

GROUNDWATER: A BIBLIOGRAPHY

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January 1985

Ground Water in Minnesota: A User's Guide to Understanding Minnesota's Ground Water Resource. Minnesota : Minnesota Pollution Control Agency : Minnesota State Planning Agency, 1984. Minn. Doc. GB1025. M6 G767.

Ground Water Protection Strategy Framework for Minnesota. St. Paul, Minnesota : Staff of the Minnesota Pollution Control Agency, Solid and Hazardous Waste Division, Program Development Section, 1983. Minn. Doc. TD224.M6 G76.

Groundwater Contamination. Washington, D.C. : National Academy Press, 1984. TD223 .G75 1984.

Groundwater Protection Standards for Hazardous Waste Land Disposal Facilities: Will They Prevent More Superfund Sites? Washington, D.C. : Industry, Technology, and Employment Program, Office of Technology Assessment, United States Congress, 1984. TD811.5 .G76.

Legislation Relating to Groundwater Management. Madison : Wisconsin Legislative Council, 1983. TD224.W6 L43.

Patronsky, Mark C. The New Law Relating to Groundwater Management: 1983 Wisconsin Act 410. Madison : Wisconsin Legislative Council, 1984. JK6074 .I53 no. 84-11.

Pye, Veronica I. Groundwater Contamination in the United States. Philadelphia: University of Pennsylvania Press, 1983. TD223 .P93 1983.

Steeler, Jonathan H. Groundwater Management and Protection: A Midwestern States' Policy Agenda. Denver, Colorado : National Conference of State Legislatures, 1983. GB1017 .S73.

Van der Leeden, Frits. Geragthy & Miller's Groundwater Bibliography. Syosset, New York : Water Information Center, c1983. Z7935 .L4 1983.

DIALOG File 47: MAGAZINE INDEX - 1959-MAR 1970, 1973-84/DEC (COPR. IAC) FMT 9 = \$7.00

1798948 DATABASE: MI File 47
Groundwater strategy outlined by EPA.
 American City and County v99 p14(1) Oct 1984
 CODEN: ACCOD
 SIC CODE: 9511
 DESCRIPTORS: water, underground-contamination; United States. Environmental Protection Agency-standards; drinking water-contamination

1793907 DATABASE: MI File 47
A bumper crop yields growing problems; groundwater pollution in Wisconsin.

McWilliams, Lindsey
 Environment 26 p25(10) May 1984
 CODEN: ENVTA
 illustration; photograph; map; table
 GEOGRAPHIC LOCATION: Wisconsin
 GEOGRAPHIC CODE: NNUSCWI
 CAPTIONS: The Central Sands.; Growth of irrigation in Wisconsin: 1940-1978.; Wisconsin fertilizer consumption: 1954-1978.

DESCRIPTORS: water, underground-pollution; Wisconsin-pollution; fertilizers and manures-environmental aspects; aldicarb (insecticide)-environmental aspects; nitrogen-environmental aspects

1770696 DATABASE: MI File 47
Contaminated groundwater linked with disease.

Tangley, Laura
 Bioscience v34 p292(1) May 1984
 CODEN: BISNA
 GEOGRAPHIC CODE: NNUSNMA
 DESCRIPTORS: Woburn, Massachusetts-water supply; Massachusetts-pollution; water, underground-toxicology

1769930 DATABASE: MI File 47
The balance sheet. (water supply and water pollution)

Tufty, Barbara
 American Forests v90 p30(4) Aug 1984
 CODEN: AMFOA
 illustration; portrait; photograph
 SIC CODE: 9511
 CAPTIONS: Major groundwater areas of the United States.
 DESCRIPTORS: water, underground-distribution; water-pollution; water supply-analysis

1769928 DATABASE: MI File 47
Groundwater: buried treasure.

Forrester, Frank H.
 American Forests v90 p18(6) Aug 1984
 CODEN: AMFOA
 illustration; photograph; chart
 SIC CODE: 9511

CAPTIONS: (Diagrams: how groundwater occurs in rocks; how contaminants reach groundwater; the hydrologic cycle)

DESCRIPTORS: water, underground-analysis; hydrogeology-analysis

1748006 DATABASE: MI File 47

Groundwater contamination: local problems become national issue.

Tangley, Laura
 Bioscience v34 p142(6) March 1984
 CODEN: BISNA

illustration; map; table; chart
 CAPTIONS: Groundwater resources of the United States.; Toxic organic compounds found in drinking-water wells.; Selected synthetic organic chemicals detected in drinking-water wells.; Prospect of biotransformation of selected organic pollutants in water-table aquifers.; Sources of groundwater contamination.; Groundwater pollution problems.

DESCRIPTORS: water, underground-pollution; pollution-environmental aspects

1704505 DATABASE: MI File 47

Groundwater contamination in the United States. (book reviews)

Library Journal v108 p2095(2) Nov 1 1983
 CODEN: LIBJA
 ARTICLE TYPE: review

GRADE: C
 NAMED PEOPLE: Pye, Veronica I.
 DESCRIPTORS: books-reviews, etc.

1702212 DATABASE: MI File 47

Water: is it safe to drink? (contamination widespread problem)

Carey, John; Aurness, Craig; Hayward, Bill; Blair, Jonathan; Soorenko, Barry A.; Christenson, Diane
 National Wildlife v22 p14(4) Feb-March 1984

CODEN: NAWLA
 illustration; photograph; chart
 SIC CODE: 9511
 CAPTIONS: Poisoning water underground: contaminants can enter groundwater from many sources on the surface.

DESCRIPTORS: water-pollution; drinking water-pollution; United States. Environmental Protection Agency-investigations

1693228 DATABASE: MI File 47

Groundwater. (audio-visual reviews)

McLaughlin, Terry L.
 School Library Journal v30 p49(1) Nov 1983
 CODEN: SCLJB

ARTICLE TYPE: review

(cont. next page)

DIALOG le 47: MAGAZINE INDEX - 1959-MAR 1970, 1973-84/DEC (COI IAC) FMT 9 = \$7.00

GRADE: A-

DESCRIPTORS: audio-visual materials-reviews, etc.

1684816 DATABASE: MI File 47

Ground water: a non-technical guide. (book reviews)

Bush, Monroe

American Forests v89 p57(1) July 1983

CODEN: AMFOA

ARTICLE TYPE: review

GRADE: A

NAMED PEOPLE: Wilson, James

DESCRIPTORS: books-reviews, etc.

1681731 DATABASE: MI File 47

Ground water contamination in the United States.

Pye, Veronica I.; Patrick, Ruth

Science v221 p713(6) Aug 19 1983

CODEN: SCIEAS

illustration; chart; table

SIC CODE: 9511; 9511

CAPTIONS: How waste disposal practices can contaminate the ground water systems.; Most frequently reported sources of ground water contamination.

DESCRIPTORS: water, underground-pollution; environmental protection-analysis; United States. Environmental Protection Agency-rules and regulations

1663342 DATABASE: MI File 47

The case for ocean waste disposal.

Lahey, William; Connor, Michael

Technology Review v86 p60(7) Aug-Sept 1983

CODEN: TERE A

illustration; chart; graph; graph; table

SIC CODE: 9511

CAPTIONS: (Methods of toxic waste disposal.); Risk of cancer from groundwater consumption.; Risk of cancer from fish consumption.

NAMED PEOPLE: Ruckelshaus, William D.-environmental policy; Burford, Anne M.-environmental policy

DESCRIPTORS: hazardous substances-environmental aspects; United States. Environmental Protection Agency-cases; marine pollution-environmental aspects; waste disposal in the ocean-economic aspects

1656802 DATABASE: MI File 47

The organic trek to groundwater.

Science News v124 p119(1) Aug 20 1983

CODEN: SCNEB

DESCRIPTORS: water, underground-pollution; factory and trade waste-environmental aspects; rivers-pollution

1652054 DATABASE: MI File 47

The new pollution: groundwater contamination.

Burmester, David E.

Environment v24 p6(12) March 1982

CODEN: ENVTA

illustration

SIC CODE: 9512

DESCRIPTORS: water, underground-pollution; conservation of natural resources-analysis; hazardous substances-environmental aspects; factory and trade waste-environmental aspects; chemicals-environmental aspects; drinking water-pollution; pollution-environmental aspects

1649875 DATABASE: MI File 47

Update on groundwater: good news for St. Louis Park.

Shafroth, Frank

Nation's Cities Weekly v6 p2(1) Aug 22 1983

CODEN: NACIBA

GEOGRAPHIC LOCATION: Minnesota

GEOGRAPHIC CODE: NNUSCMN SIC CODE: 9511

DESCRIPTORS: aquifers-pollution; municipal water supply-law and legislation; St. Louis Park, Minnesota-water supply

1649602 DATABASE: MI File 47

On earth; ground water can be as easily contaminated as lakes and rivers - keeping it clean is an age-old problem.

Hill, Mary

Earth Science v36 p26(1) Summ 1983

CODEN: EARSA

DESCRIPTORS: water, underground-pollution; drinking water-pollution; water-pollution

1641675 DATABASE: MI File 47

Ambiguity clouds contamination remedies. (groundwater quality)

Shafroth, Frank

Nation's Cities Weekly v6 p8(4) June 13 1983

CODEN: NACIBA

illustration

DESCRIPTORS: municipal water supply-pollution; groundwater flow-law and legislation; Safe Water Drinking Act of 1974-interpretation and construction; Resource Conservation and Recovery Act-interpretation and construction; Comprehensive Environmental Response, Compensation, and Liability Act of 1981-interpretation and construction

DIALOG File 47: MAGAZINE INDEX - 1959-MAR 1970, 1973-84/DEC (COPR. IAC) FMT 9 = \$7.00

1641651 DATABASE: MI File 47

Warning signs raise safety questions. (groundwater)

Page, Clint; Shafroth, Frank

Nation's Cities Weekly v6 p5(4) May 23 1983

CODEN: NACIBA

illustration; map; map; map

GEOGRAPHIC LOCATION: New Jersey

GEOGRAPHIC CODE: NNUSLNUJ SIC CODE: 9511

CAPTIONS: Groundwater resources.; Groundwater overdraft and related problems.; Groundwater pollution problems.

DESCRIPTORS: groundwater flow-pollution; drinking water-quality control; cities and towns-water supply; pollution-New Jersey; plumes (fluid dynamics)-pollution; aquifers-pollution

1641647 DATABASE: MI File 47

Questions about quality are hard to answer. (groundwater)

Shafroth, Frank

Nation's Cities Weekly v6 p5(2) May 30 1983

CODEN: NACIBA

illustration; chart

SIC CODE: 9511

CAPTIONS: Contaminants follow may paths to reach groundwater.

DESCRIPTORS: water-pollution; municipal water supply-costs; aquifers-pollution; plumes (fluid dynamics)-movements; United States. Environmental Protection Agency-rules and regulations; drinking water-law and legislation; Safe Drinking Water Act of 1974-standards; Resource Conservation and Recovery Act-standards

1641646 DATABASE: MI File 47

The muddy waters of liability for cities. (groundwater)

Shafroth, Frank

Nation's Cities Weekly v6 p5(3) June 6 1983

CODEN: NACIBA

illustration; cartoon

SIC CODE: 9511

DESCRIPTORS: liability for environmental damages-cases; municipal water supply-pollution; public health laws-cases; groundwater flow-law and legislation; Safe Drinking Water Act of 1974-interpretation and construction; Resources Conservation and Recovery Act of 1979-interpretation and construction; Comprehensive Environmental Response, Compensation and Liability Act of 1980-interpretation and construction

1641636 DATABASE: MI File 47

McCoy tells senators of federal water policy impact. (Bob

McCoy)

Shafroth, Frank

Nation's Cities Weekly v6 p4(1) July 4 1983

CODEN: NACIBA

SIC CODE: 9511

NAMED PEOPLE: McCoy, Bob-political activity

DESCRIPTORS: municipal water supply-political aspects; groundwater flow-economic aspects; federal-city relations-water supply

1627689 DATABASE: MI File 47

Water shortages; the next "energy crisis."

Stokes, Bruce

Futurist v17 p38(11) April 1983

CODEN: FUTUA

illustration; photograph

SIC CODE: 7391; 7391; 7391

DESCRIPTORS: water-environmental aspects; water use-environmental aspects; water consumption-research; population density-water supply; food supply-water supply; United States Water Resources Council-research; groundwater flow-research; rivers-water supply

1575293 DATABASE: MI File 47

Ground water proves a hidden element whose time has come.

Parfit, Michael

Smithsonian v13 p50(12) March 1983

CODEN: SMSNA

illustration; photograph; portrait

NAMED PEOPLE: Lehr, Lew-management; Thompson, Wayne-management; Quinlan, Jim-management; Clayton, Bill-management; Barraclough, Jack-research; Hardy, Earl-research; Coplan, Ty-research

DESCRIPTORS: National Water Well Association-services; divining-rod-usage; water, underground-discovery and exploration; wells-discovery and exploration; springs-usage; hydrology-research; United States. Geological Survey-research; Ogalla River-environmental aspects

1569770 DATABASE: MI File 47

What is groundwater?

Branley, Franklyn M.

Sierra Club Bulletin v68 p144(3) Jan-Feb 1983

CODEN: SCBUB

DESCRIPTORS: water, underground-environmental aspects; groundwater flow-environmental aspects; rain and rainfall-environmental aspects

1563815 DATABASE: MI File 47

Tough new rules guard against toxics: guidelines to curb groundwater contamination are in place, but runoff and supply problems remain. (Environmental Quality Index)

National Wildlife v21 p36(1) Feb-March 1983

CODEN: NAWLA

(cont. next page)

DIALOG File 47: MAGAZINE INDEX - 1959-MAR 1970, 1973-84/DEC (COP. IAC) FMT 9 = \$7.00

illustration; cartoon; graph

SIC CODE: 9511; 9121

CAPTIONS: Water.

DESCRIPTORS: water-pollution; waste disposal in the ground-environmental aspects; Love Canal-environmental aspects; United States. Environmental Protection Agency-investigations; federal government-environmental policy; United States. Congress-environmental policy; Clean Water Act of 1972-rules and regulations; environmental policy-political aspects

1546631 DATABASE: MI File 47

Toxified groundwater to be expensive to clean.

American City and County v97 p10(1) Nov 1982

CODEN: ACCOD

SIC CODE: 9121; 9511

NAMED PEOPLE: Miller Inc., David W.-evidence

DESCRIPTORS: United States. Congress. Senate. Committee on Environment and Public Works-investigations; Geraghty and Miller Inc.-officials and employees; aquifers-pollution; water pollution control industry-costs

1521743 DATABASE: MI File 47

Hazardous wastes bill clears House, Senate vote near: closing off the 'loopholes.'

Shafroth, Frank

Nation's Cities Weekly v5 p1(2) Sept 20 1982

CODEN: NACIBA

SIC CODE: 9121; 9511

DESCRIPTORS: environmental policy-political aspects; Resource Conservation and Recovery Act-economic aspects; hazardous wastes-law and legislation; United States. Environmental Protection Agency-rules and regulations; United States. National Groundwater Commission-membership; National League of Cities-environmental policy

1506600 DATABASE: MI File 47

Crops thrive on polluted groundwater.

Science Digest v90 p20(1) Oct 1982

CODEN: SCDIBG

SIC CODE: 9511

DESCRIPTORS: United States. Environmental Protection Agency-research; water, underground-purification; water-nitrogen content

1485329 DATABASE: MI File 47

Groundwater contamination: an emerging threat.

Burmester, David E.; Harris, Robert H.

Technology Review v85 p50(11) July 1982

CODEN: TERE A

illustration; table

CAPTIONS: Synthetic organic compounds commonly found in drinking water wells.

DESCRIPTORS: groundwater flow-environmental aspects; water,

underground-pollution; wells-pollution; springs-pollution; saltwater encroachment-environmental aspects; seepage-environmental aspects

1483772 DATABASE: MI File 47

Groundwater policy: a patchwork for protection.

Horne, Amy

Current p43(7) July-Aug 1982

CODEN: CURRDV

SIC CODE: 9511

DESCRIPTORS: water-supply-standards; water quality-standards; United States. Environmental Protection Agency-environmental policy; Safe Drinking Water Act-interpretation and construction

1479151 DATABASE: MI File 47

Bill calls for new groundwater commission.

Johnson, Pamela

Nation's Cities Weekly v5 p16(1) June 21 1982

CODEN: NACIBA

SIC CODE: 9121; 4953; 9511

DESCRIPTORS: National League of Cities-environmental policy; United States. Congress. House. Committee on Public Works and Transportation-environmental policy; Water-Laws and legislation; hazardous waste management industry-law and legislation; United States. Environmental Protection Agency-rules and regulations; Resource Conservation and Recovery Act-interpretation and construction

1447989 DATABASE: MI File 47

A patchwork of protection: groundwater policy.

Horne, Amy

Environment v24 p6(6) April 1982

CODEN: ENVTA

illustration; map

CAPTIONS: America's groundwater resources.

DESCRIPTORS: groundwater flow-pollution; water-law and legislation; aquifers-pollution

1419340 DATABASE: MI File 47

Groundwater problems surface

Technology Review v85 p76(1) Jan 1982

CODEN: TERE A

SIC CODE: 9511

DESCRIPTORS: United States. Environmental Protection Agency-management; water-supply-environmental aspects; water quality management-planning

0756024 DATABASE: MI File 47

Keeping tabs on groundwater pollution.
American City and County v89 p40 Oct 1974
DESCRIPTORS: Water treatment plants.

0755978 DATABASE: MI File 47

Dumps: potential threat to groundwater supplies.
Weddle, Bruce.; Garland, George.
Nation's Cities v12 p21 Oct 1974
SIC CODE: 4953; 4953
DESCRIPTORS: Refuse and refuse disposal.; Refuse and refuse disposal-Hazards.; Water-Pollution.; Leachate.

0450033 DATABASE: MI File 47

Uranium disequilibrium in groundwater: an isotope dilution approach in hydrologic investigations. bibliog
Osmond, J. K. & others
Science v162 p997 Nov 29 1968
DESCRIPTORS: Hydrologic research; Uranium-Isotopes

0395084 DATABASE: MI File 47

Sinkhole formation by groundwater withdrawal: Far West Rand, South Africa. bibliog
Foote, Richard M.
Science v157 p1045 Sep 1 1967
DESCRIPTORS: Sinkholes

0295016 DATABASE: MI File 47

Radiocarbon determinations for estimating groundwater flow velocities in central Florida. bibliog
Hanshaw, Bruce B. & others
Science v148 p494 Apr 23 1965
DESCRIPTORS: Radiocarbon dating; Water, Underground

0218452 DATABASE: MI File 47

Groundwater: flow toward an effluent stream. bibliog
Lehr, Jay H.
Science v140 p1318 Jun 21 1963
DESCRIPTORS: Hydrodynamics; Water, Underground

DIALOG File 47: MAGAZINE INDEX - 1959-MAR 1970, 1973-84/DEC (COPR. IAC) FMT 9 = \$7.00

NAMED PEOPLE: McNulty, Daniel; Todd, David
DESCRIPTORS: books-reviews, etc.

1405760 DATABASE: MI File 47

When a water supply went bad. (groundwater contamination)
American City and County v96 p33(4) Dec 1981
CODEN: ACCOD
illustration; photograph: portrait
SIC CODE: 9511
DESCRIPTORS: water, underground-pollution; carbon, activated
-usage; hazardous wastes-environmental aspects

1137359 DATABASE: MI File 47

Pollution: electrifying evidence. (conductivity of polluted groundwater)
Science News v116 p426(1) Dec 22 1979
CODEN: SCNEB
DESCRIPTORS: water, underground-pollution; man-influence on nature; environmental testing-technological innovations

1396039 DATABASE: MI File 47

Tainted waters.
Reinhardt, William G.
SciQuest v54 p6(5) Nov 1981
CODEN: SCIQDX
illustration; photograph; map; portrait
CAPTIONS: Areas reporting problems with groundwater contamination are shaded.
DESCRIPTORS: water, underground-pollution; water-supply-pollution; drinking water-pollution; chemicals-pollution; hazardous substances-pollution

1011777 DATABASE: MI File 47

Uranium mill contaminates groundwater.
Science News v114 p441(1) Dec 23 1978
CODEN: SCNEB
DESCRIPTORS: water-pollution; water, underground-pollution; uranium-pollution

0997565 DATABASE: MI File 47

Activated carbon cleans toxic-contaminated groundwater system.
American City and County v93 p40(2) Nov 1978
CODEN: ACCOD
DESCRIPTORS: groundwater flow-protection; radioactive wastes -accidents, etc.; carbon, activated-usage

1298448 DATABASE: MI File 47

The underwatered West.
Sheridan, David
Environment v23 p6(11) March 1981
CODEN: ENVTA
illustration; photograph; table; map
GEOGRAPHIC CODE: NNUSW; NNUSW
CAPTIONS: Population of the arid West and percent of growth; Groundwater overdraft areas in the arid West.
DESCRIPTORS: The West-water supply; water supply-The West; desertification-causes of; desert ecology-analysis

0968422 DATABASE: MI File 47

Groundwater 'flood' threatens Louisville buildings.
American City and County v93 p26(2) Aug 1978
CODEN: ACCOD
GEOGRAPHIC CODE: NNUSUKY; NNUSUKY
DESCRIPTORS: Louisville, Kentucky-floods; water table-Kentucky; floods-Kentucky

1258312 DATABASE: MI File 47

The turbulence over groundwater.
Business Week p47(1) Nov 3 1980
CODEN: BUWEA
illustration: photograph
GEOGRAPHIC CODE: NNUS SIC CODE: 9511
DESCRIPTORS: environmental policy-United States; United States. Environmental Protection Agency-environmental policy; water, underground-pollution; drinking water-pollution; factory and trade waste; water supply

0828332 DATABASE: MI File 47

Polluted groundwater. (book reviews)
Library Journal v101 p1617(1) August 1976
CODEN: LIBJA
ARTICLE TYPE: review
GRADE: B+
NAMED PEOPLE: Todd, David Keith; McNulty, Daniel E. Orren
DESCRIPTORS: books-reviews, etc.

1190739 DATABASE: MI File 47

Polluted groundwater. (book reviews)
Siehl, George H.
Library Journal v102 p985(2) May 1 1980
CODEN: LIBJA
ARTICLE TYPE: review
GRADE

0767028 DATABASE: MI File 47

Petroleum pollutants in surface and groundwater as indicated by the carbon-14 activity of dissolved organic carbon.
Spiker, E. C.; Rubin, Meyer.
Science v187 p61 Jan 10 1975
DESCRIPTORS: Water-Pollution.

329710 841507025

Invisible threat, invisible resource: underground tanks contaminate groundwater

(leakage from underground gasoline storage tanks; United States).

Tejada, Susan.

EPA (Environmental Protection Agency) J , 10:20-2 Ja/F '84
il

Languages: Engl

DOC TYPE: P

329071 841500590

Polluted groundwater clearly a problem, but few agree on extent or solution:

the Reagan administration, which at first was prepared to do nothing, is now ready to announce a new groundwater strategy; but critics call it merely cosmetic.

Mosher, Lawrence.

Nat J , 16:223-5 F 4 '84, il

Languages: Engl

DOC TYPE: P

329045 841500312

Groundwater contamination by toxic substances:

a digest of reports; a report, November 1983.

United States. Senate. Com. on Environment and Public Works.

Washington, DC 20510 pa

'83, xxxv+75p tables

SERIES: 98th Cong., 1st sess.

Languages: Engl

DOC TYPE: M

S. print 98-131

Com. print

Prepared by the Environment and Natural Resources Division, Congressional Research Service, Library of Congress.

Update of the 1980 report entitled, "Resource losses from surface water, groundwater, and atmospheric contamination: a catalog."

327412 841205544

Management of groundwater through mandatory conservation.

Kelly, Michael J.

Denver Law J , 61:1-24 no 1 '83,

Languages: Engl

DOC TYPE: P

322959 840605022

Ground water in the Pacific region.

United Nations. Dept. of Tech. Coop. for Development.

U N Agent pa \$38

'83, x+289p bibls tables charts maps

SERIES: Sales no. E.83.II.A.12

Languages: Engl

DOC TYPE: M

ST/ESA/121

Natural resources/water ser. no. 12

322022 840503420

New Jersey ground water pollution index, September 1974-January 1983.

Stone, Timothy, comp.

New Jersey. Dept. of Environmental Protection.

CN 029, Trenton, NJ 08625 pa

My '83, ix+97p+2 folded maps maps

SERIES: N.J. geological survey. Open file rept. no. 83-1

Languages: Engl

DOC TYPE: M

318567 832405143

Are groundwater resources sufficiently protected?

Kovacs, Gyorgy.

Impact of Science on Society , p 35-47 no 1 '83, charts

Languages: Engl

DOC TYPE: P

317885 832306218

The growing battle over pesticides in drinking water:

disturbing new studies on toxic "trickle-down" (of agricultural pesticides into California groundwater supplies).

Foster, Douglas.

Cal J , 14:177-9 My '83,

Languages: Engl

DOC TYPE: P

317092 832205163

Directory of groundwater programs and activities of the federal government.

United States. Dept. of the Interior. Office of Water Policy.

Nat Tech Info Service pa \$11.50

(F '83), 79p

SERIES: PB83-182048

Languages: Engl

DOC TYPE: M

316448 832105666

Agricultural land use planning and groundwater quality

(effects of various chemicals on water quality; includes a summary of federal and state legislative actions directed toward protecting groundwater resources).

Ferrett, Robert L. and Robert M. Ward.

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DIALOG File 49: PAIS International - 76-84/Dec (Copr. PAIS Inc.)

337354 850301741

Ground water: the endangered resource
(five articles).
Western Water , p 4-11 S/O '84, il diag
Languages: Engl
DOC TYPE: P

337245 850300648

Protecting ground water: the hidden resource.
EPA (Environmental Protection Agency) J , 10:2-33 J1/Ag
'84, il diag chart
Languages: Engl
DOC TYPE: P

336321 850104262

Rewriting California groundwater law:
past attempts and prerequisites to reform.
Smith, Zachary A.
Cal Western Law R , 20:223-57 Winter '84,
Languages: Engl
DOC TYPE: P

335538 842403381

Ground water contamination: hearings, November 1983-March 9,
1984.
United States. Senate. Com. on Environment and Public Works.
Subcom. on Toxic Substances and Environmental Oversight.
Washington, DC 20510 pa
'84, iv+452p il tables
SERIES: 98th Cong., 1st and 2d sess.
Languages: Engl
DOC TYPE: M
S. hearing 98-721

334468 842206559

Groundwater supply depletion in West Texas:
the farmer's perspective.
Shelley, Fred M.
Tex Bus R , 57:279-83 N/D '83, tables
Languages: Engl
DOC TYPE: P

334096 842202804

Permit fees for New Jersey's surface and groundwater
discharges
(fee schedules for various types of discharge).
Yeany, Philip R.
Environmental Forum , 2:21-5 Ja '84, tables
Languages: Engl
DOC TYPE: P

334094 842202789

What is wrong with Superfund?
is the remedial program so geared to the catastrophic sites,
the Love Canals, that it cannot accommodate most of the
nation's "normal" soil and groundwater contamination problems?
ambient standards and minimum treatment levels may be needed
over the long run.
Novick, Sheldon M.
Environmental Forum , 2:6-11 N '83, charts
Languages: Engl
DOC TYPE: P

333177 842006985

Resource economics: a property rights perspective
(proposes a model to describe the transfer of natural
resources from public to private ownership; uses groundwater
resources in the United States as an example; based on
conference paper).
Yandle, Bruce.
J Energy Law & Policy , 5:1-19 no 1 '83, chart
Languages: Engl
DOC TYPE: P

332773 842002228

Groundwater management in the Northeast.
Newton, David F.
Northeast Regional Center for Rural Development, Cornell
University, 242 Roberts Hall, Ithaca, NY 14853 pa
Mr '84, v.p. il tables diags
SERIES: Pubn. no. 34
Languages: Engl
DOC TYPE: M

332464 841906122

Development of a national groundwater protection policy.
Dycus, J. Stephen.
Boston Col Environmental Affairs Law R , 11:211-71 Ja '84,
Languages: Engl
DOC TYPE: P

332127 841902681

District management for California's groundwater
(recommends the creation of a statewide program of local
groundwater management authorities).
de Lambert, Deborah A.
Ecology Law Q , 11:373-400 no 3 '84,
Languages: Engl
DOC TYPE: P

DIALOG File 49: PAIS International - 76-84/Dec (Copr. PAIS Inc.)

Growth and Change , 14:32-9 Ja '83, map
Languages: Engl
DOC TYPE: P

316295 832104133
Our drinking water: a threatened resource.
Zeldin, Marvin.
Public Affairs Com 50c
'83, 24p il
SERIES: Public affairs pam. no. 613
Languages: Engl
DOC TYPE: M
Growing problem of chemical contamination of rivers,
freshwater lakes, and groundwater sources.

315584 832003987
Arizona groundwater reform:
the forces of change (conditions that led to passage of the
1980 Groundwater Management Act with comprehensive guidelines
for controlling exploitation of aquifers; based on conference
paper).
Weschler, Louis and Helen Ingram.
Southwestern R Mgt and Econ , 2:13-21 Summer '82, bibl
Languages: Engl
DOC TYPE: P

314830 831903340
A legal framework in the public interest
(equitable allocation of irrigation water from large
groundwater projects).
Carruthers, Ian and Roy Stoner.
Ceres , 15:15-20 S/O '82, il
Languages: Engl
DOC TYPE: P

312747 831602859
A history of the Arizona Groundwater Management Act.
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Utton, Albert E.
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Dickey, Mark D.

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JURISDICTION: Oklahoma

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GEOGRAPHIC CODE: NNUSOK

DESCRIPTORS: water, underground-law and legislation; water use-law and legislation

1988492 DATABASE: LRI File 150

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Smith, Zachary

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GEOGRAPHIC CODE: NNUSWCA

DESCRIPTORS: California-water supply; water, underground-law and legislation

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JURISDICTION: United States

GEOGRAPHIC CODE: NNUS SIC CODE: 9511

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Andrews, Barbara T.; Fairfax, Sally K.

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DESCRIPTORS: water, underground-management; San Joaquin Valley, California-water supply; California-water supply; water conservation-management; water-supply-history

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1984457 DATABASE: LRI File 150

Groundwater protection measures debated.

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JURISDICTION: United States

GEOGRAPHIC CODE: NNUS SIC CODE: 9511

DESCRIPTORS: water, underground-finance; United States. Environmental Protection Agency-appropriations and expenditures; aquifers-rules and regulations

1981481 DATABASE: LRI File 150

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Ford, Harry J., II

J. Energy L. & Pol'y 5 107-119 Wntr 1983

ARTICLE TYPE: case note

JURISDICTION: Utah

Branch v. Western Petroleum, Inc. 657 P.2d 267 (Utah 1982)

GEOGRAPHIC CODE: NNUSRUT

DESCRIPTORS: strict liability-cases; liability for oil pollution damages-cases; water, underground-cases

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The dormant commerce clause and the constitutionality of intrastate groundwater management programs.

Hodson, Kenneth A.

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JURISDICTION: United States

Sporhase v. Nebraska ex rel. Douglas 458 U.S. 941 (1982)

GEOGRAPHIC CODE: NNUS

DESCRIPTORS: water, underground-litigation; interstate commerce-litigation

DIALOG File 150: LEGAL RESOURCE INDEX - 80-84 DEC

1977029 DATABASE: LRI File 150

Commerce clause curbs state control of interstate use of ground water. (case note)

Gross, Sharon P.

Nat. Resources J. 24 213-220 Jan 1984

ARTICLE TYPE: case note

JURISDICTION: United States

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GEOGRAPHIC CODE: NNUS

DESCRIPTORS: water transfer-cases; water, underground-cases; interstate commerce-cases

1976236 DATABASE: LRI File 150

District management for California's groundwater.

de Lambert, Deborah A.

Ecology L.Q. 11 373-400 Spr 1984

JURISDICTION: California

GEOGRAPHIC CODE: NNUSWCA

DESCRIPTORS: California-water supply; water, underground-management

1975866 DATABASE: LRI File 150

Allocation of ground water after Sporhase v. Nebraska ex rel. Douglas: a proposal for combined federal-state regulation. (case note)

Murray, Rika

Alb. L. Rev. 48 494-520 Wntr 1984

ARTICLE TYPE: case note

JURISDICTION: United States

Sporhase v. Nebraska ex rel. Douglas 458 U.S. 941 (1982)

GEOGRAPHIC CODE: NNUS

DESCRIPTORS: water, underground-cases; water-rights-cases; interstate commerce-cases

1972912 DATABASE: LRI File 150

Development of a national groundwater protection policy.

Dycus, J. Stephen

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JURISDICTION: United States

Federal Water Pollution Control Act Amendments of 1972

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1966217 DATABASE: LRI File 150

Nontributary groundwater: the continuing saga.

Phillips, Martha A.

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JURISDICTION: Colorado

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GEOGRAPHIC CODE: NNUSRCO

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Kelly, Michael J.

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JURISDICTION: United States

GEOGRAPHIC CODE: NNUS

DESCRIPTORS: water, underground-management; water conservation-law and legislation

1960806 DATABASE: LRI File 150

The transportation provisions of Arizona's 1980 Groundwater Management Act: a proposed definition of compensable injury.

Doyle, Mary

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JURISDICTION: Arizona

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Arizona Groundwater Management Act of 1980

GEOGRAPHIC CODE: NNUSTAZ

DESCRIPTORS: water, underground-management; water transfer-law and legislation

1959125 DATABASE: LRI File 150

Environmental law - ground water - the demise of the public ownership theory in state regulation of water resources. (case note)

Valliere, Dean R.

Suffolk Transnat'l L.J. 7 223-234 Spr 1983

ARTICLE TYPE: case note

JURISDICTION: United States

Sporhase v. Nebraska ex rel Douglas 102 S. Ct. 3456 (1982)

GEOGRAPHIC CODE: NNUS

DESCRIPTORS: water, underground-cases; irrigation water-cases; interstate commerce-cases

1958269 DATABASE: LRI File 150

Water law - Commerce Clause: the U.S. Supreme Court holds that a Nebraska statute prohibiting the export of groundwater to a state not granting reciprocal rights to transport water into Nebraska violates the Commerce Clause of the Constitution. (case note)

Green, Mary Ann

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DIALOG File 150: LEGAL RESOURCE INDEX - 80-84 DEC

ARTICLE TYPE: case note
 JURISDICTION: United States
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 GEOGRAPHIC CODE: NNUS
 DESCRIPTORS: water, underground-cases; interstate
 commerce-cases

1957213 DATABASE: LRI File 150
 The Water Quality Assurance Act of 1983 - Florida's "great
 leap forward" into groundwater protection and hazardous waste
 management.

Hopping, Wade L.; Preston, William D.
 Fla. St. U.L. Rev. 11 599-641 Fall 1983
 JURISDICTION: Florida
 Florida Water Quality Assurance Act of 1983
 GEOGRAPHIC CODE: NNUSUFL
 DESCRIPTORS: water, underground-protection; hazardous wastes
 -environmental aspects

1954907 DATABASE: LRI File 150
 Continued preference for domestic ground water users in
 Idaho. (case note)

Rowan, Paul G.
 Willamette L. Rev. 19 789-801 Fall 1983
 ARTICLE TYPE: case note
 JURISDICTION: Idaho
 Parker v. Wallentine 650 P.2d 648 (Idaho 1982)
 Idaho Ground Water Act
 GEOGRAPHIC CODE: NNUSOID
 DESCRIPTORS: water-rights-cases; water, underground-cases

1952213 DATABASE: LRI File 150
 A call for ground water legislation. (case note)

Crane, Jolene M.
 Den. L.J. 60 631-643 Fall 1983
 ARTICLE TYPE: case note
 JURISDICTION: United States
 Sporhase v. Nebraska ex rel. Douglas 102 S. Ct. 3456 (1982)
 GEOGRAPHIC CODE: NNUS
 DESCRIPTORS: water, underground-cases; interstate
 commerce-cases; exclusive and concurrent legislative
 powers-cases; water-rights-cases

1949311 DATABASE: LRI File 150
 Protection unlimited: a preferred user's right to means of
 groundwater diversion in Nebraska.

Gealy, Stephen S.
 Neb. L. Rev. 62 270-315 Spr 1983
 JURISDICTION: Nebraska
 Prather v. Eisenmann 261 N.W.2d 766 (Neb. 1978)
 GEOGRAPHIC CODE: NNUSCNB
 DESCRIPTORS: Nebraska-water supply; water, underground-law
 legislation; water-rights-law and legislation

1947398 DATABASE: LRI File 150

The right to use groundwater in Arizona after Chino Valley
 II and Cherry v. Steiner.

Wheeler, Ellen K.
 Ariz. L. Rev. 25 473-490 Spr 1983
 JURISDICTION: Arizona
 Cherry v. Steiner 543 F. Supp. 1270 (D. Ariz. 1982); Town of
 Chino Valley v. City of Prescott 638 P.2d 1324 (Ariz. 1981)
 Arizona Groundwater Management Act of 1980
 GEOGRAPHIC CODE: NNUSTAZ
 DESCRIPTORS: water, underground-law and legislation;
 water-rights-law and legislation; Arizona-natural resources;
 police power-law and legislation

1944758 DATABASE: LRI File 150

Insurance coverage in groundwater pollution litigation.

Havey, James M.
 N.J.L. 18-20 Aug 1983
 JURISDICTION: United States
 GEOGRAPHIC CODE: NNUS
 DESCRIPTORS: water, underground-pollution; pollution-litiga-
 tion; insurance, liability-litigation

1941671 DATABASE: LRI File 150

Federal intervention in groundwater regulation. (case note)

Garrett, J.S.
 Tulsa L.J. 18 713-722 Summ 1983
 ARTICLE TYPE: case note
 JURISDICTION: United States
 Sporhase v. Nebraska ex rel. Douglas 102 S. Ct. 3456 (1982)
 GEOGRAPHIC CODE: NNUS
 DESCRIPTORS: water, underground-cases; interstate
 commerce-cases

1937895 DATABASE: LRI File 150

Water: ground water reciprocity requirement violates the
 Commerce Clause. (case note)

Sutton, David B.
 Washburn L.J. 22 590-598 Spr 1983
 ARTICLE TYPE: case note
 JURISDICTION: United States
 Sporhase v. Nebraska ex rel. Douglas 102 S. Ct. 3456 (1982)
 GEOGRAPHIC CODE: NNUS
 DESCRIPTORS: commerce-cases; water, underground-cases;
 natural resources-cases; water-rights-cases

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1937225 DATABASE: LRI File 150

Groundwater: a call for a comprehensive management program.
(California)

Mallery, Michael P.

Pac. L.J. 14 1279-1307 July 1983

JURISDICTION: California; Oklahoma

GEOGRAPHIC CODE: NNUSWCA; NNUSTOK SIC CODE: 7392

DESCRIPTORS: water, underground-management

1928834 DATABASE: LRI File 150

Florida's new groundwater regulations.

Green, William H.; Preston, William D.

Fla. B.J. 57 345-348 May 1983

JURISDICTION: Florida

GEOGRAPHIC CODE: NNUSUFL

DESCRIPTORS: water, underground-rules and regulations;
Florida. Department of Environmental Regulation-rules and
regulations; Florida. Environmental Regulation Commission-rul-
es and regulations

1925985 DATABASE: LRI File 150

Reasonable groundwater pumping levels under the
appropriation doctrine: underlying social goals.

Grant, Douglas L.

Nat. Resources J. 23 53-75 Jan 1983

JURISDICTION: United States

GEOGRAPHIC CODE: NNUS

DESCRIPTORS: water, underground-protection; water-rights-law
and legislation

DIALOG File 40: ENVIROLINE - 70-84/NOV (Copr. EIC INC.)

0174969 *84-006878

PROPOSED AMENDMENTS TO THE VERMONT WATER QUALITY STANDARDS-RESPONSE TO PUBLIC COMMENT AND COMPARISON WITH CURRENT STANDARDS,
VERMONT WATER RESOURCES BOARD REPORT, SEP 10, 84, (33)

0174966 *84-006875

EFFECT OF ANIMAL GRAZING ON WATER QUALITY OF NONPOINT RUNOFF IN THE PACIFIC NORTHWEST,
SAXTON, K. E. ; ELLIOTT LLOYD F. ; JAWSON MICHAEL D. ;
PAPENDICK ROBERT I. ; FORTIER DAVID H.
ARS, WA,
NTIS REPORT PB83-245225, AUG 83, (148)

0174965 *84-006874

MOVEMENT OF BACTERIA THROUGH MACROPORES TO GROUND WATER,
SMITH, M. S. ; THOMAS G. W. ; WHITE R. E.
UNIV OF KENTUCKY,
NTIS REPORT PB83-246546, JUN 83, (41)

0174955 *84-006864

STUDY OF LANDSCAPE-AGROGEOCHEMICAL BALANCE OF NUTRIENTS IN AGRICULTURAL REGIONS: PART III. NITROGEN,
KUDEYAROV, V. N. ; BASHKIN V. N.
USSR ACADEMY OF SCIENCES, MOSCOW
WATER AIR & SOIL POLLUTION, AUG 84, V23, N2, P141 (13)

0174954 *84-006863

AN IDEALIZED GROUND-WATER FLOW AND CHEMICAL TRANSPORT MODEL (S-PATHS),
OBERLANDER, PHIL L. ; NELSON R. W.
BATTELLE PACIFIC NORTHWEST LABS, WA
GROUND WATER, JUL-AUG 84, V22, N4, P441 (9)

0174953 *84-006862

SOURCES OF NITRATE IN GROUND WATER IN A SEWERED HOUSING DEVELOPMENT, CENTRAL LONG ISLAND, NEW YORK,
FLIPSE, WILLIAM J. ; KATZ BRIAN G. ; MARKEL RICHARD;
LINDNER JULI B.
USGS, NY,
GROUND WATER, JUL-AUG 84, V22, N4, P418 (9)

0174951 *84-006860

SEMRA VILLAGE: A CASE STUDY OF GROUNDWATER POLLUTION IN CENTRAL INDIA,
COOK JENNIFER M. ; DAS D. K.
(INST GEOLOGICAL SCIENCES, UK) AND. : (GEOLOGICAL SURVEY OF INDIA, INDIA)
WATER QUALITY B, JUL 84, V9, N3, P156 (5)

0174935 *84-006844

IMPACT OF WATER DEGRADATION IN REGIONAL AGRICULTURAL ECONOMY,
MEAN PHILIPPE ; HELWEG OTTO
(SUNG HYDROPOWER ASSOC, SWITZERLAND) AND. : (UNIV OF CALIFORNIA, DAVIS)
J IRRIGATION & DRAINAGE DIV-ASCE, JUN 84, V110, N2, P218 (17)

0174925 *84-006834

SOURCES OF NITRATES IN GROUNDWATER OF THE COASTAL PLAIN OF ISRAEL,
RONEN, D. ; KANFI Y. ; MAGARITZ M.
ISRAEL WATER COMMISSION, TEL AVIV,
WATER RESEARCH, 1983, V17, N11, P1499 (5)

0174921 84-006830

NITRATE TRENDS IN THE COASTAL PLAIN AQUIFER OF ISRAEL,
KANFI, Y. ; RONEN D. ; MAGARITZ M.
ISRAEL WATER COMMISSION, TEL AVIV,
J HYDROLOGY, 1983, V66, P331 (11)

0174881 *84-006790

EPA'S REGULATIONS FOR LAND DISPOSAL OF HAZARDOUS WASTES,
HSE COMM SCIENCE TECH HEARINGS 98 CON 2 180, NOV 30; DEC 8, 16, 82, (545)

0174858 84-006767

ENVIRONMENTAL PLANNING FOR WASTEWATER LAND APPLICATION: LESSONS FROM PENN STATE'S "LIVING FILTER",
FERGUSON BRUCE K.
UNIV OF GEORGIA,
LANDSCAPE PLANNING, 1983, V10, P205 (14)

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- O174855 84-006764
EPA STRATEGY SET ON SAFEGUARDING OF WATER SUPPLIES,
SHABECOFF PHILIP
NEW YORK TIMES, AUG 31, 84, PA1
- O174852 *84-006761
GROUND WATER RECHARGE IN THE HIGH PLAINS STATES; AND
DELIVERY OF WATER TO THE NORTH PLATTE IRRIGATION PROJECT, PART
2,
SEN COMM ENERGY NATURAL RESOURCES HEARINGS 98 CON 2 98-469,
FEB 17, 84, (94)
- O174845 84-006754
A METHOD FOR EVALUATING REGIONAL WATER SUPPLY AND
CONSERVATION ALTERNATIVES FOR POWER GENERATION,
EPRI REPORT P-3647, AUG 84, (112)
- O174839 *84-006748
TECHNICAL DESCRIPTION OF TEN IRRIGATION TECHNOLOGIES FOR
CONSERVING ENERGY,
HARRER, B. J. ; WILFERT G. L.
BATTELLE PACIFIC NORTHWEST LABS, WA
NTIS REPORT DE83-O13283, MAY 83, (156)
- O174837 84-006746
A GROUNDWATER MODEL FOR SIMULATING THE RISE OF WATER TABLE
UNDER IRRIGATED CONDITIONS,
SINGH, RAJINDER ; SONDHI S. K.; SINGH JOGINDER; KUMAR
RANVIR
HARYANA AGRICULTURAL UNIV, INDIA,
J HYDROLOGY, 1984, V71, P165 (15)
- O174834 *84-006743
NEW ECOLOGICAL APPROACH TO THE WATER CYCLE: TICKET TO THE
FUTURE,
FALKENMARK MALIN
SWEDISH NATURAL SCIENCE RESEARCH COUNCIL, STOCKHOLM,
AMBIO, 1984, V13, N3, P152 (9)
- O174819 *84-006728
GROUNDWATER: FOCUSING ON THE REAL ISSUE,
GISSER MICHA
UNIV OF NEW MEXICO,
J POLITICAL ECONOMY, 1983, V91, N6, P1001 (27)
- O174748 *84-006656
RADIOLOGICAL GUIDELINES FOR APPLICATION TO DOE'S FORMERLY
UTILIZED SITES REMEDIAL ACTION PROGRAM,
NTIS REPORT DE83-O11013, MAR 83, (95)
- O174634 *84-006542
IPIECA TENTH ANNIVERSARY 1974/1984,
INTL PETROLEUM INDUSTRY ENV CONSERVATION ASSN REPORT, FEB
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- O174618 *84-006526
EPA MAJOR ACTIONS AND DECISIONS, MAY 1983-MAY 1984,
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- O174617 *84-006525
UNDERGROUND STORAGE TANKS: PROBLEMS, TECHNOLOGY, AND TRENDS,
WOODS, PAUL H. ; WEBSTER DALE E.
FRED C. HART ASSOC, NY
POLLUTION ENGINEERING, JUL 84, V16, N7, P30 (11)
- O174584 *84-006493
AN ENVIRONMENTAL ASSESSMENT PROGRAM FOR A 13,000 BARREL PER
DAY OIL SHALE OPERATION,
FRENTZ HANK
GIBBS & HILL INC,
AGA/ET AL COAL TECHNOLOGY 83 COAL & LIGNITE UTILIZATION 6TH
INTL EXHIBITION & CONF, HOUSTON, NOV 15-17, 83, V5, P149 (19)
- O174537 *84-006446
BIOTRANSFORMATION OF SELECTED ORGANIC POLLUTANTS IN GROUND
WATER,
WILSON, JOHN T. ; MCNABB JAMES F.; WILSON BARBARA H.
ROBERT S. KERR ENV RESEARCH LAB, OK,
NTIS REPORT PB84-101526, 1983, (10)

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O174529 84-006438
ORIGINS OF SOME ARSENIFEROUS GROUNDWATERS IN NOVA SCOTIA AND
NEW BRUNSWICK, CANADA,
BOTTOMLEY D. J.
ENV CANADA, OTTAWA,
J HYDROLOGY, 1984, V69, P223 (35)

O174478 *84-006387
EPA AND PESTICIDES: AN INTERVIEW WITH EDWIN JOHNSON,
EPA J, JUN 84, V10, N5, P4 (5)

O174389 *84-006298
OUR TREES ARE DYING,
SITWELL NIGEL
SCIENCE DIGEST, SEP 84, V92, N9, P39 (13)

O174298 *84-006207
NATURE OF ORGANIC CONTAMINANTS IN GROUND WATER AND
APPROACHES TO TREATMENT,
ROBERTS PAUL V.
STANFORD UNIV,
UNIV OF CALIFORNIA/CALIF DEPT WATER RESOURCES GROUND WATER
14TH BIENNIAL CONF, SACRAMENTO, SEP 19-20, 83, P161 (19)

O174297 *84-006206
GROUNDWATER: A REVIEW,
BREDEHOEFT J. D.
USGS, CA,
UNIV OF CALIFORNIA/CALIF DEPT WATER RESOURCES GROUND WATER
14TH BIENNIAL CONF, SACRAMENTO, SEP 19-20, 83, P139 (22)

O174296 *84-006205
CALIFORNIA GROUNDWATER QUALITY SITUATION,
ONORATO CAROL
CALIFORNIA WATER RESOURCES CONTROL BOARD,
UNIV OF CALIFORNIA/CALIF DEPT WATER RESOURCES GROUND WATER
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PYE, VERONICA I. ; PATRICK RUTH; QUARLES JOHN
ACADEMY NAT SCIENCES ENV ASSESS COUNCIL, PHILADELPHIA,

UNIV OF PENNSYLVANIA/ACADEMY OF NATURAL SCIENCES REPORT,
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O174282 *84-006191
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ACS INFORMATION REPORT, 1983, (14)

O174271 84-006180
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HALL CLINTON W.
R. S. KERR ENV RESEARCH LAB, OK,
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O174270 84-006179
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