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**Constructed Wetlands Bibliography, Part VI:
Industrial Waste.**

This file, "Constructed Wetlands Bibliography Part VI: Industrial Waste" is one section of a seven-part constructed wetlands bibliography on using constructed wetlands for wastewater treatment. The bibliography was compiled by United States Department of Agriculture staff from the Ecological Sciences Division of the Natural Resources Conservation Service, formerly the Soil Conservation Service, and the Water Quality Information Center at the National Agricultural Library. The complete bibliography can be accessed as either a single large (450K) file containing more than 600 citations or in parts organized by topic.

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IW
CATEGORY IW
SUBCATEGOR

TITLE Artificial marsh treats industrial wastewater.
AUTHOR Gillette, B.
SOURCE BioCycle, February, 1989.
PUBLISHER
PAGES
DATE 1989
CALLNUM 57.8 C734
ANNOTATION

CATEGORY IW

SUBCATEGOR

TITLE Considerations for wetland treatment of spent geothermal fluids.
AUTHOR Kaczynski, V.W.
SOURCE Ecological Considerations in Wetlands Treatment of Municipal Wastewaters.
PUBLISHER New York: Van Nostrand Reinhold, Co.
PAGES pp. 48-65
DATE 1985
CALLNUM QH 545 549 E3
ANNOTATION

CATEGORY IW
SUBCATEGOR

TITLE Natural processes for treatment of organic chemical waste.
AUTHOR Wolverton, B.C.
SOURCE The Environmental Professional, Vol. 3.
PUBLISHER
PAGES
DATE 1981
CALLNUM
ANNOTATION

CATEGORY IW
SUBCATEGOR

TITLE Treatability assessment of industrial wastes by a portable wetland unit.
AUTHOR Davies, T.H., J.T. Watson and D.B. Jenkins.
SOURCE Constructed Wetlands for Water pollution Control.
PUBLISHER Oxford: Pergamon Press
PAGES pp. 403-410
DATE 1990
CALLNUM TD 756. 5 I57
ANNOTATION

CATEGORY IW
SUBCATEGOR aquaculture

TITLE Utilization and treatment of thermal discharges by establishment of a wetlands plant nursery.
AUTHOR Ailstock, M.S.
SOURCE Constructed Wetlands for Wastewater Treatment: Municipal, Industrial and Agricultural.
PUBLISHER Chelsea, MI: Lewis Publishing, Inc.
PAGES pp. 719-726

DATE 1989
CALLNUM TD 756. 5 C66
ANNOTATION As part of a water discharging permit, Nevamar Corporation study methods to improve holding pond thermal efficiency. These improvements were compatible with and would be optimized with a wetlands plants nursery. Thermal treatment pond/aquatic nursery design, efficiency of modifications for improving wastewater treatment, nursery productivity during the first year, and a summary of potential applications are presented in this paper.

CATEGORY IW
SUBCATEGOR auto manufacturing

TITLE Reuse of an industrial wastewater at Saturn.
AUTHOR Barnett, M., et al.
SOURCE Environmental Engineering Proc 91 Spec Conf Environ Eng.
PUBLISHER New York: ASCE
PAGES
DATE 1991.
CALLNUM
ANNOTATION

CATEGORY IW
SUBCATEGOR clam processing water

TITLE Feasibility and modeling of the use of New Jersey salt marshes to treat clam processing wastewater.
AUTHOR Guida, V.G. and I.J. Kugelman.
SOURCE Final Report to the National Marine Fisheries Service
PUBLISHER (1988).
PAGES
DATE
CALLNUM
ANNOTATION

CATEGORY IW
SUBCATEGOR clam processing water--effluent polishing

TITLE Experiments in wastewater polishing in constructed tidal marshes: does it work? Are the results predictable?
AUTHOR Guida, V.G. and I.J. Kugelman.
SOURCE Constructed Wetlands for Wastewater Treatment: Municipal, Industrial and Agricultural.
PUBLISHER Chelsea, MI: Lewis Publishing, Inc.
PAGES pp. 727- 734
DATE 1989
CALLNUM TD 756. 5 C66
ANNOTATION Natural tidal salt marshes may have limited use in wastewater

treatment applications. Three environmental factors were addressed using experimental results: (1) does tidal flooding frequency prevent effective treatment, (2) marshes demonstrate either net import or export of organic material and nutrients to surrounding water, (3) is the outcome of effluent polishing readily predictable.

CATEGORY IW
SUBCATEGOR landfill leachate

TITLE Natural renovation of leachate-degraded groundwater in excavated ponds at a refuse landfill.
AUTHOR Dornbush, J.N.
SOURCE Constructed Wetlands for Wastewater Treatment: Municipal, Industrial and Agricultural.
PUBLISHER Chelsea, MI: Lewis Publishing, Inc.
PAGES pp. 743-752.
DATE 1989
CALLNUM TD 756. 5 C66

ANNOTATION The trench and wetland ponds at Brookings Landfill have remediated the effect of excessive contaminant concentrations in the "downstream" groundwater. It is hoped that other landfill (active or closed) might benefit by the use of man-made wetlands in the form of trenches and ponds to protect against, or possibly correct excessive groundwater degradation.

CATEGORY IW
SUBCATEGOR landfill leachate

TITLE Potential use of constructed wetlands to treat landfill leachate.
AUTHOR Staubitz, W.W., et al.
SOURCE Constructed Wetlands for Wastewater Treatment: Municipal, Industrial and Agricultural.
PUBLISHER Chelsea, MI: Lewis Publishing, Inc.
PAGES pp. 735-742
DATE 1989
CALLNUM TD 756. 5 C66

ANNOTATION Infiltration of precipitation and migration of water through municipal solid waste landfills produce leachate that contain undesirable or toxic chemicals. This study was designed to investigate the fate and transport of landfill leachate in a constructed wetland and provide engineering design data for construction and operation of full-size leachate treatment systems.

CATEGORY IW
SUBCATEGOR landfill leachate

TITLE Potential use of constructed wetlands to treat landfill leachate.
AUTHOR Surface, J.M., et al.
SOURCE USGS second national symposium on water quality; abstracts of the technical sessions, Orlando, FL, Nov. 12-17, 1989.
PUBLISHER
PAGES pp. 98-99
DATE 1989
CALLNUM
ANNOTATION

CATEGORY IW
SUBCATEGOR landfill leachate

TITLE Use of artificial wetlands for treatment of municipal solid waste landfill leachate.
AUTHOR Trautmann, N.M., J.H. Martin, K.S. Porter and K.C. Hawk.
SOURCE Constructed Wetlands for Wastewater Treatment: Municipal, Industrial and Agricultural
PUBLISHER Chelsea, MI: Lewis Publishers, Inc.
PAGES pp. 245-251
DATE 1989
CALLNUM TD 756. 5 C66
ANNOTATION Leachate treatment at municipal wastewater treatment facilities is one option for meeting water quality; however, this can be expensive and energy intensive. One possible method to reduce cost and energy requirements is to treat the leachate on-site using artificially constructed wetlands. This paper presents a proposed study to evaluate the feasibility of this approach at a municipal sanitary landfill.

CATEGORY IW
SUBCATEGOR leachate

TITLE Application of natural and engineered wetlands for treatment of low-strength leachate.
AUTHOR Birkbeck, A.E., D. Reil and R. Hunter.
SOURCE Constructed Wetlands for Water Pollution Control.
PUBLISHER Pergamon Press, Inc.
PAGES pp. 411-418
DATE 1990
CALLNUM TD 756. 5 I57
ANNOTATION Six experimental marsh systems were constructed to examine the feasibility of using the marsh (root zone) treatment method to treat landfill leachate. The effluent quality needed for discharge into the environment was not achieved in the test marsh systems. The marsh must be made several times longer to obtain the desired effluent quality.

CATEGORY IW
SUBCATEGOR oil refining

TITLE Constructed wetlands for wastewater treatment at Amoco oil company's Mandan, North Dakota refinery.

AUTHOR Litchfield, D.K. and D.D. Schatz

SOURCE Constructed Wetlands for Wastewater Treatment: Municipal, Industrial and Agricultural.

PUBLISHER Chelsea, MI: Lewis Publishing, Inc.

PAGES pp. 233-237

DATE 1989

CALLNUM TD 756.5 C66

ANNOTATION To comply with new environmental standards, Amoco decided to expand the Mandan, North Dakota refinery's existing biooxidation systems. Secondary wastewater is discharged into a six hectare lagoon for initial secondary treatment. It is pumped to a high point for distribution among several routes through a series of cascading ponds and ditches before discharge.

CATEGORY IW
SUBCATEGOR paper mills

TITLE Utilization of artificial marshes for treatment of pulp mill effluents.

AUTHOR Thut, R.N.

SOURCE Constructed Wetlands for Wastewater Treatment: Municipal, Industrial and Agricultural

PUBLISHER Chelsea, MI: Lewis Publishers, Inc.

PAGES pp. 239-244

DATE 1989

CALLNUM TD 756 .5 C66

ANNOTATION Two studies, 24-hour static test and a 96-hr flow-through test, were conducted with secondary effluent from a bleached kraft mill in a pilot scale anaerobic-filter reed treatments system. The system was effective in removing nitrogen, phosphorus, total organic carbon, and color. These encouraging results led to a more rigorous, long-term study which is the subject of this paper.

CATEGORY IW
SUBCATEGOR paper mills

TITLE Water quality improvement of pulp and paper mill effluents by aquatic plants.

AUTHOR Allender, B.M.

SOURCE Appita 37:303-306 (1984)

PUBLISHER
PAGES
DATE
CALLNUM 302.8 AU7
ANNOTATION

CATEGORY IW
SUBCATEGOR pollutant removal, TOC

TITLE Capacity of a swamp forest to assimilate the TOC loading
from a sugar refinery wastewater stream.
AUTHOR Gambrell, R.P., R.A. Khalid and W.H. Patrick, Jr.
SOURCE Journal of the Water Pollution Control Federation, Vol. 59,
No. 10.

PUBLISHER
PAGES pp. 897-904
DATE 1987. October
CALLNUM 293.8 SE8
ANNOTATION A Louisiana sugar refinery has been discharging soluble organic
carbon into a swamp which is a tributary for the Blind River and
Lake Maurepas. Governmental agencies have expressed concerned
about the affects from the effluent on the river and lake's
biochemical oxygen demand; however, the refinery contends that
the swamp serves as an effective wastewater treatment system.
This paper present the results of an investigation that measures
the effluent affects on these water bodies.

CATEGORY IW
SUBCATEGOR pollutant removal--metals

TITLE Potential use of constructed wetlands for treatment of
industrial wastewaters containing metals.
AUTHOR Dunbabin, J.S. and K.H. Bowmer.
SOURCE Science of the Total Environment. III(2-3):151-69 (15 Jan
1992).

PUBLISHER
PAGES
DATE 1992
CALLNUM
ANNOTATION

CATEGORY IW
SUBCATEGOR sugar mill

TITLE Artificial wetlands for the treatment of mill effluent.
AUTHOR Schmann, G.T.
SOURCE Sugar Journal:54:10, pp 26-30, 1992
PUBLISHER

PAGES pp 26-30
DATE 1992
CALLNUM 65.9 S083
ANNOTATION

NOTE: THE FOLLOWING CITATIONS ARE AN UPDATE AS OF OCTOBER 24, 1995, TO THE ORIGINAL DOCUMENT AND THEREFORE ARE IN A DIFFERENT FORMAT.

1 NAL Call No.: LU 378.76-L930-1992-batu
Evaluation of a diked natural wetland for the treatment of sugar mill effluent.
Batubara, D. S. 1. 1992. viii, 204 leaves : ill. (some col.), maps.
Vita.

Descriptors: constructed wetlands; factory and trade waste-environmental aspects; sugarcane industry-environmental aspects

2 NAL Call No.: TD420.A1P7
Microbial ecology of constructed wetlands used for treating pulp mill wastewater.
Hatano, K.; Frederick, D. J.; Moore, J. A.
Water science and technology: a journal of the International Association on Water Pollution Research and Control v.29, p.233-239. (1994).
In the series analytic: Wetlands systems in water pollution control / edited by H.J. Bavor and D.S. Mitchell. Australia.

Descriptors: pulp mill effluent; waste water treatment; biological treatment; wetlands; typha latifolia; scirpus acutus; microbial degradation; bacteria; fungi; actinomycetales; oregon; artificialwetlands

3 NAL Call No.: 302.8-T162
Operating experience with constructed wetlands for wastewater treatment.
Knight, R. L.
Tappi Journal v.75, p.109-112. (1993).
Includes references.

Descriptors: wetlands; waste water treatment; water quality; pulp and paper industry; pulp mill effluent

4 NAL Call No.: TD420.A1P7
The use of constructed wetlands for treating industrial effluent (textiles dyes).
Davies, T. H.; Cottingham, P. D.
Water science and technology: a journal of the International Association on Water Pollution Research and Control v.29, p.227-232. (1994).
In the series analytic: Wetlands systems in water pollution control / edited by H.J. Bavor and D.S. Mitchell. Australia.

Descriptors: factory effluents; textile industry; dyes; waste water treatment; biological treatment; wetlands; phragmites; phragmites australis; microbial degradation; artificial wetlands

5 NAL Call No.: 290.9-Am32P
Variability in treatment by constructed wetlands.

Kuehn, E.; Moore, J. A.
Paper American Society of Agricultural Engineers St. Joseph, Mich. :
American Society of Agricultural Engineers, . Winter 1993. (932578) 19 p.
Paper presented at the "1993 International Winter Meeting of the American
Society of Agricultural Engineers," December 14-17, 1993, Chicago,
Illinois.

Descriptors: wetlands; waste treatment; pulp mill effluent

6 NAL Call No.: TD420.A1P7
Wetland treatment of pulp mill wastewater.
Moore, J. A.; Skarda, S. M.; Sherwood, R.
Water science and technology: a journal of the International Association on
Water Pollution Research and Control v.29, p.233-239. (1994). v.29,
p.241-247. (1994).
In the series analytic: Wetlands systems in water pollution control /
edited by H.J. Bavor and D.S. Mitchell. Australia.

Descriptors: pulp mill effluent; waste water treatment; biological
treatment; aquatic plants; ponds; biochemical oxygen demand; color;
removal; oregon; constructed wetlands; artificial wetlands

7 NAL Call No.: 57.8-C734
Constructed wetlands for industrial wastewater.
Gillette, B.
Biocycle v.35, p.80, 82-83. (1994).

Descriptors: waste water; waste water treatment; wetlands; kentucky

8 NAL Call No.: Z5853.S22S38--1993
Sewage and industrial waste treatment, wetlands : (Oct 87 - present) :
citations from the Selected Water Resources Abstracts database. Citations
from the Selected Water Resources Abstracts database.
United States. National Technical Information Service. [Springfield, Va.] :
U.S. Dept. of Commerce, National Technical Information Service, [1993] 1 v.
(unpaged).
"Dec 93"--P. [v].

Descriptors: Sewage Purification Bibliography; Sewage disposal in the
ground-Bibliography; Land treatment of wastewater-Bibliography; Constructed
wetlands-Bibliography

9 NAL Call No.: TD420.A1P7
Phosphorus removal in constructed wetlands using gravel and industrial
waste substrata.
Mann, R. A.; Bavor, H. J.
Water science and technology: a journal of the International Association on
Water Pollution Research and Control v.27, p.107-113. (1993).
In the series analytic: Appropriate waste management technologies / edited
by G. Ho and K. Mathew. Proceedings of the International Conference, held
November 27-28, 1991, Perth, Australia.

Descriptors: sewage effluent; waste treatment; wetlands; phosphorus; new
south wales

10 NAL Call No.: KyU Thesis-1992-Mitchell

Biochemical treatment of metal-chloride-enriched wastewater by simulated constructed wetlands by Linda Kay Mitchell.
Mitchell, L. K. 1. 1992. ix, 129 leaves : ill..
Includes vita and abstract.

Descriptors: Wetlands; Water reuse; Water Purification

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