

**Alpine Satellite Development Plan
Draft Environmental Impact Statement**

Index

Affected Environment

Section 3.0 is devoted to describing the Affected Environment.

Aquatic Environment

See Water Resources; Surface Water Quality.

See also Section 4H, Other Impact Considerations.

Atmospheric Environment

See Climate and Meteorology; Air Quality; Noise.

See also Section 4H, Other Impact Considerations.

Air Quality

Comments/Responses to Draft EIS: 1371

Description of Affected Environment: 194

Effects

Summary: s-13

Effects of Alternative A: 497

Effects of Alternative B: 697

Effects of Sub-Alternative C-1: 793

Effects of Sub-Alternative C-2: 883

Effects of Alternative D: 948

Effects of Preferred Alternative (Alternative F): 1098

Cumulative Effects: 1260

See also Section 4H, Other Impact Considerations.

Authorities

Lead Agency: 2

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Other Agencies: 5

See also Appendix C, Federal and State Laws, Regulations and Policies Applicable to the ASDP.

See also Section 4H, Other Impact Considerations.

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ANILCA (Alaska National Interest Lands Conservation Action)

See Appendix B, ANILCA Section 810 Analysis of Subsistence Impacts.

Birds

Comments/Responses to Draft EIS: 1393
Description of Affected Environment: 233
Effects

Summary: s-16
Effects of Alternative A: 544
Effects of Alternative B: 721
Effects of Sub-Alternative C-1: 817
Effects of Sub-Alternative C-2: 893
Effects of Alternative D: 977
Effects of Preferred Alternative (Alternative F): 1134
Cumulative Effects: 1268

See also Endangered and Threatened Species for information on the spectacled eider and Steller's eider.

See also Appendix E, BLM Sensitive Species List for Alaska.

See also Section 4H, Other Impact Considerations.

Biological Resources

See Terrestrial Vegetation and Wetlands; Essential Fish Habitat; Fish; Birds; Mammals; Threatened and Endangered Species.

See also Section 4H, Other Impact Considerations.

Bowhead Whale

See Threatened and Endangered Species.

See also Section 4H, Other Impact Considerations.

Climate and Meteorology

Comments/Responses to Draft EIS: 1435
Description of Affected Environment: 188
Effects

Summary: s-12
Effects of Alternative A: 496
Effects of Alternative B: 696
Effects of Sub-Alternative C-1: 792
Effects of Sub-Alternative C-2: 882
Effects of Alternative D: 947
Effects of Preferred Alternative (Alternative F): 1097
Cumulative Effects: 1260

See also Section 4H, Other Impact Considerations.

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Comments/Responses to Draft EIS: 1436

Description of Affected Environment: 329

Effects

Summary: s-27

Effects of Alternative A: 646

Effects of Alternative B: 758

Effects of Sub-Alternative C-1: 854

Effects of Sub-Alternative C-2: 916

Effects of Alternative D: 1017

Effects of Preferred Alternative (Alternative F): 1213

Cumulative Effects: 1328

See also Section 4H, Other Impact Considerations.

Endangered and Threatened Species

Comments/Responses to Draft EIS: 1446

Description of Affected Environment: 276

Effects

Summary: s-20

Effects of Alternative A: 599

Effects of Alternative B: 745

Effects of Sub-Alternative C-1: 841

Effects of Sub-Alternative C-2: 909

Effects of Alternative D: 1003

Effects of Preferred Alternative (Alternative F): 1177

Cumulative Effects: 1283

See also Appendix E, BLM Sensitive Species List for Alaska.

See also Section 4H, Other Impact Considerations.

Environmental Justice

Comments/Responses to Draft EIS: 1454

Description of Affected Environment: 327

Effects

Summary: s-26

Effects of Alternative A: 639

Effects of Alternative B: 757

Effects of Sub-Alternative C-1: 854

Effects of Sub-Alternative C-2: 916

Effects of Alternative D: 1017

Effects of Preferred Alternative (Alternative F): 1206

Cumulative Effects: 1324

See also Section 4H, Other Impact Considerations.

Essential Fish Habitat

Description of Affected Environment: 218

Effects

Summary: s-15

Effects of Alternative A: 542

Effects of Alternative B: 720

Effects of Sub-Alternative C-1: 817

Effects of Sub-Alternative C-2: 893

Effects of Alternative D: 976

Effects of Preferred Alternative (Alternative F): 1132

Cumulative Effects: 1289

See also Appendix N, Essential Fish Habitat Assessment for the ASDP.

Fish

Comments/Responses to Draft EIS: 1474

Description of Affected Environment: 213

Effects

Summary: s-15

Effects of Alternative A: 529

Effects of Alternative B: 715

Effects of Sub-Alternative C-1: 810

Effects of Sub-Alternative C-2: 890

Effects of Alternative D: 971

Effects of Preferred Alternative (Alternative F): 1119

Cumulative Effects: 1265

See also Section 4H, Other Impact Considerations.

Geology

Comments/Responses to Draft EIS: 1491

Description of Affected Environment: 155

Effects

Summary: s-7

Effects of Alternative A: 415

Effects of Alternative B: 676

Effects of Sub-Alternative C-1: 774

Effects of Sub-Alternative C-2: 868

Effects of Alternative D: 926

Effects of Preferred Alternative (Alternative F): 1035

Cumulative Effects: 1255

See also Section 4H, Other Impact Considerations.

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Existing: 152

See also Oil, Seawater, and Hazardous Materials Spills.

Land Uses and Coastal Management

Comments/Responses to Draft EIS: 1500

Description of Affected Environment: 345

Effects

Summary: s-28

Effects of Alternative A: 649

Effects of Alternative B: 759

Effects of Sub-Alternative C-1: 855

Effects of Sub-Alternative C-2: 917

Effects of Alternative D: 1018

Effects of Preferred Alternative (Alternative F): 1214

Cumulative Effects: 1329

See also Section 4H, Other Impact Considerations.

Laws and Regulations

See Appendix C, Federal and State Laws, Regulations and Policies Applicable to the ASDP.

Mammals

Comments/Responses to Draft EIS: 1502

Description of Affected Environment: 259

Effects

Summary: s-17

Effects of Alternative A: 571

Effects of Alternative B: 736

Effects of Sub-Alternative C-1: 833

Effects of Sub-Alternative C-2: 903

Effects of Alternative D: 995

Effects of Preferred Alternative (Alternative F): 1153

Cumulative Effects: 1274

See Endangered and Threatened Species for information on the Bowhead Whale.

See also Section 4H, Other Impact Considerations.

Mitigation Measures

Comments/Responses to Draft EIS: 1517

Existing and Potential: 368

See also Sections 4A through 4D, and 4F for potential mitigation measures by resource area.

See also Appendix D, Northeast National Petroleum Reserve-Alaska Integrated Activity Plan/Environmental Impact Statement – Record of Decision, for descriptions of existing stipulations.

National Petroleum Reserve-Alaska

See Appendix D, Northeast National Petroleum Reserve-Alaska Integrated Activity Plan/Environmental Impact Statement – Record of Decision, for descriptions of existing stipulations.

Noise

Comments/Responses to Draft EIS: 1526

Description of Affected Environment: 197

Effects

Summary: s-13

Effects of Alternative A: 503

Effects of Alternative B: 698

Effects of Sub-Alternative C-1: 794

Effects of Sub-Alternative C-2: 884

Effects of Alternative D: 950

Effects of Preferred Alternative (Alternative F): 1103

Cumulative Effects: 1262

See also Section 4H, Other Impact Considerations.

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Mitigation Measures: 412

Cumulative Effects: 1239

See also Section 4H, Other Impact Considerations.

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Description of Affected Environment: 160

Effects

Summary: s-9

Effects of Alternative A: 425

Effects of Alternative B: 681

Effects of Sub-Alternative C-1: 779

Effects of Sub-Alternative C-2: 871

Effects of Alternative D: 932

Effects of Preferred Alternative (Alternative F): 1038

Cumulative Effects: 1257

See also Section 4H, Other Impact Considerations.

Physical Characteristics

See Physiography; Geology; Soils and Permafrost; Sand and Gravel; Paleontological Resources; Water Resources; Surface Water Quality; Climate and Meteorology; Air Quality; Noise.

See also Section 4H, Other Impact Considerations.

Physiography

Comments/Responses to Draft EIS: 1546

Description of Affected Environment: 154

Effects

Summary: s-6

Effects of Alternative A: 413

Effects of Alternative B: 675

Effects of Sub-Alternative C-1: 773

Effects of Sub-Alternative C-2: 867

Effects of Alternative D: 925

Effects of Preferred Alternative (Alternative F): 1034

Cumulative Effects: 1254

See also Section 4H, Other Impact Considerations.

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Purpose and Need

Section 1.1 is devoted to describing the Purpose and Need of the Proposed Action.

Recreation Resources

Comments/Responses to Draft EIS: 1567

Description of Affected Environment: 352

Effects

Summary: s-29

Effects of Alternative A: 662

Effects of Alternative B: 766

Effects of Sub-Alternative C-1: 862

Effects of Sub-Alternative C-2: 920

Effects of Alternative D: 1025

Effects of Preferred Alternative (Alternative F): 1222

Cumulative Effects: 1331

See also Section 4H, Other Impact Considerations.

Regional Economy

Comments/Responses to Draft EIS: 1568

Description of Affected Environment: 296

Effects

Summary: s-24

Effects of Alternative A: 620

Effects of Alternative B: 753

Effects of Sub-Alternative C-1: 850

Effects of Sub-Alternative C-2: 913

Effects of Alternative D: 1013

Effects of Preferred Alternative (Alternative F): 1191

Cumulative Effects: 1293

See also Section 4H, Other Impact Considerations.

Sand and Gravel

Comments/Responses to Draft EIS: 1581

Description of Affected Environment: 159

Effects

Summary: s-9

Effects of Alternative A: 423

Effects of Alternative B: 680

Effects of Sub-Alternative C-1: 778

Effects of Sub-Alternative C-2: 871

Effects of Alternative D: 931

Effects of Preferred Alternative (Alternative F): 1038

Cumulative Effects: 1256

See also Section 4H, Other Impact Considerations.

Sensitive Species

See Endangered and Threatened Species.

See also Appendix E – BLM Sensitive Species List for Alaska.

Social Systems

See Socio-Cultural Characteristics; Regional Economy; Subsistence; Environmental Justice; Cultural Resources; Land-Uses and Coastal Management; Recreation Resources; Visual Resources; Transportation.

Socio-Cultural Resources

Comments/Responses to Draft EIS: 1583

Description of Affected Environment: 287

Effects

Summary: s-23

Effects of Alternative A: 614

Effects of Alternative B: 752

Effects of Sub-Alternative C-1: 849

Effects of Sub-Alternative C-2: 912

Effects of Alternative D: 1012

Effects of Preferred Alternative (Alternative F): 1186

Cumulative Effects: 1290

See also Section 4H, Other Impact Considerations.

Soils and Permafrost

Comments/Responses to Draft EIS: 1587 (Soils), 1546 (Permafrost)

Description of Affected Environment: 157

Effects

Summary: s-7

Effects of Alternative A: 416

Effects of Alternative B: 677

Effects of Sub-Alternative C-1: 775

Effects of Sub-Alternative C-2: 869

Effects of Alternative D: 928

Effects of Preferred Alternative (Alternative F): 1036

Cumulative Effects: 1255

See also Section 4H, Other Impact Considerations.

Spectacled Eider

See Threatened and Endangered Species.

See also Section 4H, Other Impact Considerations.

Steller's Eider

See Threatened and Endangered Species.

See also Section 4H, Other Impact Considerations.

Subsistence

Comments/Responses to Draft EIS: 1587

Description of Affected Environment: 300

Effects

Summary: s-25

Effects of Alternative A: 629

Effects of Alternative B: 754

Effects of Sub-Alternative C-1: 851

Effects of Sub-Alternative C-2: 913

Effects of Alternative D: 1014

Effects of Preferred Alternative (Alternative F): 1199

Cumulative Effects: 1294

See also Appendix B, ANILCA Section 810 Analysis of Subsistence Impacts.

See also Appendix A, Public Testimony/Traditional Knowledge by Resource.

See also Section 4H, Other Impact Considerations.

Surface Water Quality

Comments/Responses to Draft EIS: 1613

Description of Affected Environment: 184

Effects

Summary: s-11

Effects of Alternative A: 482

Effects of Alternative B: 694

Effects of Sub-Alternative C-1: 791

Effects of Sub-Alternative C-2: 881

Effects of Alternative D: 946

Effects of Preferred Alternative (Alternative F): 1086

Cumulative Effects: 1258

See also Section 4H, Other Impact Considerations.

Terrestrial Environment

See Physiography; Geology; Soils and Permafrost; Sand and Gravel; Paleontological Resources.

See also Section 4H, Other Impact Considerations.

Terrestrial Vegetation and Wetlands

Comments/Responses to Draft EIS: 1622

Description of Affected Environment: 202

Effects

Summary: s-13

Effects of Alternative A: 506

Effects of Alternative B: 699

Effects of Sub-Alternative C-1: 795

Effects of Sub-Alternative C-2: 885

Effects of Alternative D: 951

Effects of Preferred Alternative (Alternative F): 1106

Cumulative Effects: 1263

See also Section 4H, Other Impact Considerations.

Traditional Knowledge

See Appendix A, Public Testimony/Traditional Knowledge by Resource

Transportation

Comments/Responses to Draft EIS: 1619

Description of Affected Environment: 360

Effects

Summary: s-30

Effects of Alternative A: 669

Effects of Alternative B: 768

Effects of Sub-Alternative C-1: 864

Effects of Sub-Alternative C-2: 922

Effects of Alternative D: 1027

Effects of Preferred Alternative (Alternative F): 1228

Cumulative Effects: 1332

See also Section 4H, Other Impact Considerations.

Visual Resources

Comments/Responses to Draft EIS: 1628

Description of Affected Environment: 356

Effects

Summary: s-29

Effects of Alternative A: 664

Effects of Alternative B: 767

Effects of Sub-Alternative C-1: 863

Effects of Sub-Alternative C-2: 921

Effects of Alternative D: 1026

Effects of Preferred Alternative (Alternative F): 1224

Cumulative Effects: 1331

See also Section 4H, Other Impact Considerations.

Water Resources

Comments/Responses to Draft EIS: 1632

Description of Affected Environment: 161

Effects

Summary: s-10

Effects of Alternative A: 426

Effects of Alternative B: 682

Effects of Sub-Alternative C-1: 780

Effects of Sub-Alternative C-2: 872

Effects of Alternative D: 934

Effects of Preferred Alternative (Alternative F): 1040

Cumulative Effects: 1257

See also Section 4H, Other Impact Considerations.