

ILLINOIS REGISTER

POLLUTION CONTROL BOARD

NOTICE OF PROPOSED AMENDMENTS

- 1) Heading of the Part: Effluent Standards
- 2) Code Citation: 35 Ill. Adm. Code 304
- 3)

| <u>Section Numbers:</u> | <u>Proposed Actions:</u> |
|-------------------------|--------------------------|
| 304.101 | Amendment |
| 304.102 | Amendment |
| 304.103 | Amendment |
| 304.104 | Amendment |
| 304.105 | Amendment |
| 304.106 | Amendment |
| 304.120 | Amendment |
| 304.121 | Amendment |
| 304.122 | Amendment |
| 304.123 | Amendment |
| 304.124 | Amendment |
| 304.125 | Amendment |
| 304.126 | Amendment |
| 304.141 | Amendment |
| 304.201 | Amendment |
| 304.202 | Amendment |
| 304.203 | Amendment |
| 304.204 | Amendment |
| 304.205 | Repealed |
| 304.206 | Amendment |
| 304.207 | Amendment |
| 304.208 | Amendment |
| 304.209 | Amendment |
| 304.210 | Amendment |
| 304.211 | Repealed |
| 304.212 | Amendment |
| 304.213 | Repealed |
| 304.214 | Repealed |
| 304.215 | Amendment |
| 304.216 | Amendment |
| 304.218 | Amendment |
| 304.219 | Amendment |
| 304.220 | Repealed |
| 304.221 | Amendment |
| 304.222 | Amendment |
| 304.224 | Amendment |

ILLINOIS REGISTER

POLLUTION CONTROL BOARD

NOTICE OF PROPOSED AMENDMENTS

| | |
|----------------|----------|
| 304.302 | Repealed |
| 304.303 | Repealed |
| 304.Appendix A | Repealed |

- 4) Statutory Authority: Implementing Section 13 and authorized by Section 27 of the Environmental Protection Act [415 ILCS 5/13 and 27].
- 5) A Complete Description of the Subjects and Issues Involved: In 2016, the Board began reviewing its rules to identify obsolete, repetitive, confusing, or otherwise unnecessary language. On January 10, 2018, the Illinois Environmental Protection Agency (IEPA) filed a proposal to update provisions including Part 304. IEPA's proposal arose from Executive Order 2016-13, which required agencies to identify outdated, repetitive, confusing, or unnecessary rules and then amend or repeal them. These proposed amendments to Part 304 include those submitted by IEPA and those identified separately by the Board. Both IEPA and the Board intend the amendments to be non-substantive clarifications.
- 6) Published studies or reports, and sources of underlying data, used to compose this rulemaking: No
- 7) Will this proposed rulemaking replace an emergency rule currently in effect? No
- 8) Does this rulemaking contain an automatic repeal date? No
- 9) Does this proposed rulemaking contain incorporations by reference? No
- 10) Are there any proposed rulemakings to this Part pending? No
- 11) Statement of Statewide Policy Objectives: This proposed amendment does not create or enlarge a State mandate as defined in Section 3(b) of the State Mandates Act. [30 ILCS 805/3]
- 12) Time, Place, and Manner in which interested persons may comment on this proposed rulemaking: The Board will accept written public comments on this proposal for a period of at least 45 days after the date of publication in the *Illinois Register*. Public comments should refer to Docket R18-23 and be filed electronically through the Clerk's Office On-Line (COOL) on the Board's website at pcb.illinois.gov. Public comments may be addressed to:

Clerk's Office
Illinois Pollution Control Board

ILLINOIS REGISTER

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100 W. Randolph St., Suite 11-500
Chicago, IL 60601

Interested persons may download copies of the Board's opinions and orders in R18-23 from the Board's Web site at pcb.illinois.gov and may also request copies by calling the Clerk's office at 312-814-3620.

- 13) Initial Regulatory Flexibility Analysis:
 - A) Types of small businesses, small municipalities and not for profit corporations affected: None
 - B) Reporting, bookkeeping or other procedures required for compliance: None
 - C) Types of Professional skills necessary for compliance: None
- 14) Small Business Impact Analysis: The Board expects that this rulemaking will not have an adverse impact on small business.
- 15) Regulatory Agenda on which this rulemaking was summarized: January 2022

The full text of the Proposed Amendments begins on the next page:

TITLE 35: ENVIRONMENTAL PROTECTION
SUBTITLE C: WATER POLLUTION
CHAPTER I: POLLUTION CONTROL BOARD

PART 304
EFFLUENT STANDARDS

SUBPART A: GENERAL EFFLUENT STANDARDS

| | | |
|----|---------|---|
| 10 | Section | |
| 11 | 304.101 | Preamble |
| 12 | 304.102 | Dilution |
| 13 | 304.103 | Background Concentrations |
| 14 | 304.104 | Averaging |
| 15 | 304.105 | Violation of Water Quality Standards |
| 16 | 304.106 | Offensive Discharges |
| 17 | 304.120 | Deoxygenating Wastes |
| 18 | 304.121 | Bacteria |
| 19 | 304.122 | Total Ammonia Nitrogen |
| 20 | 304.123 | Phosphorus |
| 21 | 304.124 | Additional Contaminants |
| 22 | 304.125 | pH |
| 23 | 304.126 | Mercury |
| 24 | 304.140 | Delays in Upgrading (Repealed) |
| 25 | 304.141 | NPDES Effluent Standards |
| 26 | 304.142 | New Source Performance Standards (Repealed) |

SUBPART B: SITE SPECIFIC RULES AND
EXCEPTIONS NOT OF GENERAL APPLICABILITY

| | | |
|----|---------|---|
| 31 | Section | |
| 32 | 304.201 | Wastewater Treatment Plant Discharges of the Metropolitan Water Reclamation District of Greater Chicago |
| 34 | 304.202 | Chlor-alkali Mercury Discharges in St. Clair County |
| 35 | 304.203 | Copper Discharges by Olin Corporation |
| 36 | 304.204 | Schoenberger Creek: Groundwater Discharges |
| 37 | 304.205 | John Deere Foundry Discharges (Repealed) |
| 38 | 304.206 | Alton Water Company Treatment Plant Discharges |
| 39 | 304.207 | Galesburg Sanitary District Deoxygenating Wastes Discharges |
| 40 | 304.208 | City of Lockport Treatment Plant Discharges |
| 41 | 304.209 | Wood River Station Total Suspended Solids Discharges |
| 42 | 304.210 | Alton Wastewater Treatment Plant Discharges |
| 43 | 304.211 | Discharges From Borden Chemicals and Plastics Operating Limited Partnership Into an Unnamed Tributary of Long Point Slough (Repealed) |

1st Notice

JCAR350304-2207213r01

- 45 304.212 Sanitary District of Decatur Discharges
- 46 304.213 PDV Midwest Refining, L.L.C. Refinery Ammonia Discharge (Repealed)
- 47 304.214 Mobil Oil Refinery Ammonia Discharge (Repealed)
- 48 304.215 City of Tuscola Wastewater Treatment Facility Discharges
- 49 304.216 Newton Station Suspended Solids Discharges
- 50 304.218 City of Pana Phosphorus Discharge
- 51 304.219 North Shore Water Reclamation District Phosphorus Discharges
- 52 304.220 East St. Louis Treatment Facility, Illinois-American Water Company (Repealed)
- 53 304.221 Ringwood Drive Manufacturing Facility in McHenry County
- 54 304.222 Intermittent Discharge of TRC
- 55 304.224 Effluent Disinfection

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57 SUBPART C: TEMPORARY EFFLUENT STANDARDS

58

59 Section

- 60 304.301 Exception for Ammonia Nitrogen Water Quality Violations (Repealed)
- 61 304.302 City of Joliet East Side Wastewater Treatment Plant (Repealed)
- 62 304.303 Amerock Corporation, Rockford Facility (Repealed)

63

64 304.APPENDIX A References to Previous Rules (Repealed)

65

66 AUTHORITY: Implementing Section 13 and authorized by Section 27 of the Environmental
67 Protection Act [415 ILCS 5/13 and 27].

68

69 SOURCE: Filed with the Secretary of State January 1, 1978; amended at 2 Ill. Reg. 30, p. 343,
70 effective July 27, 1978; amended at 2 Ill. Reg. 44, p. 151, effective November 2, 1978; amended
71 at 3 Ill. Reg. 20, p. 95, effective May 17, 1979; amended at 3 Ill. Reg. 25, p. 190, effective June
72 21, 1979; amended at 4 Ill. Reg. 20, p. 53, effective May 7, 1980; amended at 6 Ill. Reg. 563,
73 effective December 24, 1981; codified at 6 Ill. Reg. 7818; amended at 6 Ill. Reg. 11161, effective
74 September 7, 1982; amended at 6 Ill. Reg. 13750, effective October 26, 1982; amended at 7 Ill.
75 Reg. 3020, effective March 4, 1983; amended at 7 Ill. Reg. 8111, effective June 23, 1983;
76 amended at 7 Ill. Reg. 14515, effective October 14, 1983; amended at 7 Ill. Reg. 14910, effective
77 November 14, 1983; amended at 8 Ill. Reg. 1600, effective January 18, 1984; amended at 8 Ill.
78 Reg. 3687, effective March 14, 1984; amended at 8 Ill. Reg. 8237, effective June 8, 1984;
79 amended at 9 Ill. Reg. 1379, effective January 21, 1985; amended at 9 Ill. Reg. 4510, effective
80 March 22, 1985; preemptory amendment at 10 Ill. Reg. 456, effective December 23, 1985;
81 amended at 11 Ill. Reg. 3117, effective January 28, 1987; amended in R84-13 at 11 Ill. Reg.
82 7291, effective April 3, 1987; amended in R86-17(A) at 11 Ill. Reg. 14748, effective August 24,
83 1987; amended in R84-16 at 12 Ill. Reg. 2445, effective January 15, 1988; amended in R83-23 at
84 12 Ill. Reg. 8658, effective May 10, 1988; amended in R87-27 at 12 Ill. Reg. 9905, effective
85 May 27, 1988; amended in R82-7 at 12 Ill. Reg. 10712, effective June 9, 1988; amended in R85-
86 29 at 12 Ill. Reg. 12064, effective July 12, 1988; amended in R87-22 at 12 Ill. Reg. 13966,
87 effective August 23, 1988; amended in R86-3 at 12 Ill. Reg. 20126, effective November 16,
88 1988; amended in R84-20 at 13 Ill. Reg. 851, effective January 9, 1989; amended in R85-11 at

89 13 Ill. Reg. 2060, effective February 6, 1989; amended in R88-1 at 13 Ill. Reg. 5976, effective
 90 April 18, 1989; amended in R86-17(B) at 13 Ill. Reg. 7754, effective May 4, 1989; amended in
 91 R88-22 at 13 Ill. Reg. 8880, effective May 26, 1989; amended in R87-6 at 14 Ill. Reg. 6777,
 92 effective April 24, 1990; amended in R87-36 at 14 Ill. Reg. 9437, effective May 31, 1990;
 93 amended in R88-21(B) at 14 Ill. Reg. 12538, effective July 18, 1990; amended in R84-44 at 14
 94 Ill. Reg. 20719, effective December 11, 1990; amended in R86-14 at 15 Ill. Reg. 241, effective
 95 December 18, 1990; amended in R93-8 at 18 Ill. Reg. 267, effective December 23, 1993;
 96 amended in R87-33 at 18 Ill. Reg. 11574, effective July 7, 1994; amended in R95-14 at 20 Ill.
 97 Reg. 3528, effective February 8, 1996; amended in R94-1(B) at 21 Ill. Reg. 364, effective
 98 December 23, 1996; expedited correction in R94-1(B) at 21 Ill. Reg. 6269, effective December
 99 23, 1996; amended in R97-25 at 22 Ill. Reg. 1351, effective December 24, 1997; amended in
 100 R97-28 at 22 Ill. Reg. 3512, effective February 3, 1998; amended in R98-14 at 23 Ill. Reg. 687,
 101 effective December 31, 1998; amended in R02-19 at 26 Ill. Reg. 16948, effective November 8,
 102 2002; amended in R02-11 at 27 Ill. Reg. 194, effective December 20, 2002; amended in R04-26
 103 at 30 Ill. Reg. 2365, effective February 2, 2006; amended in R08-9B at 36 Ill. Reg. 2586,
 104 effective February 2, 2012; amended in R13-20 at 38 Ill. Reg. 6107, effective February 26, 2014;
 105 amended in R18-23 at 46 Ill. Reg. _____, effective _____.

SUBPART A: GENERAL EFFLUENT STANDARDS

Section 304.101 Preamble

111 This Part establishes the maximum concentrations of various contaminants that may be
 112 discharged to the waters of the State. Subpart A contains general effluent limitations. Subpart B
 113 contains site specific rules and exceptions not of general applicability. Subpart C contains
 114 temporary rules.

117 (Source: Amended at 46 Ill. Reg. _____, effective _____)

Section 304.102 Dilution

121 a) Diluting the effluent from a treatment works or from any wastewater source is not
 122 acceptable as a method of treatment of wastes to meet the standards in 35 Ill.
 123 Adm. Code 304. It is the obligation of any person discharging contaminants of
 124 any kind to the waters of the state to provide the best degree of treatment of
 125 wastewater consistent with technological feasibility, economic reasonableness and
 126 sound engineering judgment. In determining what kind of treatment is the "best
 127 degree of treatment" within the meaning of this subsection, any person must
 128 consider the following:

- 130 1) What degree of waste reduction can be achieved by process change,
 131 improved housekeeping and recovery of individual waste components for
 132 reuse; and

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2) Whether individual process wastewater streams should be segregated or combined.

b) In any case, measurement of contaminant concentrations to determine compliance with the effluent standards must be made at the point immediately following the final treatment process and before mixture with other waters, unless another point is designated by the Agency in an individual permit, after consideration of the elements contained in this Section. If necessary the concentrations measured must be recomputed to exclude the effect of any dilution that is improper under this Section.

(Source: Amended at 46 Ill. Reg. _____, effective _____)

Section 304.103 Background Concentrations

Because the effluent standards in 35 Ill. Adm. Code 304 are based upon concentrations achievable with conventional treatment technology which is largely unaffected by ordinary levels of contaminants in intake water, they are absolute standards that must be met without subtracting background concentrations. However, these regulations do not intend to require users to clean up contamination caused essentially by upstream sources or to require treatment when only traces of contaminants are added to the background. Compliance with the numerical effluent standards is not required when effluent concentrations in excess of the standards result entirely from influent contamination, evaporation, and/or the incidental addition of traces of materials not utilized or produced in the activity that is the source of the waste.

(Source: Amended at 46 Ill. Reg. _____, effective _____)

Section 304.104 Averaging

a) Except as otherwise specifically provided, proof of violation of the numerical standards of 35 Ill. Adm. Code 304 must be on the basis of one or more of the following averaging rules:

- 1) A monthly average must not exceed the prescribed numerical standard.
- 2) A daily composite must not exceed two times the prescribed numerical standard.
- 3) A grab sample must not exceed five times the prescribed numerical standard.

b) Terms used in subsection (a) have the following meanings:

1st Notice

JCAR350304-2207213r01

- 177 1) The monthly average is the numerical average of all daily composites
178 taken during a calendar month. A monthly average must be based on at
179 least three daily composites.
180
181 2) A daily composite is the numerical average of all grab samples, or the
182 result of analysis of a single sample formed by combining all aliquots,
183 taken during a calendar day. A daily composite must be based on at least
184 three grab samples or three aliquots taken at different times.
185
186 3) A grab sample is a sample taken at a single time. Aliquots of a daily
187 composite are grab samples only if they are analyzed separately.
188
189 c) Subsection (a) establishes a method of interpretation of the effluent standards of
190 35 Ill. Adm. Code 304. The Agency must consider the averaging rule in deciding
191 whether an applicant has demonstrated that a facility complies with 35 Ill. Adm.
192 Code 304 for purposes of permit issuance and in writing the effluent standards
193 into permit conditions. Reporting and monitoring requirements are established by
194 permit condition under 35 Ill. Adm. Code 305.102 and 309.146.
195
196 d) Proof of violation of effluent limitations contained in permits must be based on
197 the language of the permit.
198

199 (Source: Amended at 46 Ill. Reg. _____, effective _____)
200

Section 304.105 Violation of Water Quality Standards

201
202
203 In addition to the other requirements of 35 Ill. Adm. Code, effluent must not, alone or in
204 combination with other sources, cause a violation of any applicable water quality standard.
205 When the Agency finds that a discharge which would comply with effluent standards in 35 Ill.
206 Adm. Code 304 would cause or is causing a violation of water quality standards, the Agency
207 must take appropriate action under Section 31 or Section 39 of the Act to require the discharge to
208 meet whatever effluent limits are necessary to ensure compliance with the water quality
209 standards. When such a violation is caused by the cumulative effect of more than one source,
210 several sources may be joined in an enforcement or variance proceeding, and measures for
211 necessary effluent reductions will be determined on the basis of technical feasibility, economic
212 reasonableness and fairness to all dischargers.
213

214 (Source: Amended at 46 Ill. Reg. _____, effective _____)
215

Section 304.106 Offensive Discharges

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218 In addition to the other requirements of 35 Ill. Adm. Code, effluent must not contain settleable
219 solids, floating debris, visible oil, grease, scum or sludge solids. Color, odor and turbidity must
220 be reduced to below obvious levels.

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(Source: Amended at 46 Ill. Reg. _____, effective _____)

Section 304.120 Deoxygenating Wastes

Except as provided in 35 Ill. Adm. Code 306.Subpart C, all effluents containing deoxygenating wastes must meet the following standards:

- a) Effluents must not exceed 30 mg/L of five day biochemical oxygen demand (BOD₅) or 30 mg/L of suspended solids, except that treatment works employing three stage lagoon treatment systems which are properly designed, maintained and operated, and whose effluent has a dilution ratio no less than five to one or who qualify for exceptions under subsection (c) must not exceed 37 mg/L of suspended solids.
- b) Effluents from any source whose untreated waste load is 10,000 population equivalents or more, or from any source discharging into the Chicago River System or into the Calumet River System, must not exceed 20 mg/L of BOD₅ or 25 mg/L of suspended solids.
- c) Effluents whose dilution ratio is less than five to one must not exceed 10 mg/L of BOD₅ or 12 mg/L of suspended solids, except that sources employing third-stage treatment lagoons are be exempt from this subsection (c) provided all of the following conditions are met:
 - 1) The waste source qualifies under one of the following categories:
 - A) Any wastewater treatment works with an untreated waste load less than 2500 population equivalents, which is sufficiently isolated that combining with other sources to aggregate 2500 population equivalents or more is not practicable.
 - B) Any wastewater treatment works in existence and employing third-stage treatment lagoons on January 1, 1986, whose untreated waste load is 5000 population equivalents or less and sufficiently isolated that combining to aggregate 5000 population equivalents or more is not practicable.
 - C) Any wastewater treatment works with an untreated waste load of 5000 population equivalents or less, which has reached the end of its useful life by January 1, 1987, and is sufficiently isolated that combining to aggregate 5000 population equivalents or more is not practicable.
 - D) Any wastewater treatment works with an untreated waste load of 5000

1st Notice

JCAR350304-2207213r01

265 population equivalents or less which has reached the end of its useful life
266 and which has received an adjusted standard determination from the Board
267 that it qualifies for a lagoon exemption. Such a Board determination will
268 only be made in an adjusted standard proceeding, held in compliance with
269 Section 28.1 of the Environmental Protection Act [415 ILCS 5/28.1] and
270 applicable procedures at 35 Ill. Adm. Code 104.

271
272 i) In an adjusted standard proceeding the Board may determine that
273 the petitioning wastewater treatment source qualifies for a lagoon
274 exemption if the wastewater treatment works proves that it is so
275 situated that a land treatment system is not a suitable treatment
276 alternative. Factors relevant to a suitability finding may include
277 the following: cost; influent character; geographic characteristics;
278 climate; soil conditions; hydrologic conditions; and the availability
279 of irrigable land.

280
281 ii) For the purposes of subsection (c)(1)(D), a land treatment system
282 is a wastewater treatment system which does not directly discharge
283 treated effluent to waters of the State but instead uses the treated
284 effluent to irrigate terrestrial vegetation;

285
286 2) The lagoons are properly constructed, maintained and operated; and
287

288 3) The deoxygenating constituents of the effluent do not, alone or in
289 combination with other sources, cause a violation of the applicable
290 dissolved oxygen water quality standard.

291
292 d) Effluents discharged to the Lake Michigan basin must not exceed 4 mg/L of
293 BOD₅ or 5 mg/L of suspended solids.

294
295 e) Compliance with the numerical standards in this Section must be determined on
296 the basis of the type and frequency of sampling prescribed by the NPDES permit
297 for the discharge at the time of monitoring.

298
299 f) For the purposes of this Section, useful life is the period of time during which it is
300 cost effective to operate and maintain a particular wastewater treatment works
301 under consideration. At a minimum, the following factors relating to a
302 wastewater treatment works must be considered in determining its useful life:

303
304 1) Structural and operational condition of components;

305
306 2) Past operations and maintenance record;

307
308 3) Cost for continued use; and

- 309
- 310
- 311
- 312 4) Description and costs of treatment alternatives.
- 313
- 314 g) Compliance with the 5 day biochemical oxygen demand (BOD₅) numerical
- 315 standard in this Part will be determined by the analysis of 5 day carbonaceous
- 316 biochemical oxygen demand (CBOD₅), unless federal regulations require
- 317 treatment works treating industrial wastes to comply with more stringent
- 318 requirements determined by the analysis of BOD₅. Effluent from the treatment
- 319 works subject to the requirements of Section 304.120(a) must not exceed 25 mg/L
- 320 CBOD₅.

(Source: Amended at 46 Ill. Reg. _____, effective _____)

Section 304.121 Bacteria

- 322
- 323
- 324 a) Effluents discharged to all general use waters must not exceed 400 fecal coliforms
- 325 per 100 ml unless the Illinois Environmental Protection Agency determines that
- 326 an alternative effluent standard is applicable under subsection (b).
- 327
- 328 b) The Agency must, as part of the NPDES Permit Program under 35 Ill. Adm. Code
- 329 309.Subpart A, determine the applicable standard only in compliance with the
- 330 requirements of 35 Ill. Adm. Code 302.209 and 302.306.
- 331
- 332 1) The discharger must demonstrate and document the following:
- 333
- 334 A) The character of the receiving waters under 35 Ill. Adm. Code
- 335 302.202, 302.209, and 302.306.
- 336
- 337 B) The discharge will not cause downstream waters to exceed the
- 338 applicable fecal coliform water quality standards under 35 Ill.
- 339 Adm. Code 302.209 and 302.306.
- 340
- 341 2) Alternate effluent standards consistent with 35 Ill. Adm. Code 302.209
- 342 and 302.306 must be applied on either a year-round or seasonal basis
- 343 consistent with the documentation provided by the discharger.
- 344

(Source: Amended at 46 Ill. Reg. _____, effective _____)

Section 304.122 Total Ammonia Nitrogen

- 347
- 348
- 349 a) Effluent from any source which discharges to the Illinois River, the Des Plaines
- 350 River downstream of its confluence with the Chicago River System or the
- 351 Calumet River System, and whose untreated waste load is 50,000 or more
- 352 population equivalents must not contain more than 2.5 mg/L of total ammonia

353 nitrogen as N during the months of April through October, or 4 mg/L at other
354 times.

355
356 b) Sources discharging to any of the above waters and whose untreated waste load
357 cannot be computed on a population equivalent basis comparable to that used for
358 municipal waste treatment plants and whose total ammonia nitrogen as N
359 discharge exceeds 45.4 kg/day (100 pounds per day) must not discharge an
360 effluent of more than 3.0 mg/L of total ammonia nitrogen as N.

361
362 c) In addition to the effluent standards in subsections (a) and (b), all sources are
363 subject to 35 Ill. Adm. Code 304.105.

364
365 (Source: Amended at 46 Ill. Reg. _____, effective _____)

366
367 **Section 304.123 Phosphorus**

368 a) Effluents discharged within the Lake Michigan Basin must not contain more than
369 1.0 mg/L of phosphorus as P.

370
371 b) Effluents from any source which discharges to a lake or reservoir with a surface
372 area of 8.1 hectares (20 acres) or more, or to any tributary of such a lake or
373 reservoir whose untreated waste load is 2500 or more population equivalents, and
374 which does not utilize a third-stage lagoon treatment system as specified in 35 Ill.
375 Adm. Code 304.120(a) and (c), must not exceed 1.0 mg/L of phosphorus as P;
376 however, this subsection does not apply where the lake or reservoir, including any
377 side channel reservoir or other portion of it, on an annual basis exhibits a mean
378 hydraulic retention time of 0.05 years (18 days) or less.

379
380 c) Under Section 28.1 of the Environmental Protection Act (Act) [415 ILCS 5/28.1],
381 the owner or operator of any source subject to subsection (b) may apply for an
382 adjusted standard. In addition to the proofs specified in Section 28.1(c) of the Act
383 [415 ILCS 5/28.1(c)], the application must, at a minimum, contain adequate proof
384 that the effluent resulting from granting the adjusted standard will not contribute
385 to cultural eutrophication, unnatural plant or algal growth or dissolved oxygen
386 deficiencies in the receiving lake or reservoir. For purposes of this subsection,
387 effluent must be deemed to contribute to such conditions if phosphorus is the
388 limiting nutrient for biological growth in the lake or reservoir, taking into account
389 the lake or reservoir limnology, morphological, physical and chemical
390 characteristics, and sediment transport. However, if the effluent discharge enters
391 a tributary at least 40.25 kilometers (25 miles) upstream of the point at which the
392 tributary enters the lake or reservoir at normal pool level, effluent will not be
393 deemed to contribute to such conditions if the receiving lake or reservoir is
394 eutrophic and phosphorus from internal regeneration is not a limiting nutrient.

395
396 d) For the purposes of this Section the term "lake or reservoir" does not include low

1st Notice

JCAR350304-2207213r01

- 397 level pools constructed in free flowing streams or any body of water which is an
398 integral part of an operation which includes the application of sludge on land.
399
- 400 e) Compliance with the limitations of subsection (b) must be achieved by the
401 following dates:
402
- 403 1) Sources with the present capability to comply must do so on the effective
404 date of this Section;
405
- 406 2) All other sources must comply as required by NPDES permit.
407
- 408 f) For purposes of this Section, the following terms have the meanings specified:
409
- 410 1) "Dissolved oxygen deficiencies" means the occurrence of a violation of
411 the dissolved oxygen standard applicable to a lake or reservoir.
412
- 413 (BOARD NOTE: Dissolved Oxygen standards for general use waters are
414 at 35 Ill. Adm. Code 302.206; Dissolved Oxygen standards are at 35 Ill.
415 Adm. Code 302.405 for:
416
- 417 302.405(a): South Fork of the South Branch of the Chicago River
418 (Bubbly Creek);
419 302.405(b): Upper Dresden Island Pool Aquatic Life Use waters;
420 302.405(c): Chicago Area Waterway System Aquatic Life Use A
421 waters; and
422 302.405(d): Chicago Area Waterway System and Brandon Pool
423 Aquatic Life Use B waters.)
424
- 425 2) "Euphotic zone" means that region of a lake or reservoir extending from
426 the water surface to a depth at which 99% of the surface light has
427 disappeared or such lesser depth below which photosynthesis does not
428 occur.
429
- 430 3) "Eutrophic" means a condition of a lake or reservoir in which there is an
431 abundant supply of nutrients, including phosphorus, accounting for a high
432 concentration of biomass.
433
- 434 4) "Eutrophication" means the process of increasing or accumulating plant
435 nutrients in the water of a lake or reservoir. Cultural eutrophication is
436 eutrophication attributable to human activities.
437
- 438 5) "Internal regeneration" means the process of conversion of phosphorus or
439 other nutrients in sediments of a lake or reservoir from the particulate to
440 the dissolved form and the subsequent return of such dissolved forms to

- 441 the euphotic zone.
442
443 6) "Limiting nutrient" means a substance which is limiting to biological
444 growth in a lake or reservoir due to its short supply or unavailability with
445 respect to other substances necessary for the growth of organisms.
446
447 7) "Unnatural plant or algal growth" means the occurrence of a violation of
448 the unnatural sludge standard applicable to a lake or reservoir with respect
449 to such growth.
450
451 (BOARD NOTE: Unnatural sludge standards for general use waters are at
452 35 Ill. Adm. Code 302.203; unnatural sludge standards for the Chicago
453 Area Waterway System and Lower Des Plaines River waters are at 35 Ill.
454 Adm. Code 302.403.)
455
456 g) Except as provided in subsection (h), any new or expanded discharges into
457 General Use waters from the following treatment works not covered by
458 subsections (b) through (f), are subject to monthly average permit limits for total
459 phosphorus of 1 mg/ℓ:
460
461 1) Treatment works with a Design Average Flow of 1.0 million gallons per
462 day or more receiving primarily municipal or domestic wastewater; or
463
464 2) Any treatment works, other than those treating primarily municipal or
465 domestic wastewater, with a total phosphorus effluent load of 25 pounds
466 per day or more.
467
468 3) For purposes of this subsection:
469
470 A) A new discharge means a discharge from a treatment works
471 constructed after February 2, 2006.
472
473 B) An expanded discharge means a discharge from any existing
474 treatment works that would be greater than the flowrates permitted
475 prior to February 2, 2006.
476
477 h) Discharges qualifying under subsections (g)(1) and (g)(2) may not be subject to
478 the requirements of subsection (g) if the discharger demonstrates that phosphorus
479 from treatment works is not the limiting nutrient in the receiving water. The
480 Agency may impose alternative phosphorus effluent limits where the supporting
481 information shows that alternative limits are warranted by the aquatic
482 environment in the receiving stream.
483

1st Notice

JCAR350304-2207213r01

- 484 i) No additional phosphorus limitations are required under 35 Ill. Adm. Code
485 304.105 and 35 Ill. Adm. Code 302.203 for the discharges that comply with the
486 requirements of subsection (g) or (h).
487
488 j) The provisions of subsections (g), (h), and (i) apply until the Board adopts a
489 numeric water quality standard for phosphorus and the adopted standard is
490 approved by the USEPA.
491
492 k) The averaging rules under 35 Ill. Adm. Code 304.104 (a)(2) and (a)(3) do not
493 apply to permit limits established under subsection (g) or (h).
494

495 (Source: Amended at 46 Ill. Reg. _____, effective _____)
496

Section 304.124 Additional Contaminants

- 497
498
499 a) A person must not cause or allow the concentration of the following constituents
500 in any effluent to exceed the following levels, subject to the averaging rules in 35
501 Ill. Adm. Code 304.104(a).
502

| CONSTITUENT | CONCENTRATION mg/L |
|---|-----------------------|
| Arsenic | 0.25 |
| Barium | 2.0 |
| Cadmium | 0.15 |
| Chromium (hexavalent) | 0.1 |
| Chromium (total) | 1.0 |
| Copper | 0.5 |
| Cyanide | 0.10 |
| Fluoride | 15.0 |
| Iron (total) | 2.0 |
| Lead | 0.2 |
| Manganese | 1.0 |
| Nickel | 1.0 |
| Oils (hexane soluble or equivalent) | 15.0 |
| Phenols | 0.3 |
| Silver | 0.1 |
| Zinc | 1.0 |
| Total Suspended Solids (From sources other than those covered by Section 304.120) | 15.0 |

- 503
504 b) Discharges of hexavalent chromium are subject to the averaging rule of 35 Ill.
505 Adm. Code 304.104 modified as follows: monthly averages must not exceed 0.1

1st Notice

JCAR350304-2207213r01

506 mg/L; daily composites must not exceed 0.3 mg/L; and, grab samples must not
507 exceed 1.0 mg/L.

- 508
- 509 c) Oil may be analytically separated into polar and nonpolar components. If
510 separated, neither of the components may exceed 15 mg/L (i.e. 15 mg/L polar
511 materials and 15 mg/L nonpolar materials).
- 512
- 513 d) Unless otherwise indicated, concentrations refer to the total amount of the
514 constituent present in all phases, whether solid, suspended or dissolved, elemental
515 or combined, including all oxidation states. Where constituents are commonly
516 measured as other than total, the word "total" is inserted for clarity.

- 517
- 518 e) The following table is provided for cross referencing purposes:

519

| CONSTITUENT | SECTION(S) |
|---------------------------|------------------|
| Ammonia nitrogen | 304.301, 304.122 |
| Bacteria | 304.121 |
| Biochemical Oxygen Demand | 304.120 |
| Deoxygenating Wastes | 304.120 |
| Mercury | 304.126 |
| Nitrogen, ammonia | 304.301, 304.122 |
| pH | 304.125 |
| Phosphorus | 304.123 |

520

521 (Source: Amended at 46 Ill. Reg. _____, effective _____)

522

523 **Section 304.125 pH**

- 524
- 525 a) Except as provided below a person must not cause or allow the negative logarithm
526 of the hydrogen ion concentration (pH) in any effluent to be more or less
527 respectively than the maximum and minimum values for pH range indicated in the
528 following table:

529

| CONSTITUENT | RANGE (pH units) |
|-------------|------------------|
| pH | 6-9 |

- 530
- 531 b) The pH limitation is not subject to the averaging rule contained in 35 Ill. Adm.
532 Code 304.104(a).

- 533
- 534 c) Effluents that are monitored to provide a permanent, continuous pH record may
535 be outside of the listed range for a total of not more than fifteen minutes in any
536 day provided the excursion is accidental and less than one pH unit above or below

1st Notice

- 537 the listed range.
 538
 539 d) The pH 9 maximum limitation may be exceeded if the elevated pH level:
 540
 541 1) is caused entirely by algae in treatment lagoons, in which case there is no
 542 upper pH limit; or
 543
 544 2) is caused by the addition of alkali in the waste water treatment process to
 545 cause precipitation of barium, cadmium, chromium, copper, lead,
 546 manganese, zinc or other materials requiring such elevated pH for
 547 treatment, in which case the upper limit is pH 10 and subsection (c) does
 548 not apply to the upper limit.
 549
 550 e) The burden of proving that subsection (c) or (d) applies is upon the discharger.
 551
 552 (Source: Amended at 46 Ill. Reg. _____, effective _____)
 553

Section 304.126 Mercury

- 554
 555
 556 a) Except as provided below, a person must not cause or allow the concentration of
 557 mercury in any effluent to exceed the following level, subject to the averaging
 558 rule contained in 35 Ill. Adm. Code 304.104(a).
 559

| CONSTITUENT | CONCENTRATION mg/L |
|-------------|--------------------|
| Mercury | 0.0005 |

- 560
 561 b) It is an exception to subsection (a) if all of the following conditions are met:
 562
 563 1) The discharger does not use mercury; or, the discharger uses mercury and
 564 this use cannot be eliminated; or, the discharger uses mercury only in
 565 chemical analysis or in laboratory or other equipment and takes reasonable
 566 care to avoid contamination of wastewater;
 567
 568 2) The effluent mercury concentration is less than 0.003 mg/L, as determined
 569 by application of the averaging rules of 35 Ill. Adm. Code 304.104(a);
 570
 571 3) The discharger is providing the best degree of treatment consistent with
 572 technological feasibility, economic reasonableness and sound engineering
 573 judgment. This may include no treatment for mercury; and
 574
 575 4) The discharger has an inspection and maintenance program likely to
 576 reduce or prevent an increase in the level of mercury discharges.
 577

1st Notice

JCAR350304-2207213r01

- 578 c) It is exception to subsection (a) if all of the following conditions are met:
579
580 1) The discharger is a publicly owned or publicly regulated sewage treatment
581 works;
582
583 2) The discharger does not use mercury; or, the discharger uses mercury only
584 in chemical analysis or in laboratory or other equipment and takes
585 reasonable care to avoid contamination of wastewater;
586
587 3) The effluent mercury concentration is less than 0.003 mg/L, as determined
588 by application of the averaging rules of 35 Ill. Adm. Code 304.104(a);
589 provided, however, that daily averages may exceed 0.006 mg/L 30% of
590 the time;
591
592 4) The discharger has enforceable ordinances or contract provisions whereby
593 it limits use of mercury by dischargers and discharge of mercury into its
594 sewage system;
595
596 5) The discharger's limitations on use and discharge of mercury to its sewage
597 system are at least as stringent as those provided in 35 Ill. Adm. Code
598 307.103;
599
600 6) The discharger has a surveillance program with a reasonable likelihood of
601 determining sources of mercury discharged to the sewage system;
602
603 7) The discharger takes all lawful steps to eliminate known mercury
604 discharges to the sewage system which contribute levels in excess of those
605 allowed by 35 Ill. Adm. Code 307.103; and
606
607 8) The discharger reports all known violations of 35 Ill. Adm. Code 307.103
608 to the Agency.

609 d) When it issues a permit, the Agency may consider applying the exceptions of this
610 Section to determine compliance with this Section. The Agency may impose
611 permit conditions necessary or required to assure continued application of an
612 exception. When subsection (b) applies, the Agency may impose an effluent
613 limitation in the permit which allows discharge of a concentration of mercury
614 greater than 0.0005 mg/L but not more than 0.003 mg/L.
615

616 (Source: Amended at 46 Ill. Reg. _____, effective _____)
617

618 **Section 304.141 NPDES Effluent Standards**

619
620 a) A person that has been issued an NPDES Permit must not discharge any
621

622 contaminant in its effluent in excess of the standards and limitations for that
623 contaminant in its permit.

624
625 b) A person must not discharge any pollutant subject to, or that contributes or
626 threatens to cause a violation of, any applicable federal or state water quality
627 standard, effluent standard, guideline or other limitation, promulgated under the
628 CWA or the Act, unless limitation for a pollutant is in an applicable NPDES
629 Permit. However, the Agency may, by permit condition, provide that the
630 permittee may discharge pollutants present in its water supply intake sources in
631 concentrations not greater than the concentrations in the intake sources, or which
632 are added in trace amounts by normal domestic water usage.

633
634 BOARD NOTE: Section 304.141(b) was declared invalid in Peabody Coal Co. v.
635 PCB, 3 Ill. App. 3d 5 (5th District, 1976) and declared valid in U.S. Steel v. PCB,
636 52 Ill. App. 3d 1 (2d District, 1977).

637
638 c) The standards of this Chapter apply to thermal discharges unless, after public
639 notice and opportunity for public hearing, in compliance with section 316 of the
640 CWA, applicable federal regulations, and procedures in 35 Ill. Adm. Code
641 106.Subpart K, the Board has determined that different standards apply to a
642 particular thermal discharge.

643 (Source: Amended at 46 Ill. Reg. _____, effective _____)

644
645
646 SUBPART B: SITE SPECIFIC RULES AND EXCEPTIONS NOT OF GENERAL
647 APPLICABILITY

648
649 **Section 304.201 Wastewater Treatment Plant Discharges of The Metropolitan Water**
650 **Reclamation District of Greater Chicago**

651
652 a) Calumet Treatment Plant Discharges:
653 The effluent standards of 35 Ill. Adm. Code 304.124 as applied to cyanide
654 discharges, 35 Ill. Adm. Code 304.120(b) and (c), and 35 Ill. Adm. Code 304.122
655 do not apply to carbonaceous BOD₅ (CBOD₅), total suspended solids (TSS),
656 cyanide, and ammonia-nitrogen as N discharged from the Calumet Sewage
657 Treatment Works of The Metropolitan Water Reclamation District of Greater
658 Chicago. Instead, it must meet the following effluent standards, subject to the
659 averaging rule of 35 Ill. Adm. Code 304.104(a), effective July 1, 1988:

| CONSTITUENT | CONCENTRATION mg/L |
|-------------------|-----------------------|
| CBOD ₅ | 24 |
| TSS | 28 |

1st Notice

JCAR350304-2207213r01

| | |
|----------------------------|------|
| Ammonia Nitrogen (as N) | 13 |
| Cyanide | 0.15 |

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b) North Side Sewage Treatment Works:
The effluent standards of 35 Ill. Adm. Code 304.120(b) and (c) and 35 Ill. Adm. Code 304.122 do not apply to carbonaceous BOD₅ (CBOD₅), total suspended solids (TSS), and ammonia-nitrogen discharged from the North Side Sewage Treatment Works of The Metropolitan Water Reclamation District of Greater Chicago. Instead, it must meet the following standard, subject to the averaging rule of 35 Ill. Adm. Code 304.104(a) effective July 1, 1988:

| CONSTITUENT | CONCENTRATION mg/L |
|----------------------------|-----------------------|
| CBOD ₅ | 12 |
| TSS | 20 |
| Ammonia Nitrogen (as N) | |
| April - October | 2.5 |
| November - March | 4.0 |

670
671
672

(Source: Amended at 46 Ill. Reg. _____, effective _____)

Section 304.202 Chlor-alkali Mercury Discharges in St. Clair County

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The mercury discharge standards of 35 Ill. Adm. Code 304.124 and 307.1102 do not apply to any manufacturing facility that operates chlor-alkali cells, is located in St. Clair County and discharges directly or indirectly into the Mississippi River; or to any publicly owned treatment works that receives a manufacturing facility's wastewater. The amount of mercury discharged by any such manufacturing facility must not exceed an average of 114 g/day (0.25 pounds per day) during any calendar month and maximum of 227 g (0.5 pounds) during any one day. Any publicly owned treatment works that, directly or indirectly, receives such a manufacturing facility's wastewater is entitled to discharge mercury in excess of the levels provided in 35 Ill. Adm. Code 304.124 to the extent that the discharge exceeds those levels because of such a manufacturing facility's discharge.

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(Source: Amended at 46 Ill. Reg. _____, effective _____)

Section 304.203 Copper Discharges by Olin Corporation

688
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692

This Section applies to an existing facility owned by Olin Corporation which discharges to Wood River Creek and the East Fork of Wood River Creek in Madison County. The facility's discharges are not subject to 35 Ill. Adm. Code 304.105 as it applies to the water quality standard

693 for copper of 35 Ill. Adm. Code 302.208.

694

695 (Source: Amended at 46 Ill. Reg. _____, effective _____)

696

697 **Section 304.204 Schoenberger Creek: Groundwater Discharges**

698

699 a) This rule applies to discharges from an existing facility owned by Pfizer
700 Corporation to Schoenberger Creek immediately south of the Baltimore and Ohio
701 main tracks in T2N, R9W of the 3rd P.M., St. Clair County.

702

703 b) This rule applies only to discharges of groundwater used as non-contact cooling
704 water in which naturally occurring background concentrations have not been
705 increased by industrial or other human use.

706

707 c) Instead of the general effluent standards in 35 Ill. Adm. Code 304.124 for the
708 listed parameters, these discharges must not exceed the following limitations:

709

| CONSTITUENT | CONCENTRATION mg/L |
|------------------------|-----------------------|
| Iron (total) | 20 |
| Total Suspended Solids | 37 |

710

711 (Source: Amended at 46 Ill. Reg. _____, effective _____)

712

713 **Section 304.205 John Deere Foundry Discharges (Repealed)**

714

715 (Source: Repealed at 46 Ill. Reg. _____, effective _____)

716

717 **Section 304.206 Alton Water Company Treatment Plant Discharges**

718

719 This Section applies to the existing 18.3 million gallons per day potable drinking water treatment
720 plant owned by the Alton Water Company, which is located at, and discharges into, river mile
721 204.4 on the Mississippi River. These discharges are not subject to the effluent standards for
722 total suspended solids and total iron of 35 Ill. Adm. Code 304.124.

723

724 (Source: Amended at 46 Ill. Reg. _____, effective _____)

725

726 **Section 304.207 Galesburg Sanitary District Deoxygenating Wastes Discharges**

727

728 a) The deoxygenating wastes general effluent standards of 35 Ill. Adm. Code
729 304.120(c) do not apply to the Galesburg Sanitary District discharges into Cedar
730 Creek. These discharges must meet the deoxygenating wastes general effluent
731 standards set below:

732

| CONSTITUENT | CONCENTRATION (mg/L) |
|-------------------------------------|-------------------------|
| BOD ₅ April- November | 17 |
| December-March | 20 |
| Suspended Solids | |
| June-January | 15 |
| February-May | 25 |

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- b) The standards in subsection (a) apply if the Galesburg Sanitary District achieves:
 - 1) by November 1, 1984, compliance with 35 Ill. Adm. Code 302.206 throughout Cedar Creek downstream of the treatment plant outfall, by effluent aeration, in-stream aeration, or other means;
 - 2) by November 1, 1984, the prevention of overflows from the intercepting sewers prior to surcharging except where basement back-ups would result;
 - 3) by March 1, 1984, an operational procedure for the influent pumps which prevents interceptor surcharging at flows below hydraulic capacity;
 - 4) by March 1, 1984, the elimination of all downspout connections; and
 - 5) by November 1, 1984, the prevention of inflow by sealing all leaking catch basins, replacing all leaking manhole lids and frames, and sealing drainage inlets.
- c) If the conditions in subsection (b) are not met, the deoxygenating wastes general effluent standards of 35 Ill. Adm. Code 304.120(c) apply to the Galesburg Sanitary District discharges into Cedar Creek.

(Source: Amended at 46 Ill. Reg. _____, effective _____)

758

Section 304.208 City of Lockport Treatment Plant Discharges

759

760

761

762

763

764

765

- a) This Section applies only to discharges from the City of Lockport's sewage treatment plant into Deep Run Creek in Will County, Illinois.
- b) The provisions of 35 Ill. Adm. Code 304.120 do not apply to the discharges, if the discharges do not exceed 20 mg/L of five day biochemical oxygen demand (BOD₅) or 25 mg/L of total suspended solids.

766
767 c) The provisions of 35 Ill. Adm. Code 302.212(b) and 35 Ill. Adm. Code
768 302.212(e) do not apply to the discharges, if the discharges do not cause or
769 contribute to a violation of water quality standards in the Des Plaines River or the
770 Chicago Sanitary and Ship Canal.

771
772 (Source: Amended at 46 Ill. Reg. _____, effective _____)
773

774 **Section 304.209 Wood River Station Total Suspended Solids Discharges**
775

776 The limitation on the discharge of Total Suspended Solids contained in 35 Ill. Adm. Code
777 304.124(a) does not apply to the discharge from the ash pond system of CTI Development LLC's
778 Wood River Station, located in East Alton, Illinois. Instead, the concentration of Total
779 Suspended Solids must not exceed 30 mg/L as an average of daily values for 30 consecutive days
780 and must not exceed 50 mg/L as a maximum for any one day.

781
782 (Source: Amended at 46 Ill. Reg. _____, effective _____)
783

784 **Section 304.210 Alton Wastewater Treatment Plant Discharges**
785

786 The discharge from the City of Alton's sewage treatment works outfall 001 sewer located on
787 Wood River Creek, approximately 1,000 feet from its confluence with the Mississippi River, is
788 not subject to 35 Ill. Adm. Code 304.120(c). Instead, the discharge must not exceed the
789 following limitations: 20 milligrams per liter for five day biochemical oxygen demand (BOD₅)
790 and 25 milligrams per liter for total suspended solids. Compliance must be determined
791 consistent with 35 Ill. Adm. Code 304.120(e).

792
793 (Source: Amended at 46 Ill. Reg. _____, effective _____)
794

795 **Section 304.211 Discharges From Borden Chemicals and Plastics Operating Limited**
796 **Partnership Into an Unnamed Tributary of Long Point Slough (Repealed)**
797

798
799 (Source: Repealed at 46 Ill. Reg. _____, effective _____)
800

801 **Section 304.212 Sanitary District of Decatur Discharges**
802

803 a) This Section applies only to effluent discharges from the Sanitary District of
804 Decatur's Sewage Treatment Plant into the Sangamon River, Macon County,
805 Illinois.

806
807 b) The provisions of 35 Ill. Adm. Code 304.120(c) do not apply to the discharges, if
808 the discharges do not exceed 20 mg/L of five day biochemical oxygen demand
809 (BOD₅) and 25 mg/L of total suspended solids.
810

1st Notice

JCAR350304-2207213r01

811 (Source: Amended at 46 Ill. Reg. _____, effective _____)
812

Section 304.213 PDV Midwest Refining, L.L.C. Refinery Ammonia Discharge (Repealed)

814
815 (Source: Repealed at 46 Ill. Reg. _____, effective _____)
816

Section 304.214 Mobil Oil Refinery Ammonia Discharge (Repealed)

817
818
819
820 (Source: Repealed at 46 Ill. Reg. _____, effective _____)
821

Section 304.215 City of Tuscola Wastewater Treatment Facility Discharges

822
823
824 The requirements of 35 Ill. Adm. Code 304.123(c) do not apply to the discharges from the City
825 of Tuscola's wastewater treatment facility into Scattering Fork Creek, Douglas County, Illinois.
826

827 (Source: Amended at 46 Ill. Reg. _____, effective _____)
828

Section 304.216 Newton Station Suspended Solids Discharges

830
831 The limitation on the discharge of total suspended solids (TSS) in 35 Ill. Adm. Code 304.124(a)
832 does not apply to the discharge from the ash pond system of Illinois Power Generation
833 Company's Newton Station, located in Jasper County. Instead, Illinois Power Generation
834 Company's ash pond system discharge must not exceed 30 mg/L monthly average and 50 mg/L
835 daily composite for TSS, and 15 mg/L monthly average and 30 mg/L daily composite for non-
836 volatile TSS. The definitions of 35 Ill. Adm. Code 304.104(b) apply to these effluent limits.
837

838 (Source: Amended at 46 Ill. Reg. _____, effective _____)
839

Section 304.218 City of Pana Phosphorus Discharge

840
841
842 The general effluent standard for phosphorus as P in 35 Ill. Adm. Code 304.123 does not apply
843 to discharges from the City of Pana wastewater treatment plant. Instead these discharges must
844 comply with an effluent limitation of 2.8 mg/L phosphorus as P as measured at the point of
845 discharge.
846

847 (Source: Amended at 46 Ill. Reg. _____, effective _____)
848

Section 304.219 North Shore Water Reclamation District Phosphorus Discharges

850
851 a) This Section applies to discharges from the North Shore Water Reclamation
852 District excess flow discharge facilities at Waukegan and North Chicago into
853 Lake Michigan;
854

1st Notice

JCAR350304-2207213r01

- 855 b) The requirements of 35 Ill. Adm. Code 304.123(a) do not apply to the phosphorus
856 content of the North Shore Water Reclamation District excess flow discharges
857 from Waukegan and North Chicago into Lake Michigan. Instead, the following
858 requirements apply to North Shore Water Reclamation District discharges into
859 Lake Michigan:
860
- 861 1) The North Shore Water Reclamation District must not discharge effluent
862 into Lake Michigan from its Waukegan treatment plant until after that
863 plant has achieved its maximum treatment flow capacity and all the
864 Waukegan treatment plant excess flow retention reservoirs are full to
865 capacity;
866
- 867 2) The North Shore Water Reclamation District must not discharge effluent
868 into Lake Michigan from its North Chicago treatment plant until after that
869 plant has achieved its maximum treatment flow capacity, the North
870 Chicago treatment plant excess flow retention reservoirs are full to
871 capacity, the maximum rate of transfer of untreated effluent to Gurnee has
872 been achieved, the Gurnee treatment plant has achieved its maximum
873 treatment flow capacity, and the Gurnee treatment plant excess flow
874 retention reservoirs are full to capacity.
875
- 876 c) The North Shore Water Reclamation District must increase the maximum peak
877 treatment flow capacity of its Waukegan treatment plant to at least 44 million
878 gallons per day before January 1, 1992;
879
- 880 d) The North Shore Water Reclamation District must increase the maximum peak
881 treatment flow capacity of its Gurnee treatment plant to 39 million gallons per day
882 before January 1, 1989;
883
- 884 e) The North Shore Water Reclamation District must increase the excess flow
885 retention reservoir capacity at its Gurnee treatment plant to 50 million gallons
886 before January 1, 1991;
887
- 888 f) The North Shore Water Reclamation District must operate its Waukegan or North
889 Chicago treatment plant at its maximum treatment flow capacity during any
890 period in which less than 90 percent of the retention reservoir capacity is available
891 to receive excess flows at the relevant treatment plant, except when the
892 unavailability occurs during normal treatment plant and/or retention basin
893 maintenance; and
894
- 895 g) The North Shore Water Reclamation District must, as required under 35 Ill. Adm.
896 Code 309.141, immediately embark on a program to monitor excess flow and
897 water quality impact and must periodically submit the data from the monitoring to
898 the Illinois Environmental Protection Agency ("Agency").

1st Notice

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(Source: Amended at 46 Ill. Reg. _____, effective _____)

Section 304.220 East St. Louis Treatment Facility, Illinois-American Water Company (Repealed)

(Source: Repealed at 46 Ill. Reg. _____, effective _____)

Section 304.221 Ringwood Drive Manufacturing Facility in McHenry County

The general effluent standards for deoxygenating wastes in 35 Ill. Adm. Code 304.120 do not apply to discharges from the manufacturing facility located on Ringwood Drive in Ringwood, McHenry County, that discharges to an unnamed tributary of Dutch Creek. Instead these discharges must comply with the following effluent limitations as measured at the point of discharge after the third lagoon and before discharge to the unnamed tributary:

| | | |
|------------------|---------|----------------------------------|
| BOD ₅ | 25 mg/L | May to September monthly average |
| | 35 mg/L | May to September daily maximum |
| | 60 mg/L | October to April monthly average |
| | 70 mg/L | October to April daily maximum |
| TSS | 12 mg/L | monthly average |
| | 30 mg/L | daily maximum |

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917

(Source: Amended at 46 Ill. Reg. _____, effective _____)

Section 304.222 Intermittent Discharge of TRC

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927

The acute TRC water quality standard of 35 Ill. Adm. Code 302.208 and 302.504(a) by operation of 35 Ill. Adm. Code 304.105 does not apply to any discharge that contains TRC solely as the result of intermittent use for antifouling purposes related to the operation of condensers and cooling systems. For this Section using chlorine or related substances measurable as TRC will be deemed to be intermittent if use is restricted to a maximum of two hours per day per condenser or cooling system unit. Discharge concentration of TRC averaged or composited over the discharge period must not exceed 0.2 mg/L and the TRC concentration must not exceed 0.5 mg/L at any time.

928
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930

(Source: Amended at 46 Ill. Reg. _____, effective _____)

Section 304.224 Effluent Disinfection

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936

From March 1 through November 30, effluents discharged to the Primary Contact Recreation waters listed in 35 Ill. Adm. Code 303.220 must not exceed 400 fecal coliform colony forming units (CFU) per 100 ml if fewer than 10 samples are taken in a month. If 10 or more samples are taken in a month, fecal coliform must not exceed a 30-day geometric mean of 200 CFU per 100

1st Notice

JCAR350304-2207213r01

937 ml, and must not exceed 400 CFU per 100 ml in more than 10% of the samples during any 30
938 day period. All effluents in existence on or before February 3, 2012 must meet these standards
939 by March 1, 2016. All new discharges must meet these standards upon the initiation of
940 discharge.

941
942 (Source: Amended at 46 Ill. Reg. _____, effective _____)

943
944 **SUBPART C: TEMPORARY EFFLUENT STANDARDS**

945
946 **Section 304.302 City of Joliet East Side Wastewater Treatment Plant (Repealed)**

947
948 (Source: Repealed at 46 Ill. Reg. _____, effective _____)

949
950 **Section 304.303 Amerock Corporation, Rockford Facility (Repealed)**

951
952
953 (Source: Repealed at 46 Ill. Reg. _____, effective _____)

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1st Notice

JCAR350304-2207213r01

955 **Section 304.APPENDIX A Reference to Previous Rules (Repealed)**

957

958 (Source: Repealed at 46 Ill. Reg. _____, effective _____)



~~POLLUTION CONTROL BOARD~~

~~NOTICE OF PROPOSED AMENDMENTS~~

0 TITLE 35: ENVIRONMENTAL PROTECTION
 1 SUBTITLE C: WATER POLLUTION
 2 CHAPTER I: POLLUTION CONTROL BOARD
 3
 4 PART 304
 5 EFFLUENT STANDARDS
 6
 7 SUBPART A: GENERAL EFFLUENT STANDARDS
 8

9Section

- 10304.101 Preamble
- 11304.102 Dilution
- 12304.103 Background Concentrations
- 13304.104 Averaging
- 14304.105 Violation of Water Quality Standards
- 15304.106 Offensive Discharges
- 16304.120 Deoxygenating Wastes
- 17304.121 Bacteria
- 18304.122 Total Ammonia Nitrogen
- 19304.123 Phosphorus
- 20304.124 Additional Contaminants
- 21304.125 pH
- 22304.126 Mercury
- 23304.140 Delays in Upgrading (Repealed)
- 24304.141 NPDES Effluent Standards
- 25304.142 New Source Performance Standards (Repealed)

26
 27 SUBPART B: SITE SPECIFIC RULES AND
 28 EXCEPTIONS NOT OF GENERAL APPLICABILITY
 29

30Section

- 31304.201 Wastewater Treatment Plant Discharges of the Metropolitan Water Reclamation
 32 District of Greater Chicago
- 33304.202 Chlor-alkali Mercury Discharges in St. Clair County
- 34304.203 Copper Discharges by Olin Corporation
- 35304.204 Schoenberger Creek: Groundwater Discharges
- 36304.205 John Deere Foundry ~~Discharge~~Discharges (Repealed)
- 37304.206 Alton Water Company Treatment Plant Discharges

POLLUTION CONTROL BOARD

NOTICE OF PROPOSED AMENDMENTS

- 38304.207 Galesburg Sanitary District Deoxygenating Wastes Discharges
- 39304.208 City of Lockport Treatment Plant Discharges
- 40304.209 Wood River Station Total Suspended Solids Discharges
- 41304.210 Alton Wastewater Treatment Plant Discharges
- 42304.211 Discharges From Borden Chemicals and Plastics Operating Limited Partnership
- 43 Into an Unnamed Tributary of Long Point Slough (Repealed)
- 44304.212 Sanitary District of Decatur Discharges
- 45304.213 PDV Midwest Refining, L.L.C. Refinery Ammonia Discharge (Repealed)
- 46304.214 Mobil Oil Refinery Ammonia Discharge (Repealed)
- 47304.215 City of Tuscola Wastewater Treatment Facility Discharges
- 48304.216 Newton Station Suspended Solids Discharges
- 49304.218 City of Pana Phosphorus Discharge
- 50304.219 North Shore Water Reclamation District Phosphorus Discharges
- 51304.220 East St. Louis Treatment Facility, Illinois-American Water Company (Repealed)
- 52304.221 Ringwood Drive Manufacturing Facility in McHenry County
- 53304.222 Intermittent Discharge of TRC
- 54304.224 Effluent Disinfection

55

SUBPART C: TEMPORARY EFFLUENT STANDARDS

56

57

58Section

- 59304.301 Exception for Ammonia Nitrogen Water Quality Violations (Repealed)
- 60304.302 City of Joliet East Side Wastewater Treatment Plant (Repealed)
- 61304.303 Amerock Corporation, Rockford Facility (Repealed)

62

63304.APPENDIX A References to Previous Rules (Repealed)

64

65AUTHORITY: Implementing Section 13 and authorized by Section 27 of the Environmental
66Protection Act [415 ILCS 5/13 and 27].

67

68SOURCE: Filed with the Secretary of State January 1, 1978; amended at 2 Ill. Reg. 30, p. 343,
69effective July 27, 1978; amended at 2 Ill. Reg. 44, p. 151, effective November 2, 1978; amended
70at 3 Ill. Reg. 20, p. 95, effective May 17, 1979; amended at 3 Ill. Reg. 25, p. 190, effective June
7121, 1979; amended at 4 Ill. Reg. 20, p. 53, effective May 7, 1980; amended at 6 Ill. Reg. 563,
72effective December 24, 1981; codified at 6 Ill. Reg. 7818; amended at 6 Ill. Reg. 11161, effective
73September 7, 1982; amended at 6 Ill. Reg. 13750, effective October 26, 1982; amended at 7 Ill.
74Reg. 3020, effective March 4, 1983; amended at 7 Ill. Reg. 8111, effective June 23, 1983;
75amended at 7 Ill. Reg. 14515, effective October 14, 1983; amended at 7 Ill. Reg. 14910, effective

POLLUTION CONTROL BOARD

NOTICE OF PROPOSED AMENDMENTS

76November 14, 1983; amended at 8 Ill. Reg. 1600, effective January 18, 1984; amended at 8 Ill.
77Reg. 3687, effective March 14, 1984; amended at 8 Ill. Reg. 8237, effective June 8, 1984;
78amended at 9 Ill. Reg. 1379, effective January 21, 1985; amended at 9 Ill. Reg. 4510, effective
79March 22, 1985; peremptory amendment at 10 Ill. Reg. 456, effective December 23, 1985;
80amended at 11 Ill. Reg. 3117, effective January 28, 1987; amended in R84-13 at 11 Ill. Reg.
817291, effective April 3, 1987; amended in R86-17(A) at 11 Ill. Reg. 14748, effective August 24,
821987; amended in R84-16 at 12 Ill. Reg. 2445, effective January 15, 1988; amended in R83-23 at
8312 Ill. Reg. 8658, effective May 10, 1988; amended in R87-27 at 12 Ill. Reg. 9905, effective May
8427, 1988; amended in R82-7 at 12 Ill. Reg. 10712, effective June 9, 1988; amended in R85-29 at
8512 Ill. Reg. 12064, effective July 12, 1988; amended in R87-22 at 12 Ill. Reg. 13966, effective
86August 23, 1988; amended in R86-3 at 12 Ill. Reg. 20126, effective November 16, 1988;
87amended in R84-20 at 13 Ill. Reg. 851, effective January 9, 1989; amended in R85-11 at 13 Ill.
88Reg. 2060, effective February 6, 1989; amended in R88-1 at 13 Ill. Reg. 5976, effective April 18,
891989; amended in R86-17(B) at 13 Ill. Reg. 7754, effective May 4, 1989; amended in R88-22 at
9013 Ill. Reg. 8880, effective May 26, 1989; amended in R87-6 at 14 Ill. Reg. 6777, effective April
9124, 1990; amended in R87-36 at 14 Ill. Reg. 9437, effective May 31, 1990; amended in
92R88-21(B) at 14 Ill. Reg. 12538, effective July 18, 1990; amended in R84-44 at 14 Ill. Reg.
9320719, effective December 11, 1990; amended in R86-14 at 15 Ill. Reg. 241, effective December
9418, 1990; amended in R93-8 at 18 Ill. Reg. 267, effective December 23, 1993; amended in
95R87-33 at 18 Ill. Reg. 11574, effective July 7, 1994; amended in R95-14 at 20 Ill. Reg. 3528,
96effective February 8, 1996; amended in R94-1(B) at 21 Ill. Reg. 364, effective December 23,
971996; expedited correction in R94-1(B) at 21 Ill. Reg. 6269, effective December 23, 1996;
98amended in R97-25 at 22 Ill. Reg. 1351, effective December 24, 1997; amended in R97-28 at 22
99Ill. Reg. 3512, effective February 3, 1998; amended in R98-14 at 23 Ill. Reg. 687, effective
100December 31, 1998; amended in R02-19 at 26 Ill. Reg. 16948, effective November 8, 2002;
101amended in R02-11 at 27 Ill. Reg. 194, effective December 20, 2002; amended in R04-26 at 30
102Ill. Reg. 2365, effective February 2, 2006; amended in R08-9B at 36 Ill. Reg. 2586, effective
103February 2, 2012; amended in R13-20 at 38 Ill. Reg. 6107, effective February 26, 2014; amended
104in R18-23 at 46 Ill. Reg. _____, effective _____.

105

106

SUBPART A: GENERAL EFFLUENT STANDARDS

107

108**Section 304.101 Preamble**

109

110This **part** establishes the maximum concentrations of various contaminants that may be
111discharged to the waters of the State. Subpart A contains general effluent limitations. Subpart B
112contains site specific rules and exceptions not of general applicability. Subpart C contains
113temporary rules.

~~POLLUTION CONTROL BOARD~~

~~NOTICE OF PROPOSED AMENDMENTS~~

114

115

116 (Source: Amended at 46 Ill. Reg. _____, effective _____)

117

118 **Section 304.102 Dilution**

119

120 a) Diluting the effluent from a treatment works or from any wastewater source is not
121 acceptable as a method of treatment of wastes to meet the standards in 35 Ill.
122 Adm. Code 304. It is the obligation of any person discharging contaminants of
123 any kind to the waters of the state to provide the best degree of treatment of
124 wastewater consistent with technological feasibility, economic reasonableness
125 and sound engineering judgment. In determining what kind of treatment is the
126 "best degree of treatment" within the meaning of this subsection, any person must
127 consider the following:

128

129 1) What degree of waste reduction can be achieved by process change,
130 improved housekeeping and recovery of individual waste components for
131 reuse; and

132

133 2) Whether individual process wastewater streams should be segregated or
134 combined.

135

136 b) In any case, measurement of contaminant concentrations to determine compliance
137 with the effluent standards must be made at the point immediately following the
138 final treatment process and before mixture with other waters, unless another point
139 is designated by the Agency in an individual permit, after consideration of the
140 elements contained in this ~~section~~ Section. If necessary the concentrations
141 measured must be recomputed to exclude the effect of any dilution that is
142 improper under this Section.

143

144 (Source: Amended at 46 Ill. Reg. _____, effective _____)

145

146 **Section 304.103 Background Concentrations**

147

148 Because the effluent standards in 35 Ill. Adm. Code 304 are based upon concentrations
149 achievable with conventional treatment technology which is largely unaffected by ordinary levels
150 of contaminants in intake water, they are absolute standards that must be met without subtracting
151 background concentrations. However, these regulations do not intend to require users to clean

~~POLLUTION CONTROL BOARD~~

~~NOTICE OF PROPOSED AMENDMENTS~~

152up contamination caused essentially by upstream sources or to require treatment when only
153traces of contaminants are added to the background. Compliance with the numerical effluent
154standards is not required when effluent concentrations in excess of the standards result entirely
155from influent contamination, evaporation, and/or the incidental addition of traces of materials not
156utilized or produced in the activity that is the source of the waste.

157

158 (Source: Amended at 46 Ill. Reg. _____, effective _____)

159

160**Section 304.104 Averaging**

161

162 a) Except as otherwise specifically provided, proof of violation of the numerical
163 standards of 35 Ill. Adm. Code 304 must be on the basis of one or more of the
164 following averaging rules:

165

166 1) A monthly average must not exceed the prescribed numerical standard.

167

168 2) A daily composite must not exceed two times the prescribed numerical
169 standard.

170

171 3) A grab sample must not exceed five times the prescribed numerical
172 standard.

173

174 b) Terms used in subsection (a) have the following meanings:

175

176 1) The monthly average is the numerical average of all daily composites
177 taken during a calendar month. A monthly average must be based on at
178 least three daily composites.

179

180 2) A daily composite is the numerical average of all grab samples, or the
181 result of analysis of a single sample formed by combining all aliquots,
182 taken during a calendar day. A daily composite must be based on at least
183 three grab samples or three aliquots taken at different times.

184

185 3) A grab sample is a sample taken at a single time. Aliquots of a daily
186 composite are grab samples only if they are analyzed separately.

187

188 c) Subsection (a) establishes a method of interpretation of the effluent standards of
189 35 Ill. Adm. Code 304. The Agency must consider the averaging rule in deciding

POLLUTION CONTROL BOARD

NOTICE OF PROPOSED AMENDMENTS

190 whether an applicant has demonstrated that a facility complies with 35 Ill. Adm.
191 Code 304 for purposes of permit issuance and in writing the effluent standards
192 into permit conditions. Reporting and monitoring requirements are established by
193 permit condition under 35 Ill. Adm. Code 305.102 and 309.146.
194

- 195 d) Proof of violation of effluent limitations contained in permits must be based on
196 the language of the permit.

197
198 (Source: Amended at 46 Ill. Reg. _____, effective _____)
199

200 Section 304.105 Violation of Water Quality Standards

201
202 In addition to the other requirements of 35 Ill. Adm. Code, effluent must not, alone or in
203 combination with other sources, cause a violation of any applicable water quality standard.
204 When the Agency finds that a discharge which would comply with effluent standards in 35 Ill.
205 Adm. Code 304 would cause or is causing a violation of water quality standards, the Agency
206 must take appropriate action under Section 31 or Section 39 of the Act to require the discharge
207 to meet whatever effluent limits are necessary to ensure compliance with the water quality
208 standards. When such a violation is caused by the cumulative effect of more than one source,
209 several sources may be joined in an enforcement or variance proceeding, and measures for
210 necessary effluent reductions will be determined on the basis of technical feasibility, economic
211 reasonableness and fairness to all dischargers.

212
213 (Source: Amended at 46 Ill. Reg. _____, effective _____)
214

215 Section 304.106 Offensive Discharges

216
217 In addition to the other requirements of 35 Ill. Adm. Code, effluent must not contain settleable
218 solids, floating debris, visible oil, grease, scum or sludge solids. Color, odor and turbidity must
219 be reduced to below obvious levels.

220
221 (Source: Amended at 46 Ill. Reg. _____, effective _____)
222

223 Section 304.120 Deoxygenating Wastes

224
225 Except as provided in 35 Ill. Adm. Code 306.Subpart C, all effluents containing deoxygenating
226 wastes must meet the following standards:

227

~~POLLUTION CONTROL BOARD~~

~~NOTICE OF PROPOSED AMENDMENTS~~

- 228 a) Effluents must not exceed 30 mg/L of five day biochemical oxygen demand
229 (BOD₅) or 30 mg/L of suspended solids, except that treatment works employing
230 three stage lagoon treatment systems which are properly designed, maintained and
231 operated, and whose effluent has a dilution ratio no less than five to one or who
232 qualify for exceptions under subsection (c) must not exceed 37 mg/L of
233 suspended solids.
234
- 235 b) Effluents from any source whose untreated waste load is 10,000 population
236 equivalents or more, or from any source discharging into the Chicago River
237 System or into the Calumet River System, must not exceed 20 mg/L of BOD₅ or
238 25 mg/L of suspended solids.
239
- 240 c) Effluents whose dilution ratio is less than five to one must not exceed 10 mg/L of
241 BOD₅ or 12 mg/L of suspended solids, except that sources employing third-stage
242 treatment lagoons are be exempt from this subsection (c) provided all of the
243 following conditions are met:
244
- 245 1) The waste source qualifies under one of the following categories:
246
- 247 A) Any wastewater treatment works with an untreated waste load less
248 than 2500 population equivalents, which is sufficiently isolated
249 that combining with other sources to aggregate 2500 population
250 equivalents or more is not practicable.
251
- 252 B) Any wastewater treatment works in existence and employing
253 third-stage treatment lagoons on January 1, 1986, whose untreated
254 waste load is 5000 population equivalents or less and sufficiently
255 isolated that combining to aggregate 5000 population equivalents
256 or more is not practicable.
257
- 258 C) Any wastewater treatment works with an untreated waste load of 5000
259 population equivalents or less, which has reached the end of its useful life
260 by January 1, 1987, and is sufficiently isolated that combining to
261 aggregate 5000 population equivalents or more is not practicable.
262
- 263 D) Any wastewater treatment works with an untreated waste load of 5000
264 population equivalents or less which has reached the end of its useful life
265 and which has received an adjusted standard determination from the Board

~~POLLUTION CONTROL BOARD~~

~~NOTICE OF PROPOSED AMENDMENTS~~

266 that it qualifies for a lagoon exemption. Such a Board determination will
267 only be made in an adjusted standard proceeding, held in compliance with
268 Section 28.1 of the Environmental Protection Act [415 ILCS 5/28.1] and
269 applicable procedures at 35 Ill. Adm. Code 104.
270

271 i) In an adjusted standard proceeding the Board may determine that
272 the petitioning wastewater treatment source qualifies for a lagoon
273 exemption if the wastewater treatment works proves that it is so
274 situated that a land treatment system is not a suitable treatment
275 alternative. Factors relevant to a suitability finding may include
276 the following: cost; influent character; geographic characteristics;
277 climate; soil conditions; hydrologic conditions; and the availability
278 of irrigable land.
279

280 ii) For the purposes of subsection (c)(1)(D) , a land treatment system
281 is a wastewater treatment system which does not directly discharge
282 treated effluent to waters of the State but instead uses the treated
283 effluent to irrigate terrestrial vegetation;
284

285 2) The lagoons are properly constructed, maintained and operated; and
286

287 3) The deoxygenating constituents of the effluent do not, alone or in
288 combination with other sources, cause a violation of the applicable
289 dissolved oxygen water quality standard.
290

291 d) Effluents discharged to the Lake Michigan basin must not exceed 4 mg/L of
292 BOD₅ or 5 mg/L of suspended solids.
293

294 e) Compliance with the numerical standards in this Section must be determined on
295 the basis of the type and frequency of sampling prescribed by the NPDES permit
296 for the discharge at the time of monitoring.
297

298 f) For the purposes of this Section, useful life is the period of time during which it is
299 cost effective to operate and maintain a particular wastewater treatment works
300 under consideration. At a minimum, the following factors relating to a
301 wastewater treatment works must be considered in ~~determining its~~determining its
302 useful life:
303

~~POLLUTION CONTROL BOARD~~

~~NOTICE OF PROPOSED AMENDMENTS~~

- 304 1) Structural and operational condition of components;
- 305
- 306 2) Past operations and maintenance record;
- 307
- 308 3) Cost for continued use; and
- 309
- 310 4) Description and costs of treatment alternatives.
- 311

312 ~~g)~~g) Compliance with the 5 day biochemical oxygen demand (BOD₅) numerical standard
313 in this Part will be determined by the analysis of 5 day carbonaceous biochemical
314 oxygen demand (CBOD₅) , unless federal regulations require treatment works
315 treating industrial wastes to comply with more stringent requirements determined
316 by the analysis of BOD₅. Effluent from the treatment works subject to the
317 requirements of Section 304.120(a) must not exceed 25 mg/L CBOD₅.

318
319 (Source: Amended at 46 Ill. Reg. _____, effective _____)

320
321 **Section 304.121 Bacteria**

- 322
- 323 a) Effluents discharged to all general use waters must not exceed 400 fecal coliforms
- 324 per 100 ml unless the Illinois Environmental Protection Agency determines that
- 325 an alternative effluent standard is applicable under subsection (b).
- 326
- 327 b) The Agency must, as part of the NPDES Permit Program under 35 Ill. Adm.
- 328 Code 309.Subpart A, determine the applicable standard only in compliance with
- 329 the requirements of 35 Ill. Adm. Code 302.209 and 302.306.
- 330
- 331 1) The discharger must demonstrate and document the following:
- 332
- 333 A) The character of the receiving waters under 35 Ill. Adm. Code
- 334 302.202, 302.209, and 302.306.
- 335
- 336 B) The discharge will not cause downstream waters to exceed the
- 337 applicable fecal coliform water quality standards under 35 Ill.
- 338 Adm. Code 302.209 and 302.306.
- 339
- 340 2) Alternate effluent standards consistent with 35 Ill. Adm. Code 302.209
- 341 and 302.306 must be applied on either a year-round or seasonal basis

POLLUTION CONTROL BOARD

NOTICE OF PROPOSED AMENDMENTS

342 consistent with the documentation provided by the discharger.

343

344 (Source: Amended at 46 Ill. Reg. _____, effective _____)

345

346 **Section 304.122 Total Ammonia Nitrogen**

347

348

349 a) Effluent from any source which discharges to the Illinois River, the Des Plaines
350 River downstream of its confluence with the Chicago River System or the
351 Calumet River System, and whose untreated waste load is 50,000 or more
352 population equivalents must not contain more than 2.5 mg/L of total ammonia
353 nitrogen as N during the months of April through October, or 4 mg/L at other
354 times.

355

356 b) Sources discharging to any of the above waters and whose untreated waste load
357 cannot be computed on a population equivalent basis comparable to that used for
358 municipal waste treatment plants and whose total ammonia nitrogen as N
359 discharge exceeds 45.4 kg/day (100 pounds per day) must not discharge an
360 effluent of more than 3.0 mg/L of total ammonia nitrogen as N.

361

362 c) In addition to the effluent standards in subsections (a) and (b) , all sources are
363 subject to 35 Ill. Adm. Code 304.105 .

364

365 (Source: Amended at 46 Ill. Reg. _____, effective _____)

366

367 **Section 304.123 Phosphorus**

368 a) Effluents discharged within the Lake Michigan Basin must not contain more than
369 1.0 mg/L of phosphorus as P.

370

371 b) Effluents from any source which discharges to a lake or reservoir with a surface
372 area of 8.1 hectares (20 acres) or more, or to any tributary of such a lake or
373 reservoir whose untreated waste load is 2500 or more population equivalents, and
374 which does not utilize a third-stage lagoon treatment system as specified in 35 Ill.
375 Adm. Code 304.120(a) and (c), must not exceed 1.0 mg/L of phosphorus as P;
376 however, this subsection does not apply where the lake or reservoir, including
377 any side channel reservoir or other portion of it, on an annual basis exhibits a
378 mean hydraulic retention time of 0.05 years (18 days) or less.

379

POLLUTION CONTROL BOARD

NOTICE OF PROPOSED AMENDMENTS

- 380 c) Under Section 28.1 of the Environmental Protection Act (Act) [415 ILCS 5/28.1],
381 the owner or operator of any source subject to subsection (b) may apply for an
382 adjusted standard. In addition to the proofs specified in Section 28.1(c) of the Act
383 [415 ILCS 5/28.1(c)], the application must , at a minimum, contain adequate
384 proof that the effluent resulting from granting the adjusted standard will not
385 contribute to cultural eutrophication, unnatural plant or algal growth or dissolved
386 oxygen deficiencies in the receiving lake or reservoir. For purposes of this
387 subsection , effluent must_ be deemed to contribute to such conditions if
388 phosphorus is the limiting nutrient for biological growth in the lake or reservoir,
389 taking into account the lake or reservoir limnology, morphological, physical and
390 chemical characteristics, and sediment transport. However, if the effluent
391 discharge enters a tributary at least 40.25 kilometers (25 miles) upstream of the
392 point at which the tributary enters the lake or reservoir at normal pool level,
393 effluent will not be deemed to contribute to such conditions if the receiving lake
394 or reservoir is eutrophic and phosphorus from internal regeneration is not a
395 limiting nutrient.
396
- 397 d) For the purposes of this Section the term "lake or reservoir" does not include low
398 level pools constructed in free flowing streams or any body of water which is an
399 integral part of an operation which includes the application of sludge on land.
400
- 401 e) Compliance with the limitations of subsection (b) must_ be achieved by the
402 following dates:
403
- 404 1) Sources with the present capability to comply must do so on the effective
405 date of this Section;
406
- 407 2) All other sources must comply as required by NPDES permit.
408
- 409 f) For purposes of this Section, the following terms have the meanings specified:
410
- 411 1) "Dissolved oxygen deficiencies" means the occurrence of a violation of
412 the dissolved oxygen standard applicable to a lake or reservoir.
413
- 414 (BOARD NOTE: Dissolved Oxygen standards for general use waters are
415 at 35 Ill. Adm. Code 302.206; Dissolved Oxygen standards are at 35 Ill.
416 Adm. Code 302.405 for:
417

~~POLLUTION CONTROL BOARD~~

~~NOTICE OF PROPOSED AMENDMENTS~~

418 302.405(a): South Fork of the South Branch of the Chicago River
419 (Bubbly Creek);
420 302.405(b): Upper Dresden Island Pool Aquatic Life Use waters;
421 302.405(c): Chicago Area Waterway System Aquatic Life Use A
422 waters; and
423 302.405(d): Chicago Area Waterway System and Brandon Pool
424 Aquatic Life Use B ~~Waters~~waters.)
425

- 426 2) "Euphotic zone" means that region of a lake or reservoir extending from
427 the water surface to a depth at which 99% of the surface light has
428 disappeared or such lesser depth below which photosynthesis does not
429 occur.
- 430 3) "Eutrophic" means a condition of a lake or reservoir in which there is an
431 abundant supply of nutrients, including phosphorus, accounting for a high
432 concentration of biomass.
433
434
- 435 4) "Eutrophication" means the process of increasing or accumulating plant
436 nutrients in the water of a lake or reservoir. Cultural eutrophication is
437 eutrophication attributable to human activities.
438
- 439 5) "Internal regeneration" means the process of conversion of phosphorus or
440 other nutrients in sediments of a lake or reservoir from the particulate to
441 the dissolved form and the subsequent return of such dissolved forms to
442 the euphotic zone.
443
- 444 6) "Limiting nutrient" means a substance which is limiting to biological
445 growth in a lake or reservoir due to its short supply or unavailability with
446 respect to other substances necessary for the growth of organisms.
447
- 448 7) "Unnatural plant or algal growth" means the occurrence of a violation of
449 the unnatural sludge standard applicable to a lake or reservoir with respect
450 to such growth.

451
452 (BOARD NOTE: Unnatural sludge standards for general use waters are
453 at 35 Ill. Adm. Code 302.203; unnatural sludge standards for the Chicago
454 Area Waterway System and Lower Des Plaines River waters are at 35 Ill.
455 Adm. Code 302.403.)

~~POLLUTION CONTROL BOARD~~

~~NOTICE OF PROPOSED AMENDMENTS~~

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- g) Except as provided in subsection (h) , any new or expanded discharges into General Use waters from the following treatment works not covered by subsections (b) through (f) , are subject to monthly average permit limits for total phosphorus of 1 mg/~~4~~l:
 - 1) Treatment works with a Design Average Flow of 1.0 million gallons per day or more receiving primarily municipal or domestic wastewater; or
 - 2) Any treatment works, other than those treating primarily municipal or domestic wastewater, with a total phosphorus effluent load of 25 pounds per day or more.
 - 3) For purposes of this subsection:
 - A) A new discharge means a discharge from a treatment works constructed after February 2, 2006.
 - B) An expanded discharge means a discharge from any existing treatment works that would be greater than the flowrates permitted prior to February 2, 2006.
- h) Discharges qualifying under subsections (g)(1) and (g)(2) may not be subject to the requirements of subsection (g) if the discharger demonstrates that phosphorus from treatment works is not the limiting nutrient in the receiving water. The Agency may impose alternative phosphorus effluent limits where the supporting information shows that alternative limits are warranted by the aquatic environment in the receiving stream.
- i) No additional phosphorus limitations are required under 35 Ill. Adm. Code 304.105 and 35 Ill. Adm. Code 302.203 for the discharges that comply with the requirements of subsection (g) or (h) .
- j) The provisions of subsections (g), (h), and (i) apply until the Board adopts a numeric water quality standard for phosphorus and the adopted standard is approved by the USEPA.

POLLUTION CONTROL BOARD

NOTICE OF PROPOSED AMENDMENTS

494
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499

k) The averaging rules under 35 Ill. Adm. Code 304.104 (a)(2) and (a)(3) do not apply to permit limits established under subsection (g) or (h).

(Source: Amended at 46 Ill. Reg. _____, effective _____)

500Section 304.124 Additional Contaminants

501
502
503
504
505

a) A person must not cause or allow the concentration of the following constituents in any effluent to exceed the following levels, subject to the averaging rules in 35 Ill. Adm. Code 304.104(a).

| CONSTITUENT | CONCENTRATION mg/L |
|---|-----------------------|
| Arsenic | 0.25 |
| Barium | 2.0 |
| Cadmium | 0.15 |
| Chromium (hexavalent) | 0.1 |
| Chromium (total) | 1.0 |
| Copper | 0.5 |
| Cyanide | 0.10 |
| Fluoride | 15.0 |
| Iron (total) | 2.0 |
| Lead | 0.2 |
| Manganese | 1.0 |
| Nickel | 1.0 |
| Oils (hexane soluble or equivalent) | 15.0 |
| Phenols | 0.3 |
| Silver | 0.1 |
| Zinc | 1.0 |
| Total Suspended Solids (From sources other than those covered by Section 304.120) | 15.0 |

506
507
508

b) Discharges of hexavalent chromium are subject to the averaging rule of 35 Ill. Adm. Code 304.104 modified as follows: monthly averages must not exceed 0.1

~~POLLUTION CONTROL BOARD~~

~~NOTICE OF PROPOSED AMENDMENTS~~

509 mg/L; daily composites must not exceed 0.3 mg/L; and, grab samples must not
510 exceed 1.0 mg/L.

511
512 c) Oil may be analytically separated into polar and nonpolar components. If
513 separated, neither of the components may exceed 15 mg/L (i.e. 15 mg/L polar
514 materials and 15 mg/L nonpolar materials).

515
516 d) Unless otherwise indicated, concentrations refer to the total amount of the
517 constituent present in all phases, whether solid, suspended or dissolved, elemental
518 or combined, including all oxidation states. Where constituents are commonly
519 measured as other than total, the word "total" is inserted for clarity.

520
521 e) The following table is provided for cross referencing purposes:

522

| CONSTITUENT | SECTION(S) |
|--------------------------------------|-----------------------------|
| Ammonia nitrogen | 304.301, 304.122 |
| Bacteria | 304.121 |
| Biochemical Oxygen Demand | 304.120 |
| Deoxygenating Wastes | 304.120 |
| Mercury | 304.126 |
| Nitrogen, ammonia | 304.301, 304.122 |
| pH | 304.125 |
| Phosphorus | 304.123 |

533

| CONSTITUENT | SECTION(S) |
|----------------------------------|-------------------------|
| <u>Ammonia nitrogen</u> | <u>304.301, 304.122</u> |
| <u>Bacteria</u> | <u>304.121</u> |
| <u>Biochemical Oxygen Demand</u> | <u>304.120</u> |
| <u>Deoxygenating Wastes</u> | <u>304.120</u> |
| <u>Mercury</u> | <u>304.126</u> |
| <u>Nitrogen, ammonia</u> | <u>304.301, 304.122</u> |
| <u>pH</u> | <u>304.125</u> |
| <u>Phosphorus</u> | <u>304.123</u> |

534

535 (Source: Amended at 46 Ill. Reg. _____, effective _____)

536

~~POLLUTION CONTROL BOARD~~

~~NOTICE OF PROPOSED AMENDMENTS~~

572 **Section 304.126 Mercury**

573

574

- a) Except as provided below, a person must not cause or allow the concentration of mercury in any effluent to exceed the following level, subject to the averaging rule contained in 35 Ill. Adm. Code 304.104(a).

575

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578

| | |
|------------------------|--------------------------------------|
| CONSTITUENT | CONCENTRATION <u>mg/L</u> |
|------------------------|--------------------------------------|

579

580

| | |
|--------------------|-------------------|
| Mercury | 0.0005 |
|--------------------|-------------------|

581

| <u>CONSTITUENT</u> | <u>CONCENTRATION mg/L</u> |
|--------------------|---------------------------|
| <u>Mercury</u> | <u>0.0005</u> |

582

583

- b) It is an exception to subsection (a) if all of the following conditions are met:

584

585

- 1) The discharger does not use mercury; or, the discharger uses mercury and this use cannot be eliminated; or, the discharger uses mercury only in chemical analysis or in laboratory or other equipment and takes reasonable care to avoid contamination of wastewater;

586

587

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590

- 2) The effluent mercury concentration is less than 0.003 mg/L, as determined by application of the averaging rules of 35 Ill. Adm. Code 304.104(a);

591

592

593

- 3) The discharger is providing the best degree of treatment consistent with technological feasibility, economic reasonableness and sound engineering judgment. This may include no treatment for mercury; and

594

595

596

597

- 4) The discharger has an inspection and maintenance program likely to reduce or prevent an increase in the level of mercury discharges.

598

599

600

- c) It is an exception to subsection (a) if all of the following conditions are met:

601

602

- 1) The discharger is a publicly owned or publicly regulated sewage treatment works;

603

604

605

- 2) The discharger does not use mercury; or, the discharger uses mercury only in chemical analysis or in laboratory or other equipment and takes

606

~~POLLUTION CONTROL BOARD~~

~~NOTICE OF PROPOSED AMENDMENTS~~

- 607 reasonable care to avoid contamination of wastewater;
608
609 3) The effluent mercury concentration is less than 0.003 mg/L, as determined
610 by application of the averaging rules of 35 Ill. Adm. Code 304.104(a);
611 provided, however, that daily averages may exceed 0.006 mg/L 30% of the
612 time;
613
614 4) The discharger has enforceable ordinances or contract provisions whereby
615 it limits use of mercury by dischargers and discharge of mercury into its
616 sewage system;
617
618 5) The discharger's limitations on use and discharge of mercury to its sewage
619 system are at least as stringent as those provided in 35 Ill. Adm. Code
620 307.103;
621
622 6) The discharger has a surveillance program with a reasonable likelihood of
623 determining sources of mercury discharged to the sewage system;
624
625 7) The discharger takes all lawful steps to eliminate known mercury
626 discharges to the sewage system which contribute levels in excess of those
627 allowed by 35 Ill. Adm. Code 307.103; and
628
629 8) The discharger reports all known violations of 35 Ill. Adm. Code 307.103
630 to the Agency.

- 631
632 d) When it issues a permit, the Agency may consider applying the exceptions of this
633 ~~section~~Section to determine compliance with this ~~section~~Section. The Agency
634 may impose permit conditions necessary or required to assure continued
635 application of an exception. When subsection (b) applies, the Agency may
636 impose an effluent limitation in the permit which allows discharge of a
637 concentration of mercury greater than 0.0005 mg/L but not more than 0.003 mg/L.
638

639 (Source: Amended at 46 Ill. Reg. _____, effective _____)
640

641 **Section 304.141 NPDES Effluent Standards**

- 642
643 a) A person that has been issued an NPDES Permit must not discharge any
644 contaminant in its effluent in excess of the standards and limitations for that

POLLUTION CONTROL BOARD

NOTICE OF PROPOSED AMENDMENTS

645 contaminant in its permit.

646

647

- b) A person must not discharge any pollutant subject to, or that contributes or threatens to cause a violation of, any applicable federal or state water quality standard, effluent standard, guideline or other limitation, promulgated under the CWA or the Act, unless limitation for a pollutant is in an applicable NPDES Permit. However, the Agency may, by permit condition, provide that the permittee may discharge pollutants present in its water supply intake sources in concentrations not greater than the concentrations in the intake sources, or which are added in trace amounts by normal domestic water usage.

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BOARD NOTE: Section 304.141(b) was declared invalid in Peabody Coal Co. v. PCB, 3 Ill. App. 3d 5 (5th District, 1976) and declared valid in U.S. Steel v. PCB, 52 Ill. App. 3d 1 (2d District, 1977).

656

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660

- c) The standards of this Chapter apply to thermal discharges unless, after public notice and opportunity for public hearing, in compliance with section 316 of the CWA, applicable federal regulations, and procedures in 35 Ill. Adm. Code 106.Subpart K, the Board has determined that different standards apply to a particular thermal discharge.

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(Source: Amended at 46 Ill. Reg. _____, effective _____)

666

667

SUBPART B: SITE SPECIFIC RULES AND EXCEPTIONS NOT OF GENERAL APPLICABILITY

668

669

670

Section 304.201 Wastewater Treatment Plant Discharges of The Metropolitan Water Reclamation District of Greater Chicago

673

674

- a) Calumet Treatment Plant Discharges:
The effluent standards of 35 Ill. Adm. Code 304.124 as applied to cyanide discharges, 35 Ill. Adm. Code 304.120(b) and (c), and 35 Ill. Adm. Code 304.122 do not apply to carbonaceous BOD₅ (CBOD₅), total suspended solids (TSS), cyanide, and ammonia-nitrogen as N discharged from the Calumet Sewage Treatment Works of The Metropolitan Water Reclamation District of Greater Chicago. Instead, it must meet the following effluent standards, subject to the averaging rule of 35 Ill. Adm. Code 304.104(a), effective July 1, 1988:

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POLLUTION CONTROL BOARD

NOTICE OF PROPOSED AMENDMENTS

| | | |
|-----|-----------------------------|---------------------------------|
| 683 | CONSTITUENT | CONCENTRATION (mg/L) |
| 684 | | |
| 685 | CBOD₅ | 24 |
| 686 | TSS | 28 |
| 687 | Ammonia Nitrogen | 13 |
| 688 | (as N) | |
| 689 | Cyanide | 0.15 |
| 690 | | |

| <u>CONSTITUENT</u> | <u>CONCENTRATION</u> <u>mg/L</u> |
|--|-------------------------------------|
| <u>CBOD₅</u> | <u>24</u> |
| <u>TSS</u> | <u>28</u> |
| <u>Ammonia Nitrogen</u> <u>(as N)</u> | <u>13</u> |
| <u>Cyanide</u> | <u>0.15</u> |

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- b) North Side Sewage Treatment Works:
The effluent standards of 35 Ill. Adm. Code 304.120(b) and (c) and 35 Ill. Adm. Code 304.122 do not apply to carbonaceous BOD₅ (CBOD₅), total suspended solids (TSS), and ammonia-nitrogen discharged from the North Side Sewage Treatment Works of The Metropolitan Water Reclamation District of Greater Chicago. Instead, it must meet the following standard, subject to the averaging rule of 35 Ill. Adm. Code 304.104(a) effective July 1, 1988:

| | |
|-----------------------------|---------------------------------|
| CONSTITUENT | CONCENTRATION (mg/L) |
| CBOD₅ | 12 |
| TSS | 20 |
| Ammonia Nitrogen | |
| (as N) | |
| April-October | 2.5 |
| November-March | 4.0 |

| <u>CONSTITUENT</u> | <u>CONCENTRATION</u> <u>mg/L</u> |
|-------------------------|-------------------------------------|
| <u>CBOD₅</u> | <u>12</u> |

POLLUTION CONTROL BOARD

NOTICE OF PROPOSED AMENDMENTS

| | |
|------------------------------------|------------|
| <u>TSS</u> | <u>20</u> |
| <u>Ammonia Nitrogen (as N)</u> | |
| <u>April - October</u> | <u>2.5</u> |
| <u>November - March</u> | <u>4.0</u> |

709

710 (Source: Amended at 46 Ill. Reg. _____, effective _____)

711

712 Section 304.202 Chlor-alkali Mercury Discharges in St. Clair County

713

714 The mercury discharge standards of 35 Ill. Adm. Code 304.124 and 307.1102 do not apply to
715 any manufacturing facility that operates chlor-alkali cells, is located in St. Clair County and
716 discharges directly or indirectly into the Mississippi River; or to any publicly owned treatment
717 works that receives a manufacturing facility's wastewater. The amount of mercury discharged
718 by any such manufacturing facility must not exceed an average of 114 g/day (0.25 pounds per
719 day) during any calendar month and maximum of 227 g (0.5 pounds) during any one day. Any
720 publicly owned treatment works that, directly or indirectly, receives such a manufacturing
721 facility's wastewater is entitled to discharge mercury in excess of the levels provided in 35 Ill.
722 Adm. Code 304.124 to the extent that the discharge exceeds those levels because of such a
723 manufacturing facility's discharge.

724

725 (Source: Amended at 46 Ill. Reg. _____, effective _____)

726

727 Section 304.203 Copper Discharges by Olin Corporation

728

729 This ~~section~~Section applies to an existing facility owned by Olin Corporation which discharges
730 to Wood River Creek and the East Fork of Wood River Creek in Madison County. The facility's
731 discharges are not subject to 35 Ill. Adm. Code 304.105 as it applies to the water quality
732 standard for copper of 35 Ill. Adm. Code 302.208.

733

734 (Source: Amended at 46 Ill. Reg. _____, effective _____)

735

736 Section 304.204 Schoenberger Creek: Groundwater Discharges

737

738 a) This rule applies to discharges from an existing facility owned by Pfizer
739 Corporation to Schoenberger Creek immediately south of the Baltimore and Ohio
740 main tracks in T2N, R9W of the 3rd P.M., St. Clair County.

741

POLLUTION CONTROL BOARD

NOTICE OF PROPOSED AMENDMENTS

742 b) This rule applies only to discharges of groundwater used as non-contact cooling
743 water in which naturally occurring background concentrations have not been
744 increased by industrial or other human use.

745
746 c) Instead of the general effluent standards in 35 Ill. Adm. Code 304.124 for the
747 listed parameters, these discharges must not exceed the following limitations:

| <u>CONSTITUENT</u> | <u>CONCENTRATION</u> |
|-------------------------------|----------------------|
| | <u>(mg/L)</u> |
| <u>Iron (total)</u> | <u>20</u> |
| <u>Total Suspended Solids</u> | <u>37</u> |

| <u>CONSTITUENT</u> | <u>CONCENTRATION</u> |
|-------------------------------|----------------------|
| | <u>mg/L</u> |
| <u>Iron (total)</u> | <u>20</u> |
| <u>Total Suspended Solids</u> | <u>37</u> |

756
757 (Source: Amended at 46 Ill. Reg. _____, effective _____)
758

759 **Section 304.205 John Deere Foundry Discharges (Repealed)**

760
761
762 (Source: Repealed at 46 Ill. Reg. _____, effective _____)
763

764 **Section 304.206 Alton Water Company Treatment Plant Discharges**

765
766 This Section applies to the existing 18.3 million gallons per day potable drinking water treatment
767 plant owned by the Alton Water Company, which is located at, and discharges into, river mile
768 204.4 on the Mississippi River. These discharges are not subject to the effluent standards for
769 total suspended solids and total iron of 35 Ill. Adm. Code 304.124.

770
771 (Source: Amended at 46 Ill. Reg. _____, effective _____)
772

773 **Section 304.207 Galesburg Sanitary District Deoxygenating Wastes Discharges**

774

~~POLLUTION CONTROL BOARD~~

~~NOTICE OF PROPOSED AMENDMENTS~~

775 a) The deoxygenating wastes general effluent standards of 35 Ill. Adm. Code
776 304.120(c) do not apply to the Galesburg Sanitary District discharges into Cedar
777 Creek. These discharges must meet the deoxygenating wastes general effluent
778 standards set below:

| CONSTITUENT (mg/L) | CONCENTRATION |
|---|--------------------------|
| BOD₅ April-November | 17 |
| December-March | 20 |
| Suspended Solids | |
| June-January | 15 |
| February-May | 25 |

| <u>CONSTITUENT</u> | <u>CONCENTRATION</u> <u>(mg/L)</u> |
|-------------------------|---------------------------------------|
| <u>BOD₅</u> | <u>17</u> |
| <u>April-November</u> | |
| <u>December-March</u> | <u>20</u> |
| <u>Suspended Solids</u> | |
| <u>June-January</u> | <u>15</u> |
| <u>February-May</u> | <u>25</u> |

790 b) The standards in subsection (a) apply if the Galesburg Sanitary District achieves:

791

792

793 1) by November 1, 1984, compliance with 35 Ill. Adm. Code 302.206

794 throughout Cedar Creek downstream of the treatment plant outfall, by

795 effluent aeration, in-stream aeration, or other means;

796

797 2) by November 1, 1984, the prevention of overflows from the intercepting

798 sewers prior to surcharging except where basement back-ups would result;

799

800 3) by March 1, 1984, an operational procedure for the influent pumps which

801 prevents interceptor surcharging at flows below hydraulic capacity;

802

~~POLLUTION CONTROL BOARD~~

~~NOTICE OF PROPOSED AMENDMENTS~~

- 803 4) by March 1, 1984, the elimination of all downspout connections; and
804
805 5) by November 1, 1984, the prevention of inflow by sealing all leaking catch
806 basins, replacing all leaking manhole lids and frames, and sealing drainage
807 inlets.
808
809 c) If the conditions in subsection (b) are not met, the deoxygenating wastes general
810 effluent standards of 35 Ill. Adm. Code 304.120(c) apply to the Galesburg
811 Sanitary District discharges into Cedar Creek.
812

813 (Source: Amended at 46 Ill. Reg. _____, effective _____)
814

815 **Section 304.208 City of Lockport Treatment Plant Discharges**

- 816
817 a) This Section applies only to discharges from the City of Lockport's sewage
818 treatment plant into Deep Run Creek in Will County, Illinois.
819
820 b) The provisions of 35 Ill. Adm. Code 304.120 do not apply to the discharges, if
821 the discharges do not exceed 20 mg/L of five day biochemical oxygen demand
822 (BOD₅) or 25 mg/L of total suspended solids .
823
824 c) The provisions of 35 Ill. Adm. Code 302.212(b) and 35 Ill. Adm. Code 302.212(e)
825 do not apply to the discharges, if the discharges do not cause or contribute to a
826 violation of water quality standards in the Des Plaines River or the Chicago
827 Sanitary and Ship Canal.
828

829 (Source: Amended at 46 Ill. Reg. _____, effective _____)
830

831 **Section 304.209 Wood River Station Total Suspended Solids Discharges**

832
833 The limitation on the discharge of Total Suspended Solids contained in 35 Ill. Adm. Code
834 304.124(a) does not apply to the discharge from the ash pond system of CTI Development
835 LLC's Wood River Station, located in East Alton, Illinois. Instead, the concentration of Total
836 Suspended Solids must not exceed 30 mg/L as an average of daily values for 30 consecutive
837 days and must not exceed 50 mg/L as a maximum for any one day.
838

839 (Source: Amended at 46 Ill. Reg. _____, effective _____)
840

~~POLLUTION CONTROL BOARD~~

~~NOTICE OF PROPOSED AMENDMENTS~~

841 **Section 304.210 Alton Wastewater Treatment Plant Discharges**

842

843 The discharge from the City of Alton's sewage treatment works outfall 001 sewer located on
844 Wood River Creek, approximately 1,000 feet from its confluence with the Mississippi River, is
845 not subject to 35 Ill. Adm. Code 304.120(c). Instead, the discharge must not exceed the
846 following limitations: 20 milligrams per liter for five day biochemical oxygen demand (BOD₅)
847 and 25 milligrams per liter for total suspended solids . Compliance must be determined
848 consistent with 35 Ill. Adm. Code 304.120(e).

849

850 (Source: Amended at 46 Ill. Reg. _____, effective _____)

851

852 **Section 304.211 Discharges From Borden Chemicals and Plastics Operating Limited**
853 **Partnership Into an Unnamed Tributary of Long Point Slough (Repealed)**

854



855

856 (Source: Repealed at 46 Ill. Reg. _____, effective _____)

857

858 **Section 304.212 Sanitary District of Decatur Discharges**

859

860 a) This Section applies only to effluent discharges from the Sanitary District of
861 Decatur's Sewage Treatment Plant into the Sangamon River, Macon County,
862 Illinois.

863

864 b) The provisions of 35 Ill. Adm. Code 304.120(c) do not apply to the discharges, if
865 the discharges do not exceed 20 mg/L of five day biochemical oxygen demand
866 (BOD₅) and 25 mg/L of total suspended solids .

867

868 (Source: Amended at 46 Ill. Reg. _____, effective _____)

869

870 **Section 304.213 PDV Midwest Refining, L.L.C. Refinery Ammonia Discharge (Repealed)**

871

872 (Source: Repealed at 46 Ill. Reg. _____, effective _____)

873

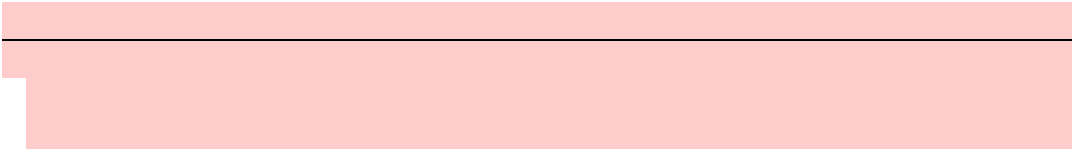
874 **Section 304.214 Mobil Oil Refinery Ammonia Discharge (Repealed)**

875

~~POLLUTION CONTROL BOARD~~

~~NOTICE OF PROPOSED AMENDMENTS~~

876



877

878

879 (Source: Repealed at 46 Ill. Reg. _____, effective _____)

880

881 Section 304.215 City of Tuscola Wastewater Treatment Facility Discharges

882

883 The requirements of 35 Ill. Adm. Code 304.123(c) do not apply to the discharges from the City
884 of Tuscola's wastewater treatment facility into Scattering Fork Creek, Douglas County, Illinois.

885

886 (Source: Amended at 46 Ill. Reg. _____, effective _____)

887

888 Section 304.216 Newton Station Suspended Solids Discharges

889

890 The limitation on the discharge of total suspended solids (TSS) in 35 Ill. Adm. Code 304.124(a)
891 does not apply to the discharge from the ash pond system of Illinois Power Generation
892 Company's Newton Station, located in Jasper County. Instead, Illinois Power Generation
893 Company's ash pond system discharge must not exceed 30 mg/L monthly average and 50 mg/L
894 daily composite for TSS, and 15 mg/L monthly average and 30 mg/L daily composite for
895 non-volatile TSS. The definitions of 35 Ill. Adm. Code 304.104(b) apply to these effluent limits.

896

897 (Source: Amended at 46 Ill. Reg. _____, effective _____)

898

899 Section 304.218 City of Pana Phosphorus Discharge

900

901 The general effluent standard for phosphorus as P in 35 Ill. Adm. Code 304.123 does not apply
902 to discharges from the City of Pana wastewater treatment plant. Instead these discharges must
903 comply with an effluent limitation of 2.8 mg/L phosphorus as P as measured at the point of
904 discharge.

905

906 (Source: Amended at 46 Ill. Reg. _____, effective _____)

907

908 Section 304.219 North Shore Water Reclamation District Phosphorus Discharges

909

~~POLLUTION CONTROL BOARD~~

~~NOTICE OF PROPOSED AMENDMENTS~~

- 910 a) This Section applies to discharges from the North Shore Water Reclamation
911 District excess flow discharge facilities at Waukegan and North Chicago into
912 Lake Michigan;
913
- 914 b) The requirements of 35 Ill. Adm. Code 304.123(a) do not apply to the
915 phosphorus content of the North Shore Water Reclamation District excess flow
916 discharges from Waukegan and North Chicago into Lake Michigan. Instead, the
917 following requirements apply to North Shore Water Reclamation District
918 discharges into Lake Michigan:
919
- 920 1) The North Shore Water Reclamation District must not discharge effluent
921 into Lake Michigan from its Waukegan treatment plant until after that
922 plant has achieved its maximum treatment flow capacity and all the
923 Waukegan treatment plant excess flow retention reservoirs are full to
924 capacity;
925
- 926 2) The North Shore Water Reclamation District must not discharge effluent
927 into Lake Michigan from its North Chicago treatment plant until after that
928 plant has achieved its maximum treatment flow capacity, the North
929 Chicago treatment plant excess flow retention reservoirs are full to
930 capacity, the maximum rate of transfer of untreated effluent to Gurnee has
931 been achieved, the Gurnee treatment plant has achieved its maximum
932 treatment flow capacity, and the Gurnee treatment plant excess flow
933 retention reservoirs are full to capacity.
934
- 935 c) The North Shore Water Reclamation District must increase the maximum peak
936 treatment flow capacity of its Waukegan treatment plant to at least 44 million
937 gallons per day before January 1, 1992;
938
- 939 d) The North Shore Water Reclamation District must increase the maximum peak
940 treatment flow capacity of its Gurnee treatment plant to 39 million gallons per day
941 before January 1, 1989;
942
- 943 e) The North Shore Water Reclamation District must increase the excess flow
944 retention reservoir capacity at its Gurnee treatment plant to 50 million gallons
945 before January 1, 1991;
946
- 947 f) The North Shore Water Reclamation District must operate its Waukegan or

POLLUTION CONTROL BOARD

NOTICE OF PROPOSED AMENDMENTS

948 North Chicago treatment plant at its maximum treatment flow capacity during any
949 period in which less than 90 percent of the retention reservoir capacity is available
950 to receive excess flows at the relevant treatment plant, except when the
951 unavailability occurs during normal treatment plant and/or retention basin
952 maintenance; and

953
954 g) The North Shore Water Reclamation District must, as required under 35 Ill.
955 Adm. Code 309.141, immediately embark on a program to monitor excess flow
956 and water quality impact and must periodically submit the data from the
957 monitoring to the Illinois Environmental Protection Agency ("Agency").
958

959 (Source: Amended at 46 Ill. Reg. _____, effective _____)
960

961 **Section 304.220 East St. Louis Treatment Facility, Illinois-American Water Company**
962 **(Repealed)**

963
964 (Source: Repealed at 46 Ill. Reg. _____, effective _____)
965

966 **Section 304.221 Ringwood Drive Manufacturing Facility in McHenry County**

967
968 The general effluent standards for deoxygenating wastes in 35 Ill. Adm. Code 304.120 do not
969 apply to discharges from the manufacturing facility located on Ringwood Drive in Ringwood,
970 McHenry County, that discharges to an unnamed tributary of Dutch Creek. Instead these
971 discharges must comply with the following effluent limitations as measured at the point of
972 discharge after the third lagoon and before discharge to the unnamed tributary:

973
974
975 ~~BOD₅ — 25 mg/L — May to September monthly average~~
976 ~~35 mg/L — May to September daily maximum~~
977 ~~60 mg/L — October to April monthly average~~
978 ~~70 mg/L — October to April daily maximum~~
979 ~~TSS — 12 mg/L — monthly average~~
980 ~~30 mg/L — daily maximum~~
981

| | | |
|------------------------|----------------|---|
| <u>BOD₅</u> | <u>25 mg/L</u> | <u>May to September monthly average</u> |
| | <u>35 mg/L</u> | <u>May to September daily maximum</u> |
| | <u>60 mg/L</u> | <u>October to April monthly average</u> |
| | <u>70 mg/L</u> | <u>October to April daily maximum</u> |

POLLUTION CONTROL BOARD

NOTICE OF PROPOSED AMENDMENTS

| | | |
|------------|----------------------------------|--|
| <u>TSS</u> | <u>12 mg/L</u> <u>30 mg/L</u> | <u>monthly average</u> <u>daily maximum</u> |
|------------|----------------------------------|--|

982

983 (Source: Amended at 46 Ill. Reg. _____, effective _____)

984

985 Section 304.222 Intermittent Discharge of TRC

986

987 The acute TRC water quality standard of 35 Ill. Adm. Code 302.208 and 302.504(a) by operation
988 of 35 Ill. Adm. Code 304.105 does not apply to any discharge that contains TRC solely as the
989 result of intermittent use for antifouling purposes related to the operation of condensers and
990 cooling systems. For this Section using chlorine or related substances measurable as TRC will
991 be deemed to be intermittent if use is restricted to a maximum of two hours per day per
992 condenser or cooling system unit. Discharge concentration of TRC averaged or composited over
993 the discharge period must not exceed 0.2 mg/L and the TRC concentration must not exceed 0.5
994 mg/L at any time.

995

996 (Source: Amended at 46 Ill. Reg. _____, effective _____)

997

998 Section 304.224 Effluent Disinfection

999

1000 From March 1 through November 30, effluents discharged to the Primary Contact Recreation
1001 waters listed in 35 Ill. Adm. Code 303.220 must not exceed 400 fecal coliform colony forming
1002 units (CFU) per 100 ml if fewer than 10 samples are taken in a month. If 10 or more samples are
1003 taken in a month, fecal coliform must not exceed a 30-day geometric mean of 200 CFU per 100
1004 ml, and must not exceed 400 CFU per 100 ml in more than 10% of the samples during any 30
1005 day period. All effluents in existence on or before February 3, 2012 must meet these standards
1006 by March 1, 2016. All new discharges must meet these standards upon the initiation of
1007 discharge.

1008

1009 (Source: Amended at 46 Ill. Reg. _____, effective _____)

1010

SUBPART C: TEMPORARY EFFLUENT STANDARDS

1011

1013 Section 304.302 City of Joliet East Side Wastewater Treatment Plant (Repealed)

1014

1015 (Source: Repealed at 46 Ill. Reg. _____, effective _____)

1016

1017 Section 304.303 Amerock Corporation, Rockford Facility (Repealed)

~~POLLUTION CONTROL BOARD~~

~~NOTICE OF PROPOSED AMENDMENTS~~

1018
1019



1020
1021
1022

(Source: Repealed at 46 Ill. Reg. _____, effective _____)

~~POLLUTION CONTROL BOARD~~

~~NOTICE OF PROPOSED AMENDMENTS~~

1024 Section 304. ~~Appendix~~ APPENDIX A Reference to Previous Rules (Repealed)

1025



1026

1027

1029

(Source: Repealed at 46 Ill. Reg. _____, effective _____)

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