

CHAPTER 8

INDEX

A

Access road ES-23, 47, 51, 73, 80, 81, 109, 268, 538, 570, 619, 634, 700

Acid rock drainage 41, 67, 140, 353, 372, 380, 103

ADEQ 17, 20, 102, 104, 105, 186, 187, 207, 277, 282, 292, 363, 364, 365, 369, 370, 372, 379, 381, 390, 392, 395, 398, 405, 434, 478, 511, 526, 577, 580, 581, 583, 637, 669

ADWR 102, 296, 300, 303, 304, 312, 332, 333, 341

Affected environment 4, 100, 127, 129, 158, 206, 233, 269, 292, 300, 340, 366, 419, 420, 444, 448, 476, 477, 509, 554, 572, 582, 619, 636, 640, 656, 668, 684, 700, 4, 127, 128, 129, 134, 165, 215, 246, 280, 303, 366, 424, 451, 484, 520, 562, 576, 588, 625, 641, 647, 658, 661, 675, 689

AGFD 170, 207, 296, 316, 448, 450, 451, 466, 467, 468, 469, 470, 471, 476, 477, 479, 480, 489, 500, 641, 653, 654, 655, 689, 714

Air quality ES-23, 14, 20, 25, 26, 66, 81, 102, 105, 111, 161, 164, 275, 277, 278, 279, 280, 282, 283, 284, 285, 288, 289, 290, 292, 293, 294, 448, 545, 551, 553, 567, 577, 653, 679, 6 ES-4, ES-9, ES-23, 20, 23, 26, 102, 111, 127, 275, 277, 278, 280, 283, 284, 515, 546, 574, 682, 704, 707, 710, 714, 718, 111 82, 704, 707, 710, 275, 284

Ambient concentrations 282

American Indian Religious Freedom Act 625, 662

Aquifer 16, 23, 88, 113, 139, 196, 296, 299, 300, 301, 303, 304, 306, 307, 308, 310, 311, 312, 313, 316, 317, 325, 328, 333, 334, 341, 342, 344, 345, 346, 352, 354, 355, 356, 357, 358, 360, 361, 362, 366, 367, 368, 375, 376, 378, 379, 381, 387, 390, 395, 401, 405, 409, 410, 460, 526, 532, 549, 552, 581, 710, 16, 62, 102, 105, 186, 336, 351, 363, 366, 367, 388, 396, 402, 408, 415, 526, 527, 528, 708, ES-3, ES-23, 61, 112, 135, 139, 295, 296, 299, 304, 306, 313, 316, 317, 328, 334, 337, 341, 346, 349, 350, 352, 353, 358, 360, 361, 366, 373, 418, 421, 452, 574, 689, 704, 707

Archaeological site 631, 634, 628, 629, 639, 712, 663

Arizona Department of Environmental Quality ES-4, 16, 17, 23, 102, 105, 277, 282, 370, 372, 373, 392, 398, 405, 434, 526, 718

Arizona Department of Water Resources ES-4, 18, 23, 102, 718

Arizona Game and Fish Department ES-4, 23, 170, 207, 451, 452, 454, 471, 489, 491, 500, 647, 653, 654, 655, 718

Arizona Revised Statutes 18, 23, 105, 201, 391, 547, 576, 589

ARS 18, 23, 105, 166, 489, 579, 625

AUM 687

B

Background concentrations 277, 280, 284, 288

BADCT 372, 390, 404, 410, 414, 434, 524, 526, 528, 538, 553, 581

Baseline 4, 19, 22, 66, 204, 213, 295, 299, 360, 361, 362, 364, 368, 387, 390, 395, 401, 404, 410, 414, 715, 718, 19, 27, 28, 178, 184, 299, 360, 388, 396, 402, 408, 415, 715

Best Management Practices 246

Biological resources ES-9, 481, 708, 26

BLM/ Bureau of Land Management ES-4, ES-7, ES-18, ES-23, ES-24, ES-25, ES-27, ES-28, 3, 6, 10, 14, 19, 23, 26, 32, 34, 35, 65, 88, 90, 92, 93, 99, 102, 104, 110, 116, 118, 134, 135, 148, 158, 178, 180, 183, 204, 205, 207, 241, 247, 248, 254, 269, 271, 272, 273, 282, 283, 292, 325, 341, 373, 411, 417, 420, 429, 444, 445, 448, 451, 466, 467, 469, 470, 471, 476, 478, 482, 484, 489, 496, 499, 505, 506, 507, 508, 509, 510, 511, 512, 523, 532, 535, 551, 552, 553, 554, 556, 559, 563, 565, 568, 569, 571, 572, 576, 578, 583, 585, 587, 589, 590, 591, 593, 616, 618, 619, 623, 628, 630, 637, 656, 658, 659, 669, 678, 685, 687, 689, 692, 695, 698, 699, 701, 713, 714, 716, 717

C

Candidate species 480

CEQ 22, 23, 24, 100, 102, 103, 128, 363, 674, 703, 706, 718

Clean Air Act 23, 278, 279, 280, 282, 292

Clean Water Act ES-4, ES-5, ES-24, ES-28, 4, 13, 14, 17, 19, 23, 114, 363, 366, 424, 435, 437, 441, 443, 445, 481, 532, 707

Climate 164, 184, 185, 188, 282, 304, 426, 427, 568, 693, 279, 282, 426, 427, 693

Climate change 568, 693

Cooperating agencies ES-4, ES-8, ES-28, 21, 22, 23, 29, 718, 719, ES-10, 22, 23, 450, 454, 471, 557, 653, 715, 718

Council on Environmental Quality 22, 29, 103, 674

Criteria pollutant 278, 292

Critical habitat ES-25, ES-22, 19, 34, 108, 115, 178, 179, 181, 203, 205, 316, 473, 474, 475, 476, 532, 550

Cultural resources ES-9, ES-26, 25, ES-26, 25, 28, 121, 128, 247, 622, 623, 624, 625, 627, 628, 629, 630, 631, 632, 633, 634, 635, 636, 637, 639, 659, 666, 669, 678, 679, 682, 683, 684, 685, 686, 708, 709, 712, 713, 717, 622, 631, 633, 634, 635, 637, 627, 636, 637, 717, 639, 669, 708, 123, 128, 622, 625, 638, 659, 682, 705, 708, 712, 717

Cumulative effect 206, 241, 271, 477, 583, 713, 701

CWA 13, 15, 23, 104, 363, 364, 365, 366, 369, 422, 424, 435, 437, 441, 443, 445, 447

D

Direct effects 128, 130, 284, 463, 545, 582, 649, 666

Direct impact 222, 447, 500, 582, 622, 623, 628, 629, 632, 639, 661, 664, 671, 694, 708, 709, 712, 713

Diversion channel 63, 64, 69, 73, 78, 80, 86, 87, 92, 97, 169, 193, 430, 443

E

EIS ES-1, ES-4, ES-5, ES-7, ES-8, ES-10, ES-28, 1, 3, 4, 6, 8, 9, 11, 13, 14, 15, 20, 21, 22, 23, 24, 28, 29, 32, 56, 66, 75, 119, 128, 129, 130, 136, 151, 158, 159, 206, 208, 241, 242, 244, 247, 248, 271, 272, 273,

278, 292, 293, 300, 314, 328, 340, 342, 343, 363, 364, 365, 370, 376, 419, 420, 424, 425, 427, 428, 444, 445, 477, 478, 479, 482, 484, 509, 510, 512, 515, 551, 553, 554, 556, 562, 572, 573, 582, 583, 620, 627, 636, 637, 638, 656, 657, 668, 669, 670, 672, 685, 686, 687, 702, 706, 713, 715, 716, 717, 718, 719

Emission ES-23, 25, 26, 66, 111, 127, 275, 277, 278, 279, 282, 283, 284, 288, 292, 293, 294, 427, 515, 574, 576, 596, 597, 602, 603, 682, 704, 707

Employment ES-3, 122, 640, 643, 648, 649, 653, 654, 656, 680

ESA/Endangered Species Act ES-5, 13, 19, 178, 180, 204, 247, 448, 451, 454, 471, 473, 662, 713

Environmental justice ES-9, 25, ES-27, 124, 128, 662, 672, 674, 675, 678, 679, 680, 681, 682, 683, 684, 685, 686, 124, 672, 673, 686, 705, 709, 713

EPA/U.S. Environmental Protection Agency ES-4, 19, 23, 207, 214, 241, 272, 277, 278, 279, 282, 288, 293, 296, 367, 368, 372, 375, 427, 478, 510, 580, 620, 718

Ephemeral streams 433

Erosion 26, 62, 64, 72, 74, 78, 79, 86, 92, 98, 161, 164, 169, 184, 185, 187, 188, 189, 190, 191, 192, 193, 197, 199, 201, 205, 210, 247, 257, 258, 277, 379, 380, 433, 434, 461, 513, 516, 537, 538, 545, 546, 548, 580, 710

ESA 13, 105, 178, 179, 180, 181, 203, 204, 448, 451, 467, 469, 471, 478, 480, 713

Evapotranspiration 299, 311, 427

F

Fault 130, 132, 134, 135, 139, 141, 144, 145, 146, 151, 154, 304, 306, 312, 371, 355, 362 517

Floodplain 114, 139, 186, 304, 422, 424, 435, 437, 441, 443, 444, 473, 475, 507, 626

Forage 448, 460, 461, 463, 687, 692, 701, 702

Forest Service ES-1, ES-3, ES-4, ES-5, ES-6, ES-7, ES-8, ES-9, ES-10, ES-20, ES-22, ES-27, ES-28, 1, 3, 4, 6, 8, 9, 10, 11, 13, 14, 15, 18, 19, 20, 21, 22, 24, 27, 28, 29, 30, 32, 35, 36, 64, 65, 66, 67, 73, 94, 100, 102, 103, 104, 105, 111, 118, 127, 129, 134, 135, 148, 149, 150, 156, 159, 161, 164, 165, 166, 167, 175, 182, 183, 184, 186, 187, 188, 189, 197, 201, 205, 207, 208, 209, 222, 242, 246, 247, 251, 254, 265, 273, 275, 277, 278, 280, 282, 283, 288, 293, 295, 296, 299, 303, 304, 316, 325, 332, 342, 343, 363, 364, 365, 373, 376, 390, 391, 395, 411, 417, 419, 420, 421, 424, 429, 434, 441, 443, 445, 448, 450, 454, 457, 472, 477, 479, 480, 482, 484, 486, 489, 490, 491, 493, 495, 496, 503, 507, 511, 512, 513, 516, 517, 519, 520, 523, 526, 535, 538, 546, 551, 553, 556, 557, 561, 565, 566, 567, 569, 572, 573, 576, 578, 583, 585, 587, 588, 589, 590, 591, 594, 603, 616, 620, 623, 629, 630, 638, 641, 646, 647, 650, 654, 657, 659, 664, 666, 668, 670, 672, 674, 675, 678, 686, 687, 690, 691, 692, 695, 701, 702, 709, 715, 716, 717, 718, 719

Fragmentation ES-24, 26, 115, 127, 194, 448, 458, 459, 462, 463, 477, 481, 708

G

GPO/General Plan of Operations ES-1, ES-5, ES-6, ES-7, ES-10, ES-12, ES-14, ES-22, 1, 3, 6, 8, 9, 10, 11, 13, 15, 19, 26, 27, 28, 30, 32, 36, 47, 61, 65, 66, 67, 69, 72, 74, 75, 81, 84, 87, 88, 92, 94, 100, 102, 103, 104, 105, 119, 132, 136, 147, 148, 149, 154, 156, 159, 165, 168, 169, 184, 186, 187, 188, 208, 209, 211, 222, 242, 257, 258, 270, 273, 275, 283, 293, 327, 342, 379, 421, 430, 445, 458, 479, 504, 507, 512, 536, 556, 570, 573, 577, 578, 579, 580, 581, 583, 585, 603, 622, 623, 629, 630, 631, 638, 640, 657, 659, 664, 666, 670, 686, 687, 690, 702, 717

Geological ES-22, 6, 25, 26, 41, 42, 107, 127, 130, 132, 134, 135, 136, 137, 138, 139, 140, 141, 143, 144, 149, 150, 151, 155, 156, 157, 158, 159, 160, 169, 172, 174, 295, 299, 304, 306, 317, 330, 338, 356, 357, 358, 361, 362, 364, 366, 374, 378, 384, 424, 493, 498, 507, 520, 536, 537, 543, 554, 591, 621, 680, 706, 709, 712, 719

Geology 107, 130, 132, 134, 136, 139, 140, 141, 142, 144, 148, 149, 157, 158, 159, 170, 295, 304, 335, 356, 358, 361, 401, 554, 557, 679

Groundwater ES-3, ES-6, ES-12, ES-23, ES-24, ES-25, 9, 10, 16, 18, 24, 25, 26, 28, 59, 63, 65, 67, 69, 75, 81, 84, 88, 92, 93, 94, 102, 104, 105, 112, 113, 115, 123, 127, 130, 135, 139, 142, 144, 147, 161, 178, 192, 195, 196, 295, 296, 297, 299, 300, 301, 302, 303, 304, 305, 306, 307, 309, 310, 311, 312, 313, 314, 316, 317, 318, 319, 322, 323, 325, 326, 327, 328, 329, 330, 332, 333, 334, 335, 337, 338, 339, 340, 341, 342, 343, 344, 345, 346, 347, 349, 350, 354, 356, 357, 358, 360, 361, 363, 366, 367, 368, 369, 370, 373, 375, 376, 378, 387, 390, 395, 401, 404, 410, 414, 419, 420, 421, 426, 427, 446, 448, 450, 452, 459, 460, 462, 463, 473, 476, 491, 515, 516, 527, 540, 544, 545, 546, 549, 550, 551, 552, 553, 568, 577, 578, 580, 581, 582, 584, 595, 639, 645, 661, 666, 667, 671, 682, 689, 704, 707, 710, 711, 712, 713, 719

H

Habitat ES-22, ES-24, ES-25, 19, 26, 34, 35, 105, 108, 115, 127, 156, 165, 178, 179, 180, 181, 184, 190, 195, 196, 197, 198, 199, 200, 201, 202, 203, 204, 205, 207, 210, 247, 296, 313, 316, 322, 325, 329, 330, 331, 332, 338, 344, 346, 429, 434, 446, 448, 450, 451, 452, 453, 454, 457, 458, 459, 460, 461, 462, 463, 464, 466, 470, 471, 473, 475, 476, 477, 478, 479, 480, 481, 489, 521, 522, 532, 533, 534, 544, 545, 548, 550, 551, 552, 553, 567, 654, 655, 703, 704, 707, 708, 711

Habitat fragmentation 26, 459, 462, 463, 477, 481, 708

Hazardous ES-25, ES-26, 14, 16, 17, 19, 20, 23, 25, 26, 61, 62, 74, 79, 86, 98, 119, 124, 128, 275, 277, 278, 379, 391, 398, 404, 417, 515, 516, 565, 568, 573, 574, 576, 577, 578, 579, 580, 581, 582, 583, 584, 680, 705, 708, 712

Highway ES-23, ES-26, 5, 18, 27, 127, 211, 110, 227, 228, 231, 234, 235, 236, 238, 239, 244, 247, 248, 261, 269, 482, 495, 514, 534, 535, 563, 577, 596, 609, 610, 615, 616, 629, 645, 711

Housing 25, 124, 246, 283, 341, 566, 567, 640, 641, 643, 650, 651, 655, 657, 680, 685

hydrology 161, 295, 304, 356, 358, 361, 401

I

Indicator species 448, 454, 472

Indirect effects 4, 128, 130, 269, 364, 482, 559, 582, 648

Indirect impacts 441, 443, 498, 502, 622, 623, 631, 632, 634, 636, 661, 667

Infiltration 86, 168, 304, 380, 385, 398, 580, 581

Interim management 20

Intermittent stream 34

K

KOP/Key observation point 585, 588, 595, 596, 601, 603, 604, 605, 606, 607, 609, 610, 611, 612, 613, 614, 615, 616, 617

L

Land ownership 6, 27, 583, 679, 687

Land use ES-6, 9, 14, 61, 74, 182, 186, 213, 218, 219, 220, 248, 424, 678, 681, 682, 694, 714

Light ES-24, 15, 26, 115, 145, 146, 147, 164, 194, 196, 201, 218, 219, 419, 448, 460, 461, 462, 463, 480, 481, 500, 593, 594, 601, 608, 621, 680, 708, 712

Listed species 471

M

Minerals ES-5, ES-10, 6, 8, 38, 105, 107, 130, 131, 134, 135, 140, 157, 158, 159, 279, 280, 346, 353, 366, 370, 372, 417, 418, 419, 420, 544, 554, 651, 659, 661, 662, 664, 666, 667, 709

Mining Plan of Operations ES-4, ES-8, 8, 10, 14, 18, 19, 67, 88, 135, 186, 206, 208, 209, 242, 248, 327, 363, 523, 535, 713, 18, 19, 479, 480, 512, 513, 557, 638, 670

Mitigation ES-4, ES-23, ES-24, ES-27, ES-28, 4, 18, 19, 22, 23, 100, 102, 103, 104, 109, 112, 115, 118, 123, 129, 135, 159, 186, 187, 188, 190, 206, 208, 209, 222, 242, 243, 273, 293, 303, 322, 342, 343, 344, 345, 391, 420, 421, 424, 425, 445, 446, 447, 479, 480, 511, 512, 526, 556, 557, 558, 568, 573, 583, 594, 599, 616, 618, 620, 637, 638, 657, 669, 670, 683, 684, 686, 689, 698, 700, 702, 706, 707, 708, 711, 713

Mitigation measure 129, 159, 186, 188, 343, 445, 512

Monitoring ES-28, 17, 18, 20, 28, 44, 63, 65, 66, 69, 100, 102, 103, 104, 107, 129, 146, 149, 150, 151, 154, 155, 159, 165, 182, 187, 188, 192, 201, 208, 209, 213, 216, 218, 221, 242, 273, 275, 276, 280, 282, 284, 293, 296, 301, 303, 309, 314, 322, 325, 327, 342, 343, 344, 345, 363, 367, 368, 369, 391, 409, 420, 445, 479, 490, 491, 512, 537, 546, 547, 556, 558, 573, 583, 595, 596, 597, 627, 630, 638, 657, 662, 666, 670, 686, 692, 702, 711, 718

Monitoring measures ES-28, 102, 103, 104, 159, 208, 242, 343, 445, 479, 512, 556, 670

N

NAAQS/ National Ambient Air Quality Standards ES-23, 111, 275, 277, 278, 279, 282, 284, 293, 682

National Register of Historic Places ES-3, 25, 622

NOI/Notice of Intent ES-10, 1, 21, 66, 715

Noise ES-22, ES-23, ES-24, 26, 27, 81, 109, 115, 116, 124, 127, 211, 213, 214, 215, 216, 218, 219, 220, 221, 222, 223, 224, 225, 226, 227, 228, 229, 230, 231, 232, 233, 234, 235, 236, 237, 238, 239, 240, 241, 242, 243, 448, 458, 459, 461, 480, 481, 495, 498, 499, 500, 620, 653, 679, 681, 703, 706, 708, 710

NO_x 277, 279

Noxious weed ES-22, 108, 161, 165, 184, 195, 183, 190, 195, 198, 200, 201, 202, 205, 207, 448, 458, 478, 559, 568, 569, 570, 692

NRHP ES-3, ES-26, ES-27, 25, 121, 123, 622, 623, 628, 629, 630, 631, 632, 633, 634, 635, 637, 638, 658, 661, 662, 663, 665, 667

O

O₃ 277, 278

OHV/Off-highway vehicle ES-26, 206, 269, 482, 484, 486, 493, 498, 503, 506, 507, 508, 509, 510, 512, 513, 514, 593, 594, 601, 602, 603, 612, 613, 614, 619, 646, 647, 653, 654, 705, 711

Ore ES-1, ES-3, ES-6, ES-22, 5, 6, 9, 26, 27, 36, 38, 41, 42, 44, 47, 51, 56, 69, 75, 104, 127, 130, 136, 139, 140, 149, 150, 151, 156, 158, 211, 213, 280, 283, 284, 306, 328, 341, 346, 349, 352, 353, 362, 366, 368, 370, 373, 374, 379, 380, 418, 419, 421, 426, 556, 664, 707

Ozone 194, 275, 277, 278, 280, 281, 285, 288, 292

P

Particulate matter 277, 278, 279, 280, 292

Perennial streams 34, 178, 317, 335, 338, 339, 345, 368, 422, 707

Permeability ES-12, ES-14, ES-18, ES-20, 69, 72, 73, 74, 75, 78, 79, 80, 86, 90, 92, 93, 97, 98, 99, 142, 144, 306, 310, 353, 384, 385, 387, 390, 392, 393, 405, 407, 410, 411, 413, 414

PM_{2.5} ES-23, 111, 277, 278, 279, 280, 281, 285, 287, 288, 289

PM₁₀ ES-23, 111, 277, 278, 279, 280, 281, 282, 285, 288, 289, 292

Population ES-26, 25, 66, 94, 117, 180, 197, 204, 273, 282, 341, 445, 454, 457, 459, 461, 470, 473, 476, 478, 512, 527, 530, 534, 544, 545, 549, 550, 552, 555, 567, 568, 626, 627, 640, 641, 645, 650, 651, 652, 653, 657, 672, 674, 675, 676, 677, 678, 705

Preferred alternative ES-20, ES-21, 8, 23, 30, 94, 186, 208, 209, 364, 425, 529, 619, 713, 717

Preferred Alternative ES-20, 30, 188, 209

Proposed Action ES-5, ES-12, ES-13, 4, 8, 22, 29, 30, 36, 59, 60, 67, 68, 69, 71, 73, 78, 80, 81, 88, 94, 156, 171, 172, 182, 192, 201, 223,

284, 285, 286, 287, 290, 300, 303, 318, 319, 320, 321, 322, 326, 330, 331, 334, 381, 435, 502, 540, 570, 603, 631, 653, 655, 695

Public access ES-6, ES-12, ES-14, ES-16, ES-18, ES-20, ES-23, ES-25, 47, 72, 116, 134, 146, 149, 244, 254, 258, 261, 265, 268, 274, 284, 482, 493, 495, 498, 499, 502, 506, 508, 512, 513, 595, 654, 655, 708, 710

Public involvement 14, 20, 490, 715

R

Reclamation ES-3, ES-5, ES-7, ES-18, ES-20, ES-23, ES-24, 8, 13, 14, 15, 18, 20, 23, 25, 27, 36, 56, 59, 61, 62, 63, 64, 65, 66, 69, 72, 73, 74, 79, 80, 81, 86, 87, 92, 93, 98, 99, 104, 105, 113, 116, 120, 127, 158, 161, 164, 165, 166, 168, 169, 170, 183, 184, 186, 187, 188, 189, 190, 192, 193, 197, 198, 199, 200, 201, 202, 205, 208, 209, 210, 211, 243, 244, 258, 271, 275, 292, 294, 340, 353, 392, 404, 411, 417, 420, 434, 444, 447, 448, 450, 461, 477, 481, 482, 484, 499, 503, 505, 514, 523, 547, 549, 551, 554, 559, 569, 573, 574, 577, 580, 584, 588, 595, 596, 597, 599, 602, 603, 605, 606, 608, 609, 610, 612, 613, 615, 616, 619, 621, 628, 641, 648, 653, 657, 684, 685, 687, 693, 694, 702, 703, 704, 705, 706, 708, 709, 710, 711, 712, 713

Recreation ES-6, ES-22, ES-25, 8, 11, 26, 29, 32, 66, 109, 116, 122, 134, 182, 183, 216, 218, 247, 268, 273, 457, 482, 484, 485, 486, 487, 488, 489, 490, 491, 495, 496, 497, 498, 499, 500, 501, 502, 503, 504, 505, 506, 507, 508, 509, 510, 511, 512, 513, 514, 532, 535, 552, 568, 569, 588, 592, 593, 596, 601, 619, 628, 640, 644, 645, 646, 647, 653, 654, 655, 656, 657, 679, 681, 686, 705, 708, 709, 711, 713

Resource management plan 241

Right-of-way ES-6, 9, 18, 19, 51, 148, 191, 207, 241, 242, 271, 477, 478, 506, 507, 508, 511, 619, 637, 669

Riparian ES-25, 26, 34, 35, 115, 118, 139, 161, 176, 179, 180, 183, 186, 195, 196, 206, 295, 296, 299, 304, 313, 316, 317, 322, 325, 327, 329, 330, 331, 332, 338, 344, 345, 425, 429, 446, 447, 452, 457, 459, 460, 473, 475, 476, 522, 527, 532, 533, 534, 545, 551, 553, 567, 568, 591, 692, 704, 707, 708, 711

Riparian area 316, 325, 329, 332, 551

ROD 13, 14, 15, 18, 19, 36, 69, 102, 103, 104, 158, 159, 206, 208, 209, 242, 271, 273, 292, 293, 340, 342, 363, 420, 421, 444, 445, 477, 479, 480, 484, 509, 512, 513, 554, 556, 557, 573, 583, 637, 638, 657, 661, 666, 668, 670, 686, 702, 713

Runoff ES-16, ES-24, 17, 64, 69, 74, 78, 86, 87, 88, 92, 98, 112, 113, 114, 161, 170, 176, 187, 188, 194, 201, 209, 279, 295, 299, 304, 311, 313, 316, 329, 330, 331, 332, 335, 338, 339, 344, 346, 361, 363, 369, 370, 379, 381, 382, 391, 392, 420, 421, 422, 426, 427, 430, 433, 434, 435, 447, 463, 576, 581, 582, 704, 707, 708

S

Scoping ES-8, ES-9, ES-10, 21, 22, 24, 29, 67, 128, 165, 288, 450, 515, 672, 715

Sediment 17, 114, 190, 194, 257, 369, 370, 379, 417, 422, 430, 433, 434, 473, 538, 545

Sensitive species 178, 200, 477, 478

SO₂ 277, 278, 279, 280, 281, 283, 284, 285, 288, 289, 290

Socioeconomics 122, 641, 647, 657, 678, 679

Soil ES-18, ES-22, 16, 26, 44, 64, 69, 72, 74, 78, 79, 86, 92, 98, 108, 117, 136, 151, 161, 164, 166, 168, 169, 170, 171, 173, 174, 175, 176, 179, 182, 183, 186, 188, 189, 190, 191, 192, 193, 194, 197, 198, 199, 200, 201, 205, 206, 207, 208, 209, 210, 257, 380, 381, 384, 411, 419, 434, 461, 513, 516, 520, 540, 542, 544, 545, 569, 576, 577, 580, 581, 582, 628, 666, 691, 694, 706, 709, 710

Special status plant species 161, 165, 178, 183, 194, 195, 197, 198, 200, 201, 202, 203, 205, 209, 210, 706

Special status wildlife species ES-24, 115, 448, 450, 451, 454, 458, 459, 460, 461, 463, 466

Springs ES-23, ES-27, 22, 26, 34, 112, 115, 123, 128, 139, 179, 180, 218, 279, 282, 295, 296, 299, 303, 310, 311, 312, 313, 314, 316, 317, 319, 320, 322, 325, 327, 328, 329, 330, 332, 333, 335, 337, 338, 339, 343, 345, 368, 422, 426, 427, 430, 433, 477, 663, 664, 691, 697, 448,

452, 453, 460, 475, 481, 533, 628, 639, 658, 661, 662, 663, 664, 665, 666, 667, 671, 683, 689, 693, 695, 697, 698, 699, 702, 704, 707, 709, 712, 713, 717

Stormwater ES-16, ES-24, 17, 26, 63, 65, 69, 72, 73, 78, 80, 86, 92, 93, 98, 99, 100, 103, 112, 113, 114, 170, 187, 192, 193, 196, 201, 209, 295, 338, 363, 370, 373, 379, 380, 381, 382, 383, 391, 392, 404, 417, 421, 430, 433, 434, 447, 448, 458, 460, 480, 537, 540, 544, 546, 577, 580, 582, 707, 711

Subsidence ES-3, ES-6, ES-10, ES-22, ES-23, ES-24, ES-26, 9, 25, 26, 27, 36, 38, 43, 44, 45, 63, 105, 107, 108, 112, 113, 114, 115, 118, 127, 130, 131, 132, 133, 134, 139, 146, 148, 149, 150, 151, 152, 153, 154, 155, 157, 158, 159, 160, 161, 178, 179, 190, 191, 192, 193, 195, 196, 197, 210, 248, 261, 264, 274, 295, 296, 299, 313, 316, 328, 329, 330, 331, 332, 334, 335, 336, 337, 338, 339, 345, 346, 370, 375, 376, 377, 378, 379, 422, 424, 426, 429, 430, 432, 433, 435, 436, 437, 438, 441, 444, 447, 459, 460, 482, 496, 498, 499, 501, 502, 513, 514, 516, 554, 559, 562, 581, 587, 595, 605, 621, 622, 631, 632, 633, 634, 635, 636, 639, 654, 657, 659, 663, 665, 666, 667, 671, 679, 687, 694, 702, 703, 704, 705, 706, 708, 709, 710, 711, 712, 713

Surface water ES-23, 17, 18, 24, 25, 26, 63, 64, 73, 74, 78, 80, 86, 90, 97, 98, 112, 113, 114, 115, 127, 161, 195, 196, 301, 304, 327, 331, 332, 335, 341, 343, 344, 346, 347, 349, 354, 357, 358, 360, 361, 362, 363, 364, 365, 366, 367, 368, 369, 373, 375, 378, 379, 380, 381, 383, 387, 389, 390, 392, 395, 397, 398, 401, 403, 404, 405, 409, 410, 414, 416, 419, 420, 421, 422, 424, 427, 429, 430, 444, 445, 446, 447, 448, 459, 460, 462, 476, 515, 527, 531, 540, 544, 545, 574, 576, 577, 578, 580, 582, 584, 661, 682, 704, 707, 708, 711, 712

T

TCP/Traditional cultural property ES-3, ES-26, ES-27, 25, 121, 123, 628, 630, 631, 638, 662, 663, 664, 665, 666, 667, 668

Threatened and endangered species 247

Trail ES-16, ES-25, 116, 486, 489, 490, 501, 504, 505, 507, 509, 512, 513, 514, 591, 604, 606, 609, 612, 711

Transportation ES-1, ES-5, ES-23, 1, 3, 6, 24, 26, 27, 30, 51, 110, 119, 123, 127, 208, 244, 246, 247, 248, 254, 257, 269, 271, 272, 273, 274, 478, 534, 545, 559, 563, 567, 568, 571, 576, 577, 578, 581, 582, 583, 596, 620, 628, 645, 653, 656, 679, 680, 710

Tribal consultation ES-8, 21, 716

Tribe ES-4, ES-8, 3, 6, 13, 22, 24, 28, 296, 638, 658, 658, 662, 663, 664, 675, 695, 713, 714, 716, 717, 718, 719, 720

U

USACE/ U.S. Army Corps of Engineers ES-4, ES-24, ES-28, 14, 15, 17, 19, 23, 102, 104, 114, 158, 206, 271, 292, 340, 420, 424, 425, 435, 437, 441, 443, 444, 445, 477, 509, 524, 525, 526, 532, 534, 554, 637, 668, 716, 718

U.S.C. 3, 23, 134, 135, 166, 451, 484, 625, 662

U.S. Census Bureau 530, 550, 640, 643, 644, 652, 674, 677

U.S. Fish and Wildlife Service 19, 179, 473, 475, 717, 719

V

Vegetation ES-22, ES-25, ES-26, 25, 26, 34, 62, 108, 115, 117, 118, 127, 139, 146, 161, 164, 165, 166, 168, 169, 170, 171, 175, 176, 178, 182, 183, 184, 185, 186, 188, 189, 190, 191, 194, 195, 196, 197, 198, 199, 200, 201, 202, 205, 206, 207, 208, 209, 210, 241, 257, 272, 293, 296, 299, 311, 322, 325, 327, 329, 330, 331, 332, 338, 344, 379, 380, 424, 426, 427, 429, 430, 434, 435, 437, 441, 443, 444, 446, 447, 448, 457, 458, 459, 460, 462, 463, 472, 473, 475, 476, 477, 478, 479, 498, 510, 511, 527, 533, 545, 546, 548, 550, 552, 559, 562, 563, 566, 568, 569, 570, 572, 574, 577, 578, 580, 581, 582, 585, 587, 593, 594, 597, 599, 601, 603, 604, 616, 620, 666, 679, 681, 687, 690, 691, 693, 694, 701, 702, 703, 706, 707, 710, 712

viewshed 587, 603, 604, 609, 612, 615, 618, 619, 661

Visual quality ES-6, 247, 591, 680

Visual resource 612

W

Water quality ES-3, ES-23, ES-24, 17, 41, 63, 64, 67, 75, 81, 84, 87, 105, 113, 127, 134, 140, 170, 187, 188, 196, 201, 209, 247, 295, 299, 303, 316, 335, 344, 346, 347, 348, 349, 352, 353, 354, 356, 357, 358, 360, 361, 362, 363, 364, 365, 366, 367, 368, 369, 372, 373, 375, 378, 379, 380, 381, 382, 383, 384, 387, 388, 389, 390, 391, 392, 395, 396, 397, 398, 401, 402, 403, 404, 405, 407, 408, 409, 410, 414, 415, 418, 419, 420, 421, 422, 434, 447, 448, 460, 462, 463, 475, 480, 521, 526, 540, 544, 545, 547, 548, 550, 578, 667, 682, 707, 708, 711

Water rights 112, 332, 426

Watershed 26, 113, 158, 201, 206, 271, 292, 299, 304, 306, 312, 316, 317, 328, 331, 335, 338, 339, 340, 369, 370, 380, 391, 420, 422, 424, 426, 427, 429, 433, 434, 435, 437, 440, 441, 443, 444, 447, 448, 473, 477, 509, 554, 556, 582, 619, 622, 637, 664, 667, 668, 685, 700, 704, 708, 711

Waters of the U.S. ES-4, 14, 15, 17, 19, 23, 114, 422, 424, 435, 441, 443, 532

Water supply 18, 38, 51, 59, 60, 65, 127, 130, 295, 296, 299, 303, 310, 325, 326, 328, 333, 341, 342, 343, 344, 522, 534, 544, 553, 681

Wildfire 25, 118, 194, 459, 515, 559, 562, 563, 566, 567, 568, 569, 570, 571, 572, 680

Wildlife ES-22, ES-24, 23, 25, 26, 34, 105, 108, 115, 127, 156, 185, 186, 190, 198, 199, 200, 207, 210, 211, 219, 247, 295, 316, 340, 344, 378, 379, 380, 424, 445, 446, 448, 450, 451, 452, 454, 457, 458, 459, 460, 461, 463, 466, 476, 477, 478, 479, 480, 481, 482, 500, 532, 533, 544, 545, 550, 567, 574, 577, 580, 581, 582, 646, 647, 653, 654, 655, 665, 679, 682, 689, 695, 697, 698, 699, 700, 701, 703, 704, 711, 714