM022837

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Laboratory: Wisconsin State Laboratory of Hygiene

DNR ID 113133790

2601 Agriculture Dr

Madison

WI 53707

Phone : 800-442-4618

Fax Phone : 608-224-6276

Sample:

Field #: NTL-BOT

Sample #: IM022837

Collection Start: 05/10/2002 09:10 am

Collection End:

Collected by: SCHIEFFER

Waterbody/Outfall Id: 2623900

ID #: 493060

ID Point #:

County: Polk

Account #: LM008

Sample Location: NORTH TWIN LAKE

Sample Description: DEEP HOLE - BOTTOM

Sample Source: SU

Sample Depth: M8

Date Reported: 06/04/2002

Sample Status: COMPLETE

Project No: LPL800

Analyses and Results:

Analysis Method		Analysis Date	Lab Comment				
AMMONIA (AS N), DISS (EPA 350.1)		05/24/2002					
Code	Description	Cas No	Result	Units	LOD	Report Limit	LOQ
608	NITROGEN NH3-N DISS	7664417	0.025	MG/L	0.013		0.042

Analysis Method		Analysis Date	Lab Comment				
NITRATE+NITRITE (AS N), DISS (EPA 353.2)		05/15/2002					
Code	Description	Cas No	Result	Units	LOD	Report Limit	LOQ
631	NITROGEN NO3+NO2 DISS (AS N)	E701177	0.013	MG/L	0.01		0.031

Analysis Method		Analysis Date	Lab Comment				
TOTAL KJELDAHL NITROGEN (AS N) (EPA 351.2)		05/22/2002					
Code	Description	Cas No	Result	Units	LOD	Report Limit	LOQ
625	NITROGEN KJELDAHL TOTAL	E1644079	0.42	MG/L	0.14		0.4

Analysis Method		Analysis Date	Lab Comment				
TOTAL PHOSPHORUS (AS P) (EPA 365.1)		05/15/2002					
Code	Description	Cas No	Result	Units	LOD	Report Limit	LOQ
665	PHOSPHORUS TOTAL	7723140	0.017	MG/L	0.005		0.016

Analysis Method		Analysis Date	Lab Comment				
DISS REACTIVE PHOSPHORUS AS P (ORTHOPHOSPHATE) (SM 4500PE)		06/04/2002	HOLDING TIME EXCEEDED BY 2 DAYS				
Code	Description	Cas No	Result	Units	LOD	Report Limit	LOQ
671	PHOSPHATE ORTHO DISS	7723140	*ND	MG/L	0.002		0.006
			LOD=0.00				

Wisconsin Department of Natural Resources
Laboratory Report

06/04/2002

Lab: 113133790

Sample: IM022837

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<i>Code</i>	<i>Description</i>	<i>Cas No</i>	<i>Result</i>	<i>Units</i>	<i>LOD</i>	<i>Report Limit</i>	<i>LOQ</i>
			2				

Analysis Method		Analysis Date	Lab Comment				
SUSPENDED SOLIDS (EPA METHOD 160.2)05/16/2002							
Code	Description	Cas No	Result	Units	LOD	Report Limit	LOQ
530	RESIDUE TOTAL NFLT (TOTAL SUSPENDED SOLIDS)	E1642818	ND	MG/L	2		7

Analysis Method		Analysis Date Lab Comment					
TEMPERATURE ON RECEIPT-ICED		05/14/2002					
Code	Description	Cas No	Result	Units	LOD	Report Limit	LOQ
136	TEMPERATURE AT LAB	E1645696	ICED	C		0	

Wisconsin Department of Natural Resources
Laboratory Report

06/06/2002

Lab: 113133790

Sample: IM022838

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Laboratory: Wisconsin State Laboratory of Hygiene
 2601 Agriculture Dr
 Madison WI 53707
 Phone: 800-442-4618 Fax Phone: 608-224-6276

DNR ID 113133790

Sample:

Field #: NTL-OUT Sample #: IM022838
 Collection Start: 05/10/2002 09:30 am Collection End:
 Collected by: SCHIEFFER Waterbody/Outfall Id: 2623900
 ID #: 493060 ID Point #:
 County: Polk Account #: LM008
 Sample Location: NORTH TWIN LAKE - OUTLET AT CULVERT
 Sample Description: LAKE WATER SAMPLE
 Sample Source: SU Sample Depth: M000
 Date Reported: 06/06/2002 Sample Status: COMPLETE
 Project No: LPL800

Analyses and Results:

Analysis Method		Analysis Date		Lab Comment			
AMMONIA (AS N), DISS (EPA 350.1)		05/15/2002					
Code	Description	Cas No	Result	Units	LOD	Report Limit	LOQ
608	NITROGEN NH3-N DISS	7664417	ND	MGL	0.013		0.042

Analysis Method		Analysis Date		Lab Comment			
NITRATE+NITRITE (AS N), DISS (EPA 353.2)		05/15/2002					
Code	Description	Cas No	Result	Units	LOD	Report Limit	LOQ
631	NITROGEN NO3+NO2 DISS (AS N)	E701177	ND	MGL	0.01		0.031

Analysis Method		Analysis Date		Lab Comment			
TOTAL KJELDAHL NITROGEN (AS N) (EPA 351.2)		05/22/2002					
Code	Description	Cas No	Result	Units	LOD	Report Limit	LOQ
625	NITROGEN KJELDAHL TOTAL	E1644079	0.48	MGL	0.14		0.4

Analysis Method		Analysis Date		Lab Comment			
TOTAL PHOSPHORUS (AS P) (EPA 365.1)		05/15/2002					
Code	Description	Cas No	Result	Units	LOD	Report Limit	LOQ
665	PHOSPHORUS TOTAL	7723140	0.016	MGL	0.005		0.016

Analysis Method		Analysis Date		Lab Comment			
DISS REACTIVE PHOSPHORUS AS P (ORTHOPHOSPHATE) (SM 4500PE)		06/14/2002		RECEIVED PAST HOLDING TIME			
Code	Description	Cas No	Result	Units	LOD	Report Limit	LOQ
671	PHOSPHATE ORTHO DISS	7723140	*ND	MGL	0.002		0.006

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Laboratory Report

06/06/2002

Lab: 113133790

Sample: IM022838

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Analysis Method		Analysis Date		Lab Comment			
SUSPENDED SOLIDS (EPA METHOD 160.2)		05/16/2002					
Code	Description	Cas No	Result	Units	LOD	Report Limit	LOQ
530	RESIDUE TOTAL NFLT (TOTAL SUSPENDED SOLIDS)	E1642818	3.	MGL	2		7

Analysis Method		Analysis Date		Lab Comment			
TEMPERATURE ON RECEIPT-ICED		05/14/2002					
Code	Description	Cas No	Result	Units	LOD	Report Limit	LOQ
136	TEMPERATURE AT LAB	E1645696	ICED	C		0	

Wisconsin Department of Natural Resources

Laboratory Report

07/01/2002

Lab: 113133790

Sample: IM025570

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Laboratory: Wisconsin State Laboratory of Hygiene
2601 Agriculture Dr
Madison WI 53707
Phone: 800-442-4618 Fax Phone: 608-224-6276

DNR ID 113133790

Sample:

Field #: NT-S	Sample #: IM025570
Collection Start: 06/11/2002 08:30 am	Collection End:
Collected by: SCHIEFFER	Waterbody/Outfall Id: 2623900
ID #: 493060	ID Point #:
County: Polk	Account #: LM008
Sample Location: NORTH TWIN LAKE	
Sample Description: DEEP HOLE - SURFACE	
Sample Source: SU	Sample Depth: M0.5
Date Reported: 06/28/2002	Sample Status: COMPLETE
Project No: LPL800	

Analyses and Results:

Analysis Method		Analysis Date		Lab Comment			
VOLUME LAB FILT FOR CHLOROPHYLL A		06/17/2002					
(SM 10200H)							
Code	Description	Cas No	Result	Units	LOD	Report Limit	LOQ
32000	SAMPLE SIZE LITERS		500	ML			

Analysis Method		Analysis Date		Lab Comment			
CHLOROPHYLL A, UNCORRECTED, LAB		06/28/2002		INSTRUMENT DOWN, OTHER METHOD USED			
(SM 10200H)							
Code	Description	Cas No	Result	Units	LOD	Report Limit	LOQ
32210	CHLOROPHYLL A UNCORRECTED	479618	**	UG/L		1.	

Analysis Method		Analysis Date		Lab Comment			
CHLOROPHYLL A, FLUORESCENCE, FF		06/18/2002					
(WELSCHMEYER 1994)							
Code	Description	Cas No	Result	Units	LOD	Report Limit	LOQ
99717	CHLOROPHYLL A, FLUORESCENCE (WELSCHMEYER 1994)	479618	0.55	UG/L	0.26		0.87

Analysis Method		Analysis Date		Lab Comment			
AMMONIA (AS N), DISS (EPA 350.1)		06/14/2002					
Code	Description	Cas No	Result	Units	LOD	Report Limit	LOQ
608	NITROGEN NH3-N DISS	7664417	0.025	MGL	0.013		0.042

Analysis Method		Analysis Date		Lab Comment			
NITRATE+NITRITE (AS N), DISS (EPA 353.1)		06/14/2002					

Wisconsin Department of Natural Resources

Laboratory Report

07/01/2002

Lab: 113133790

Sample: IM025570

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Code	Description	Cas No	Result	Units	LOD	Report Limit	LOQ
631	NITROGEN NO3+NO2 DISS (AS N)	E701177	ND	MGL	0.01		0.031

Analysis Method		Analysis Date	Lab Comment				
TOTAL KJELDAHL NITROGEN (AS N) (EPA 351.2)							
Code	Description	Cas No	Result	Units	LOD	Report Limit	LOQ
625	NITROGEN KJELDAHL TOTAL	E1644079	0.43	MGL	0.14		0.4

Analysis Method		Analysis Date	Lab Comment				
TOTAL PHOSPHORUS (AS P) (EPA 365.1)		06/12/2002					
Code	Description	Cas No	Result	Units	LOD	Report Limit	LOQ
665	PHOSPHORUS TOTAL	7723140	0.019	MG/L	0.005		0.016

Analysis Method		Analysis Date	Lab Comment				
DISS REACTIVE PHOSPHORUS AS P (ORTHO P)(SM 4500PE)		06/12/2002					
Code	Description	Cas No	Result	Units	LOD	Report Limit	LOQ
671	PHOSPHATE ORTHO DISS	7723140	ND	MGL	0.002		0.006

Analysis Method		Analysis Date	Lab Comment				
SUSPENDED SOLIDS (EPA METHOD 160.2)		06/13/2002	LOW SAMPLE VOLUME				
Code	Description	Cas No	Result	Units	LOD	Report Limit	LOQ
530	RESIDUE TOTAL NFLT (TOTAL SUSPENDED SOLIDS)	E1642818	*<3.1	MGL	2		7

Analysis Method		Analysis Date		Lab Comment			
TEMPERATURE ON RECEIPT-ICED		06/12/2002					
Code	Description	Cas No	Result	Units	LOD	Report Limit	LOQ
136	TEMPERATURE AT LAB	E1645696	ICED	C		0	

Wisconsin Department of Natural Resources

Laboratory Report

06/25/2002

Lab: 113133790

Sample: IM025571

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Laboratory: Wisconsin State Laboratory of Hygiene

DNR ID 113133790

2601 Agriculture Dr

Madison

WI 53707

Phone: 800-442-4618

Fax Phone: 608-224-6276

Sample:

Field #: NT-B

Sample #: IM025571

Collection Start: 06/11/2002 08:20 am

Collection End:

Collected by: SCHIEFFER

Waterbody/Outfall Id: 2623900

ID #: 493060

ID Point #:

County: Polk

Account #: LM008

Sample Location: NORTH TWIN LAKE

Sample Description: DEEP HOLE - BOTTOM

Sample Source: SU

Sample Depth: M009

Date Reported: 06/25/2002

Sample Status: COMPLETE

Project No: LPL800

Analyses and Results:

Analysis Method		Analysis Date		Lab Comment			
AMMONIA (AS N), DISS (EPA 350.1)		06/14/2002					
Code	Description	Cas No	Result	Units	LOD	Report Limit	LOQ
608	NITROGEN NH3-N DISS	7664417	0.094	MGL	0.013		0.042

Analysis Method		Analysis Date		Lab Comment			
NITRATE+NITRITE (AS N), DISS (EPA 353.2)		06/14/2002					
Code	Description	Cas No	Result	Units	LOD	Report Limit	LOQ
631	NITROGEN NO3+NO2 DISS (AS N)	E701177	0.019	MGL	0.01		0.031

Analysis Method		Analysis Date		Lab Comment			
TOTAL KJELDAHL NITROGEN (AS N) (EPA 351.2)		06/18/2002					
Code	Description	Cas No	Result	Units	LOD	Report Limit	LOQ
625	NITROGEN KJELDAHL TOTAL	E1644079	0.57	MGL	0.14		0.4

Analysis Method		Analysis Date		Lab Comment			
TOTAL PHOSPHORUS (AS P) (EPA 365.1)		06/12/2002					
Code	Description	Cas No	Result	Units	LOD	Report Limit	LOQ
665	PHOSPHORUS TOTAL	7723140	0.025	MGL	0.005		0.016

Analysis Method		Analysis Date		Lab Comment			
DISS REACTIVE PHOSPHORUS AS P (ORTHOPHOSPHATE) (SM 4500PE)		06/12/2002					
Code	Description	Cas No	Result	Units	LOD	Report Limit	LOQ
671	PHOSPHATE ORTHO DISS	7723140	ND	MGL	0.002		0.006

Wisconsin Department of Natural Resources

Laboratory Report

06/25/2002

Lab: 113133790

Sample: IM025571

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Analysis Method		Analysis Date	Lab Comment				
SUSPENDED SOLIDS (EPA METHOD 160.2)		06/13/2002					
Code	Description	Cas No	Result	Units	LOD	Report Limit	LOQ
530	RESIDUE TOTAL NFLT (TOTAL SUSPENDED SOLIDS)	E1642818	15.	MGL	2		7

Analysis Method		Analysis Date	Lab Comment				
TEMPERATURE ON RECEIPT-ICED		06/12/2002					
Code	Description	Cas No	Result	Units	LOD	Report Limit	LOQ
136	TEMPERATURE AT LAB	E1645696	ICED	C		0	

Wisconsin Department of Natural Resources

Laboratory Report

06/25/2002

Lab: 113133790

Sample: IM025572

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Laboratory: Wisconsin State Laboratory of Hygiene
2601 Agriculture Dr
Madison WI 53707
Phone: 800-442-4618 Fax Phone: 608-224-6276

DNR ID 113133790

Sample:

Field #: NT-O Collection Start: 06/11/2002 08:40 am Collected by: SCHIEFFER ID #: 493060 County: Polk Sample Location: NORTH TWIN LAKE - OUTLET Sample Description: AT CULVERT Sample Source: SU Date Reported: 06/25/2002 Project No: LPL800	Sample #: IM025572 Collection End: Waterbody/Outfall Id: 2623900 ID Point #: Account #: LM008 Sample Depth: M0.5 Sample Status: COMPLETE
---	---

Analyses and Results:

Analysis Method		Analysis Date	Lab Comment				
AMMONIA (AS N), DISS (EPA 350.1)		06/14/2002					
Code	Description	Cas No	Result	Units	LOD	Report Limit	LOQ
608	NITROGEN NH3-N DISS	7664417	0.030	MGL	0.013		0.042

Analysis Method		Analysis Date	Lab Comment				
NITRATE+NITRITE (AS N), DISS (EPA 353.1)		06/14/2002					
Code	Description	Cas No	Result	Units	LOD	Report Limit	LOQ
631	NITROGEN NO3+NO2 DISS (AS N)	E701177	ND	MGL	0.01		0.031

Analysis Method		Analysis Date	Lab Comment				
TOTAL KJELDAHL NITROGEN (AS N) (EPA 351.2)		06/18/2002					
Code	Description	Cas No	Result	Units	LOD	Report Limit	LOQ
625	NITROGEN KJELDAHL TOTAL	E1644079	0.56	MGL	0.14		0.4

Analysis Method		Analysis Date	Lab Comment				
TOTAL PHOSPHORUS (AS P) (EPA 365.1)		06/12/2002					
Code	Description	Cas No	Result	Units	LOD	Report Limit	LOQ
665	PHOSPHORUS TOTAL	7723140	0.019	MGL	0.005		0.016

Analysis Method		Analysis Date	Lab Comment				
DISS REACTIVE PHOSPHORUS AS P (ORTHOPHOSPHATE) (SM 4500PE)		06/12/2002					
Code	Description	Cas No	Result	Units	LOD	Report Limit	LOQ
671	PHOSPHATE ORTHO DISS	7723140	ND	MGL	0.002		0.006

Wisconsin Department of Natural Resources

Laboratory Report

06/25/2002

Lab: 113133790

Sample: IM025572

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Analysis Method		Analysis Date		Lab Comment			
SUSPENDED SOLIDS (EPA METHOD 160.2)		06/13/2002					
Code	Description	Cas No	Result	Units	LOD	Report Limit	LOQ
530	RESIDUE TOTAL NFLT (TOTAL SUSPENDED SOLIDS)	E1642818	3.	MGL	2		7

Analysis Method		Analysis Date		Lab Comment			
TEMPERATURE ON RECEIPT-ICED		06/12/2002					
Code	Description	Cas No	Result	Units	LOD	Report Limit	LOQ
136	TEMPERATURE AT LAB	E1645696	ICED	C		0	

Wisconsin Department of Natural Resources

Laboratory Report

08/19/2002

Lab: 113133790

Sample: IN000833

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Laboratory: Wisconsin State Laboratory of Hygiene

DNR ID 113133790

2601 Agriculture Dr

Madison

WI 53707

Phone : 800-442-4618

Fax Phone : 608-224-6276

Sample:

Field #: NTL-SUR

Sample #: IN000833

Collection Start: 07/10/2002 10:00 am

Collection End:

Collected by: SCHIEFFER

Waterbody/Outfall Id: 2623900

ID #: 493060

ID Point #:

County: Polk

Account #: LM009

Sample Location: NORTH TWIN LAKE

Sample Description: DEEP HOLE - SURFACE

Sample Source: SU

Sample Depth: M0.5

Date Reported: 08/19/2002

Sample Status: COMPLETE

Project No: LPL800

Analyses and Results:

Analysis Method		Analysis Date		Lab Comment			
VOLUME LAB FILT FOR CHLOROPHYLL A		07/17/2002		(SM 10200H)			
Code	Description	Cas No	Result	Units	LOD	Report Limit	LOQ
32000	SAMPLE SIZE LITERS		400	ML			

Analysis Method		Analysis Date		Lab Comment			
CHLOROPHYLL A, FLUORESCENCE		07/17/2002		(WELSCHMEYER 1994)			
Code	Description	Cas No	Result	Units	LOD	Report Limit	LOQ
99717	CHLOROPHYLL A, FLUORESCENCE (WELSCHMEYER 1994)	479618	1.19	UG/L	0.26		0.87

Analysis Method		Analysis Date		Lab Comment			
AMMONIA (AS N), DISS (EPA 350.1)		07/17/2002					
Code	Description	Cas No	Result	Units	LOD	Report Limit	LOQ
608	NITROGEN NH3-N DISS	7664417	ND	MGL	0.013		0.042

Analysis Method		Analysis Date		Lab Comment			
NITRATE+NITRITE (AS N), DISS (EPA 353.2)		07/17/2002					
Code	Description	Cas No	Result	Units	LOD	Report Limit	LOQ
631	NITROGEN NO3+NO2 DISS (AS N)	E701177	ND	MGL	0.01		0.031

Analysis Method		Analysis Date		Lab Comment			
TOTAL KJELDAHL NITROGEN (AS N) (EPA 351.2)		08/19/2002					

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Laboratory Report

08/19/2002

Lab: 113133790

Sample: IN000833

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Code	Description	Cas No	Result	Units	LOD	Report Limit	LOQ
625	NITROGEN KJELDAHL TOTAL	E1644079	0.49	MGL	0.14		0.4

Analysis Method		Analysis Date		Lab Comment			
TOTAL PHOSPHORUS (AS P) (EPA 365.1)		07/16/2002					
Code	Description	Cas No	Result	Units	LOD	Report Limit	LOQ
665	PHOSPHORUS TOTAL	7723140	0.011	MGL	0.005		0.016

Analysis Method		Analysis Date		Lab Comment			
DISS REACTIVE PHOSPHORUS AS P (ORTHO P)(SM 4500PE)		07/11/2002					
Code	Description	Cas No	Result	Units	LOD	Report Limit	LOQ
671	PHOSPHATE ORTHO DISS	7723140	0.002	MGL	0.002		0.006

Analysis Method		Analysis Date		Lab Comment			
SUSPENDED SOLIDS (EPA METHOD 160.2)		07/11/2002					
Code	Description	Cas No	Result	Units	LOD	Report Limit	LOQ
530	RESIDUE TOTAL NFLT (TOTAL SUSPENDED SOLIDS)	E1642818	3.	MGL	2		7

Analysis Method		Analysis Date		Lab Comment			
TEMPERATURE ON RECEIPT-ICED		07/11/2002					
Code	Description	Cas No	Result	Units	LOD	Report Limit	LOQ
136	TEMPERATURE AT LAB	E1645696	ICED	C		0	

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Laboratory Report

07/25/2002

Lab: 113133790

Sample: IN000836

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Laboratory: Wisconsin State Laboratory of Hygiene

DNR ID 113133790

2601 Agriculture Dr

Madison

WI 53707

Phone : 800-442-4618

Fax Phone : 608-224-6276

Sample:

Field #: NTL-BOT

Sample #: IN000836

Collection Start: 07/10/2002 10:15 am

Collection End:

Collected by: SCHIEFFER

Waterbody/Outfall Id: 2623900

ID #: 493060

ID Point #:

County: Polk

Account #: LM009

Sample Location: NORTH TWIN LAKE

Sample Description: DEEP HOLE - BOTTOM

Sample Source: SU

Sample Depth: M008

Date Reported: 07/24/2002

Sample Status: COMPLETE

Project No: LPL800

Analyses and Results:

Analysis Method		Analysis Date	Lab Comment				
AMMONIA (AS N), DISS (EPA 350.1)		07/17/2002					
Code	Description	Cas No	Result	Units	LOD	Report Limit	LOQ
608	NITROGEN NH3-N DISS	7664417	ND	MGL	0.013		0.042

Analysis Method		Analysis Date	Lab Comment				
NITRATE+NITRITE (AS N), DISS (EPA 353.2)		07/17/2002					
Code	Description	Cas No	Result	Units	LOD	Report Limit	LOQ
631	NITROGEN NO3+NO2 DISS (AS N)	E701177	ND	MGL	0.01		0.031

Analysis Method		Analysis Date	Lab Comment				
TOTAL KJELDAHL NITROGEN (AS N) (EPA 351.2)		07/19/2002					
Code	Description	Cas No	Result	Units	LOD	Report Limit	LOQ
625	NITROGEN KJELDAHL TOTAL	E1644079	0.53	MGL	0.14		0.4

Analysis Method		Analysis Date	Lab Comment				
TOTAL PHOSPHORUS (AS P) (EPA 365.1)		07/16/2002					
Code	Description	Cas No	Result	Units	LOD	Report Limit	LOQ
665	PHOSPHORUS TOTAL	7723140	0.035	MGL	0.005		0.016

Analysis Method		Analysis Date	Lab Comment				
DISS REACTIVE PHOSPHORUS AS P (ORTHOPHOSPHATE) (SM 4500PE)		07/11/2002					
Code	Description	Cas No	Result	Units	LOD	Report Limit	LOQ
671	PHOSPHATE ORTHO DISS	7723140	ND	MGL	0.002		0.006

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Lab: 113133790

Sample: IN000836

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Analysis Method		Analysis Date		Lab Comment			
SUSPENDED SOLIDS (EPA METHOD 160.2)		07/11/2002					
Code	Description	Cas No	Result	Units	LOD	Report Limit	LOQ
530	RESIDUE TOTAL NFLT (TOTAL SUSPENDED SOLIDS)	E1642818	11.	MGL	2		7

Analysis Method		Analysis Date		Lab Comment			
TEMPERATURE ON RECEIPT-ICED		07/11/2002					
Code	Description	Cas No	Result	Units	LOD	Report Limit	LOQ
136	TEMPERATURE AT LAB	E1645696	ICED	C		0	

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Lab: 113133790

Sample: IN000835

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Laboratory: Wisconsin State Laboratory of Hygiene

DNR ID 113133790

2601 Agriculture Dr

Madison

WI 53707

Phone: 800-442-4618

Fax Phone: 608-224-6276

Sample:

Field #: NTL-OUT

Sample #: IN000835

Collection Start: 07/10/2002 10:05 am

Collection End:

Collected by: SCHIEFFER

Waterbody/Outfall Id: 2623900

ID #: 493060

ID Point #:

County: Polk

Account #: LM009

Sample Location: NORTH TWIN LAKE

Sample Description: OUTLET @ CULVERT

Sample Source: SU

Sample Depth: M0.5

Date Reported: 07/24/2002

Sample Status: COMPLETE

Project No: LPL800

Analyses and Results:

Analysis Method		Analysis Date	Lab Comment				
AMMONIA (AS N), DISS (EPA 350.1)		07/17/2002					
Code	Description	Cas No	Result	Units	LOD	Report Limit	LOQ
608	NITROGEN NH3-N DISS	7664417	ND	MG/L	0.013		0.042

Analysis Method		Analysis Date	Lab Comment				
NITRATE+NITRITE (AS N), DISS (EPA 353.1)		07/17/2002					
Code	Description	Cas No	Result	Units	LOD	Report Limit	LOQ
631	NITROGEN NO3+NO2 DISS (AS N)	E701177	ND	MG/L	0.01		0.031

Analysis Method		Analysis Date	Lab Comment				
TOTAL KJELDAHL NITROGEN (AS N) (EPA 351.2)		07/19/2002					
Code	Description	Cas No	Result	Units	LOD	Report Limit	LOQ
625	NITROGEN KJELDAHL TOTAL	E1644079	0.40	MG/L	0.14		0.4

Analysis Method		Analysis Date	Lab Comment				
TOTAL PHOSPHORUS (AS P) (EPA 365.1)		07/16/2002					
Code	Description	Cas No	Result	Units	LOD	Report Limit	LOQ
665	PHOSPHORUS TOTAL	7723140	0.014	MG/L	0.005		0.016

Analysis Method		Analysis Date	Lab Comment				
DISS REACTIVE PHOSPHORUS AS P (ORTHOPHOSPHATE) (SM 4500PE)		07/11/2002					
Code	Description	Cas No	Result	Units	LOD	Report Limit	LOQ
671	PHOSPHATE ORTHO DISS	7723140	0.002	MG/L	0.002		0.006

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Laboratory Report

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Lab: 113133790

Sample: IN000835

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Analysis Method		Analysis Date		Lab Comment			
SUSPENDED SOLIDS (EPA METHOD 160.2)		07/11/2002					
Code	Description	Cas No	Result	Units	LOD	Report Limit	LOQ
530	RESIDUE TOTAL NFLT (TOTAL SUSPENDED SOLIDS)	E1642818	3.	MGL	2		7

Analysis Method		Analysis Date		Lab Comment			
TEMPERATURE ON RECEIPT-ICED		07/11/2002					
Code	Description	Cas No	Result	Units	LOD	Report Limit	LOQ
136	TEMPERATURE AT LAB	E1645696	ICED	C		0	

**Wisconsin Department of Natural Resources
Laboratory Report**

08/29/2002

Lab: 113133790

Sample: IN003316

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Laboratory: Wisconsin State Laboratory of Hygiene
2601 Agriculture Dr
Madison WI 53707
Phone : 800-442-4618 Fax Phone : 608-224-6276

DNR ID 113133790

Sample:

Field #: NTL-SUR	Sample #: IN003316
Collection Start: 08/07/2002 10:00 am	Collection End:
Collected by: SCHIEFFER	Waterbody/Outfall Id: 2623900
ID #: 493060	ID Point #:
County: Polk	Account #: LM009
Sample Location: NORTH TWIN LAKE	
Sample Description: DEEP HOLE-SURFACE	
Sample Source: SU	Sample Depth: M0.5
Date Reported: 08/28/2002	Sample Status: COMPLETE
Project No: LPL800	

Analyses and Results:

Analysis Method		Analysis Date		Lab Comment			
VOLUME LAB FILT FOR CHLOROPHYLL (SM 10200H)		08/16/2002					
Code	Description	Cas No	Result	Units	LOD	Report Limit	LOQ
32000	SAMPLE SIZE LITERS		200	ML			

Analysis Method		Analysis Date		Lab Comment			
CHLOROPHYLL A, FLUORESCENCE (WELSCHMEYER 1994)		08/16/2002					
Code	Description	Cas No	Result	Units	LOD	Report Limit	LOQ
99717	CHLOROPHYLL A, FLUORESCENCE (WELSCHMEYER 1994)	479618	0.52	UG/L	0.26		0.87

Analysis Method		Analysis Date		Lab Comment			
AMMONIA (AS N), DISS (EPA 350.1)		08/15/2002					
Code	Description	Cas No	Result	Units	LOD	Report Limit	LOQ
608	NITROGEN NH3-N DISS	7664417	0.047	MGL	0.013		0.042

Analysis Method		Analysis Date		Lab Comment			
NITRATE+NITRITE (AS N), DISS (EPA 353.2)		08/15/2002					
Code	Description	Cas No	Result	Units	LOD	Report Limit	LOQ
631	NITROGEN NO3+NO2 DISS (AS N)	E701177	ND	MGL	0.01		0.031

Analysis Method		Analysis Date		Lab Comment			
TOTAL KJELDAHL NITROGEN (AS N) (EPA 351.2)		08/14/2002					

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Laboratory Report

08/29/2002

Lab: 113133790

Sample: IN003316

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Code	Description	Cas No	Result	Units	LOD	Report Limit	LOQ
625	NITROGEN KJELDAHL TOTAL	E1644079	0.50	MGL	0.14		0.4

Analysis Method		Analysis Date		Lab Comment			
TOTAL PHOSPHORUS (AS P) (EPA 365.1)		08/12/2002					
Code	Description	Cas No	Result	Units	LOD	Report Limit	LOQ
665	PHOSPHORUS TOTAL	7723140	0.019	MGL	0.005		0.016

Analysis Method		Analysis Date		Lab Comment			
DISS REACTIVE PHOSPHORUS AS P (ORTHO P)(SM 4500PE)		08/08/2002					
Code	Description	Cas No	Result	Units	LOD	Report Limit	LOQ
671	PHOSPHATE ORTHO DISS	7723140	ND	MGL	0.002		0.006

Analysis Method		Analysis Date		Lab Comment			
SUSPENDED SOLIDS (EPA METHOD 160.2)		08/09/2002					
Code	Description	Cas No	Result	Units	LOD	Report Limit	LOQ
530	RESIDUE TOTAL NFLT (TOTAL SUSPENDED SOLIDS)	E1642818	3.	MGL	2		7

Analysis Method		Analysis Date		Lab Comment			
TEMPERATURE ON RECEIPT-ICED		08/08/2002					
Code	Description	Cas No	Result	Units	LOD	Report Limit	LOQ
136	TEMPERATURE AT LAB	E1645696	ICED	C		0	

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Lab: 113133790

Sample: IN003311

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Laboratory: Wisconsin State Laboratory of Hygiene

DNR ID 113133790

2601 Agriculture Dr

Madison

WI 53707

Phone: 800-442-4618

Fax Phone: 608-224-6276

Sample:

Field #: NTL-BOT

Sample #: IN003311

Collection Start: 08/07/2002 10:15 am

Collection End:

Collected by: SCHIEFFER

Waterbody/Outfall Id: 2623900

ID #: 493060

ID Point #:

County: Polk

Account #: LM009

Sample Location: NORTH TWIN LAKE

Sample Description: DEEP HOLE-BOTTOM

Sample Source: SU

Sample Depth: M008

Date Reported: 08/28/2002

Sample Status: COMPLETE

Project No: LPL800

Analyses and Results:

Analysis Method		Analysis Date		Lab Comment			
AMMONIA (AS N), DISS (EPA 350.1)		08/15/2002					
Code	Description	Cas No	Result	Units	LOD	Report Limit	LOQ
608	NITROGEN NH3-N DISS	7664417	0.018	MGL	0.013		0.042

Analysis Method		Analysis Date		Lab Comment			
NITRATE+NITRITE (AS N), DISS (EPA 353.2)		08/15/2002					
Code	Description	Cas No	Result	Units	LOD	Report Limit	LOQ
631	NITROGEN NO3+NO2 DISS (AS N)	E701177	ND	MGL	0.01		0.031

Analysis Method		Analysis Date		Lab Comment			
TOTAL KJELDAHL NITROGEN (AS N) (EPA 351.2)		08/14/2002					
Code	Description	Cas No	Result	Units	LOD	Report Limit	LOQ
625	NITROGEN KJELDAHL TOTAL	E1644079	1.21	MGL	0.14		0.4

Analysis Method		Analysis Date		Lab Comment			
TOTAL PHOSPHORUS (AS P) (EPA 365.1)		08/12/2002					
Code	Description	Cas No	Result	Units	LOD	Report Limit	LOQ
665	PHOSPHORUS TOTAL	7723140	0.093	MGL	0.005		0.016

Analysis Method		Analysis Date		Lab Comment			
DISS REACTIVE PHOSPHORUS AS P (ORTHOPHOSPHATE) (SM 4500PE)		08/08/2002					
Code	Description	Cas No	Result	Units	LOD	Report Limit	LOQ
671	PHOSPHATE ORTHO DISS	7723140	0.003	MGL	0.002		0.006

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Lab: 113133790

Sample: IN003311

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Analysis Method		Analysis Date		Lab Comment			
SUSPENDED SOLIDS (EPA METHOD 160.2)		08/09/2002					
Code	Description	Cas No	Result	Units	LOD	Report Limit	LOQ
530	RESIDUE TOTAL NFLT (TOTAL SUSPENDED SOLIDS)	E1642818	25.	MGL	2		7

Analysis Method		Analysis Date		Lab Comment			
TEMPERATURE ON RECEIPT-ICED		08/08/2002					
Code	Description	Cas No	Result	Units	LOD	Report Limit	LOQ
136	TEMPERATURE AT LAB	E1645696	ICED	C		0	

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Lab: 113133790

Sample: IN003312

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Laboratory: Wisconsin State Laboratory of Hygiene

DNR ID 113133790

2601 Agriculture Dr

Madison

WI 53707

Phone : 800-442-4618

Fax Phone : 608-224-6276

Sample:

Field #: NTL-OUT

Sample #: IN003312

Collection Start: 08/07/2002 10:30 am

Collection End:

Collected by: SCHIEFFER

Waterbody/Outfall Id: 2623900

ID #: 493060

ID Point #:

County: Polk

Account #: LM009

Sample Location: NORTH TWIN LAKE

Sample Description: OUTLET @ CULVERT

Sample Source: SU

Sample Depth: M0.5

Date Reported: 08/28/2002

Sample Status: COMPLETE

Project No: LPL800

Analyses and Results:

Analysis Method		Analysis Date		Lab Comment			
AMMONIA (AS N), DISS (EPA 350.1)		08/15/2002					
Code	Description	Cas No	Result	Units	LOD	Report Limit	LOQ
608	NITROGEN NH3-N DISS	7664417	0.024	MGL	0.013		0.042

Analysis Method		Analysis Date		Lab Comment			
NITRATE+NITRITE (AS N), DISS (EPA 353.2)		08/15/2002					
Code	Description	Cas No	Result	Units	LOD	Report Limit	LOQ
631	NITROGEN NO3+NO2 DISS (AS N)	E701177	ND	MGL	0.01		0.031

Analysis Method		Analysis Date		Lab Comment			
TOTAL KJELDAHL NITROGEN (AS N) (EPA 351.2)		08/14/2002					
Code	Description	Cas No	Result	Units	LOD	Report Limit	LOQ
625	NITROGEN KJELDAHL TOTAL	E1644079	0.46	MGL	0.14		0.4

Analysis Method		Analysis Date		Lab Comment			
TOTAL PHOSPHORUS (AS P) (EPA 365.1)		08/12/2002					
Code	Description	Cas No	Result	Units	LOD	Report Limit	LOQ
665	PHOSPHORUS TOTAL	7723140	0.013	MGL	0.005		0.016

Analysis Method		Analysis Date		Lab Comment			
DISS REACTIVE PHOSPHORUS AS P (ORTHOPHOSPHATE) (SM 4500PE)		08/08/2002					
Code	Description	Cas No	Result	Units	LOD	Report Limit	LOQ
671	PHOSPHATE ORTHO DISS	7723140	ND	MGL	0.002		0.006

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Laboratory Report

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Lab: 113133790

Sample: IN003312

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Analysis Method		Analysis Date		Lab Comment			
SUSPENDED SOLIDS (EPA METHOD 160.2)		08/09/2002					
Code	Description	Cas No	Result	Units	LOD	Report Limit	LOQ
530	RESIDUE TOTAL NFLT (TOTAL SUSPENDED SOLIDS)	E1642818	ND	MGL	2		7

Analysis Method		Analysis Date		Lab Comment			
TEMPERATURE ON RECEIPT-ICED		08/08/2002					
Code	Description	Cas No	Result	Units	LOD	Report Limit	LOQ
136	TEMPERATURE AT LAB	E1645696	ICED	C		0	

**Wisconsin Department of Natural Resources
Laboratory Report**

10/25/2002

Lab: 113133790

Sample: IN007167

Entered on
6-18-03
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Laboratory: Wisconsin State Laboratory of Hygiene
2601 Agriculture Dr
Madison WI 53707
Phone: 800-442-4618 Fax Phone: 608-224-6276

DNR ID 113133790

Sample:

Field #: NT-SUR	Sample #: IN007167
Collection Start: 09/18/2002 03:00 pm	Collection End:
Collected by: SCHIEFFER	Waterbody/Outfall Id: 2623900
ID #: 493060	ID Point #:
County: Polk	Account #: LM009
Sample Location: NORTH TWIN LAKE	
Sample Description: DEEP HOLE - SURFACE	
Sample Source: SU	Sample Depth:
Date Reported: 10/25/2002	Sample Status: COMPLETE
Project No: LPL800	

Analyses and Results:

Analysis Method		Analysis Date		Lab Comment			
VOLUME LAB FILT FOR CHLOROPHYLL A0/01/2002 (SM 10200H)							
Code	Description	Cas No	Result	Units	LOD	Report Limit	LOQ
32000	SAMPLE SIZE LITERS		100	ML			

Analysis Method		Analysis Date		Lab Comment			
CHLOROPHYLL A, FLUORESCENCE (WELSCHMEYER 1994)		10/02/2002					
Code	Description	Cas No	Result	Units	LOD	Report Limit	LOQ
99717	CHLOROPHYLL A, FLUORESCENCE (WELSCHMAYER 1994)	479618	4.46	UG/L	0.26		0.87

Analysis Method		Analysis Date		Lab Comment			
AMMONIA (AS N), DISS (EPA 350.1)		10/08/2002					
Code	Description	Cas No	Result	Units	LOD	Report Limit	LOQ
608	NITROGEN NH3-N DISS	7664417	0.016	MGL	0.013		0.042

Analysis Method		Analysis Date		Lab Comment			
NITRATE+NITRITE (AS N), DISS (EPA 353.1)10/08/2002							
Code	Description	Cas No	Result	Units	LOD	Report Limit	LOQ
631	NITROGEN NO3+NO2 DISS (AS N)	E701177	ND	MGL	0.022		0.075

Analysis Method		Analysis Date		Lab Comment			
TOTAL KJELDAHL NITROGEN (AS N) (EPA 9/24/2002 351.2)							

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Laboratory Report

10/25/2002

Lab: 113133790

Sample: IN007167

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Code	Description	Cas No	Result	Units	LOD	Report Limit	LOQ
625	NITROGEN KJELDAHL TOTAL	E1644079	0.64	MGL	0.14		0.4

Analysis Method		Analysis Date		Lab Comment			
TOTAL PHOSPHORUS (AS P) (EPA 365.1)		09/20/2002					
Code	Description	Cas No	Result	Units	LOD	Report Limit	LOQ
665	PHOSPHORUS TOTAL	7723140	0.011	MGL	0.005		0.016

Analysis Method		Analysis Date		Lab Comment			
DISS REACTIVE PHOSPHORUS AS P (ORTHOPHOSPHATE) (SM 4500PE)		09/19/2002					
Code	Description	Cas No	Result	Units	LOD	Report Limit	LOQ
671	PHOSPHATE ORTHO DISS	7723140	0.003	MGL	0.002		0.006

Analysis Method		Analysis Date		Lab Comment			
SUSPENDED SOLIDS (EPA METHOD 160.2)		09/25/2002					
Code	Description	Cas No	Result	Units	LOD	Report Limit	LOQ
530	RESIDUE TOTAL NFLT (TOTAL SUSPENDED SOLIDS)	E1642818	ND	MGL	2		7

Analysis Method		Analysis Date		Lab Comment			
TEMPERATURE ON RECEIPT-ICED		09/19/2002					
Code	Description	Cas No	Result	Units	LOD	Report Limit	LOQ
136	TEMPERATURE AT LAB	E1645696	ICED	C		0	

Wisconsin Department of Natural Resources

Laboratory Report

10/15/2002

Lab: 113133790

Sample: IN007168

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Laboratory: Wisconsin State Laboratory of Hygiene

DNR ID 113133790

2601 Agriculture Dr

Madison

WI 53707

Phone : 800-442-4618

Fax Phone : 608-224-6276

Sample:

Field #: NT-BOT

Sample #: IN007168

Collection Start: 09/18/2002 03:00 pm

Collection End:

Collected by: SCHIEFFER

Waterbody/Outfall Id: 2623900

ID #: 493060

ID Point #:

County: Polk

Account #: LM009

Sample Location: NORTH TWIN LAKE

Sample Description: DEEP HOLE - BOTTOM

Sample Source: SU

Sample Depth:

Date Reported: 10/15/2002

Sample Status: COMPLETE

Project No: LPL800

Analyses and Results:

Analysis Method		Analysis Date		Lab Comment			
AMMONIA (AS N), DISS (EPA 350.1)		10/08/2002					
Code	Description	Cas No	Result	Units	LOD	Report Limit	LOQ
608	NITROGEN NH3-N DISS	7664417	0.450	MGL	0.013		0.042

Analysis Method		Analysis Date		Lab Comment			
NITRATE+NITRITE (AS N), DISS (EPA 353.1)		10/08/2002					
Code	Description	Cas No	Result	Units	LOD	Report Limit	LOQ
631	NITROGEN NO3+NO2 DISS (AS N)	E701177	ND	MGL	0.022		0.075

Analysis Method		Analysis Date		Lab Comment			
TOTAL KJELDAHL NITROGEN (AS N) (EPA 351.2)		09/24/2002					
Code	Description	Cas No	Result	Units	LOD	Report Limit	LOQ
625	NITROGEN KJELDAHL TOTAL	E1644079	1.18	MGL	0.14		0.4

Analysis Method		Analysis Date		Lab Comment			
TOTAL PHOSPHORUS (AS P) (EPA 365.1)		09/20/2002					
Code	Description	Cas No	Result	Units	LOD	Report Limit	LOQ
665	PHOSPHORUS TOTAL	7723140	0.048	MGL	0.005		0.016

Analysis Method		Analysis Date		Lab Comment			
DISS REACTIVE PHOSPHORUS AS P (ORTHOPHOSPHATE) (SM 4500PE)		10/19/2002					
Code	Description	Cas No	Result	Units	LOD	Report Limit	LOQ
671	PHOSPHATE ORTHO DISS	7723140	ND	MGL	0.002		0.006

Wisconsin Department of Natural Resources
Laboratory Report

10/15/2002

Lab: 113133790

Sample: IN007168

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Analysis Method		Analysis Date		Lab Comment			
SUSPENDED SOLIDS (EPA METHOD 160.2)		09/25/2002					
Code	Description	Cas No	Result	Units	LOD	Report Limit	LOQ
530	RESIDUE TOTAL NFLT (TOTAL SUSPENDED SOLIDS)	E1642818	28.	MGL	2		7

Analysis Method		Analysis Date		Lab Comment			
TEMPERATURE ON RECEIPT-ICED		09/19/2002					
Code	Description	Cas No	Result	Units	LOD	Report Limit	LOQ
136	TEMPERATURE AT LAB	E1645696	ICED	C		0	

Wisconsin Department of Natural Resources
Laboratory Report

10/15/2002

Lab: 113133790

Sample: IN007169

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Laboratory: Wisconsin State Laboratory of Hygiene

DNR ID 113133790

2601 Agriculture Dr

Madison

WI 53707

Phone: 800-442-4618

Fax Phone: 608-224-6276

Sample:

Field #: NT-OUT

Sample #: IN007169

Collection Start: 09/18/2002 03:00 pm

Collection End:

Collected by: SCHIEFFER

Waterbody/Outfall Id: 2623900

ID #: 493060

ID Point #:

County: Polk

Account #: LM009

Sample Location: NORTH TWIN LAKE

Sample Description: OUTLET AT CULVERT

Sample Source: SU

Sample Depth:

Date Reported: 10/15/2002

Sample Status: COMPLETE

Project No: LPL800

Analyses and Results:

Analysis Method		Analysis Date		Lab Comment			
AMMONIA (AS N), DISS (EPA 350.1)		10/08/2002					
Code	Description	Cas No	Result	Units	LOD	Report Limit	LOQ
608	NITROGEN NH3-N DISS	7664417	ND	MGL	0.013		0.042

Analysis Method		Analysis Date		Lab Comment			
NITRATE+NITRITE (AS N), DISS (EPA 353.1)		10/08/2002					
Code	Description	Cas No	Result	Units	LOD	Report Limit	LOQ
631	NITROGEN NO3+NO2 DISS (AS N)	E701177	ND	MGL	0.022		0.075

Analysis Method		Analysis Date		Lab Comment			
TOTAL KJELDAHL NITROGEN (AS N) (EPA 351.2)		09/24/2002					
Code	Description	Cas No	Result	Units	LOD	Report Limit	LOQ
625	NITROGEN KJELDAHL TOTAL	E1644079	0.52	MGL	0.14		0.4

Analysis Method		Analysis Date		Lab Comment			
TOTAL PHOSPHORUS (AS P) (EPA 365.1)		09/20/2002					
Code	Description	Cas No	Result	Units	LOD	Report Limit	LOQ
665	PHOSPHORUS TOTAL	7723140	0.012	MGL	0.005		0.016

Analysis Method		Analysis Date		Lab Comment			
DISS REACTIVE PHOSPHORUS AS P (ORTHOPHOSPHATE) (SM 4500PE)		10/09/2002					
Code	Description	Cas No	Result	Units	LOD	Report Limit	LOQ
671	PHOSPHATE ORTHO DISS	7723140	ND	MGL	0.002		0.006

Wisconsin Department of Natural Resources
Laboratory Report

10/15/2002

Lab: 113133790

Sample: IN007169

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Analysis Method		Analysis Date		Lab Comment			
SUSPENDED SOLIDS (EPA METHOD 160.2)		09/25/2002					
Code	Description	Cas No	Result	Units	LOD	Report Limit	LOQ
530	RESIDUE TOTAL NFLT (TOTAL SUSPENDED SOLIDS)	E1642818	ND	MGL	2		7

Analysis Method		Analysis Date		Lab Comment			
TEMPERATURE ON RECEIPT-ICED		09/19/2002					
Code	Description	Cas No	Result	Units	LOD	Report Limit	LOQ
136	TEMPERATURE AT LAB	E1645696	ICED	C		0	

Wisconsin Department of Natural Resources

Laboratory Report

7-12-03

Entered

08/01/2003

Lab: 113133790

Sample: IN022887

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Laboratory: Wisconsin State Laboratory of Hygiene

DNR ID 113133790

2601 Agriculture Dr.

Madison

WI 53718

Phone : 800-442-4618

Fax Phone : 608-224-6276

Sample:

Field #: NTL-SUR

Sample #: IN022887

Collection Start: 06/05/2003 01:00 pm

Collection End:

Collected by: SCHIEFFER

Waterbody/Outfall Id: 2623900

ID #: 493060

ID Point #:

County: Polk

Account #: LM009

Sample Location: NORTH TWIN LAKE

Sample Description: DEEP HOLE - SURFACE

Sample Source: SU

Sample Depth: M0.50

Date Reported: 07/28/2003

Sample Status: COMPLETE

Project No: LPL800

Analyses and Results:

Analysis Method		Analysis Date		Lab Comment			
VOLUME LAB FILT FOR CHLOROPHYLL A		06/19/2003					
Code	Description	Cas No	Result	Units	LOD	Report Limit	LOQ
32000	SAMPLE SIZE LITERS		200	ML			

Analysis Method		Analysis Date		Lab Comment			
CHLOROPHYLL A, FLUORESCENCE (WELS)		06/20/2003					
Code	Description	Cas No	Result	Units	LOD	Report Limit	LOQ
99717	CHLOROPHYLL A, FLUORESCENCE (WELCHMAYER 1994)	479618	1.38	UGL	0.26		0.87

Analysis Method		Analysis Date		Lab Comment			
AMMONIA (AS N), DISS (EPA 350.1)		06/12/2003					
Code	Description	Cas No	Result	Units	LOD	Report Limit	LOQ
608	NITROGEN NH3-N DISS	7664417	0.058	MGL	0.013		0.042

Analysis Method		Analysis Date		Lab Comment			
NITRATE+NITRITE (AS N), DISS (EPA 353.2)		06/18/2003					
Code	Description	Cas No	Result	Units	LOD	Report Limit	LOQ
631	NITROGEN NO3+NO2 DISS (AS N)	E701177	ND	MGL	0.022		0.075

Analysis Method		Analysis Date		Lab Comment			
TOTAL KJELDAHL NITROGEN (AS N) (EPA 306.20/2003)							
Code	Description	Cas No	Result	Units	LOD	Report Limit	LOQ
625	NITROGEN KJELDAHL TOTAL	E1644079	0.46	MGL	0.14		0.4

Wisconsin Department of Natural Resources
Laboratory Report

08/01/2003

Lab: 113133790

Sample: IN022887

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Analysis Method		Analysis Date		Lab Comment			
TOTAL PHOSPHORUS (AS P) (EPA 365.1)		06/12/2003					
Code	Description	Cas No	Result	Units	LOD	Report Limit	LOQ
665	PHOSPHORUS TOTAL	7723140	0.018	MGL	0.005		0.016

Analysis Method		Analysis Date		Lab Comment			
DISS REACTIVE PHOSPHORUS AS P (ORTH06/06/2003							
Code	Description	Cas No	Result	Units	LOD	Report Limit	LOQ
671	PHOSPHATE ORTHO DISS	7723140	ND	MGL	0.002		0.006

Analysis Method		Analysis Date		Lab Comment			
SUSPENDED SOLIDS (EPA METHOD 160.2)		06/10/2003					
Code	Description	Cas No	Result	Units	LOD	Report Limit	LOQ
530	RESIDUE TOTAL NFLT (TOTAL SUSPENDED SOLIDS)	E1642818	ND	MGL	2		7

Analysis Method		Analysis Date		Lab Comment			
TEMPERATURE ON RECEIPT-ICED		06/06/2003					
Code	Description	Cas No	Result	Units	LOD	Report Limit	LOQ
136	TEMPERATURE AT LAB	E1645696	ICED	C		0	

Wisconsin Department of Natural Resources

Laboratory Report

06/30/2003

Lab: 113133790

Sample: IN022891

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Laboratory: Wisconsin State Laboratory of Hygiene

DNR ID 113133790

2601 Agriculture Dr.

Madison

WI 53718

Phone: 800-442-4618

Fax Phone: 608-224-6276

Sample:

Field #: NTL-BOT

Sample #: IN022891

Collection Start: 06/05/2003 01:00 pm

Collection End:

Collected by: SCHIEFFER

Waterbody/Outfall Id: 2623900

ID #: 493060

ID Point #:

County: Polk

Account #: LM009

Sample Location: NORTH TWIN LAKE

Sample Description: DEEP HOLE - BOTTOM

Sample Source: SU

Sample Depth: M10

Date Reported: 06/27/2003

Sample Status: COMPLETE

Project No: LPL800

Analyses and Results:

Analysis Method		Analysis Date	Lab Comment				
AMMONIA (AS N), DISS (EPA 350.1)		06/12/2003					
Code	Description	Cas No	Result	Units	LOD	Report Limit	LOQ
608	NITROGEN NH3-N DISS	7664417	0.176	MGL	0.013		0.042

Analysis Method		Analysis Date	Lab Comment				
NITRATE+NITRITE (AS N), DISS (EPA 353.2)		06/18/2003					
Code	Description	Cas No	Result	Units	LOD	Report Limit	LOQ
631	NITROGEN NO3+NO2 DISS (AS N)	E701177	ND	MGL	0.022		0.075

Analysis Method		Analysis Date	Lab Comment				
TOTAL KJELDAHL NITROGEN (AS N) (EPA 306.20/2003)							
Code	Description	Cas No	Result	Units	LOD	Report Limit	LOQ
625	NITROGEN KJELDAHL TOTAL	E1644079	10.2	MGL	0.14		0.4

Analysis Method		Analysis Date	Lab Comment				
TOTAL PHOSPHORUS (AS P) (EPA 365.1)		06/12/2003					
Code	Description	Cas No	Result	Units	LOD	Report Limit	LOQ
665	PHOSPHORUS TOTAL	7723140	0.589	MGL	0.005		0.016

Analysis Method		Analysis Date	Lab Comment				
DISS REACTIVE PHOSPHORUS AS P (ORTHO)		06/06/2003					
Code	Description	Cas No	Result	Units	LOD	Report Limit	LOQ
671	PHOSPHATE ORTHO DISS	7723140	ND	MGL	0.002		0.006

Analysis Method		Analysis Date	Lab Comment				
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Wisconsin Department of Natural Resources

Laboratory Report

06/30/2003

Lab: 113133790

Sample: IN022891

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SUSPENDED SOLIDS (EPA METHOD 160.2) 06/10/2003

Code	Description	Cas No	Result	Units	LOD	Report Limit	LOQ
530	RESIDUE TOTAL NFLT (TOTAL SUSPENDED SOLIDS)	E1642818		5. MG/L	2		7

Analysis Method

Analysis Date Lab Comment

TEMPERATURE ON RECEIPT-ICED

06/06/2003

Code	Description	Cas No	Result	Units	LOD	Report Limit	LOQ
136	TEMPERATURE AT LAB	E1645696	ICED C			0	

Wisconsin Department of Natural Resources

Laboratory Report

06/30/2003

Lab: 113133790

Sample: IN022890

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Laboratory: Wisconsin State Laboratory of Hygiene

DNR ID 113133790

2601 Agriculture Dr.

Madison

WI 53718

Phone: 800-442-4618

Fax Phone: 608-224-6276

Sample:

Field #: NTL-OUT

Sample #: IN022890

Collection Start: 06/05/2003 01:00 pm

Collection End:

Collected by: SCHIEFFER

Waterbody/Outfall Id: 2623900

ID #: 493060

ID Point #:

County: Polk

Account #: LM009

Sample Location: NORTH TWIN LAKE

Sample Description: OUTLET @ CULVERT

Sample Source: SU

Sample Depth: M0.5

Date Reported: 06/27/2003

Sample Status: COMPLETE

Project No: LPL800

Analyses and Results:

Analysis Method		Analysis Date		Lab Comment			
AMMONIA (AS N), DISS (EPA 350.1)		06/12/2003					
Code	Description	Cas No	Result	Units	LOD	Report Limit	LOQ
608	NITROGEN NH3-N DISS	7664417	0.085	MGL	0.013		0.042

Analysis Method		Analysis Date		Lab Comment			
NITRATE+NITRITE (AS N), DISS (EPA 353.2)		06/18/2003					
Code	Description	Cas No	Result	Units	LOD	Report Limit	LOQ
631	NITROGEN NO3+NO2 DISS (AS N)	E701177	ND	MGL	0.022		0.075

Analysis Method		Analysis Date		Lab Comment			
TOTAL KJELDAHL NITROGEN (AS N) (EPA 360.20/2003)							
Code	Description	Cas No	Result	Units	LOD	Report Limit	LOQ
625	NITROGEN KJELDAHL TOTAL	E1644079	0.40	MGL	0.14		0.4

Analysis Method		Analysis Date		Lab Comment			
TOTAL PHOSPHORUS (AS P) (EPA 365.1)		06/12/2003					
Code	Description	Cas No	Result	Units	LOD	Report Limit	LOQ
665	PHOSPHORUS TOTAL	7723140	0.019	MGL	0.005		0.016

Analysis Method		Analysis Date		Lab Comment			
DISS REACTIVE PHOSPHORUS AS P (ORTHO) (EPA 365.1)		06/06/2003					
Code	Description	Cas No	Result	Units	LOD	Report Limit	LOQ
671	PHOSPHATE ORTHO DISS	7723140	ND	MGL	0.002		0.006

Analysis Method		Analysis Date		Lab Comment			
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Wisconsin Department of Natural Resources
Laboratory Report

06/30/2003

Lab: 113133790

Sample: IN022890

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SUSPENDED SOLIDS (EPA METHOD 160.2) 06/10/2003

Code	Description	Cas No	Result	Units	LOD	Report Limit	LOQ
530	RESIDUE TOTAL NFLT (TOTAL SUSPENDED SOLIDS)	E1642818	ND	MGL	2		7

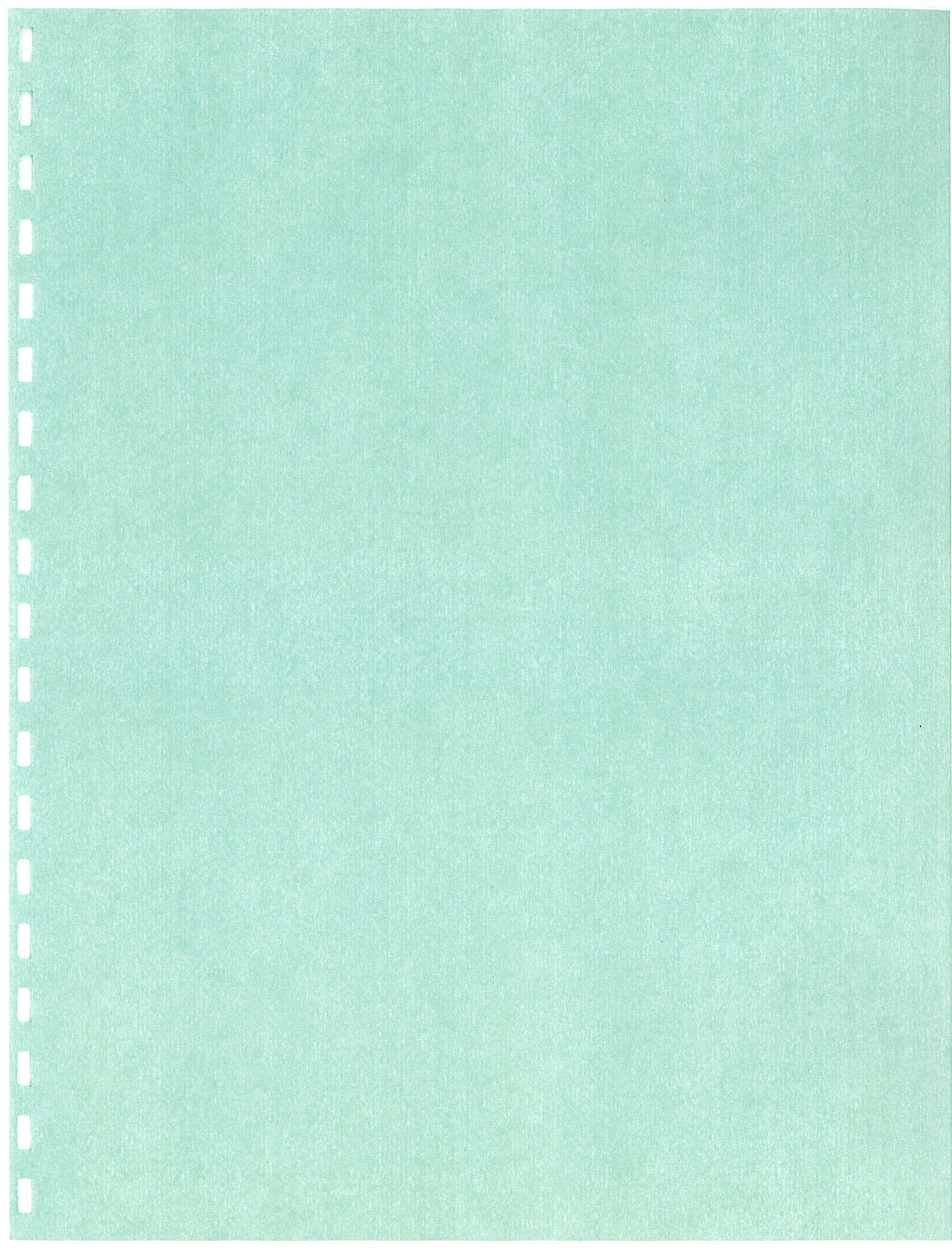
Analysis Method

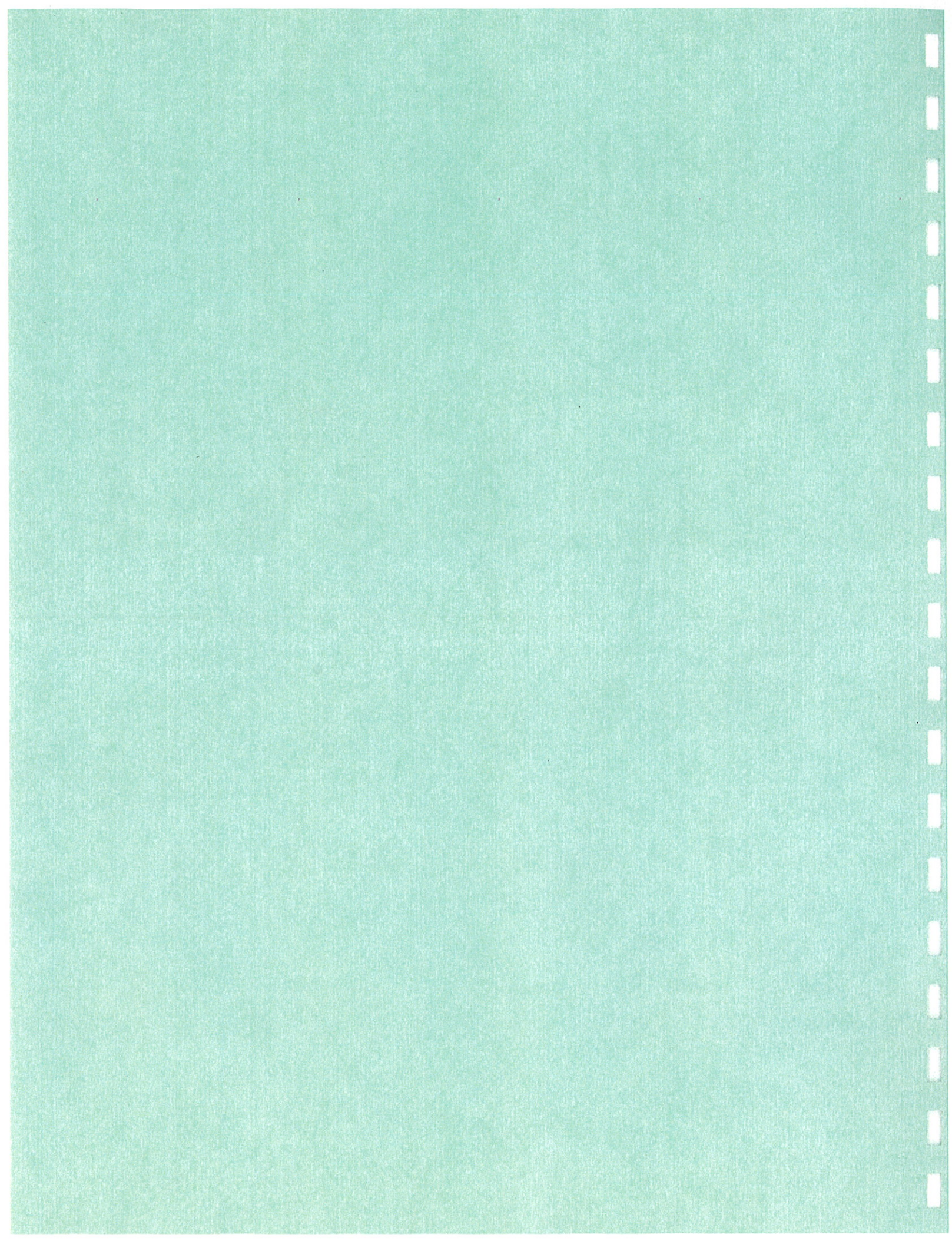
Analysis Date Lab Comment

TEMPERATURE ON RECEIPT-ICED

06/06/2003

Code	Description	Cas No	Result	Units	LOD	Report Limit	LOQ
136	TEMPERATURE AT LAB	E1645696	ICED	C		0	





Wisconsin Department of Natural Resources

Laboratory Report

06/04/2002

Lab: 113133790

Sample: IM022632

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Laboratory: Wisconsin State Laboratory of Hygiene

DNR ID 113133790

2601 Agriculture Dr

Madison

WI 53707

Phone: 800-442-4618

Fax Phone: 608-224-6276

Sample:

Field #: NT-RNF

Sample #: IM022632

Collection Start: 05/08/2002 06:45 pm

Collection End:

Collected by: SCHIEFFER

Waterbody/Outfall Id:

ID #:

ID Point #:

County: Polk

Account #: LM008

Sample Location: STORM WATER DISCHARGE PIPE TO NORTH TWIN LAKE

Sample Description: STORM WATER RUNOFF SAMPLE

Sample Source: NP

Sample Depth:

Date Reported: 06/04/2002

Sample Status: COMPLETE

Project No: LPL800

Analyses and Results:

Analysis Method		Analysis Date		Lab Comment			
AMMONIA (AS N), DISS (EPA 350.1)		05/14/2002					
Code	Description	Cas No	Result	Units	LOD	Report Limit	LOQ
608	NITROGEN NH3-N DISS	7664417	1.32	MGL	0.013		0.042

Analysis Method		Analysis Date		Lab Comment			
NITRATE+NITRITE (AS N), DISS (EPA 353.1)		05/14/2002					
Code	Description	Cas No	Result	Units	LOD	Report Limit	LOQ
631	NITROGEN NO3+NO2 DISS (AS N)	E701177	0.799	MGL	0.01		0.031

Analysis Method		Analysis Date		Lab Comment			
TOTAL KJELDAHL NITROGEN (AS N) (EPA 351.2)		05/22/2002					
Code	Description	Cas No	Result	Units	LOD	Report Limit	LOQ
625	NITROGEN KJELDAHL TOTAL	E1644079	3.74	MGL	0.14		0.4

Analysis Method		Analysis Date		Lab Comment			
TOTAL PHOSPHORUS (AS P) (EPA 365.1)		05/15/2002					
Code	Description	Cas No	Result	Units	LOD	Report Limit	LOQ
665	PHOSPHORUS TOTAL	7723140	0.475	MGL	0.005		0.016

Analysis Method		Analysis Date		Lab Comment			
DISS REACTIVE PHOSPHORUS AS P (ORTHOPHOSPHATE) (SM 4500PE)		05/10/2002					
Code	Description	Cas No	Result	Units	LOD	Report Limit	LOQ
671	PHOSPHATE ORTHO DISS	7723140	0.043	MGL	0.002		0.006

Wisconsin Department of Natural Resources
Laboratory Report

06/04/2002

Lab: 113133790

Sample: IM022632

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Analysis Method		Analysis Date	Lab Comment				
SUSPENDED SOLIDS (EPA METHOD 160.2)		05/14/2002					
Code	Description	Cas No	Result	Units	LOD	Report Limit	LOQ
530	RESIDUE TOTAL NFLT (TOTAL SUSPENDED SOLIDS)	E1642818	180.	MG/L	2		7

Analysis Method		Analysis Date	Lab Comment				
TEMPERATURE ON RECEIPT-ICED		05/10/2002					
Code	Description	Cas No	Result	Units	LOD	Report Limit	LOQ
136	TEMPERATURE AT LAB	E1645696	ICED	C		0	

Wisconsin Department of Natural Resources
Laboratory Report

06/04/2002

Lab: 113133790

Sample: IM022635

Page 1 of 2

Laboratory: Wisconsin State Laboratory of Hygiene
2601 Agriculture Dr
Madison WI 53707
Phone: 800-442-4618 Fax Phone: 608-224-6276

DNR ID 113133790

Sample:

Field #: NT-RNF2 Sample #: IM022635
Collection Start: 05/08/2002 07:10 pm Collection End:
Collected by: SCHIEFFER Waterbody/Outfall Id:
ID #: ID Point #:
County: Polk Account #: LM008
Sample Location: STORM WATER DISCHARGE PIPE TO NORTH TWIN LAKE
Sample Description: STORM WATER RUNOFF SAMPLE
Sample Source: NP Sample Depth:
Date Reported: 06/04/2002 Sample Status: COMPLETE
Project No: LPL800

Analyses and Results:

Analysis Method		Analysis Date		Lab Comment			
AMMONIA (AS N), DISS (EPA 350.1)		05/14/2002					
Code	Description	Cas No	Result	Units	LOD	Report Limit	LOQ
608	NITROGEN NH3-N DISS	7664417	0.537	MGL	0.013		0.042

Analysis Method		Analysis Date		Lab Comment			
NITRATE+NITRITE (AS N), DISS (EPA 353.2)		05/14/2002					
Code	Description	Cas No	Result	Units	LOD	Report Limit	LOQ
631	NITROGEN NO3+NO2 DISS (AS N)	E701177	0.273	MGL	0.01		0.031

Analysis Method		Analysis Date		Lab Comment			
TOTAL KJELDAHL NITROGEN (AS N) (EPA 351.2)		05/22/2002					
Code	Description	Cas No	Result	Units	LOD	Report Limit	LOQ
625	NITROGEN KJELDAHL TOTAL	E1644079	1.39	MGL	0.14		0.4

Analysis Method		Analysis Date		Lab Comment			
TOTAL PHOSPHORUS (AS P) (EPA 365.1)		05/15/2002					
Code	Description	Cas No	Result	Units	LOD	Report Limit	LOQ
665	PHOSPHORUS TOTAL	7723140	0.230	MGL	0.005		0.016

Analysis Method		Analysis Date		Lab Comment			
DISS REACTIVE PHOSPHORUS AS P (ORTHOPHOSPHATE) (SM 4500PE)		05/10/2002					
Code	Description	Cas No	Result	Units	LOD	Report Limit	LOQ
671	PHOSPHATE ORTHO DISS	7723140	0.017	MGL	0.002		0.006

Wisconsin Department of Natural Resources
Laboratory Report

06/04/2002

Lab: 113133790

Sample: IM022635

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Analysis Method		Analysis Date		Lab Comment			
SUSPENDED SOLIDS (EPA METHOD 160.2)		05/14/2002					
Code	Description	Cas No	Result	Units	LOD	Report Limit	LOQ
530	RESIDUE TOTAL NFLT (TOTAL SUSPENDED SOLIDS)	E1642818	186.	MGL	2		7

Analysis Method		Analysis Date		Lab Comment			
TEMPERATURE ON RECEIPT-ICED		05/10/2002					
Code	Description	Cas No	Result	Units	LOD	Report Limit	LOQ
136	TEMPERATURE AT LAB	E1645696	ICED	C		0	

**Wisconsin Department of Natural Resources
Laboratory Report**

07/16/2002

Lab: 113133790

Sample: IM026898

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Laboratory: Wisconsin State Laboratory of Hygiene
2601 Agriculture Dr
Madison WI 53707
Phone: 800-442-4618 Fax Phone: 608-224-6276

DNR ID 113133790

Sample:

Field #: NT-RNF Sample #: IM026898
Collection Start: 06/21/2002 08:30 am Collection End:
Collected by: SHIEFFER Waterbody/Outfall Id:
ID #: ID Point #:
County: Polk Account #: LM008
Sample Location: STORM WATER DISCHARGE PIPE TO NORTH TWIN LAKE
Sample Description: STORM WATER RUNOFF
Sample Source: NP Sample Depth:
Date Reported: 07/16/2002 Sample Status: COMPLETE
Project No: LPL800

Analyses and Results:

Analysis Method		Analysis Date	Lab Comment				
AMMONIA (AS N), DISS (EPA 350.1)		07/02/2002	SAMPLE RECEIVED WITH ICE MELTED				
Code	Description	Cas No	Result	Units	LOD	Report Limit	LOQ
608	NITROGEN NH3-N DISS	7664417	*0.449	MGL	0.013		0.042

Analysis Method		Analysis Date	Lab Comment				
NITRATE+NITRITE (AS N), DISS (EPA 353.2)		07/02/2002	SAMPLE RECEIVED WITH ICE MELTED				
Code	Description	Cas No	Result	Units	LOD	Report Limit	LOQ
631	NITROGEN NO3+NO2 DISS (AS N)	E701177	*0.213	MGL	0.01		0.031

Analysis Method		Analysis Date	Lab Comment				
TOTAL KJELDAHL NITROGEN (AS N) (EPA 351.2)		07/08/2002	SAMPLE RECEIVED WITH ICE MELTED				
Code	Description	Cas No	Result	Units	LOD	Report Limit	LOQ
625	NITROGEN KJELDAHL TOTAL	E1644079	*0.92	MGL	0.14		0.4

Analysis Method		Analysis Date	Lab Comment				
TOTAL PHOSPHORUS (AS P) (EPA 365.1)		06/25/2002	SAMPLE RECEIVED WITH ICE MELTED				
Code	Description	Cas No	Result	Units	LOD	Report Limit	LOQ
665	PHOSPHORUS TOTAL	7723140	*0.152	MGL	0.005		0.016

Analysis Method		Analysis Date	Lab Comment				
DISS REACTIVE PHOSPHORUS AS P (ORTHOPHOSPHATE) (SM 4500PE)		06/25/2002	SAMPLE RECEIVED WITH ICE MELTED, RESULT APPROX				
Code	Description	Cas No	Result	Units	LOD	Report Limit	LOQ
671	PHOSPHATE ORTHO DISS	7723140	*0.066	MGL	0.002		0.006

Wisconsin Department of Natural Resources
Laboratory Report

07/16/2002

Lab: 113133790

Sample: IM026898

Page 2 of 2

Analysis Method		Analysis Date		Lab Comment			
SUSPENDED SOLIDS (EPA METHOD 160.2)		06/28/2002		SAMPLE RECEIVED WITH ICE MELTED			
Code	Description	Cas No	Result	Units	LOD	Report Limit	LOQ
530	RESIDUE TOTAL NFLT (TOTAL SUSPENDED SOLIDS)	E1642818	*23	MGL	2		7

Analysis Method		Analysis Date		Lab Comment			
TEMPERATURE ON RECEIPT		06/24/2002					
Code	Description	Cas No	Result	Units	LOD	Report Limit	LOQ
136	TEMPERATURE AT LAB	E1645696	11.	C		0	

Wisconsin Department of Natural Resources

Laboratory Report

07/16/2002

Lab: 113133790

Sample: IM026897

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Laboratory: Wisconsin State Laboratory of Hygiene

DNR ID 113133790

2601 Agriculture Dr

Madison

WI 53707

Phone: 800-442-4618

Fax Phone: 608-224-6276

Sample:

Field #: NT-RNF2

Sample #: IM026897

Collection Start: 06/21/2002 08:45 am

Collection End:

Collected by: SHIEFFER

Waterbody/Outfall Id:

ID #:

ID Point #:

County: Polk

Account #: LM008

Sample Location: STORM WATER DISCHARGE PIPE TO NORTH TWIN LAKE

Sample Description: STORM WATER RUNOFF

Sample Source: NP

Sample Depth:

Date Reported: 07/16/2002

Sample Status: COMPLETE

Project No: LPL800

Analyses and Results:

Analysis Method		Analysis Date		Lab Comment			
AMMONIA (AS N), DISS (EPA 350.1)		07/02/2002		SAMPLE RECEIVED WITH ICE MELTED			
Code	Description	Cas No	Result	Units	LOD	Report Limit	LOQ
608	NITROGEN NH3-N DISS	7664417	*0.397	MGL	0.013		0.042

Analysis Method		Analysis Date		Lab Comment			
NITRATE+NITRITE (AS N), DISS (EPA 353.2)		07/02/2002		SAMPLE RECEIVED WITH ICE MELTED			
Code	Description	Cas No	Result	Units	LOD	Report Limit	LOQ
631	NITROGEN NO3+NO2 DISS (AS N)	E701177	*0.187	MGL	0.01		0.031

Analysis Method		Analysis Date		Lab Comment			
TOTAL KJELDAHL NITROGEN (AS N) (EPA 351.2)		07/08/2002		SAMPLE RECEIVED WITH ICE MELTED			
Code	Description	Cas No	Result	Units	LOD	Report Limit	LOQ
625	NITROGEN KJELDAHL TOTAL	E1644079	*0.76	MGL	0.14		0.4

Analysis Method		Analysis Date		Lab Comment			
TOTAL PHOSPHORUS (AS P) (EPA 365.1)		06/25/2002		SAMPLE RECEIVED WITH ICE MELTED			
Code	Description	Cas No	Result	Units	LOD	Report Limit	LOQ
665	PHOSPHORUS TOTAL	7723140	*0.109	MGL	0.005		0.016

Analysis Method		Analysis Date		Lab Comment			
DISS REACTIVE PHOSPHORUS AS P (ORTHOPHOSPHATE) (SM 4500PE)		06/25/2002		SAMPLE RECEIVED WITH ICE MELTED, RESULT APPROX			
Code	Description	Cas No	Result	Units	LOD	Report Limit	LOQ
671	PHOSPHATE ORTHO DISS	7723140	*0.034	MGL	0.002		0.006

Wisconsin Department of Natural Resources
Laboratory Report

07/16/2002

Lab: 113133790

Sample: IM026897

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Analysis Method		Analysis Date		Lab Comment			
SUSPENDED SOLIDS (EPA METHOD 160.2)		06/28/2002		SAMPLE RECEIVED WITH ICE MELTED			
Code	Description	Cas No	Result	Units	LOD	Report Limit	LOQ
530	RESIDUE TOTAL NFLT (TOTAL SUSPENDED SOLIDS)	E1642818	*34	MGL	2		7

Analysis Method		Analysis Date		Lab Comment			
TEMPERATURE ON RECEIPT		06/24/2002					
Code	Description	Cas No	Result	Units	LOD	Report Limit	LOQ
136	TEMPERATURE AT LAB	E1645696	11.	C		0	

Laboratory Report

08/12/2002

Lab: 113133790

Sample: IN002196

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Laboratory: Wisconsin State Laboratory of Hygiene
 2601 Agriculture Dr
 Madison WI 53707
 Phone: 800-442-4618 Fax Phone: 608-224-6276

DNR ID 113133790

Sample:

Field #: NT-RNF Sample #: IN002196
 Collection Start: 07/25/2002 09:55 am Collection End:
 Collected by: SCHIEFFER Waterbody/Outfall Id:
 ID #: ID Point #:
 County: Polk Account #: LM009
 Sample Location: STORM WATER DISCHARGE PIPE TO NORTH TWIN LAKE
 Sample Description: STORM WATER RUNOFF SAMPLE
 Sample Source: NP Sample Depth:
 Date Reported: 08/12/2002 Sample Status: CORRECTED
 Project No: LPL800

Analyses and Results:

Analysis Method		Analysis Date	Lab Comment				
AMMONIA (AS N), DISS (EPA 350.1)		08/05/2002					
Code	Description	Cas No	Result	Units	LOD	Report Limit	LOQ
608	NITROGEN NH3-N DISS	7664417	0.224	MGL	0.013		0.042

Analysis Method		Analysis Date	Lab Comment				
NITRATE+NITRITE (AS N), DISS (EPA 353.2)		08/05/2002					
Code	Description	Cas No	Result	Units	LOD	Report Limit	LOQ
631	NITROGEN NO3+NO2 DISS (AS N)	E701177	0.179	MGL	0.01		0.031

Analysis Method		Analysis Date	Lab Comment				
TOTAL KJELDAHL NITROGEN (AS N) (EPA 351.2)		08/06/2002					
Code	Description	Cas No	Result	Units	LOD	Report Limit	LOQ
625	NITROGEN KJELDAHL TOTAL	E1644079	0.40	MGL	0.14		0.4

Analysis Method		Analysis Date	Lab Comment				
TOTAL PHOSPHORUS (AS P) (EPA 365.1)		07/29/2002					
Code	Description	Cas No	Result	Units	LOD	Report Limit	LOQ
665	PHOSPHORUS TOTAL	7723140	0.081	MGL	0.005		0.016

Analysis Method		Analysis Date	Lab Comment				
DISS REACTIVE PHOSPHORUS AS P (ORTHOPHOSPHATE) (SM 4500P)		08/06/2002					
Code	Description	Cas No	Result	Units	LOD	Report Limit	LOQ
671	PHOSPHATE ORTHO DISS	7723140	0.050	MGL	0.002		0.006

Wisconsin Department of Natural Resources
Laboratory Report

08/12/2002

Lab: 113133790

Sample: IN002196

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Analysis Method		Analysis Date		Lab Comment			
SUSPENDED SOLIDS (EPA METHOD 160.2)		07/31/2002					
Code	Description	Cas No	Result	Units	LOD	Report Limit	LOQ
530	RESIDUE TOTAL NFLT (TOTAL SUSPENDED SOLIDS)	E1642818	9.	MGL	2		7

Analysis Method		Analysis Date		Lab Comment			
TEMPERATURE ON RECEIPT-ICED		07/26/2002					
Code	Description	Cas No	Result	Units	LOD	Report Limit	LOQ
136	TEMPERATURE AT LAB	E1645696	ICED	C		0	

Wisconsin Department of Natural Resources

Laboratory Report

08/12/2002

Lab: 113133790

Sample: IN002195

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Laboratory: Wisconsin State Laboratory of Hygiene
2601 Agriculture Dr
Madison WI 53707
Phone : 800-442-4618 Fax Phone : 608-224-6276

DNR ID 113133790

Sample:

Field #: NT-RNF2	Sample #: IN002195
Collection Start: 07/25/2002 09:50 am	Collection End:
Collected by: SCHIEFFER	Waterbody/Outfall Id:
ID #:	ID Point #:
County: Polk	Account #: LM009
Sample Location: STORM WATER DISCHARGE PIPE TO NORTH TWIN LAKE	
Sample Description: STORM WATER RUNOFF SAMPLE	
Sample Source: NP	Sample Depth:
Date Reported: 08/12/2002	Sample Status: CORRECTED
Project No: LPL800	

Analyses and Results:

Analysis Method		Analysis Date	Lab Comment				
AMMONIA (AS N), DISS (EPA 350.1)		08/05/2002					
Code	Description	Cas No	Result	Units	LOD	Report Limit	LOQ
608	NITROGEN NH3-N DISS	7664417	0.284	MGL	0.013		0.042

Analysis Method		Analysis Date	Lab Comment				
NITRATE+NITRITE (AS N), DISS (EPA 353.2)		08/05/2002					
Code	Description	Cas No	Result	Units	LOD	Report Limit	LOQ
631	NITROGEN NO3+NO2 DISS (AS N)	E701177	0.193	MGL	0.01		0.031

Analysis Method		Analysis Date	Lab Comment				
TOTAL KJELDAHL NITROGEN (AS N) (EPA 351.2)		08/06/2002					
Code	Description	Cas No	Result	Units	LOD	Report Limit	LOQ
625	NITROGEN KJELDAHL TOTAL	E1644079	0.76	MGL	0.14		0.4

Analysis Method		Analysis Date	Lab Comment				
TOTAL PHOSPHORUS (AS P) (EPA 365.1)		07/29/2002					
Code	Description	Cas No	Result	Units	LOD	Report Limit	LOQ
665	PHOSPHORUS TOTAL	7723140	0.123	MGL	0.005		0.016

Analysis Method		Analysis Date	Lab Comment				
DISS REACTIVE PHOSPHORUS AS P (ORTHOPHOSPHATE) (SM 4500PE)		08/06/2002					
Code	Description	Cas No	Result	Units	LOD	Report Limit	LOQ
671	PHOSPHATE ORTHO DISS	7723140	0.047	MGL	0.002		0.006

Wisconsin Department of Natural Resources
Laboratory Report

08/12/2002

Lab: 113133790

Sample: IN002195

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Analysis Method		Analysis Date		Lab Comment			
SUSPENDED SOLIDS (EPA METHOD 160.2)		07/31/2002					
Code	Description	Cas No	Result	Units	LOD	Report Limit	LOQ
530	RESIDUE TOTAL NFLT (TOTAL SUSPENDED SOLIDS)	E1642818	37.	MGL	2		7

Analysis Method		Analysis Date		Lab Comment			
TEMPERATURE ON RECEIPT-ICED		07/26/2002					
Code	Description	Cas No	Result	Units	LOD	Report Limit	LOQ
136	TEMPERATURE AT LAB	E1645696	ICED	C		0	

Wisconsin Department of Natural Resources
Laboratory Report

*Entered
09/18/02 EMS*

09/13/2002

Lab: 113133790

Sample: IN004694

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Laboratory: Wisconsin State Laboratory of Hygiene

DNR ID 113133790

2601 Agriculture Dr

Madison

WI 53707

Phone: 800-442-4618

Fax Phone: 608-224-6276

Sample:

Field #: NT-RNF

Sample #: IN004694

Collection Start: 08/13/2002 09:30 am

Collection End:

Collected by: SCHIEFFER

Waterbody/Outfall Id:

ID #:

ID Point #:

County: Polk

Account #: LM009

Sample Location: STORM WATER DISCHARGE PIPE TO NORTH TWIN LAKE

Sample Description: STORM WATER RUNOFF SAMLE

Sample Source: NP

Sample Depth:

Date Reported: 09/13/2002

Sample Status: COMPLETE

Project No: LPL800

Analyses and Results:

Analysis Method		Analysis Date		Lab Comment			
AMMONIA (AS N), DISS (EPA 350.1)		09/09/2002		SAMPLE RECEIVED FROZEN			
Code	Description	Cas No	Result	Units	LOD	Report Limit	LOQ
608	NITROGEN NH3-N DISS	7664417	*0.691	MGL	0.013		0.042

Analysis Method		Analysis Date		Lab Comment			
NITRATE+NITRITE (AS N), DISS (EPA 353.2)		09/09/2002		SAMPLE RECEIVED FROZEN			
Code	Description	Cas No	Result	Units	LOD	Report Limit	LOQ
631	NITROGEN NO3+NO2 DISS (AS N)	E701177	*0.436	MGL	0.022		0.075

Analysis Method		Analysis Date		Lab Comment			
TOTAL KJELDAHL NITROGEN (AS N) (EPA 351.2)		09/04/2002		SAMPLE RECEIVED FROZEN			
Code	Description	Cas No	Result	Units	LOD	Report Limit	LOQ
625	NITROGEN KJELDAHL TOTAL	E1644079	*1.26	MGL	0.14		0.4

Analysis Method		Analysis Date		Lab Comment			
TOTAL PHOSPHORUS (AS P) (EPA 365.1)		08/29/2002		SAMPLE RECEIVED FROZEN			
Code	Description	Cas No	Result	Units	LOD	Report Limit	LOQ
665	PHOSPHORUS TOTAL	7723140	*0.279	MGL	0.005		0.016

Analysis Method		Analysis Date		Lab Comment			
DISS REACTIVE PHOSPHORUS AS P (ORTHOPHOSPHATE) (SM 4500PE)		09/02/2002		SAMPLE RECEIVED FROZEN AND PAST HOLDING TIME			
Code	Description	Cas No	Result	Units	LOD	Report Limit	LOQ
671	PHOSPHATE ORTHO DISS	7723140	*0.197	MGL	0.002		0.006

Wisconsin Department of Natural Resources

Laboratory Report

09/13/2002

Lab: 113133790

Sample: IN004694

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Analysis Method		Analysis Date		Lab Comment			
SUSPENDED SOLIDS (EPA METHOD 160.2)		08/23/2002		SAMPLE RECEIVED FROZEN AND PAST HOLDING TIME			
Code	Description	Cas No	Result	Units	LOD	Report Limit	LOQ
530	RESIDUE TOTAL NFLT (TOTAL SUSPENDED SOLIDS)	E1642818	*20.	MGL	2		7

Analysis Method		Analysis Date		Lab Comment			
TEMPERATURE ON RECEIPT-FROZEN		08/22/2002					
Code	Description	Cas No	Result	Units	LOD	Report Limit	LOQ
136	TEMPERATURE AT LAB	E1645696	FROZEN	C		0	

Wisconsin Department of Natural Resources

Laboratory Report

09/13/2002

Lab: 113133790

Sample: IN004672

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Laboratory: Wisconsin State Laboratory of Hygiene
 2601 Agriculture Dr
 Madison WI 53707
 Phone: 800-442-4618 Fax Phone: 608-224-6276

DNR ID 113133790

Sample:

Field #: NT-RNF Sample #: IN004672
 Collection Start: 08/21/2002 09:20 pm Collection End:
 Collected by: SCHIEFFER Waterbody/Outfall Id:
 ID #: ID Point #:
 County: Polk Account #: LM009
 Sample Location: STORM WATER DISCHARGE PIPE TO NORTH TWIN LAKE
 Sample Description: STORM WATER RUNOFF SAMPLE
 Sample Source: NP Sample Depth:
 Date Reported: 09/13/2002 Sample Status: COMPLETE
 Project No: LPL800

Analyses and Results:

Analysis Method		Analysis Date		Lab Comment			
AMMONIA (AS N), DISS (EPA 350.1)		09/09/2002					
Code	Description	Cas No	Result	Units	LOD	Report Limit	LOQ
608	NITROGEN NH3-N DISS	7664417	0.326	MGL	0.013		0.042

Analysis Method		Analysis Date		Lab Comment			
NITRATE+NITRITE (AS N), DISS (EPA 353.2)		09/09/2002					
Code	Description	Cas No	Result	Units	LOD	Report Limit	LOQ
631	NITROGEN NO3+NO2 DISS (AS N)	E701177	0.195	MGL	0.022		0.075

Analysis Method		Analysis Date		Lab Comment			
TOTAL KJELDAHL NITROGEN (AS N) (EPA 351.2)		09/04/2002					
Code	Description	Cas No	Result	Units	LOD	Report Limit	LOQ
625	NITROGEN KJELDAHL TOTAL	E1644079	0.76	MGL	0.14		0.4

Analysis Method		Analysis Date		Lab Comment			
TOTAL PHOSPHORUS (AS P) (EPA 365.1)		08/29/2002					
Code	Description	Cas No	Result	Units	LOD	Report Limit	LOQ
665	PHOSPHORUS TOTAL	7723140	0.163	MGL	0.005		0.016

Analysis Method		Analysis Date		Lab Comment			
DISS REACTIVE PHOSPHORUS AS P (ORTHOPHOSPHATE) (SM 4500PE)		08/22/2002					
Code	Description	Cas No	Result	Units	LOD	Report Limit	LOQ
671	PHOSPHATE ORTHO DISS	7723140	0.080	MGL	0.002		0.006

Wisconsin Department of Natural Resources

Laboratory Report

09/13/2002

Lab: 113133790

Sample: IN004672

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Analysis Method		Analysis Date		Lab Comment			
SUSPENDED SOLIDS (EPA METHOD 160.2)		08/23/2002					
Code	Description	Cas No	Result	Units	LOD	Report Limit	LOQ
530	RESIDUE TOTAL NFLT (TOTAL SUSPENDED SOLIDS)	E1642818	21.	MGL	2		7

Analysis Method		Analysis Date		Lab Comment			
TEMPERATURE ON RECEIPT-ICED		08/22/2002					
Code	Description	Cas No	Result	Units	LOD	Report Limit	LOQ
136	TEMPERATURE AT LAB	E1645696	ICED	C		0	

Wisconsin Department of Natural Resources
Laboratory Report

10/22/2002

Lab: 113133790

Sample: IN008244

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Laboratory: Wisconsin State Laboratory of Hygiene
2601 Agriculture Dr
Madison
Phone: 800-442-4618

WI 53707
Fax Phone: 608-224-6276

DNR ID 113133790

Sample:

Field #: NT-RNF	Sample #: IN008244
Collection Start: 09/26/2002 10:10 am	Collection End:
Collected by: SCHIEFFER	Waterbody/Outfall Id:
ID #:	ID Point #:
County: Polk	Account #: LM009
Sample Location: STORM WATER DISCHARGE PIPE TO NORTH TWIN LAKE	
Sample Description: STORM WATER RUNOFF SAMPLE	
Sample Source: NP	Sample Depth:
Date Reported: 10/22/2002	Sample Status: COMPLETE
Project No: LPL800	

Analyses and Results:

Analysis Method		Analysis Date	Lab Comment				
AMMONIA (AS N), DISS (EPA 350.1)		10/10/2002					
Code	Description	Cas No	Result	Units	LOD	Report Limit	LOQ
608	NITROGEN NH3-N DISS	7664417	0.345	MGL	0.013		0.042

Analysis Method		Analysis Date	Lab Comment				
NITRATE+NITRITE (AS N), DISS (EPA 353.2)		10/10/2002					
Code	Description	Cas No	Result	Units	LOD	Report Limit	LOQ
631	NITROGEN NO3+NO2 DISS (AS N)	E701177	0.279	MGL	0.022		0.075

Analysis Method		Analysis Date	Lab Comment				
TOTAL KJELDAHL NITROGEN (AS N) (EPA 00/08/2002 351.2)							
Code	Description	Cas No	Result	Units	LOD	Report Limit	LOQ
625	NITROGEN KJELDAHL TOTAL	E1644079	0.85	MGL	0.14		0.4

Analysis Method		Analysis Date	Lab Comment				
TOTAL PHOSPHORUS (AS P) (EPA 365.1)		10/01/2002					
Code	Description	Cas No	Result	Units	LOD	Report Limit	LOQ
665	PHOSPHORUS TOTAL	7723140	0.120	MGL	0.005		0.016

Analysis Method		Analysis Date	Lab Comment				
DISS REACTIVE PHOSPHORUS AS P (ORTHOPHOSPHATE) (SM 4500PE)		10/02/2002	SAMPLE RECEIVED PAST HOLDING TIME				
Code	Description	Cas No	Result	Units	LOD	Report Limit	LOQ
671	PHOSPHATE ORTHO DISS	7723140	*0.038	MGL	0.002		0.006

Wisconsin Department of Natural Resources
Laboratory Report

10/22/2002

Lab: 113133790

Sample: IN008244

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Analysis Method		Analysis Date	Lab Comment				
SUSPENDED SOLIDS (EPA METHOD 160.2)		10/01/2002	DUPLICATE QC EXCEEDED, RES AVG OF 10 & 14				
Code	Description	Cas No	Result	Units	LOD	Report Limit	LOQ
530	RESIDUE TOTAL NFLT (TOTAL SUSPENDED SOLIDS)	E1642818	*12	MGL	2		7

Analysis Method		Analysis Date	Lab Comment				
TEMPERATURE ON RECEIPT-ICED		09/30/2002					
Code	Description	Cas No	Result	Units	LOD	Report Limit	LOQ
136	TEMPERATURE AT LAB	E1645696	ICED	C		0	

Wisconsin Department of Natural Resources

Laboratory Report

10/22/2002

Lab: 113133790

Sample: IN008245

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Laboratory: Wisconsin State Laboratory of Hygiene
2601 Agriculture Dr
Madison WI 53707
Phone: 800-442-4618 Fax Phone: 608-224-6276

DNR ID 113133790

Sample:

Field #: NT-RNF2 Sample #: IN008245
Collection Start: 09/26/2002 10:30 am Collection End:
Collected by: SCHIEFFER Waterbody/Outfall Id:
ID #: ID Point #:
County: Polk Account #: LM009
Sample Location: STORM WATER DISCHARGE PIPE TO NORTH TWIN LAKE
Sample Description: STORM WATER RUNOFF SAMPLE
Sample Source: NP Sample Depth:
Date Reported: 10/22/2002 Sample Status: COMPLETE
Project No: LPL800

Analyses and Results:

Analysis Method		Analysis Date		Lab Comment			
AMMONIA (AS N), DISS (EPA 350.1)		10/10/2002					
Code	Description	Cas No	Result	Units	LOD	Report Limit	LOQ
608	NITROGEN NH3-N DISS	7664417	0.147	MGL	0.013		0.042

Analysis Method		Analysis Date		Lab Comment			
NITRATE+NITRITE (AS N), DISS (EPA 353.1)		10/10/2002					
Code	Description	Cas No	Result	Units	LOD	Report Limit	LOQ
631	NITROGEN NO3+NO2 DISS (AS N)	E701177	0.052	MGL	0.022		0.075

Analysis Method		Analysis Date		Lab Comment			
TOTAL KJELDAHL NITROGEN (AS N) (EPA 40.02/2002 351.2)							
Code	Description	Cas No	Result	Units	LOD	Report Limit	LOQ
625	NITROGEN KJELDAHL TOTAL	E1644079	0.69	MGL	0.14		0.4

Analysis Method		Analysis Date		Lab Comment			
TOTAL PHOSPHORUS (AS P) (EPA 365.1)		10/01/2002					
Code	Description	Cas No	Result	Units	LOD	Report Limit	LOQ
665	PHOSPHORUS TOTAL	7723140	0.025	MGL	0.005		0.016

Analysis Method		Analysis Date		Lab Comment			
DISS REACTIVE PHOSPHORUS AS P (ORTHO) (SM 4500PE)		10/02/2002		SAMPLE RECEIVED PAST HOLDING TIME			
Code	Description	Cas No	Result	Units	LOD	Report Limit	LOQ
671	PHOSPHATE ORTHO DISS	7723140	*ND	MGL	0.002		0.006

Wisconsin Department of Natural Resources

Laboratory Report

10/22/2002

Lab: 113133790

Sample: IN008245

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Analysis Method		Analysis Date	Lab Comment				
SUSPENDED SOLIDS (EPA METHOD 160.2)		10/01/2002	MATRIX DUPLICATE QC EXCEEDED				
Code	Description	Cas No	Result	Units	LOD	Report Limit	LOQ
530	RESIDUE TOTAL NFLT (TOTAL SUSPENDED SOLIDS)	E1642818	* < 2.0	MGL	2		7

Analysis Method		Analysis Date	Lab Comment				
TEMPERATURE ON RECEIPT-ICED		09/30/2002					
Code	Description	Cas No	Result	Units	LOD	Report Limit	LOQ
136	TEMPERATURE AT LAB	E1645696	ICED	C		0	

SECTION C

Wisconsin Department of Natural Resources

Laboratory Report

06/24/2003

Lab: 113133790

Sample: IN021979

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Laboratory: Wisconsin State Laboratory of Hygiene
2601 Agriculture Dr.
Madison WI 53718
Phone: 800-442-4618 Fax Phone: 608-224-6276

DNR ID 113133790

Sample:

Field #: ST-SUR	Sample #: IN021979
Collection Start: 05/28/2003 08:00 am	Collection End:
Collected by: SCHIEFFER	Waterbody/Outfall Id: 2623800
ID #: 493061	ID Point #:
County: Polk	Account #: LM009
Sample Location: SOUTH TWIN LAKE - NEAR CENTER	
Sample Description: SURFACE	
Sample Source: SU	Sample Depth: F001
Date Reported: 06/24/2003	Sample Status: COMPLETE
Project No: LPL838	

Analyses and Results:

Analysis Method		Analysis Date	Lab Comment				
VOLUME LAB FILT FOR CHLOROPHYLL A		06/02/2003					
Code	Description	Cas No	Result	Units	LOD	Report Limit	LOQ
32000	SAMPLE SIZE LITERS		200	ML			

Analysis Method		Analysis Date	Lab Comment				
CHLOROPHYLL A, FLUORESCENCE (WELS		06/03/2003					
Code	Description	Cas No	Result	Units	LOD	Report Limit	LOQ
99717	CHLOROPHYLL A, FLUORESCENCE (WELSCHMAYER 1994)	479618	1.35	UG/L	0.26		0.87

Analysis Method		Analysis Date	Lab Comment				
AMMONIA (AS N), DISS (EPA 350.1)		06/12/2003					
Code	Description	Cas No	Result	Units	LOD	Report Limit	LOQ
608	NITROGEN NH3-N DISS	7664417	ND	MGL	0.013		0.042

Analysis Method		Analysis Date	Lab Comment				
NITRATE+NITRITE (AS N), DISS (EPA 353.2)		06/12/2003					
Code	Description	Cas No	Result	Units	LOD	Report Limit	LOQ
631	NITROGEN NO3+NO2 DISS (AS N)	E701177	ND	MGL	0.022		0.075

Analysis Method		Analysis Date	Lab Comment				
TOTAL KJELDAHL NITROGEN (AS N) (EPA 306/06/2003							
Code	Description	Cas No	Result	Units	LOD	Report Limit	LOQ
625	NITROGEN KJELDAHL TOTAL	E1644079	0.43	MGL	0.14		0.4

Wisconsin Department of Natural Resources
Laboratory Report

06/24/2003

Lab: 113133790

Sample: IN021979

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Analysis Method		Analysis Date	Lab Comment				
TOTAL PHOSPHORUS (AS P) (EPA 365.1)		06/04/2003					
Code	Description	Cas No	Result	Units	LOD	Report Limit	LOQ
665	PHOSPHORUS TOTAL	7723140	0.017	MGL	0.005		0.016

Analysis Method		Analysis Date	Lab Comment				
DISS REACTIVE PHOSPHORUS AS P (ORTHO)		05/30/2003					
Code	Description	Cas No	Result	Units	LOD	Report Limit	LOQ
671	PHOSPHATE ORTHO DISS	7723140	ND	MGL	0.002		0.006

Analysis Method		Analysis Date	Lab Comment				
SUSPENDED SOLIDS (EPA METHOD 160.2)		05/29/2003					
Code	Description	Cas No	Result	Units	LOD	Report Limit	LOQ
530	RESIDUE TOTAL NFLT (TOTAL SUSPENDED SOLIDS)	E1642818	ND	MGL	2		7

Analysis Method		Analysis Date	Lab Comment				
TEMPERATURE ON RECEIPT-ICED		05/29/2003					
Code	Description	Cas No	Result	Units	LOD	Report Limit	LOQ
136	TEMPERATURE AT LAB	E1645696	ICED	C		0	

Wisconsin Department of Natural Resources

Laboratory Report

06/24/2003

Lab: 113133790

Sample: IN021980

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Laboratory: Wisconsin State Laboratory of Hygiene

DNR ID 113133790

2601 Agriculture Dr.

Madison

WI 53718

Phone : 800-442-4618

Fax Phone : 608-224-6276

Sample:

Field #: ST-OUT

Sample #: IN021980

Collection Start: 05/28/2003 08:00 am

Collection End:

Collected by: SCHIEFFER

Waterbody/Outfall Id: 2623800

ID #: 493206

ID Point #:

County: Polk

Account #: LM009

Sample Location: SOUTH TWIN LAKE - OUTLET

Sample Description: SURFACE GRAB

Sample Source: SU

Sample Depth: F0.5

Date Reported: 06/24/2003

Sample Status: COMPLETE

Project No: LPL838

Analyses and Results:

Analysis Method		Analysis Date	Lab Comment				
TEMPERATURE ON RECEIPT-ICED		05/29/2003					
Code	Description	Cas No	Result	Units	LOD	Report Limit	LOQ
136	TEMPERATURE AT LAB	E1645696	ICED	C		0	

Analysis Method		Analysis Date	Lab Comment				
AMMONIA (AS N), DISS (EPA 350.1)		06/12/2003					
Code	Description	Cas No	Result	Units	LOD	Report Limit	LOQ
608	NITROGEN NH3-N DISS	7664417	0.036	MGL	0.013		0.042

Analysis Method		Analysis Date	Lab Comment				
NITRATE+NITRITE (AS N), DISS (EPA 353.2)		06/12/2003					
Code	Description	Cas No	Result	Units	LOD	Report Limit	LOQ
631	NITROGEN NO3+NO2 DISS (AS N)	E701177	ND	MGL	0.022		0.075

Analysis Method		Analysis Date	Lab Comment				
TOTAL KJELDAHL NITROGEN (AS N) (EPA 360.6)		06/06/2003					
Code	Description	Cas No	Result	Units	LOD	Report Limit	LOQ
625	NITROGEN KJELDAHL TOTAL	E1644079	0.40	MGL	0.14		0.4

Analysis Method		Analysis Date	Lab Comment				
TOTAL PHOSPHORUS (AS P) (EPA 365.1)		06/04/2003					
Code	Description	Cas No	Result	Units	LOD	Report Limit	LOQ
665	PHOSPHORUS TOTAL	7723140	0.017	MGL	0.005		0.016

Analysis Method		Analysis Date	Lab Comment				
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Wisconsin Department of Natural Resources
Laboratory Report

06/24/2003

Lab: 113133790

Sample: IN021980

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DISS REACTIVE PHOSPHORUS AS P (ORTHO) 05/30/2003

Code	Description	Cas No	Result	Units	LOD	Report Limit	LOQ
671	PHOSPHATE ORTHO DISS	7723140	ND	MGL	0.002		0.006

Analysis Method	Analysis Date	Lab Comment
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SUSPENDED SOLIDS (EPA METHOD 160.2) 05/29/2003

Code	Description	Cas No	Result	Units	LOD	Report Limit	LOQ
530	RESIDUE TOTAL NFLT (TOTAL SUSPENDED SOLIDS)	E1642818	ND	MGL	2		7

Laboratory Report

08/01/2003

Lab: 113133790

Sample: IN024191

Page 1 of 2

Laboratory: Wisconsin State Laboratory of Hygiene
2601 Agriculture Dr.
Madison WI 53718
Phone: 800-442-4618 Fax Phone: 608-224-6276

DNR ID 113133790

Sample:

Field #: STSUR	Sample #: IN024191
Collection Start: 06/18/2003 11:15 am	Collection End:
Collected by: BORMAN Schietler	Waterbody/Outfall Id: 2623800
ID #: 493206	ID Point #:
County: Polk	Account #: LM009
Sample Location: SOUTH TWIN LAKE - OUTLET	
Sample Description: SURFACE GRAB	
Sample Source: SU	Sample Depth: M0.5
Date Reported: 07/28/2003	Sample Status: COMPLETE
Project No: LPL838	

Analyses and Results:

Analysis Method		Analysis Date	Lab Comment				
AMMONIA (AS N), DISS (EPA 350.1)		07/01/2003	LAB FORTIFIED BLANK EXCEEDED BY 1.1%				
Code	Description	Cas No	Result	Units	LOD	Report Limit	LOQ
608	NITROGEN NH3-N DISS	7664417	*0.03	MGL	0.013		0.042

Analysis Method		Analysis Date	Lab Comment				
NITRATE+NITRITE (AS N), DISS (EPA 353.2)		07/01/2003	LAB FORTIFIED BLANK EXCEEDED BY 1.5%				
Code	Description	Cas No	Result	Units	LOD	Report Limit	LOQ
631	NITROGEN NO3+NO2 DISS (AS N)	E701177	*ND	MGL	0.022		0.075

Analysis Method		Analysis Date	Lab Comment				
TOTAL KJELDAHL NITROGEN (AS N) (EPA 36/25/2003)		06/26/2003					
Code	Description	Cas No	Result	Units	LOD	Report Limit	LOQ
625	NITROGEN KJELDAHL TOTAL	E1644079	0.51	MGL	0.14		0.4

Analysis Method		Analysis Date	Lab Comment				
TOTAL PHOSPHORUS (AS P) (EPA 365.1)		06/26/2003					
Code	Description	Cas No	Result	Units	LOD	Report Limit	LOQ
665	PHOSPHORUS TOTAL	7723140	0.015	MGL	0.005		0.016

Analysis Method		Analysis Date	Lab Comment				
DISS REACTIVE PHOSPHORUS AS P (ORTHO)		06/20/2003					
Code	Description	Cas No	Result	Units	LOD	Report Limit	LOQ
671	PHOSPHATE ORTHO DISS	7723140	ND	MGL	0.002		0.006

Analysis Method		Analysis Date	Lab Comment				
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Wisconsin Department of Natural Resources

Laboratory Report

08/01/2003

Lab: 113133790

Sample: IN024191

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SUSPENDED SOLIDS (EPA METHOD 160.2) 06/19/2003

<i>Code</i>	<i>Description</i>	<i>Cas No</i>	<i>Result</i>	<i>Units</i>	<i>LOD</i>	<i>Report Limit</i>	<i>LOQ</i>
530	RESIDUE TOTAL NFLT (TOTAL SUSPENDED SOLIDS)	E1642818	ND	MG/L	2		7

Analysis Method

Analysis Date Lab Comment

TEMPERATURE ON RECEIPT-ICED

06/19/2003

<i>Code</i>	<i>Description</i>	<i>Cas No</i>	<i>Result</i>	<i>Units</i>	<i>LOD</i>	<i>Report Limit</i>	<i>LOQ</i>
136	TEMPERATURE AT LAB	E1645696	ICED	C		0	

Laboratory Report

08/01/2003

Lab: 113133790

Sample: IN024192

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Entered
8-12-03

Laboratory: Wisconsin State Laboratory of Hygiene
2601 Agriculture Dr.
Madison WI 53718
Phone: 800-442-4618 Fax Phone: 608-224-6276

DNR ID 113133790

Sample:

Field #: STOUT Sample #: IN024192
Collection Start: 06/18/2003 11:05 am Collection End:
Collected by: BORMAN Scheitler Waterbody/Outfall Id: 2623800
ID #: 493061 ID Point #:
County: Polk Account #: LM009
Sample Location: SOUTH TWIN LAKE - NEAR CENTER
Sample Description: SURFACE
Sample Source: SU Sample Depth: M0.5
Date Reported: 07/28/2003 Sample Status: COMPLETE
Project No: LPL838

Analyses and Results:

Analysis Method		Analysis Date		Lab Comment			
VOLUME LAB FILT FOR CHLOROPHYLL A		07/09/2003					
Code	Description	Cas No	Result	Units	LOD	Report Limit	LOQ
32000	SAMPLE SIZE LITERS		200	ML			

Analysis Method		Analysis Date		Lab Comment			
CHLOROPHYLL A, FLUORESCENCE (WELS)		07/11/2003					
Code	Description	Cas No	Result	Units	LOD	Report Limit	LOQ
99717	CHLOROPHYLL A, FLUORESCENCE (WELSCHEMAYER 1994)	479618	1.99	UG/L	0.26		0.87

Analysis Method		Analysis Date		Lab Comment			
AMMONIA (AS N), DISS (EPA 350.1)		07/01/2003		LAB FORTIFIED BLANK EXCEEDED BY 1.1%			
Code	Description	Cas No	Result	Units	LOD	Report Limit	LOQ
608	NITROGEN NH3-N DISS	7664417	*0.02	MGL	0.013		0.042

Analysis Method		Analysis Date		Lab Comment			
NITRATE+NITRITE (AS N), DISS (EPA 353.2)		07/01/2003		LAB FORTIFIED BLANK EXCEEDED BY 1.5%			
Code	Description	Cas No	Result	Units	LOD	Report Limit	LOQ
631	NITROGEN NO3+NO2 DISS (AS N)	E701177	*ND	MGL	0.022		0.075

Analysis Method		Analysis Date		Lab Comment			
TOTAL KJELDAHL NITROGEN (AS N) (EPA 306.25)		07/25/2003					
Code	Description	Cas No	Result	Units	LOD	Report Limit	LOQ
625	NITROGEN KJELDAHL TOTAL	E1644079	0.46	MGL	0.14		0.4

Wisconsin Department of Natural Resources

Laboratory Report

08/01/2003

Lab: 113133790

Sample: IN024192

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Analysis Method		Analysis Date	Lab Comment				
TOTAL PHOSPHORUS (AS P) (EPA 365.1)		06/26/2003					
Code	Description	Cas No	Result	Units	LOD	Report Limit	LOQ
665	PHOSPHORUS TOTAL	7723140	0.018	MGL	0.005		0.016

Analysis Method		Analysis Date	Lab Comment				
DISS REACTIVE PHOSPHORUS AS P (ORTH06/20/2003							
Code	Description	Cas No	Result	Units	LOD	Report Limit	LOQ
671	PHOSPHATE ORTHO DISS	7723140	0.003	MGL	0.002		0.006

Analysis Method		Analysis Date	Lab Comment				
SUSPENDED SOLIDS (EPA METHOD 160.2)		06/19/2003					
Code	Description	Cas No	Result	Units	LOD	Report Limit	LOQ
530	RESIDUE TOTAL NFLT (TOTAL SUSPENDED SOLIDS)	E1642818	ND	MGL	2		7

Analysis Method		Analysis Date	Lab Comment				
TEMPERATURE ON RECEIPT-ICED		06/19/2003					
Code	Description	Cas No	Result	Units	LOD	Report Limit	LOQ
136	TEMPERATURE AT LAB	E1645696	ICED	C		0	

Wisconsin Department of Natural Resources

Laboratory Report

08/11/2003

Lab: 113133790

Sample: IO001781

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Laboratory: Wisconsin State Laboratory of Hygiene

DNR ID 113133790

2601 Agriculture Dr.

Madison

WI 53718

Phone: 800-442-4618

Fax Phone: 608-224-6276

Entered

9-2-03

Sample:

Field #: ST-SUR

Sample #: IO001781

Collection Start: 07/16/2003 11:00 am

Collection End:

Collected by: SCHIEFFER

Waterbody/Outfall Id: 2623800

ID #: 493061

ID Point #:

County: Polk

Account #: LM010

Sample Location: SOUTH TWIN LAKE - NEAR CENTER

Sample Description: SURFACE

Sample Source: SU

Sample Depth:

Date Reported: 08/11/2003

Sample Status: COMPLETE

Project No: LPL838

Analyses and Results:

Analysis Method		Analysis Date		Lab Comment			
TOTAL KJELDAHL NITROGEN (AS N) (EPA 307.1/18/2003)							
Code	Description	Cas No	Result	Units	LOD	Report Limit	LOQ
625	NITROGEN KJELDAHL TOTAL	E1644079	0.85	MGL	0.14		0.4

Analysis Method		Analysis Date		Lab Comment			
TOTAL PHOSPHORUS (AS P) (EPA 365.1)		07/28/2003					
Code	Description	Cas No	Result	Units	LOD	Report Limit	LOQ
665	PHOSPHORUS TOTAL	7723140	0.014	MGL	0.005		0.016

Analysis Method		Analysis Date		Lab Comment			
DISS REACTIVE PHOSPHORUS AS P (ORTHO) (EPA 365.1)		07/17/2003					
Code	Description	Cas No	Result	Units	LOD	Report Limit	LOQ
671	PHOSPHATE ORTHO DISS	7723140	ND	MGL	0.002		0.006

Analysis Method		Analysis Date		Lab Comment			
SUSPENDED SOLIDS (EPA METHOD 160.2)		07/21/2003					
Code	Description	Cas No	Result	Units	LOD	Report Limit	LOQ
530	RESIDUE TOTAL NFLT (TOTAL SUSPENDED SOLIDS)	E1642818	ND	MGL	2		7

Analysis Method		Analysis Date		Lab Comment			
TEMPERATURE ON RECEIPT-ICED		07/17/2003					
Code	Description	Cas No	Result	Units	LOD	Report Limit	LOQ
136	TEMPERATURE AT LAB	E1645696	ICED	C		0	

Wisconsin Department of Natural Resources

Laboratory Report

08/11/2003

Lab: 113133790

Sample: IO001781

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Analysis Method		Analysis Date		Lab Comment			
VOLUME LAB FILT FOR CHLOROPHYLL A		07/25/2003					
Code	Description	Cas No	Result	Units	LOD	Report Limit	LOQ
32000	SAMPLE SIZE LITERS		200	ML			

Analysis Method		Analysis Date		Lab Comment			
CHLOROPHYLL A, FLUORESCENCE (WELS)		07/18/2003					
Code	Description	Cas No	Result	Units	LOD	Report Limit	LOQ
99717	CHLOROPHYLL A, FLUORESCENCE (WELSCHMAYER 1994)	479618	2.16	UG/L	0.26		0.87

Analysis Method		Analysis Date		Lab Comment			
AMMONIA (AS N), DISS (EPA 350.1)		07/24/2003					
Code	Description	Cas No	Result	Units	LOD	Report Limit	LOQ
608	NITROGEN NH3-N DISS	7664417	ND	MGL	0.013		0.042

Analysis Method		Analysis Date		Lab Comment			
NITRATE+NITRITE (AS N), DISS (EPA 353.2)		07/24/2003					
Code	Description	Cas No	Result	Units	LOD	Report Limit	LOQ
631	NITROGEN NO3+NO2 DISS (AS N)	E701177	ND	MGL	0.022		0.075

Wisconsin Department of Natural Resources

Laboratory Report

08/11/2003

Lab: 113133790

Sample: IO001780

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Laboratory: Wisconsin State Laboratory of Hygiene

DNR ID 113133790

2601 Agriculture Dr.

Madison

WI 53718

Phone: 800-442-4618

Fax Phone: 608-224-6276

Entered

9-2-03

Sample:

Field #: ST-OUT

Sample #: IO001780

Collection Start: 07/16/2003 11:30 am

Collection End:

Collected by: SCHIEFFER

Waterbody/Outfall Id: 2623800

ID #: 493206

ID Point #:

County: Polk

Account #: LM010

Sample Location: SOUTH TWIN LAKE - OUTLET

Sample Description: SURFACE GRAB

Sample Source: SU

Sample Depth:

Date Reported: 08/11/2003

Sample Status: COMPLETE

Project No: LPL838

Analyses and Results:

Analysis Method		Analysis Date		Lab Comment			
AMMONIA (AS N), DISS (EPA 350.1)		07/24/2003					
Code	Description	Cas No	Result	Units	LOD	Report Limit	LOQ
608	NITROGEN NH3-N DISS	7664417	ND	MGL	0.013		0.042

Analysis Method		Analysis Date		Lab Comment			
NITRATE+NITRITE (AS N), DISS (EPA 353.2)		07/24/2003					
Code	Description	Cas No	Result	Units	LOD	Report Limit	LOQ
631	NITROGEN NO3+NO2 DISS (AS N)	E701177	ND	MGL	0.022		0.075

Analysis Method		Analysis Date		Lab Comment			
TOTAL KJELDAHL NITROGEN (AS N) (EPA 307.18/2003)		07/28/2003					
Code	Description	Cas No	Result	Units	LOD	Report Limit	LOQ
625	NITROGEN KJELDAHL TOTAL	E1644079	0.47	MGL	0.14		0.4

Analysis Method		Analysis Date		Lab Comment			
TOTAL PHOSPHORUS (AS P) (EPA 365.1)		07/28/2003					
Code	Description	Cas No	Result	Units	LOD	Report Limit	LOQ
665	PHOSPHORUS TOTAL	7723140	0.015	MGL	0.005		0.016

Analysis Method		Analysis Date		Lab Comment			
DISS REACTIVE PHOSPHORUS AS P (ORTHO)		07/17/2003					
Code	Description	Cas No	Result	Units	LOD	Report Limit	LOQ
671	PHOSPHATE ORTHO DISS	7723140	0.003	MGL	0.002		0.006

Analysis Method		Analysis Date		Lab Comment			
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Wisconsin Department of Natural Resources

Laboratory Report

08/11/2003

Lab: 113133790

Sample: IO001780

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SUSPENDED SOLIDS (EPA METHOD 160.2) 07/21/2003

Code	Description	Cas No	Result	Units	LOD	Report Limit	LOQ
530	RESIDUE TOTAL NFLT (TOTAL SUSPENDED SOLIDS)	E1642818	2.	MGL	2		7

Analysis Method Analysis Date Lab Comment

TEMPERATURE ON RECEIPT-ICED

07/17/2003

Code	Description	Cas No	Result	Units	LOD	Report Limit	LOQ
136	TEMPERATURE AT LAB	E1645696	ICED	C		0	

Wisconsin Department of Natural Resources

Laboratory Report

*checked
9/16/03*

09/18/2003

Lab: 113133790

Sample: IO005589

Page 1 of 2

Laboratory: Wisconsin State Laboratory of Hygiene
2601 Agriculture Dr.
Madison WI 53718
Phone: 800-442-4618 Fax Phone: 608-224-6276

DNR ID 113133790

Sample:

Field #: ST-SUR	Sample #: IO005589
Collection Start: 08/28/2003 01:00 pm	Collection End:
Collected by: SCHIEFFER	Waterbody/Outfall Id: 2623800
ID #: 493061	ID Point #:
County: Polk	Account #: LM010
Sample Location: SOUTHTWIN LAKE	
Sample Description: NEAR CENTER - SURFACE	
Sample Source: SU	Sample Depth: F0.5
Date Reported: 09/17/2003	Sample Status: COMPLETE
Project No: LPL838	

Analyses and Results:

Analysis Method		Analysis Date	Lab Comment				
VOLUME LAB FILT FOR CHLOROPHYLL A		09/08/2003					
Code	Description	Cas No	Result	Units	LOD	Report Limit	LOQ
32000	SAMPLE SIZE LITERS		200	ML			

Analysis Method		Analysis Date	Lab Comment				
CHLOROPHYLL A, FLUORESCENCE (WELSCHMAYER 1994)		09/03/2003					
Code	Description	Cas No	Result	Units	LOD	Report Limit	LOQ
99717	CHLOROPHYLL A, FLUORESCENCE (WELSCHMAYER 1994)	479618	5.64	UG/L	0.26		0.87

Analysis Method		Analysis Date	Lab Comment				
AMMONIA (AS N), DISS (EPA 350.1)		09/03/2003					
Code	Description	Cas No	Result	Units	LOD	Report Limit	LOQ
608	NITROGEN NH3-N DISS	7664417	ND	MGL	0.013		0.042

Analysis Method		Analysis Date	Lab Comment				
NITRATE+NITRITE (AS N), DISS (EPA 353.2)		09/03/2003					
Code	Description	Cas No	Result	Units	LOD	Report Limit	LOQ
631	NITROGEN NO3+NO2 DISS (AS N)	E701177	ND	MGL	0.022		0.075

Analysis Method		Analysis Date	Lab Comment				
TOTAL KJELDAHL NITROGEN (AS N) (EPA 309.0)		09/08/2003					
Code	Description	Cas No	Result	Units	LOD	Report Limit	LOQ
625	NITROGEN KJELDAHL TOTAL	E1644079	0.60	MGL	0.14		0.4

Wisconsin Department of Natural Resources

Laboratory Report

09/18/2003

Lab: 113133790

Sample: IO005589

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Analysis Method		Analysis Date		Lab Comment			
TOTAL PHOSPHORUS (AS P) (EPA 365.1)		09/09/2003					
Code	Description	Cas No	Result	Units	LOD	Report Limit	LOQ
665	PHOSPHORUS TOTAL	7723140	0.026	MGL	0.005		0.016

Analysis Method		Analysis Date		Lab Comment			
DISS REACTIVE PHOSPHORUS AS P (ORTH08/29/2003		08/29/2003		QUALITY CONTROL PROBLEM, RESULT APPROXIMATE			
Code	Description	Cas No	Result	Units	LOD	Report Limit	LOQ
671	PHOSPHATE ORTHO DISS	7723140	*0.004	MGL	0.002		0.006

Analysis Method		Analysis Date		Lab Comment			
SUSPENDED SOLIDS (EPA METHOD 160.2)		09/04/2003					
Code	Description	Cas No	Result	Units	LOD	Report Limit	LOQ
530	RESIDUE TOTAL NFLT (TOTAL SUSPENDED SOLIDS)	E1642818	6.	MGL	2		7

Analysis Method		Analysis Date		Lab Comment			
TEMPERATURE ON RECEIPT-ICED		08/29/2003					
Code	Description	Cas No	Result	Units	LOD	Report Limit	LOQ
136	TEMPERATURE AT LAB	E1645696	ICED	C		0	

Wisconsin Department of Natural Resources

Laboratory Report

*entered
8/16/03*

09/18/2003

Lab: 113133790

Sample: IO005590

Page 1 of 2

Laboratory: Wisconsin State Laboratory of Hygiene
2601 Agriculture Dr.
Madison WI 53718
Phone : 800-442-4618 Fax Phone : 608-224-6276

DNR ID 113133790

Sample:

Field #: ST-OUT	Sample #: IO005590
Collection Start: 08/28/2003 01:15 pm	Collection End:
Collected by: SCHIEFFER	Waterbody/Outfall Id: 2623800
ID #: 493206	ID Point #:
County: Polk	Account #: LM010
Sample Location: SOUTH TWIN LAKE	
Sample Description: OUTLET - SURFACE GRAB	
Sample Source: SU	Sample Depth:
Date Reported: 09/17/2003	Sample Status: COMPLETE
Project No: LPL838	

Analyses and Results:

Analysis Method		Analysis Date		Lab Comment			
AMMONIA (AS N), DISS (EPA 350.1)		09/03/2003					
Code	Description	Cas No	Result	Units	LOD	Report Limit	LOQ
608	NITROGEN NH3-N DISS	7664417	ND	MGL	0.013		0.042

Analysis Method		Analysis Date		Lab Comment			
NITRATE+NITRITE (AS N), DISS (EPA 353.2)		09/03/2003					
Code	Description	Cas No	Result	Units	LOD	Report Limit	LOQ
631	NITROGEN NO3+NO2 DISS (AS N)	E701177	ND	MGL	0.022		0.075

Analysis Method		Analysis Date		Lab Comment			
TOTAL KJELDAHL NITROGEN (AS N) (EPA 309.08)		09/08/2003					
Code	Description	Cas No	Result	Units	LOD	Report Limit	LOQ
625	NITROGEN KJELDAHL TOTAL	E1644079	0.55	MGL	0.14		0.4

Analysis Method		Analysis Date		Lab Comment			
TOTAL PHOSPHORUS (AS P) (EPA 365.1)		09/09/2003					
Code	Description	Cas No	Result	Units	LOD	Report Limit	LOQ
665	PHOSPHORUS TOTAL	7723140	0.027	MGL	0.005		0.016

Analysis Method		Analysis Date		Lab Comment			
DISS REACTIVE PHOSPHORUS AS P (ORTHO)		08/29/2003		QUALITY CONTROL PROBLEM, RESULT APPROXIMATE			
Code	Description	Cas No	Result	Units	LOD	Report Limit	LOQ
671	PHOSPHATE ORTHO DISS	7723140	*0.004	MGL	0.002		0.006

Wisconsin Department of Natural Resources
Laboratory Report

09/18/2003

Lab: 113133790

Sample: IO005590

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Analysis Method		Analysis Date		Lab Comment			
SUSPENDED SOLIDS (EPA METHOD 160.2)		09/04/2003					
Code	Description	Cas No	Result	Units	LOD	Report Limit	LOQ
530	RESIDUE TOTAL NFLT (TOTAL SUSPENDED SOLIDS)	E1642818	3.	MGL	2		7

Analysis Method		Analysis Date		Lab Comment			
TEMPERATURE ON RECEIPT-ICED		08/29/2003					
Code	Description	Cas No	Result	Units	LOD	Report Limit	LOQ
136	TEMPERATURE AT LAB	E1645696	ICED	C		0	

Entered
8/4/04 - L.T

Wisconsin Department of Natural Resources
Laboratory Report

06/29/2004

Lab: 113133790

Sample: IO021867

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Laboratory: Wisconsin State Laboratory of Hygiene

DNR ID 113133790

2601 Agriculture Dr.

Madison

WI 537077996

Phone : 800-442-4618

Fax Phone : 608-224-6276

Sample:

Field #: ST-SUR

Sample #: IO021867

Collection Start: 05/19/2004 09:00 am

Collection End:

Collected by: SCHIEFFER

Waterbody/Outfall Id: 2623800

ID #: 493061

ID Point #:

County: Polk

Account #: LM010

Sample Location: SOUTH TWIN LAKE

Sample Description: NEAR CENTER - SURFACE

Sample Source: SU

Sample Depth:

Date Reported: 06/22/2004

Sample Status: COMPLETE

Project No: LPL838

Analyses and Results:

Analysis Method		Analysis Date		Lab Comment			
VOLUME LAB FILT FOR CHLOROPHYLL A		06/01/2004					
Code	Description	Cas No	Result	Units	LOD	Report Limit	LOQ
32000	SAMPLE SIZE LITERS		200	ML			

Analysis Method		Analysis Date		Lab Comment			
CHLOROPHYLL A, FLUORESCENCE (WELS)		06/03/2004					
Code	Description	Cas No	Result	Units	LOD	Report Limit	LOQ
99717	CHLOROPHYLL A, FLUORESCENCE (WELSCHMAYER 1994)	479618	3.63	UG/L	0.26		0.87

Analysis Method		Analysis Date		Lab Comment			
AMMONIA (AS N), DISS (EPA 350.1)		06/02/2004					
Code	Description	Cas No	Result	Units	LOD	Report Limit	LOQ
608	NITROGEN NH3-N DISS	7664417	0.079	MG/L	0.015		0.048

Analysis Method		Analysis Date		Lab Comment			
NITRATE+NITRITE (AS N), DISS (EPA 353.2)		06/02/2004					
Code	Description	Cas No	Result	Units	LOD	Report Limit	LOQ
631	NITROGEN NO3+NO2 DISS (AS N)	E701177	ND	MG/L	0.019		0.061

Analysis Method		Analysis Date		Lab Comment			
TOTAL KJELDAHL NITROGEN (AS N) (EPA 306.07)		06/07/2004					
Code	Description	Cas No	Result	Units	LOD	Report Limit	LOQ
625	NITROGEN KJELDAHL TOTAL	E1644079	0.54	MG/L	0.14		0.4

Wisconsin Department of Natural Resources

Laboratory Report

06/29/2004

Lab: 113133790

Sample: IO021867

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Analysis Method		Analysis Date		Lab Comment			
TOTAL PHOSPHORUS (AS P) (EPA 365.1)		05/28/2004					
Code	Description	Cas No	Result	Units	LOD	Report Limit	LOQ
665	PHOSPHORUS TOTAL	7723140	0.018	MGL	0.005		0.016

Analysis Method		Analysis Date		Lab Comment			
DISS REACTIVE PHOSPHORUS AS P (ORTH		05/21/2004					
Code	Description	Cas No	Result	Units	LOD	Report Limit	LOQ
671	PHOSPHATE ORTHO DISS	7723140	ND	MGL	0.002		0.006

Analysis Method		Analysis Date		Lab Comment			
SUSPENDED SOLIDS (EPA METHOD 160.2)		05/21/2004					
Code	Description	Cas No	Result	Units	LOD	Report Limit	LOQ
530	RESIDUE TOTAL NFLT (TOTAL SUSPENDED SOLIDS)	E1642818	ND	MGL	2		7

Analysis Method		Analysis Date		Lab Comment			
TEMPERATURE ON RECEIPT-ICED		05/20/2004					
Code	Description	Cas No	Result	Units	LOD	Report Limit	LOQ
136	TEMPERATURE AT LAB	E1645696	ICED C			0	

Wisconsin Department of Natural Resources

Laboratory Report

Entered
8/9/04 - 117

06/29/2004

Lab: 113133790

Sample: IO021868

Page 1 of 2

Laboratory: Wisconsin State Laboratory of Hygiene
2601 Agriculture Dr.
Madison WI 537077996
Phone : 800-442-4618 Fax Phone : 608-224-6276

DNR ID 113133790

Sample:

Field #: ST-OUT	Sample #: IO021868
Collection Start: 05/19/2004 09:05 am	Collection End:
Collected by: SCHIEFFER	Waterbody/Outfall Id: 2623800
ID #: 493206	ID Point #:
County: Polk	Account #: LM010
Sample Location: SOUTH TWIN LAKE	
Sample Description: OUTLET - SURFACE GRAB	
Sample Source: SU	Sample Depth:
Date Reported: 06/22/2004	Sample Status: COMPLETE
Project No: LPL838	

Analyses and Results:

Analysis Method		Analysis Date		Lab Comment			
AMMONIA (AS N), DISS (EPA 350.1)		06/02/2004					
Code	Description	Cas No	Result	Units	LOD	Report Limit	LOQ
608	NITROGEN NH3-N DISS	7664417	0.055	MGL	0.015		0.048

Analysis Method		Analysis Date		Lab Comment			
NITRATE+NITRITE (AS N), DISS (EPA 353.2)		06/02/2004					
Code	Description	Cas No	Result	Units	LOD	Report Limit	LOQ
631	NITROGEN NO3+NO2 DISS (AS N)	E701177	ND	MGL	0.019		0.061

Analysis Method		Analysis Date		Lab Comment			
TOTAL KJELDAHL NITROGEN (AS N) (EPA 360.1)		06/07/2004					
Code	Description	Cas No	Result	Units	LOD	Report Limit	LOQ
625	NITROGEN KJELDAHL TOTAL	E1644079	0.63	MGL	0.14		0.4

Analysis Method		Analysis Date		Lab Comment			
TOTAL PHOSPHORUS (AS P) (EPA 365.1)		05/28/2004					
Code	Description	Cas No	Result	Units	LOD	Report Limit	LOQ
665	PHOSPHORUS TOTAL	7723140	0.019	MGL	0.005		0.016

Analysis Method		Analysis Date		Lab Comment			
DISS REACTIVE PHOSPHORUS AS P (ORTHO)		05/21/2004					
Code	Description	Cas No	Result	Units	LOD	Report Limit	LOQ
671	PHOSPHATE ORTHO DISS	7723140	ND	MGL	0.002		0.006

Analysis Method		Analysis Date		Lab Comment			
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Wisconsin Department of Natural Resources

Laboratory Report

06/29/2004

Lab: 113133790

Sample: IO021868

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SUSPENDED SOLIDS (EPA METHOD 160.2) 05/21/2004

Code	Description	Cas No	Result	Units	LOD	Report Limit	LOQ
530	RESIDUE TOTAL NFLT (TOTAL SUSPENDED SOLIDS)	E1642818	2.	MGL	2		7

Analysis Method Analysis Date Lab Comment

TEMPERATURE ON RECEIPT-ICED 05/20/2004

Code	Description	Cas No	Result	Units	LOD	Report Limit	LOQ
136	TEMPERATURE AT LAB	E1645696	ICED	C		0	