

SOLID WASTE DISPOSAL - 2-1-75

<u>ITEM</u>	<u>METHOD OF DISPOSAL</u>
Refuse Porcelain Sludge Cement	Hauled to Sanitary Landfill Site of City of Ripon.
Paint Sludge Contaminated Oils Coating Machine Sludge Plating Sludges	Placed in closed lugger container for transport to Toxic & Hazardous licensed landfill operated by United Waste Systems, Menomonee Falls, WI.
Contaminated Mineral Spirits	Collected and stored for reclamation.

PORCELAIN SLUDGE

Average amount entering Ripon landfill - 7390 gal/month.

Taken from letter dated 5-7-74
from Gary Ambach to Claude
Lee - data are actual avgs.
for 6 mos. bwn. 1/73 thru 4/74

Quantities
of material.

CONSTITUENTS

<u>Raw Material</u>	<u>Manufacturer</u>	<u>Amount</u>
Water	-	2956 gal.
Frits: 2229	Ferro Corporation	368
2226	" "	746
XG-185-4	" "	494
XT-1264	" "	1118
XT-95	" "	566
XT-47	" "	374
XD-1	" "	29.3
XF-61	" "	61.2
H6761	Pemco Ceramics-Glidden Durkee	35.2
Neo 386Q	" " " "	75.0
Clays: M-43	" " " "	44.6
M-62	" " " "	3.6
#33	Ferro Corporation	52.0
#55	" "	77.0
Red Label	" "	59.6
Pigments:		
- F-15126 Brown	" "	2.7
- F-15100 Brown	" "	0.8
- F-3131 Brown	" "	1.6
- K-100 Brown	" "	0.7
- F-6300 Black	" "	1.6
- F-3645 Green	" "	0.8
- K-900 Yellow	" "	9.9
F-7900 Yellow	" "	12.6
K-110 Maple	" "	7.4
- K-630 Blue	" "	0.1
- F-6066 Stabilizer	" "	0.5
Lead Oxide Sb ₂ O ₃ , Cr ₂ O ₃ - N-906 Maple insoluble. pot. haz.	Pemco Ceramics	0.1
N-958 Yellow	" "	0.8
N-930 Orange	" "	0.5
N-924 Yellow	" "	0.9
43.97 Cr ₂ O ₃ N-982 Green ins. pot. haz	" "	0.1
N-662 Blue	" "	0.1

(Continued)

PORCELAIN SLUDGE (Continued)

<u>Raw Material</u>	<u>Manufacturer</u>	<u>Amount</u>
Quartz	Ferro Corporation	156.0 gal.
Bentonite	" "	11.9
Borax	" "	9.2
Opax - S	" "	32.4
Titanium dioxide	" "	30.9
Potassium Nitrite	" "	2.7
Potassium Carbonate	" "	4.9
Sodium Nitrite	" "	0.4
Magnesium Carbonate	" "	4.5
Zinc Oxide	" "	33.1
Keltex	" "	0.5
Gum tragacanth	" "	1.4
K60	" "	0.9
Sodium Aluminate	" "	0.3
Uverite ZOH	" "	0.2

=====
Total - 7390.0 gal.

PAINT SLUDGE

Average amount entering Ripon landfill - 2670 gal/month.

CONSTITUENTS

<u>Raw Material</u>	<u>Manufacturer</u>	<u>Amount</u>
Light Coppertone	Glidden-Durkee	10 gal.
Dark Coppertone	" "	20
Sundown Orange	" "	20
Dark Harvest Gold	" "	107
Light Harvest Gold	" "	41
Dark Avocado	" "	57
Light Avocado	" "	22
Apple Green	" "	19
Prime	" "	579
Prime	PPG Industries	196
White	" "	399
Cardboard, Paper, etc.	-	900
Greasorex Spray Booth	Mobil Oil Co.	300

=====
Total - 2670.0 gal.

SPIRITS - COOLANTS

Average amount entering Ripon landfill - 1400 gal/month.

CONSTITUENTS

<u>Raw Materials</u>	<u>Manufacturer</u>	<u>Amount</u>
Shell Solv 340	Shell Oil Co.	915 gal.
Filmite	Filmite	400 gal.
Mobilarma 245	Mobil Oil Co.	85 gal.
		====
		Total - 1400 gal.

OILS

Average amount entering Ripon landfill - 1620 gal/month.

CONSTITUENTS

<u>Raw Materials</u>	<u>Manufacturer</u>	<u>Amount</u>
Water	-	300 gal.
ATF 220	Mobil Oil Co.	14
DTE Extra Heavy	" " "	298
Delvac Special	" " "	60
DTE #26	" " "	420
DTE #24	" " "	181
Mobilmet 406	" " "	150
Velocite #10	" " "	18
Vactra Oil Heavy Medium	" " "	138
Vactra Oil #2	" " "	41
		====
		Total - 1620 gal.



FRIT DIVISION
HEADQUARTERS
4150 East 56th Street
Cleveland, Ohio 44105, U.S.A.
Telephone (216) 641-8580
Telex 98 5230

March 7, 1973

Mr. J. Kotloski
SPEED QUEEN DIVISION
McGraw-Edison Company
Ripon, Wisconsin 54971

Dear Mr. Kotloski:

The following information pertains to Ferro products relative to material safety:

FRITS

XF-61 ✓	XT-95 ✓
XF-105	2226
XT-47 ✓	2229
XT-49	✓XG-185-4
XD-1 ✓	

These frits do not contain any significant levels of toxic materials.

XT-1264 contains 0.15% of Arsenic Oxide, which is an integral part of the glass structure.

CERAMIC COLOR OXIDES

The following oxides do not contain any toxic materials:

F-3131	F-15126
F-3645	K-100
F-6300	K-239
F-15100	K-630

The following oxides contain toxic materials, as indicated:

F-6066	-	Cadmium Oxide
F-7909	-	Lead Oxide
K-885	-	Cadmium Sulfo Selenide
K-886	-	Cadmium Sulfo Selenide
K-887	-	Cadmium Sulfo Selenide
K-888	-	Cadmium Sulfo Selenide
K-900	-	Lead Oxide

continued.....

NW Sec 17 Cas 44

clay 0-18

Sandy 18-48

Limestone

SE Sec 7 Woch Korach

clay 0-15 Cassy

Sand + gravel 15-54 WL 30

Limestone 54-140

Sandstone 140-180

SENE Sec 7 Kallis

0-15 clay

Cased 44

15-20 Sand + gravel WL 24

20-100 limestone

100-150 Congl shale + sandstone

100-150 Gravel pockets

SE Sec 7 Alvin-Alvin Blds

clay 0-15

Cas 40

Sand rock 15-102

WL 47

Muscovich

0-15 clay

Cas 76

15-28 gravel sand

30 ft WL

Lime rock 28-65

Soft lime rock 65-70

Lime rock fine 70-115

sandstone 115-136

500 ft Town Rip

sect SE 1/4 SE 1/4 NW
6 ac due south FF

Dave Edwards

8-414-485-4434

Lab slip - private

50-60 ft 47-48 ppm

- private - 100 ft drilled -

69 56 49 ^{Ripon} Falkenberg

12 dichlorvet

Benzene
Toluene
Trichloroethylene

Don Joseph
EPA
Monitoring well
262 2797
Deegan Hart

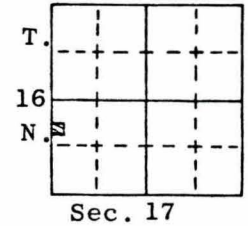
Well name Wisconsin Power & Light Co. Well #9

County: Fond du Lac

R.14E.

Owner.... Wisconsin Power & Light Co.
 Address.. 112 Watson St., P.O. Box 203
 Ripon, WI 54971
 Driller.. Layne-Northwest Co.
 Engineer. Wisconsin Power & Light Co.
 Madison, Wisconsin

Completed... 6/72
 Field check.
 Altitude.... 843' ETM
 Use..... Municipal
 Static w.l.. 19' 5"
 Spec. cap... 3.5 GPM/ft.



Quad. Ripon 7 1/2'

Drill Hole						Casing & Liner Pipe or Curbing							
Dia.	from	to	Dia.	from	to	Dia.	Wgt.& Kind	from	to	Dia.	Wgt.& Kind	from	to
24"	0	114'	23"	114'	320'	24"	3/8 wall steel bk A53 Grade B welded +6"		114'	16"	3/8 wall bk A53 Grade B welded	+12"	135'

Drilling method:
 Samples from 0 to 320' Rec'd:1/5/73

Grout	from	to
Neat Cement	0	135'

Studied by: Kathleen Massie

Issued: 5/6/83

Formations: Surface, Drift, St. Peter Sandstone.

Remarks: Well tested for 12 hours at 395 GPM with 110' 7" of drawdown.

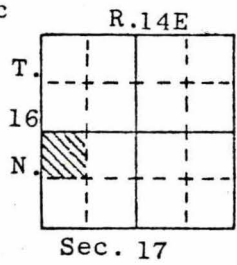
LOG OF WELL:

Surf	Depths	Graphic Section	Rock Type	Color	Grain Size		Miscellaneous Characteristics
					Mode	Range	
	0-5		Soil	Dk brown	—	—	Little gravel. Trace organic material.
	5-10		Gravel	Mxd brown	L peb	Gran/VL peb	Fos dolomite,dol,quartz,cht,dol cem ss,trap,granite. Ltl sand.
	10-15		"	Mxd grey	M peb	Gran/L peb	Same but much sand.
D R I F T	15-20		Sand	"	C	Vfn/VC	Many dolomite frags. Much gravel. Ltl silt. Trace clay.
	20-25		Gravel	"	M peb	Gran/L peb	Fos dol,dol,qtz,cht,grnt,trap. Much sand(most dolic). Tr silt.
	25-30		Sand	"	C	Vfn/VC	Many dolomite fragments. Much gravel. Trace silt.
	30-35		Gravel	"	L peb	Gran/VL peb	Fos dolomite,dolomite,quartz,ched,trap,granite. Much sand.
	35-40		Sand	Brown	Fn	Vfn/VC	Dolomitic. Much silt. Little clay. Trace gravel.
	40-45		"	"	C	"	Many dolomite fragments. Much gravel. Trace silt.
	45-50		Clay	Gry brown	—	—	Calcareous. Much silt. Little sand.
	50-55		Silt & cl	"	—	—	Calcareous. Little sand. Trace gravel.
	55-60		Snd & silt	"	Fn	Vfn/VC	Calcareous. Much gravel, clay.
	60-65		"	"	"	"	Same.
65-70		"	"	"	"	"	
70-75		"	"	Fn/M	"	Same but little gravel.	
75-80		Silt & cl	"	—	—	Calcareous. Much sand. Little gravel.	
80-85		Snd & silt	"	M	Vfn/VC	Calcareous. Much clay. Little gravel.	
85-90		Gravel	Bk & grey	Gran	Gran/M peb	Gab, dior, fos dol, dol, qtz, grnt. Much sand.	
90-95		Snd & silt	Gry brown	M	Vfn/VC	Calcareous. Much clay. Little gravel.	
95-100		"	"	"	"	Same but much gravel.	
100	100-105		"	Brown	"	"	Little dolomitic clay. Trace gravel.
	105-110		Sandstone	Pl gry bn	M/C	"	Rounded. Much caved gravel.
S T.	110-115		"	V pl bn	M	"	Rounded. Tr G sil cem assoc w/pnk chert. Trace caved gyl & sand.
	115-120		"	Red	Fn	Vfn/VC	Srnd. Ltl V G sil cem,st. Mch hemic sh. Tr cvd gyl & snd,wh
P E	120-125		"	Yl red	M	"	See end of log. siliceous matx.
	125-130		"	Red	"	"	Same but much hematitic shale.
T E	130-135		"	Yl red	"	"	Srnd. Mch yl rd shale. Tr dk rd bn ss as above(cvd?),st,Fn
	135-140		"	"	"	"	Same. glauconite.
R	140-145		"	Dull yl rd	"	"	Srnd. Ltl dull yl rd sh. Tr dk rd bn ss as above(cvd?),st,Fn/M
	145-150		"	"	"	"	Same. glauconite.
	150-155		"	Lt brown	"	"	Srnd to sang. Tr sil cem,Fn/M glauc,st,dk rd bn ss(as above, cvd)
	155-160		"	Yl red	"	"	Srnd. Mch yl rd dolic sh, Ltl yl calcus sh(occ in layers?). st. Ltl pl yl shale. Trace Fn/M glauconite.

Well name: Wisconsin Power & Light Co. Well #9

	Depths	Graphic Section	Rock Type	Color	Grain Size		Miscellaneous Characteristics
					Mode	Range	
S T P E T R S A N D S T O N E	160-165		Sandstone	Yl red	Fn	Vfn/VC	Srnd. Mch yl rd dolc sh, st. Tr dol cem, Fn glauconite.
	165-170		"	Rd yellow	M	"	Srnd. Mch red yellow dolc shale. Ltl silt. Tr Fn-glauconite.
	170-175		"	"	Fn	"	Same plus trace good silica cement.
	175-180		"	"	Fn&C	"	Srnd. Tr dol & lim cem, pnk cht, Fn glauc. Mch rd yl dolc sh, st.
	180-185		"	"	C	"	Same plus trace pale yellow green dolomitic shale.
	185-190		"	"	"	"	Same but no glauconite.
	190-195		"	"	"	"	Srnd. Trace dolomite cem, pnk chert. Mch rd yl dolc sh, silt.
	195-200		"	"	Fn&C	"	Same.
	200-205		"	Strg bn	M	"	Same but strong brown shale.
	205-210		"	Brown	C	"	Srnd. Tr G dol cem, Fn/M glauc, pl gn sh, pnk cht. Much dolc
	210-215		"	"	"	"	Same. shale.
	215-220		"	V pl brown	"	"	Srnd to sang. Tr P dol cem, Fn/M-glauc, mfc incl, pnk cht. Ltl
	220-225		"	"	M/C	"	Srnd. Tr sil cem, Fn-glauc, mfc incl, pnk cht, silt. silt, shale.
	225-230		"	"	"	"	Same.
	230-235		"	"	"	"	Same but no cement.
	235-240		"	"	C	"	Srnd. Tr pnk cht (w/tr fltg snd), Fn-glauc, mfc incl, pl gn micus
	240-245		"	"	M/C	"	Same but much silt. shale. Ltl silt.
	245-250		"	Lt rd brown	C	"	Srnd. Mch pnk dolc sh, pnk cht (w/tr rd bn hemic stng, bk hem, thin
	250-255		"	"	"	"	Same plus tr pl gn shale. qtz layers, micus incl). Tr calc x s.
	255-260		Ss & chert	Rd yellow	M/C	"	See end of log.
	260-265		"	"	"	"	Same plus tr msv glauc, but tr dk rd bn hemic stng.
	265-270		Chert	"	—	—	Ltl ss (as above), fltg snd, siliceous pnk sh. Few thin qtz layers.
	270-275		Sandstone	Pink	M	Vfn/C	Srnd. Tr G to F Tr st, msv glauc, bk hem, dk rd bn hemic stng.
	275-280		"	"	"	"	Same. sil cem, msv glauc. Mch pnk sh, st. Ltl cht (as above).
	280-285		"	Rd yellow	"	Vfn/VC	Srnd. Tr G sil cem, dol, rd yl cht. Mch siliceous rd yl sh. Ltl
	285-290		"	Lt red	"	"	Same plus tr wh siliceous & rd bn hemic shale. silt.
	290-295		"	"	"	"	Same but much silt.
	295-300		"	Rd yellow	M/C	"	Srnd. Mch rd yl siliceous cl. Ltl st. Tr wh siliceous & rd bn
	300-305		"	"	"	"	Same. hemic shale.
	305-310		"	Pink	M	"	Srnd. Tr G sil cem, dol, pl gn shale. Ltl pnk siliceous shale.
	310-315		"	Rd yellow	"	"	Srnd. Mch wh siliceous sh, pl gn micus sh, rd bn hemic sh. Tr st.
	315-320		"	Pnk white	"	"	Subrounded. Little caved red yellow shale & sandstone. Trace silt, one quartz granule.
END OF LOG							
215	120-125		Sandstone	Yl red	M	Vfn/VC	Subangular. Little good silica cement. Trace hematitic shale. Much hard dark red brown hematitic very glauconitic Fn sandstone with trace fossil fragments, also with trace silica cemented micaceous & glauconitic sandstone.
	255-260		Ss & chert	Rd yellow	M/C	Vfn/VC	Subrounded. Trace calcite cement, black hematite & floating sand (chert), pale green shale. Few quartz layers (chert). Little dark red brown hematitic staining. Much dolomitic pink shale.

Well name Wisconsin Power & Light Co. Test Hole #9-A County: Fond du Lac
 Ripon Township Completed... 1/26/71
 Owner.... Wisconsin Power & Light Co. Field check.
 Address.. Ripon, Wisconsin Altitude.... 840' ETM
 Driller.. Zoellner Well Drilling Co. Use..... Test
 Engineer. Static w.l.. 19'
 Spec. cap... 4.5



Quad. Ripon 15'

Drill Hole						Casing & Liner Pipe or Curbing							
Dia.	from	to	Dia.	from	to	Dia.	Wgt. & Kind	from	to	Dia.	Wgt. & Kind	from	to
8 3/4"	0'	133'	6"	133'	343'	6"	New Black, Steel 18.97 lbs. per ft. P.E. Rotary	+18"	133'				
Grout: Kind												from	to
Neat Cement												0'	120'

Samples from 0' to 343' Rec'd: 3/29/71 Studied by: M. Roshardt Issued: 1/5/72

Formations: Drift, sandstone*

Remarks: Well tested 72 hours at 288 gpm with 64 feet of drawdown.

LOG OF WELL:

	Depths	Graphic Section	Rock Type	Color	Grain Size		Miscellaneous Characteristics
					Mode	Range	
D R I F T	0-5 S		Silt	Brown	--	--	Clayey, Trace sand.
	5-10		Gravel	Mixed	S peb	Gran/S peb	Little sand, calcareous clay.
	10-15 S		"	"	"	"	--
	15-20		"	"	Gran	"	--
	20-25		"	"	S peb	"	--
	25-30		"	"	Gran	"	--
	30-35		"	"	"	"	--
	35-40		"	"	S peb	"	Little calcareous clay, sand.
	40-45		"	"	"	"	--
	45-50 S		"	"	"	"	--
	50-55 S		Clay	Pnk brown	--	--	Calcareous. Little sand. Trace gravel.
	55-60		"	"	--	--	Same
	60-65 S		Gravel	Mixed	Gran	Gran/S peb	Trace calcareous clay.
	65-70 S		"	"	S peb	"	Same
	70-75 S		"	"	"	"	"
	75-80 S		"	"	"	"	"
80-85 S		"	"	"	--	--	
85-90 S		"	"	"	--	--	
90-95 S		"	"	"	--	--	
95-100 S		"	"	"	--	--	
105	100-105 S		Sand	Orange gry	M & C	Fn/C	--
S A N D S T O N E	105-110 S		Sandstone	Pink gray	C	Fn/VC	Trace dolomite cement, M glauconite.
	110-115		"	"	"	"	Same
	115-120		"	"	"	"	"
	120-125 S		Shale	Red brown	--	--	Little sand, hematitic-glauconitic dolomite.
	125-130 S		Sandstone	Pale gray	M	Fn/C	Trace M/C glauconite.
	130-135		"	"	"	"	Little M/C glauconite.
	135-145		"	"	M & C	"	Same
	145-148		"	"	M	"	"
	148-150 S		"	Yellow gry	"	"	Same plus trace white chert.
	150-151 S		"	Pl pur gry	"	"	Little M/C glauconite. Trace hematite coatings.
151-160 S		"	Orange bn	Fn & M	"	Little hematitic dolomite cement. Trace green shale.	

Well name: Wisconsin Power & Light Co. Test Hole #9-A

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Depths	Graphic Section	Rock Type	Color	Grain Size		Miscellaneous Characteristics
				Mode	Range	
160-170S		Sandstone	Pl yl gry	M	Fn/C	Trace dolomite cement.
170-173		"	"	"	"	Same
173-175		"	Yl or gry	C	"	Trace dolomite cement, orange chert, green micaceous sh.
175-180		"	"	"	"	Same but no shale.
180-185S		"	"	"	"	Same plus few feldspar grains.
185-195		"	"	"	Fn/VC	Same but no feldspar.
195-200		"	"	M & VC	"	Same plus trace green shale.
200-205S		"	"	M & C	"	Same but no shale.
205-209S		"	Red brown	"	Fn/C	Much dolomite cement, M/C glauconite.
209-210S		"	Yl gn gry	C	Fn/VC	Much M/C glauconite. Trace dolomite cement.
210-215S		"	Pl yl gry	C & VC	M/VC	--
215-220		"	"	C	"	Little M/C glauconite, orange & cream cherts.
220-225		"	"	"	"	Trace glauconite, chert.
225-230S		"	"	M & C	Fn/VC	Same
230-235S		"	"	"	Fn/C	Trace chert.
235-240S		"	"	"	"	Trace chert, glauconite.
240-243S		"	"	C	"	Trace chert.
243-250S		"	Purple bn	M	"	Much orange chert. Little red shale.
250-255S		"	Orange tan	"	"	Much orange chert. Trace red shale, muscovite.
255-265S		"	"	"	"	Much orange chert.
265-270S		"	"	M & C	"	Same
270-275S		"	Yellow gry	M	"	Little orange & white cherts.
275-280S		"	"	"	Fn/VC	Same
280-283S		"	Pink gray	"	"	Trace orange & white cherts, hematite coatings.
283-285S		"	Yellow gry	"	"	Little orange & white cherts.
285-290S		"	"	"	Fn/C	Same
290-295S		"	Pink gray	C	M/C	--
295-305S		"	Pl yl gry	M & C	Fn/C	Trace orange & white cherts.
305-310S		"	Pink gray	"	"	Same
310-315S		"	"	"	"	Trace white chert.
315-316S		"	"	M	"	Same
316-317S		"	Yellow gry	"	"	Trace white chert, purple-red mottled micaceous shale.
317-325S		"	"	M & C	"	Same
325-330S		"	"	C	Fn/VC	"
330-335S		"	"	M & C	Fn/C	"
335-340S		"	Red brown	M	"	Same plus much hematite coatings.
340-343S		"	Purple bn	"	"	Much siliceous mottled red-white shale, Tr white chert.

END OF LOG

*Unable to define sandstone formation on basis of samples without study of the area. The sandstone contains chert characteristic of the Prairie du Chien Group and glauconite characteristic of the Tunnel City Group. This sandstone may represent an area of transitional deposition between the type Prairie du Chien in Wisconsin and its sandier counterpart in Upper Michigan.

238

C of Ripon

DEPARTMENT OF NATURAL RESOURCES
Solid Waste Disposal - Site Evaluation

566

Licensee City of Ripon License No. _____

Officials: (Mayor, Chairman, Pres.) _____

(Clerk) _____

Responsible Person C. Lee - Director J.W. Phone _____

Location Grand du Lac Ripon SE 1/4 Section 7 T16N R14E
(county) (township) (1/4 sec., town, range)

Type of Operation _____ Population served _____

Distances to: surface water _____ nearest dwelling _____

groundwater _____ bedrock _____ S.T.H. _____

<u>OPERATION CHECK LIST</u>	<u>YES</u>	<u>NO</u>	<u>REMARKS</u>
Screened from view	(X)	()	<i>in general - can see it from CTH NW</i>
Lockable gate at entrance	(X)	()	
Regulatory signs posted	(X)	()	
All-weather approach road	(X)	()	
Nuisance free (odors, loose paper, etc.)	(X)	()	
Site fenced	(X)	()	<i>partly - some missing along CTH NW</i>
Operator on duty	()	(X)	<i>closed - but burning</i>
Compaction and covering	(X)	(X)	<i>not after each days operation</i>
Equipment available	(X)	()	<i>city equip.</i>
Putrescible material covered	()	()	?
Rodent and insect control	()	()	?
Burning practiced	(X)	(X)	<i>must prohibit - and not supervised.</i>
Fire hazard in area	()	(X)	
Hazardous material at site	()	()	?
Site subject to flooding	()	(X)	
Local official contacted	()	(X)	
Permit required (60.72 Stats.)	(X)	()	
Comments	_____		

Date visited July 21, 1970 Evaluation by Allen J. Schae

Wisconsin Power & Light Well ~~110~~, Ripon, Wis.

Pacific Street

Driller, I.E. Brown - Fall, 1964

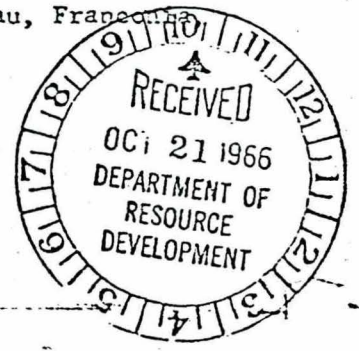
Sample Nos. 251501-251565, Examined by M.E. Ostrom - 2-8-65

now # 0

Interval	Depth	Stratigraphic Unit	Description	Notes
0-4 1/2	4 1/2	Snd&st	Mvl bn, P, Dol, mch dol	
4 1/2-6	1 1/2	Dol	Mvl bn, fn, M, dns	
6-15	9	Ss	stnd vl rd, M, C, Srnd, Psrtg, tr fn, mch caved dol	23" cas - present
15-20	5	Ss	Vlt vl, M, C, rnd, Gsrng, stnd Fe-F, tr lim	
20-35	15	Ss	Myl, M, C, rnd, Gsrng, stnd Fe-F, tr lim	16" O.D., 3/8" wall
35-80	45	Ss	lt vl, M, C, rnd, Gsrng, Si:P, tr Fe-cem	45' water level
80-85	5	Ss	lt vl, M, C, rnd, Psrtg, Si:P, tr fn, Vfn	
85-95	10	Ss	lt vl, M, C, rnd, Psrtg, Si:P, tr fn, Vfn	
95-100	5	Ss	lt vl, M, fn, rnd, Psrtg, tr Vfn, C	
100-105	5	Ss	lt vl, M, fn, rnd, Psrtg, Si:P, tr C, tr stnd pyr	
105-110	5	Ss	Vlt or blk, M, fn, rnd, Psrtg, Si:P, tr C	
110-115	5	Ss	Vlt vl bn, M, fn, Srnd, Gsrng, Si:F, tr C, tr sh	
115-120	5	Sh&Sts	Vmx, Si:G, tr VC, cem, rd Ss	
120-125	5	Ss	Vlt-lt rd, M, fn, Srnd, Psrtg, Si:F, mch mx, sh	
125-130	5	Dol	lt gry bn, fn, M, dns, tr C, tr mx, sh	15" hole
130-135	5	Dol	lt gry bn, fn, M, dns, tr C, tr lt rd, tr mx, sh	
135-140	5	Dol	lt gry bn, fn, M, dns, tr C, tr lt rd, mx, Ss, tr mx, sh	
140-145	5	Dol	lt gry bn, fn, M, dns, tr C, mch mx, sh	
145-150	5	Dol	lt gry bn, fn, M, dns, tr C, mch mx, sh, tr coals	
150-155	5	Ss	lt gry bn, M, C, Srnd, Psrtg, tr fn, mch dol, tr coals	
155-160	5	Cht	mostly wh&gry, lt bn, tr dol, Ss, sh, calc	
160-175	15	Cht	stnd rd, tr calc	
175-180	5	Cht	stnd rd, tr calc, sh	
180-185	5	Ss	mx, rd, fn, C, Sang, Psrtg, Si:F, tr M, tr coals, sh	ch
185-190	5	Ss	lt rd, M, C, Srnd, Psrtg, Si:P, tr fn, VC	
190-215	25	Ss	Vlt rd, M, C, Srnd, Psrtg, Si:P, tr fn, VC	
215-225	10	Ss	Vlt rd, fn, C, Srnd, Psrtg, Si:F, tr M, VC, tr sh	
225-232	7		No Sample	
232-240	8	Ss	Mrd, fn, Vfn, Srnd, Psrtg, VG:Si, tr M	
240-245	5	Ss	Mvl bn, mx, fn, Vfn, Srnd, Psrtg, VG:Si, tr M, mch	glauc
245-250	5	Ss	Vlt vl rd, M, fn, Srnd, Psrtg, mch calc, glauc, dol	
250-255	5	Ss	Vlt vl rd, M, fn, Srnd, Psrtg, tr Vfn, tr calc, dol	
255-260	5	Ss	Vlt vl, M, Srnd, Gsrng, tr glauc	
260-265	5	Ss	lt vl, M, C, Srnd, Psrtg, Calc:F, tr fn, Vfn, VC	
265-270	5	Ss	lt vl, M, C, Srnd, Calc:F, tr fn, tr glauc	
270-275	5	Ss	lt vl, C, VC, Srnd, Psrtg, Calc:F, tr M, fn	
275-285	10	Ss	Vlt vl rd, M, fn, Srnd, Psrtg, Calc:F, tr Vfn, C	
285-290	5	Ss	Vlt vl rd, M, C, Srnd, Psrtg, Calc, E, tr Vfn, fn	
290-295	5	Ss	lt vl, M, fn, Srnd, Psrtg, Calc:F, tr Vfn	
295-302	7	Ss	lt vl, M, fn, Srnd, Psrtg, Calc:F, tr Vfn, C, tr foss	
302-308	6		"Washed out" - No Sample	
308-312	4	Ss	lt vl, M, fn, Srnd, Psrtg, Calc:F, tr Vfn, C, tr foss	312'

Formations: Drift, Platteville, St. Peter, Prairie du Chien, Trempealeau, Franconia
 Well tested for 3 hours at 790 gpm with 465 feet of drawdown.
 Specific capacity = 16.97 gpm per foot of drawdown.
 Driller reports a total depth of 300' ±

#8



TEST HOLE NO. 3, WISCONSIN POWER AND LIGHT CO., RIPON, WIS.

NE 1/4 sec. 29, T. 16 N., R. 14 E.

C. F. Dobson, Engineer I. E. Brown, Driller, 1948, 1954

Samples examined by F. T. Thwaites, Wisconsin Geological Survey
Nos. 139277-139325; 166452-166492

D P L A	5	0-5	5		Till, brown-gray, weathered	
		5-50	45		Dolomite, light gray	
S T P E T E R	50	50-55	5		Sandstone, medium to fine, light gray, dol.	
		55-65	10		Sandstone, medium to fine, light gray	
		65-90	25		Sandstone, fine to medium, light gray to light yellow-gray	
		90-100	10		Sandstone, fine to medium, light pink	
		100-120	20		Sandstone, fine to medium, light gray	
		120-130	10		Sandstone, medium to fine, light gray	
		130-135	5		Sandstone, fine to medium, light gray	
		135-140	5		Sandstone, medium to fine, light gray	
		140-160	20		Sandstone, fine to medium, light gray	
		160-170	10		Sandstone, medium to fine, light gray	
		170-180	10		Sandstone, fine to medium, light gray	
		180-190	10		Sandstone, medium to fine, light gray	
		190-195	5		Shale, red	
		195-200	5		Sandstone, medium to fine, red-brown	
		200-225	25		Shale, red; some chert, gray	
		225-235	10		Sandstone, fine, pale red	
		235-255	20		Sandstone, fine to medium, pale red	
		255-265	10		Sandstone, fine, pale red	
	235		265-285	20		Sandstone, fine to very fine, lt. gy to pink
			285-290	5		Shale, dark red
	F R A N C O N I A		290-305	15		Sandstone, fine to medium, pale red
			305-315	10		Sandstone, very fine to fine, pink
			315-325	10		Sandstone, fine to medium, light gray
		325-335	10		Sandstone, fine to medium, lt. gray, dolomitic	
		335-345	10		Sandstone, medium to fine, light gray, dol.	
		345-350	5		Sandstone, very fine to fine, lt. gray, dol.	
		350-365	15		Sandstone, fine to medium, light gy, dol.	
		365-380	15		Sandstone, very fine, pink, dolomitic	
110		380-400	20		Sandstone, fine to medium, red, dol, glaucou.	

Additional copies may be secured from Wisconsin Geological Survey, Science Hall, Madison 6, Wis.
Formations: Drift; Platteville; St. Peter; Franconia

CHECKS WITH PPT OF APPROVAL 6/14/49

UNIT WELL NO. 6, WISCONSIN POWER AND LIGHT CO., RIPON, WIS. SE $\frac{1}{4}$ SE $\frac{1}{4}$ sec. 17, T. 16 N., R. 14 E. 10' from test hole
 C. F. Dobson, Engineer I. E. Brown, Driller, 1949
 Samples examined by F. T. Thwaites, Nos. 147271-147307

D R I F T	0-5	5		Soil, black, sandy	8 water 20" pipe 16" pipe cemented 60 75 15" hole
	5-10	5		Till, rusty gray, weathered	
	10-35	25		Gravel, stony to sandy, some coarse	
S T P E T E R	45 35-45	10		Gravel, stony, red, some clay	
	45-65	20		Conglomerate, sandstone, fine, red; pebbles dolomite, chert; some shale, red	
	65-77	12		Sandstone, medium to fine, light gray, pink	
	77-85	8		Sandstone, fine to medium, light gray	
	85-90	5		Sandstone, fine to medium, pink, dolomitic	
	90-95	5		No sample	
	95-100	5		Sandstone, medium to fine, light gray	
	100-105	5		Sandstone, medium to fine, light pink	
	105-120	15		Sandstone, medium to fine, light pink; shale, red	
	120-130	10		Sandstone, fine to medium, light gray	
	130-145	15		Sandstone, medium to fine, light gray	
	145-155	10		Sandstone, medium to fine, pink	
140	155-175	20		Sandstone, fine to medium, light gray, dolomitic	
	175-180	5		Sandstone, fine to medium, lt. gy, red, dol.	
	180-185	5		Dolomite, sandy, gray, glauconitic	

Tested 5 hours at 550 g.p.m. specific capacity = 10.5 g.p.m./ft.

Now Well #6 - DRILLED AT SITE OF TEST WELL #1
 WHEN THIS WELL IS PUMPED AT 450 GPM, IT DRAWS DOWN
 WATER IN PRIVATE DUG WELL, APPROX. 300' AWAY, 30' DEEP.