

# TABLE OF CONTENTS

---

PREFACE .....	V
FOREWORD.....	VII
ACKNOWLEDGMENTS .....	XI
TABLE OF CASES .....	XXXI
TABLE OF STATUTES .....	XLVII
<b>Chapter 1. Currents and Eddies: An Introduction to Water</b>	
<b>Resource Issues.....</b>	<b>1</b>
Power v. People .....	1
A. An Overview of Water Availability and Use in the U.S. ....	2
B. An Overview of the Casebook .....	18
C. Looking Ahead: The Big Picture .....	23
D. Water Measurement and Terminology .....	24
<b>Chapter 2. Riparianism.....</b>	<b>27</b>
A. The Basic Tenets of Riparianism .....	28
1. Defining Riparian Lands.....	28
2. Defining the Rights of Riparians and Resolving Conflicts .....	32
a. Type or Purpose of Use.....	32
b. Quantity or Manner of Use .....	33
c. Place of Use Restrictions .....	34
d. Municipal Use .....	36
e. Right to Use the Surface Without a Diversion and the Right to Fill .....	36
Notes and Questions.....	38
3. The Restatement of Torts on the Content of the Reasonable Use Standard.....	39
Notes and Questions .....	40
Michigan Citizens For Water Conservation v. Nestlé Waters North America Inc. ....	43
Notes and Questions .....	50
4. A Look Beyond the Common Law to “Regulated Riparianism” .....	51
Notes and Questions .....	53
B. Tracing the Common Law Development of Riparian Rights as a Study in Legal Instrumentalism .....	53
1. Pro-Developmental Policy as Law .....	55
Martin v. Bigelow .....	56
Notes and Questions .....	58
2. Water Quality Impacts and a More Comprehensive Form of Reasonable Use Riparianism.....	60

	Snow v. Parsons .....	60
	Notes and Questions .....	62
3.	The Demise of the On-Tract Limitation in Riparianism .....	64
	Notes and Questions .....	65
C.	Common Law Reasonable Use in the Twentieth Century .....	66
1.	Clashes of Incompatible Uses: What Rules Govern the Competition of Instream Uses and Offstream Consumptive Uses?.....	67
	Pyle v. Gilbert .....	67
	Notes and Questions .....	71
2.	The Extent of Each Riparian’s Access to and Surface Use of the Watercourse: Is Protection Against Congestion of the Commons an Incident of Riparianism?.....	73
	Thompson v. Enz .....	74
	Notes and Questions .....	81
3.	Artificial Waters and Manipulation of Levels and Flows: What Are the Resulting Rights? .....	83
	Anderson v. Bell.....	83
	Notes and Questions .....	88
	Glen Lake-Crystal River Watershed Riparians v. Glen Lake Association .....	93
	Notes and Questions .....	96
D.	Municipal Water Supply in Riparian Jurisdictions .....	97
1.	Using Eminent Domain to Secure Municipal Water Supplies .....	98
2.	Controlling Condemnation of Municipal Water Supplies .....	100
	Questions .....	101
	Hudson River Fisherman’s Association v. Williams .....	101
	Notes and Questions .....	104
3.	Interbasin Diversion to Provide Municipal Water Supply .....	105
	L & S Water Power, Inc. v. Piedmont Triad Regional Water Authority .....	107
	Notes and Questions .....	110
	State of North Carolina v. Hudson.....	112
	Notes and Questions .....	116
	City of Virginia Beach v. Champion International Corp. ....	118
	Notes and Questions .....	120
4.	Supporting Increased Municipal Supply from Army Corps of Engineers Projects.....	122
	Water Supply Act of 1958 .....	123
	Notes and Questions .....	124
	In re Mdl-1824 Tri-State Water Rights Litigation.....	125
	Notes and Questions .....	134
E.	Riparianism’s Regulated Present and Possible Future .....	136
1.	Evaluating the Benefits and Costs of Moving to a Permit System for Water Allocation in the East .....	137

Robert Abrams, Water Allocation by Comprehensive Permit Systems in the Eastern United States: Considering a Move Away From Orthodoxy .....	137
Notes and Questions .....	139
2. Model Regulated Riparianism Codes .....	140
The Regulated Riparian Model Water Code .....	141
Notes and Questions .....	152
3. Regulated Riparianism in Action .....	154
a. The Florida Experience .....	154
Harloff v. City of Sarasota .....	156
Marion County v. Greene .....	156
Notes and Questions .....	159
Slusher v. Martin County .....	160
Notes and Questions .....	162
b. The South Carolina Experience .....	163
Robert H. Abrams, Water Law Transitions .....	163
Looking at South Carolina’s Act 247 of 2010: A Critique of Unusual Provisions in the South Carolina Statute .....	163
Note .....	165
Jowers, et al, v. South Carolina Department of Health and Environmental Control .....	165
Notes and Questions .....	165
F. The Law of Drainage .....	166
Argyelan v. Haviland .....	168
Notes and Questions .....	171
<b>Chapter 3. Prior Appropriation .....</b>	<b>173</b>
A. Introduction to the Prior Appropriation System .....	174
How the System Physically Functions .....	179
In the Matter of a Certain Petition for Adjudication of Rights to the Use of Water .....	187
Notes and Questions on the Decree .....	188
B. Origins of Prior Appropriation: A Historical Sketch .....	193
1. Pure Appropriation States: The Colorado Doctrine .....	196
Coffin v. Left Hand Ditch Co. ....	199
Notes and Questions .....	203
2. Mixed Appropriation-Riparian States: The California Doctrine ...	205
Lux v. Haggin .....	207
Notes and Questions .....	211
C. Acquiring Appropriative Rights: The Elements .....	216
1. Unappropriated Water .....	217
2. Natural Stream .....	219
3. Diversion (Instream Flows) .....	220
Notes and Questions .....	223
4. Storage Rights .....	226
5. An Overview of Permit Systems .....	229
a. Administration of Permit Systems .....	230

	Arthur L. Littleworth & Eric L. Garner, California	
	Water II .....	230
	Notes and Questions.....	231
b.	The “Public Interest” Standard .....	233
	Shokal v. Dunn .....	233
	Notes and Questions.....	237
c.	“Area of Origin” Protection as a Public Interest Factor.....	240
	Notes and Questions.....	247
d.	Permit Systems and Preferences.....	249
e.	Permit Terms: Duration, Adjustment, Recapture .....	250
	Notes and Questions.....	253
6.	Reasonable and Beneficial Use.....	254
a.	Speculation.....	254
	Central Delta Water Agency v. State Water Resources	
	Control Board.....	254
	Notes and Questions.....	258
	A Challenge to the Conventional View on Permitting, the	
	Public Interest and Speculation.....	260
	Stephen F. Williams, The Requirement of Beneficial Use as	
	a Cause of Waste in Water Resource Development.....	260
	Notes and Questions.....	262
b.	Purpose of Use .....	263
	Empire Water & Power Co. v. Cascade Town Co. ....	264
	Notes and Questions.....	266
c.	Quantity and Efficiency of Use .....	268
i.	Legal and Regulatory Approaches to Eliminating	
	Waste .....	270
	State Department of Ecology v. Grimes .....	270
	Erickson v. Queen Valley Ranch Co. ....	275
	Notes and Questions.....	278
	Imperial Irrigation District: Alleged Waste and	
	Unreasonable Use of Water.....	281
	Notes and questions.....	287
ii.	Waste as a Constraint on New Appropriations .....	289
	Environmental Defense Fund v. East Bay Municipal	
	Utility District.....	289
	Notes and Questions.....	293
iii.	Voluntary Conservation by an Appropriator .....	294
	Salt River Valley Water Users’ Association v.	
	Kovacovich.....	295
	Notes and Questions.....	296
d.	“Salvaged” Versus “Developed” Water .....	299
	Southeastern Colorado Water Conservancy District v.	
	Shelton Farms, Inc. ....	299
	Notes and Questions.....	302
D.	Changes, Transfers, and Water Markets.....	304
1.	Water Markets.....	305

2.	Change Proceedings .....	308
3.	Protecting Third Parties .....	310
a.	The No-Injury Rule: Protecting Junior Appropriators.....	310
	Notes and Questions.....	315
b.	Exceptions to the No-Injury Rule .....	318
i.	Seepage Appropriators .....	318
ii.	Recycled Wastewater.....	319
	Arizona Public Service Co. v. Long.....	319
	Notes and Questions.....	326
iii.	Imported Water.....	327
	Stevens v. Oakdale Irrigation District .....	327
	Notes and Questions.....	330
c.	Protecting Environmental and Community Interests .....	331
i.	The Challenge .....	332
	National Academy of Sciences, Water Transfers in the	
	West: Efficiency, Equity, and the Environment .....	332
	Notes and Questions.....	335
ii.	State Approaches to the Challenge.....	336
	In the Matter of Howard Sleeper.....	338
	Notes and Questions.....	339
4.	Other Restrictions .....	341
a.	The Anti-Speculation Doctrine (Again).....	341
	High Plains A & M, LLC v. Southeastern Colorado Water	
	Conservancy District .....	342
	Notes and Questions.....	345
b.	Beneficial Use and Waste .....	347
c.	Paper Water Rights .....	347
i.	The Historical Use Doctrine.....	347
ii.	Applications for Water Rights.....	348
5.	Final Thoughts on Water Markets .....	350
E.	Loss of Appropriative Rights .....	353
1.	Abandonment and Forfeiture .....	353
	East Twin Lakes Ditches & Water Works, Inc. v. Board of	
	County Commissioners.....	353
	Notes and Questions .....	360
2.	Prescription.....	365
	People v. Shirokow .....	366
	Notes and Questions .....	372
F.	Practical Issues in Water Administration .....	374
1.	Inadequacy of Records.....	376
	Michael McIntyre, The Disparity Between State Water Rights	
	Records and Actual Water Use Patterns: "I Wonder Where	
	the Water Went?" .....	376
	Notes and Questions .....	378
2.	Adjudicating Water Rights .....	379

<b>Chapter 4. Legal Transitions .....</b>	<b>387</b>
A. Constitutional Takings Protections .....	388
Notes and Questions .....	397
B. Case Studies in Legal Change.....	401
1. Unexercised Riparian Rights.....	401
a. Abolishing of Unexercised Riparian Rights .....	401
Franco-American Charolaise Ltd. v. Oklahoma Water	
Resources Board.....	402
Notes and Questions.....	407
b. Restricting Unexercised Riparian Rights .....	410
In re Waters of Long Valley Creek Stream System .....	411
Notes and Questions.....	415
2. Pueblo Rights .....	416
State of New Mexico v. City of Las Vegas.....	418
Notes and Questions .....	427
3. Hawaiian Water Law and Judicial Takings .....	428
McBryde Sugar Co. v. Robinson .....	432
Notes and Questions .....	434
Notes and Questions .....	441
<b>Chapter 5. Groundwater.....</b>	<b>445</b>
A. Introduction .....	445
B. Hydrogeology and Informational Limits.....	450
1. Basic Principles of Hydrogeology .....	450
2. Informational Limits.....	461
C. The Principal Doctrines of Groundwater Law .....	468
1. What Is “Legal” Groundwater?.....	468
a. Groundwater Versus “Surface Water” .....	468
b. Categorical Exclusions from Groundwater .....	470
2. The Five Doctrines of Groundwater Law .....	472
a. Capture.....	473
Notes and Questions.....	475
b. The American Reasonable Use Rule .....	477
Martin v. City of Linden.....	477
Notes and Questions.....	481
c. Correlative Rights.....	483
Katz v. Walkinshaw.....	483
Notes and Questions.....	485
d. Restatement (Second) of Torts Reasonable Use .....	487
Cline v. American Aggregates Corp. ....	487
Notes and Questions.....	489
e. Prior Appropriation .....	490
Review Questions to Compare the Five Doctrines .....	493
D. Modern Groundwater Disputes: Issues, Tools and Techniques .....	494
1. The Emergence of Groundwater Management Legislation .....	495
Harloff v. City of Sarasota .....	496
Notes and Questions .....	500

2.	Does a Landowner Have a Property Interest in Groundwater <i>In Situ</i> ? Legislative Regulation and Redefinition of Common Law Property Rights in Groundwater .....	502
	Edwards Aquifer Authority v. Day .....	503
	Notes and Questions .....	508
	Bamford v. Upper Republican Natural Resources District .....	511
	Notes and Questions .....	513
3.	Groundwater-Surface Water Interconnections .....	517
	Clear Springs Foods, Inc. v. Spackman .....	519
	San Antonio, Los Pinos and Conejos River Acequia Preservation Ass'n v. Special Improvement Dist. No. 1 .....	524
	Notes and Questions .....	527
	Notes and Questions .....	535
4.	Well Interference Problems .....	539
	Prather v. Eisenmann .....	539
	Notes and Questions .....	542
5.	Inadequate Supplies of Groundwater (Groundwater Mining) .....	545
	Mathers v. Texaco, Inc. ....	546
	Notes and Questions .....	549
6.	Aquifer Storage And Recovery .....	560
	In re Application U-2.....	561
	Notes and Questions .....	564
	Jensen v. Department of Ecology .....	567
	Notes and Questions .....	569
7.	The Role of the Federal Government in Groundwater Use, Storage and Replenishment.....	573
8.	Groundwater Management in California .....	578
<b>Chapter 6. Public Rights in Water .....</b>		<b>591</b>
A.	Navigability (or Tidal) for Title.....	591
	PPL Montana, LLC v. Montana .....	595
	Notes and Questions .....	603
B.	The Federal Navigation Servitude.....	606
	United States v. Willow River Power Co. ....	608
	Notes and Questions .....	611
C.	State Law Navigability .....	615
	Arkansas v. McIlroy .....	616
	Bott v. Michigan Department of Natural Resources.....	622
	Notes and Questions .....	628
D.	Boundaries and Shifting Shorelines .....	631
1.	Determining the Shoreward Boundary Between Uplands and Beds .....	631
2.	The Effect on Parcel Boundaries of Physical Changes in the Shoreline .....	633
a.	General Rules for Changing Shorelines .....	633
	Joseph L. Sax, The Accretion/Avulsion Puzzle: Its Past Revealed, Its Future Proposed.....	634

	Notes and Questions.....	639
b.	Special Rules for Beach Renourishment.....	642
	Stop the Beach Renourishment, Inc. v. Florida Department of Environmental Protection et al.....	643
	Notes and Questions.....	648
3.	The Special Case of Interstate Boundaries.....	649
4.	Drawing Boundaries Between Submerged Privately-Owned Parcels.....	649
a.	Rivers and Streams.....	649
b.	Lakes and Ponds.....	650
E.	The Public Trust Doctrine.....	651
1.	Application to Submerged and Shorefront Land.....	652
	Joseph L. Sax, The Public Trust Doctrine in Natural Resource Law: Effective Judicial Intervention.....	652
	Notes and Questions.....	653
	Glass v. Goeckel.....	653
	Notes and Questions.....	658
	Marks v. Whitney.....	659
	Notes and Questions.....	665
2.	Application to Waters.....	667
	Joseph L. Sax, The Limits of Private Rights in Public Waters.....	667
	National Audubon Society v. Superior Court.....	669
	Notes and Questions.....	679
	Jowers v. South Carolina Department of Health and Environmental Control.....	681
	Notes and Questions.....	691
	Hawai'i: The Waiāhole Ditch Case.....	693
	In re Water Use Permit Applications for the Waiāhole Ditch.....	693
	Notes and Questions.....	699
F.	Environmental Limits on Water Projects.....	700
1.	The Endangered Species Act.....	700
a.	Listing Species.....	702
b.	Limits on Federal Actions—Section 7(a)(2).....	703
	Western Watersheds Project v. Matejko.....	705
	Notes and Questions.....	707
c.	“Takes” of Listed Species—Section 9.....	710
	Aransas Project v. Shaw.....	711
	Notes and Questions.....	718
d.	Habitat Conservation Plans and Incidental Take Permits— Section 10.....	719
e.	The Edwards Aquifer: A Case Study.....	720
f.	Constitutional Challenges to the ESA: Commerce Clause and “Takings” of Private Property.....	720
	Casitas Municipal Water District v. United States.....	722
	Casitas Municipal Water District v. United States.....	728
	Notes and Questions.....	734

2.	Section 404 of the Clean Water Act.....	739
	Notes and Questions .....	742
3.	National Environmental Policy Act .....	745
4.	Special Designations: Wild and Scenic Rivers.....	747
	a. Federal Law .....	747
	b. State Laws.....	749
5.	Hydropower Regulation—The FPA and FERC .....	749
	American Rivers, et al. v. Federal Energy Regulatory Commission .....	750
	Notes and Questions .....	756
	Wisconsin Public Service Corp. v. Federal Energy Regulatory Commission .....	758
	Notes and Questions .....	761
6.	Dam Removal.....	762
<b>Chapter 7. Water Organizations .....</b>		<b>769</b>
A.	Brief History and Overview of Water Organizations.....	769
B.	Legal Issues Raised by Local Water Organizations.....	777
	1. Formation and Control of Water Districts .....	777
	a. Mandatory Inclusion in Water Districts .....	777
	b. Voting Rights and the Control of Power .....	781
	Ball v. James.....	782
	Notes and Questions.....	787
	2. Supplying Municipal Water.....	791
	a. Obtaining Water Supplies.....	791
	Notes and Questions.....	792
	b. Water and Growth .....	793
	i. Water Moratoria .....	794
	Swanson v. Marin Municipal Water District .....	794
	Notes and Questions.....	797
	ii. Linking Water and Development.....	799
	Notes and Questions.....	806
	c. Privatization and Condemnation of Municipal Water Supplies .....	808
	Peter H. Gleick, Gary Wolff, Elizabeth L. Chalecki, Rachel Reyes, The New Economy of Water: The Risks and Benefits of Globalization and Privatization of Fresh Water .....	811
	Notes and Questions.....	813
3.	Who Owns the Water—The Water Organization or Its Members? .....	813
	Jenison v. Redfield.....	814
	East Jordan Irrigation Co. v. Morgan .....	816
	Notes and Questions .....	823
4.	Water Organizations in an Era of Markets .....	827
	a. Water Organization Authority over Transfers .....	830
	Notes and Questions.....	835

b.	Dividing the Proceeds .....	837
c.	Water Wheeling .....	838
	Notes and Questions .....	840
C.	The Federal Reclamation Program .....	842
1.	Federal Versus State Authority .....	847
	California v. United States .....	847
	Notes and Questions .....	854
	Strawberry Water Users Ass'n v. Bureau of Reclamation.....	858
	Notes and Questions .....	864
2.	Reforming the Reclamation Program.....	867
a.	Specific Reform Measures and Options.....	868
	Notes and Questions.....	870
b.	Legal Challenges to Reform .....	873
	Stockton East Water District v. United States.....	873
	Notes and Questions.....	885
D.	The U.S. Army Corps of Engineers .....	887
1.	A Brief History of the Army Corps of Engineers .....	887
	Notes and Questions .....	889
2.	Flood Control—Immunity and Takings Challenges .....	889
	Notes and Questions .....	893
E.	Water Organizations and Society.....	894
	Donald Worster, Rivers of Empire: Water, Aridity, and the Growth of the American West .....	895
	Notes and Questions .....	896
	<b>Chapter 8. Water as a Regional and Shared Resource.....</b>	<b>897</b>
A.	Interstate Allocation of Water .....	898
1.	Private Interstate Water Litigation .....	898
	Bean v. Morris .....	898
	Notes and Questions .....	900
2.	Equitable Apportionment .....	902
a.	Equitable Apportionment Standards .....	902
	Colorado v. New Mexico (I) .....	907
	Colorado v. New Mexico (II) .....	911
	Notes and Questions.....	915
	<i>Problem Exercise:</i> Florida v. Georgia .....	918
	Notes and Questions.....	922
b.	Interstate Groundwater in the Supreme Court.....	925
	<i>Problem Exercise:</i> Mississippi v. Tennessee.....	926
	Notes and Questions.....	930
c.	Finality in Equitable Apportionment Decrees.....	930
3.	Interstate Compacts .....	931
a.	Interstate Water Compacts and Groundwater .....	936
b.	Judicial Enforcement of Compacts .....	938
	Kansas v. Nebraska .....	944
	Notes and Questions.....	949
c.	The Delaware River Basin Compact .....	952

	Notes and Questions.....	956
4.	Congressional Apportionment .....	958
a.	Direct Congressional Apportionment .....	958
b.	Indirect Congressional Apportionment .....	961
c.	Managing the Waters of the Mighty Missouri River .....	962
B.	State Efforts to Localize Water .....	967
1.	Export Restrictions.....	967
	Sporhase v. Nebraska Ex Rel. Douglas.....	969
	Notes and Questions .....	974
2.	Compacts and Water Exports .....	978
	Tarrant Regional Water District v. Herrmann .....	978
	Notes and Questions .....	985
C.	International Waters.....	986
1.	United States-Mexican Relations .....	991
	Notes and Questions .....	992
2.	United States-Canadian Relations.....	993
a.	The Boundary Waters Treaty of 1909 .....	993
b.	Great Lakes Diversion Issues .....	995
	Problems.....	999
D.	The Colorado River: A Case Study .....	1000
1.	Historical Background .....	1001
	Colorado River Compact .....	1003
	Notes and Questions .....	1005
	Arizona v. California .....	1009
	Notes and Questions .....	1014
	Notes and Questions .....	1018
2.	Current Issues .....	1019
a.	The Looming Water Shortage .....	1019
	Notes and Questions.....	1020
b.	Water Transfers.....	1025
	Notes and Questions.....	1028
c.	The Colorado River Delta's Ecological Needs .....	1030
	A. Dan Tarlock, Mexico and the United States Assume a Legal Duty to Provide Colorado River Delta Restoration Flows: An Important International Environmental and Water Law Precedent .....	1031
	Notes and Questions.....	1037
	<b>Chapter 9. Federal and Indian Water Rights .....</b>	<b>1039</b>
A.	Federal Water Rights Based on Federal Law .....	1039
1.	The Basic Nature of Federal Reserved Water Rights .....	1043
	Winters v. United States.....	1043
	Notes and Questions .....	1046
	Arizona v. California .....	1048
	Notes and Questions .....	1050
	Cappaert v. United States .....	1051
	Notes and Questions .....	1055

	United States v. New Mexico.....	1058
	Notes and Questions .....	1064
2.	Non-Indian Reserved Rights.....	1067
	a. National Forests .....	1067
	Notes and Questions.....	1068
	b. National Parks.....	1068
	c. National Monuments.....	1069
	d. National Recreation and National Conservation Areas.....	1069
	e. National Wildlife Refuges .....	1070
	f. Wilderness Areas .....	1072
	g. Wild and Scenic Rivers.....	1073
	h. Bureau of Land Management (BLM) Public Lands .....	1074
	i. Military Reservations .....	1076
3.	Quantification of Federal Reserved Water Rights: Standards and Procedures .....	1080
	Notes and Questions on the McCarran Amendment .....	1086
4.	Indian Reserved Rights.....	1096
	In re General Adjudication of Big Horn River System .....	1097
	Notes and Questions .....	1104
	a. Changes of Use and Transfers of Indian Water Rights .....	1113
	Notes and Questions.....	1114
	b. Indian Rights, the Federal Reclamation Program, Res Judicata, and Conflicts Among Federal Claims .....	1118
	c. Further Applications of Winters, Including the Special Problem of Indian Allotments.....	1121
	Colville Confederated Tribes v. Walton .....	1122
	Notes and Questions.....	1127
	Notes and Questions.....	1133
	d. The Cutting Edge: Modern Efforts to Settle Indian Water Rights .....	1136
B.	Beyond Reserved Rights: Other Means to Protect Federal Interests in Water .....	1140
	1. Water Rights Based on State Law .....	1140
	State v. Morros .....	1142
	Notes and Questions .....	1144
	2. Federal Non-Reserved Rights.....	1147
	3. Controlling Water by Regulating Access to Federal Land .....	1149
	<b>Chapter 10. Water Quality.....</b>	<b>1155</b>
A.	Surface Water Pollution.....	1156
B.	The Common Law Approach .....	1158
	Notes and Questions .....	1159
C.	The Federal Clean Water Act.....	1161
	Notes and Questions .....	1163
	1. Technology-Based Effluent Limitations.....	1165
	Notes and Questions .....	1169

**TABLE OF CONTENTS**

**xxix**

---

2.	Nonpoint Pollution .....	1170
	Notes and Questions .....	1172
3.	Hydrologic Modifications and NPDES Permits.....	1174
	Friends of the Everglades v. South Florida Water Management District.....	1177
	Notes and Questions .....	1181
4.	Water Quality Standards.....	1185
	Notes and Questions .....	1188
	Ford Motor Co. v. Environmental Protection Agency .....	1190
	Notes and Questions .....	1192
	City of Thornton v. Bijou Irrigation Co.....	1194
	Notes and Questions .....	1199
5.	Section 401 Certifications .....	1201
	PUD No. 1 v. Washington Department of Ecology.....	1201
	Notes and Questions .....	1207
D.	Interstate Pollution Issues .....	1208
	<b>Appendix. Glossary of Common Water Resource Terms .....</b>	<b>1211</b>
	<b>INDEX.....</b>	<b>1217</b>