

Appendix J

Index

Accidents	
existing.....	<i>See</i> collisions
Acquisitions	3-97
cumulative effects	3-425
Adaptation.....	3-435
Adjacent alignment	
description.....	2-35
Adopted plans	3-123
Aesthetics	
cumulative effects	3-441
Air quality	
cumulative effects	3-429
during construction	3-283
long term	3-277
mitigation	3-284
Airspace easement	3-118
Alignments	
no longer considered	2-52
transit options.....	2-34
two-way Washington	2-35
Washington-Broadway couplet...	2-35
Alternative 2	
community effects.....	3-159, 3-162
economic effects	3-128
ecosystems effects.....	3-34
hazardous materials risk.....	3-407
noise effects	3-293
property acquisitions.....	3-100, 3-101
traffic.....	3-26, 3-32, 3-34, 3-41, 3-91,
	3-92, 3-128, 3-129, 3-160, 3-163
visual effects	3-260
water quality effects	3-386
wetlands effects.....	3-367
Alternative 3	
hazardous materials risk	3-408
noise effects	3-295
property acquisitions.....	3-101
visual effects	3-261
water quality effects.....	3-387
wetlands effects	3-369
Alternative 4	
community effects	3-164
economic effects	3-129
ecosystems effects	3-346
hazardous materials risk	3-409
noise effects	3-297
safety and security	3-9
visual effects	3-263
water quality effects.....	3-388
wetlands effects	3-370
Alternative 5	
aquatic habitats	3-332
community effects	3-165
construction effects.....	3-350
economic effects	3-130
ecosystems effects	3-348
noise effects	3-298
property acquisitions.....	3-103, 3-104
safety and security	3-93
visual effects	3-263
water quality effects.....	3-389
wetlands effects	3-371
Alternatives	
description	2-1
early development.....	2-47
Apple Tree	3-197
Archaeology.....	3-211
cumulative effects	3-440
potential mitigation.....	3-252
sites	3-228, 3-240

Area of Potential Effect (APE)	3-213
Aviation	
construction safety	3-95
crossing effects.....	3-93
existing conditions	3-89
potential mitigation	3-96
Barracks Hospital.....	3-239, 5-29
Bedrock	3-396
Bicycle	
access	1-5
existing conditions	3-11
improvements.....	2-23
trails	3-197
Bridge	
construction methods	2-42
soils beneath.....	3-396
Bull trout	3-340
Burlington Northern Santa Fe Railway	3-118
Burnt Bridge Creek	
greenway	3-197
habitat.....	3-334
visual effects	3-259
water quality effects	3-385
water quality mitigation	3-394
watershed	3-383
wetlands	3-362
Bus rapid transit	
description.....	2-29
ecosystems effects.....	3-349
hazardous material	3-416
Capital costs	
background.....	4-1
transit	4-4
Carbon monoxide	
existing conditions	3-273
intersection analysis	3-281
Chinook salmon	3-340
Chum salmon.....	3-340
Clark Public Utilities	3-189
Clean Water Act	3-355
Cleanup.....	3-420
Clearance requirements	3-89
Climate change mitigation.....	3-435
Coastal cutthroat trout	3-340
Coho salmon	3-340
Collisions existing.....	3-87
Columbia River	
habitat	3-333
visual effects	3-257
water quality mitigation.....	3-394
watershed	3-382
Columbia Slough	
habitat	3-33
visual effects	3-257
water quality effects.....	3-385
water quality mitigation.....	3-393
watershed	3-380
Congestion	1-4
existing on I-5	3-8
No-Build	3-19, 3-37
Construction	
aquatic effects	3-350
bridge	2-42
community effects	3-177
cumulative effects	3-445
demand management	2-41
development of alternatives	2-47
economic effects	3-146
effects on air quality	3-283
energy use	3-324
hazardous materials	3-413
highway	2-44
land use effects	3-146
methods and duration.....	2-42

noise	3-314
noise mitigation.....	3-317
parks and recreation effects.....	3-208
public services effects	3-193
temporary easements.....	3-117
transit	2-45
vibration.....	3-315
visual effects during	3-271
water quality effects	3-391
 Consulting parties	3-212
 CRC	
Task force.....	1-7
Vision and values	1-7
Freight.....	1-4
 Criteria pollutants.....	3-273
 Crossing	
vertical clearance	3-88
 Crossing options	
photo simulations	3-265
seismic improvements.....	3-401
 C-TRAN	
existing network.....	3-5
funding sources	4-24
maintenance base hazardous materials	3-416
 Cumulative effects	3-421
 <i>de minimis</i> impact	5-2, 5-43, 5-47
 Defense Base Closure and Realignment Commission.....	3-119
 Delta Park	3-197
 Demographics	3-149
 Discovery Middle School	3-189
 Displacements	3-97
cumulative effects	3-425
effects on EJ populations	3-159
 Dual-loop design.....	2-24
 Due diligence	3-405
 Earthquakes	
regional conditions	3-395
vulnerability of bridge	3-397
 Economics	
cumulative effects.....	3-426
regional conditions	3-126
 Ecosystems	
cumulative effects.....	3-441
Endangered Species Act	3-337
existing conditions.....	3-332
potential mitigation.....	3-352
 Efficient operations	
description	2-39
noise effects	3-296
 Electric fields	
cumulative effects	3-437
 Emergency services	3-183
 Energy use	
comparison table.....	3-319
cumulative effects	3-437
 Environmental justice	
cumulative effects	3-427
 Erosion.....	3-401
 Esther Short Park	3-197
 Evaluation framework	2-49
 Expo Road Wetland.....	3-359
 Finance	
implementation	4-42
 Financing	
capital finance plans	4-28
 Fire Station 86	3-193
 Fish	
construction effects	3-350
 Fort Vancouver Village	3-230

Fort Vancouver	3-227	I-5	
traffic noise	3-304	construction traffic.....	3-76
visual effects	3-259	managed lanes.....	3-45
Fourth Plain interchange		peak traffic demand	3-7
design	2-28	I-5 bridge	
Geology		historic effects to	3-239
cumulative effects	3-442	Impervious surface	
Groundwater	3-397	comparison of alternatives.....	3-385
Habitats		Increased operations	
construction effects	3-351	description	2-39
existing.....	3-332, 3-334	noise effects	3-299
Lamprey	3-340	Induced growth	3-134
Habitats		Jurisdictional waters	
cumulative effects	3-441	cumulative effects.....	3-443
Hayden Island		Kiggins Bowl	
land use plan	3-125	park	3-197
transit alignments	2-35	wetlands	3-362
visual effects	3-270	Kiggins Bowl terminus	
Hayden Island interchange		transit oriented development.....	3-143
construction traffic effects	3-77	Kiggins house	3-239
designs	2-24	Land use	
Hazardous Materials		cumulative effects.....	3-427
cleanup	3-420	existing.....	3-121
cumulative effects	3-443	plan consistency.....	3-133
mitigation	3-419	project effects	3-127
transit maintenance bases.....	3-416	Landslides	3-401
Heritage Apple Tree.....	5-28	Leach Park	3-197
Highway		Left-loop design.....	2-24
construction staging	2-44	Leverich Park.....	3-197
existing conditions	3-6	Light rail	
Historic properties.....	3-225	description	2-30
Historic resources.....	3-211, 5-3	ecosystems effects	3-349
cumulative effects	3-440	effects to utilities	3-190
HOV lanes.....	3-45	hazardous material.....	3-416
Hydrology	3-377	vibration.....	3-292
cumulative effects	3-442		
effects of climate change.....	3-437		

Lincoln terminus	
transit oriented development.....	3-143
Liquefaction	3-396
Low-income populations	3-151
Magnetic fields	
cumulative effects	3-437
Marine traffic	
construction safety	3-95
Marshall Park	3-197
Metro.....	3-125
Mill Plain interchange	
design	2-28
Minority populations.....	3-151
Mitigation	
climate change	3-435
water quality.....	3-392
Mobile source air toxics	
comparison table	3-278
National Historic Preservation Act (NHPA) of 1966 (as amended) .	3-211
Native American	
archaeology sites.....	3-228, 3-240
Navigation	
construction safety	3-95
crossing effects.....	3-93
effects of climate change.....	3-437
potential mitigation	3-96
safety	3-87
Neighborhood plans	3-123, 3-151
Neighborhoods	
cumulative effects	3-428
No-Build	
community effects	3-159
economic effects	3-127
effects to ecosystems	3-342
hazardous materials risk	3-406
noise effects	3-293
safety and security	3-91
seismic hazards	3-401
traffic performance	3-19
water quality effects.....	3-385
Noise	
construction mitigation	3-317
criteria for impacts.....	3-289
cumulative effects.....	3-439
existing.....	3-293
North Portland Harbor	
habitat	3-333
watershed	3-382
ODOT Permit Center.....	3-189
Officer's Row.....	3-239
Offset alignment	
description	2-35
Old Apple Tree	
Park.....	3-197, 3-239, 5-28
Operations and maintenance	
costs	4-37
energy use	3-322
finance scenarios.....	4-36
transit cost.....	3-18
Options	
description	2-1
TDM/TSM	2-41
tolling.....	2-40
transit alignments.....	2-34
transit operations.....	2-39
Oregon Slough	
<i>See North Portland Harbor</i>	
Park and recreation resources	5-3
Parks	3-195

Parks and recreation	
cumulative effects	3-441
Peak oil	3-318
cumulative effects	3-437
Peak traffic	
existing patterns	3-7
Pearson Field	
historic resources	3-228
Pedestrian	
access	1-5
existing conditions	3-11
improvements.....	2-23
trails	3-197
Performance	
existing transit.....	3-18
Petroleum demand	3-317
Plan consistency.....	3-133
Ports	3-127
Potential Mitigation	
air quality effects.....	3-284
Columbia Slough water quality.	3-393
community effects.....	3-177
construction energy use.....	3-324
cultural resources	3-251
for ecosystems effects	3-352
for visual effects.....	3-272
geology and soils.....	3-402
hazardous materials.....	3-419
land use and economics	3-147
operations energy use.....	3-32
property acquisitions.....	3-118
safety and security.....	3-96
traffic noise	3-315
transit noise	3-316
wetlands	3-374
Project Purpose	1-1
Property acquisitions.....	3-97
Public services	3-181
Public services	
cumulative effects	3-429
Purpose and Need	1-3
Real Estate Management Plan	3-118
Renaissance Trail.....	3-197
Replacement crossing	
community effects	3-167
photo simulation	3-265
property acquisitions.....	3-104
seismic improvements	3-401
upstream.....	2-52
Riparian habitats	3-332
River crossing	
transit performance	3-43
River navigation	
existing conditions.....	3-87
Ruby Junction	3-416
SAFETEA-LU	1-5
Safety	
aviation	3-89
need.....	1-5
river navigation.....	3-87
stacked transit/highway bridge ..	3-194
Salmon	3-340
Schmeer Slough	3-359
Sea lions.....	3-340
Section 106	3-211
Section 6(f)	3-199
Seismic	
assessment of bridge	3-397
regional conditions	3-395
retrofits.....	2-22
Sockeye salmon	3-340

Soils	
cumulative effects	3-442
Species	
construction effects	3-352
cumulative effects	3-441
nuisance.....	3-341
protected.....	3-337
Sprawl	3-134
SR 14 interchange	
archaeological effects to	3-241
construction traffic effects	3-78
design	2-24
SR 500 interchange	
construction traffic effects	3-79
design	2-28
visual effects	3-268
wetlands	3-361
Stacked transit/highway bridge	
description.....	2-19
effects to public services	3-189
pedestrian and bicycle effects	3-50
photo simulation.....	3-266
water quality effects	3-389
Steelhead trout	3-340
Stormwater	
existing conditions	3-377
Sturgeon	3-340
Subsurface easements	3-111
Supplemental crossing	
community effects.....	3-167
description.....	2-2
photo simulation.....	3-267
property acquisitions.....	3-104
seismic improvements.....	3-401
SW Washington Medical Center... 3-191	
Task Force.....	1-7
Taxes	
existing.....	3-127
Terminus options	
community effects	3-172
hazardous sites	3-412
historic resource effects	3-244
Terrestrial habitats	3-334
Throughput	
existing on I-5	3-8
No-Build	3-21, 3-38
Tolling	
bond proceeds	4-21
economic effects	3-145
environmental justice effects	3-176
options	2-40
potential mitigation.....	3-179
Traffic	
Alternative 2	3-26, 3-32, 3-34,
3-41, 3-91, 3-92, 3-128, 3-129, 3-160,	
3-163	
existing conditions.....	3-6
noise mitigation	3-315
Trails.....	3-197
Transit	
alignments.....	2-34
alignments no longer considered .	2-52
availability	1-4
construction methods	2-45
construction water quality	
effects.....	3-391
land use effects	3-139
long-term noise effects	3-307
maintenance base hazardous	
materials.....	3-416
noise mitigation	3-316
operations and maintenance	
costs	4-37
operations cost	3-18
operations options.....	2-39
property acquisitions.....	3-110
water quality effects.....	3-390
Transit alignments	
public services effects.....	3-190
visual effects	3-268
Transit-oriented development.....	3-142

Transportation demand management	2-41	Vegetation construction effects	3-352
Transportation system management	2-41	Vibration criteria for impacts	3-292
Transportation economic effects	3-131, 3-137	cumulative effects	3-439
Tribal consultation	3-218	during construction	3-315
Tribal history.....	3-228	long-term effects	3-307
TriMet		Vision	
existing service.....	3-6	CRC	1-7
funding sources	4-27	Visual effects	
maintenance base hazardous materials	3-416	cumulative	3-441
Uniform Relocation Assistance and Real Property Acquisition Policies Act of 1970 (as amended)	3-118	during construction	3-271
Upstream replacement crossing	2-52	VNHR Historic District	3-227
US General Services Administration	3-119	Walker Slough	3-359
Utilities.....	3-181	Water quality	3-377
cumulative effects	3-429	construction effects	3-391
Vacancy rates.....	3-97	cumulative effects	3-442
Vancouver Academy of Arts and Academics.....	3-191	mitigation.....	3-392
Vancouver National Historic Reserve.....	3-227, 5-12, 5-17, 5-30, 5-60	transit effects.....	3-390
Vancouver		Waterfront Park	3-197
plans and visions	3-125	Watersheds.....	3-378
visual effects	3-258	Western Federal Lands	3-189
Vanport Wetlands	3-359	Wetlands	
		cumulative effects	3-443
		existing conditions	3-357
		existing habitats	3-336
		potential mitigation	3-374
		project effects	3-363
		summary table.....	3-358
		temporary effects	3-373
		Wildlife	
		construction effects	3-352