

TABLE OF CONTENTS

GRATON RANCHERIA CASINO AND HOTEL DRAFT ENVIRONMENTAL IMPACT STATEMENT

EXECUTIVE SUMMARY

ES.1	Introduction	ES-1
ES.2	Purpose and Need	ES-1
ES.3	Alternatives	ES-1
ES.3.1	Alternative A – Proposed Project	ES-2
ES.3.2	Alternative B – Northwest Stony Point Casino	ES-2
ES.3.3	Alternative C – Northeast Stony Point Casino	ES-2
ES.3.4	Alternative D – Reduced Intensity.....	ES-2
ES.3.5	Alternative E – Business Park	ES-3
ES.3.6	Alternative F – Lakeville Casino.....	ES-3
ES.3.7	Alternative G – No Action.....	ES-3
ES.4	Areas of Controversy	ES-3
ES.5	Environmental Consequences, Mitigation, and Significance Conclusions Summary Matrix ...	ES-5

1.0 PURPOSE AND NEED

1.1	Introduction	1-1
1.2	Summary of the Proposed Action and Alternatives	1-2
1.3	Alternative Site Locations.....	1-3
1.3.1	Wilfred Site.....	1-3
1.3.2	Stony Point Site	1-4
1.3.3	Lakeville Site	1-10
1.4	Purpose and Need	1-10
1.5	Overview of the Environmental Review Process	1-20
1.6	Regulatory Requirements, Permits, and Approvals	1-22

2.0 ALTERNATIVES

2.1	Introduction	2-1
2.2	Alternative A – Proposed Project	2-2
2.2.1	Management Contract.....	2-4
2.2.2	Casino and Related Amenities.....	2-8
2.2.3	Hotel and Spa.....	2-8
2.2.4	Parking.....	2-8
2.2.5	Construction.....	2-8
2.2.6	Drainage.....	2-9
2.2.7	Wastewater Treatment and Disposal	2-11
2.2.8	Water Supply	2-20
2.2.9	Fuel Storage	2-21
2.2.10	Memoranda of Understanding	2-22
2.3	Alternative B – Northwest Stony Point Casino	2-26
2.3.1	Management Contract.....	2-28

2.3.2	Casino and Related Amenities	2-28
2.3.3	Hotel and Spa.....	2-28
2.3.4	Parking.....	2-28
2.3.5	Construction.....	2-28
2.3.6	Drainage.....	2-29
2.3.7	Wastewater Treatment and Disposal	2-29
2.3.8	Water Supply	2-33
2.3.9	Fuel Storage.....	2-33
2.3.10	Memoranda of Understanding	2-33
2.4	Alternative C – Northeast Stony Point Casino.....	2-36
2.4.1	Management Contract.....	2-36
2.4.2	Casino and Related Amenties	2-36
2.4.3	Hotel and Spa.....	2-36
2.4.4	Parking.....	2-38
2.4.5	Construction.....	2-38
2.4.6	Drainage.....	2-38
2.4.7	Wastewater Treatment and Disposal	2-41
2.4.8	Water Supply	2-41
2.4.9	Fuel Storage.....	2-44
2.4.10	Memoranda of Understanding	2-44
2.5	Alternative D – Reduced Intensity.....	2-44
2.5.1	Management Contract.....	2-44
2.5.2	Casino and Related Amentities.....	2-46
2.5.3	Hotel	2-46
2.5.4	Parking.....	2-46
2.5.5	Construction.....	2-46
2.5.6	Drainage.....	2-47
2.5.7	Wastewater Treatment and Disposal	2-48
2.5.8	Water Supply	2-52
2.5.9	Fuel Storage.....	2-52
2.5.10	Memoranda of Understanding	2-53
2.6	Alternative E – Business Park.....	2-53
2.6.1	Business Park.....	2-53
2.6.2	Parking.....	2-56
2.6.3	Construction.....	2-56
2.6.4	Drainage.....	2-56
2.6.5	Wastewater Treatment and Disposal	2-58
2.6.6	Water Supply	2-58
2.6.7	Fuel Storage.....	2-61
2.6.8	Memoranda of Understanding	2-61
2.7	Alternative F – Lakeville Casino	2-61
2.7.1	Management Contract.....	2-63
2.7.2	Casino and Related Amentities.....	2-63
2.7.3	Hotel and Spa.....	2-63
2.7.4	Parking.....	2-63
2.7.5	Construction.....	2-63
2.7.6	Drainage.....	2-64
2.7.7	Wastewater Treatment and Disposal	2-64
2.7.8	Water Supply	2-66
2.7.9	Fuel Storage.....	2-66

2.7.10	Memoranda of Understanding	2-69
2.8	Alternative G – No Action.....	2-69
2.8.1	Northwest Specific Plan Southern Area	2-69
2.9	Alternatives Eliminated From Further Consideration.....	2-74
2.9.1	Non-Gaming Alternatives.....	2-74
2.9.2	Alternative Sites for Gaming	2-76
2.10	Additional Alternative	2-83
2.10.1	Management Contract.....	2-84
2.10.2	Casino and Related Amentities.....	2-84
2.10.3	Hotel	2-84
2.10.4	Parking.....	2-86
2.10.5	Construction.....	2-86
2.10.6	Drainage.....	2-86
2.10.7	Wastewater Treatment and Disposal	2-87
2.10.8	Water Supply	2-87
2.10.9	Fuel Storage	2-87
2.10.10	Memoranda of Understanding	2-87

3.0 DESCRIPTION OF AFFECTED ENVIRONMENT

3.1	Introduction	3.1-1
3.2	Land Resources.....	3.2-1
3.2.1	General Issues.....	3.2-1
3.2.2	Wilfred Site.....	3.2-6
3.2.3	Stony Point Site	3.2-14
3.2.4	Lakeville Site	3.2-19
3.3	Water Resources	3.3-1
3.3.1	Surface Water	3.3-1
3.3.2	Groundwater	3.3-7
3.4	Air Quality	3.4-1
3.4.1	Air Basin Characteristics	3.4-1
3.4.2	Pollutants of Concern	3.4-7
3.4.3	Existing Air Quality.....	3.4-15
3.4.4	Regulatory Context.....	3.4-23
3.5	Biological Resources	3.5-1
3.5.1	Regional Setting.....	3.5-1
3.5.2	Vegetation Communities	3.5-2
3.5.3	Wildlife.....	3.5-14
3.5.4	Federally Listed and Other Special Status Species.....	3.5-16
3.5.5	Waters of the United States	3.5-42
3.5.6	Laguna de Santa Rosa.....	3.5-46
3.5.7	Sonoma Bay Lands	3.5-48
3.6	Cultural and Paleontological Resources	3.6-1
3.6.1	General Setting	3.6-1
3.6.2	Regulatory Background.....	3.6-3
3.6.3	Wilfred Site.....	3.6-7
3.6.4	Stony Point Site	3.6-12
3.6.5	Lakeville Site	3.6-15
3.7	Socioeconomic Conditions and Environmental Justice	3.7-1

3.7.1	Socioeconomic Characteristics of Sonoma County	3.7-1
3.7.2	Socioeconomic Characteristics of the Tribe	3.7-7
3.7.3	Tribal Attitudes, Expectations, Lifestyle and Culture	3.7-8
3.7.4	Environmental Justice.....	3.7-8
3.8	Resource Use Patterns.....	3.8-1
3.8.1	Transportation.....	3.8-1
3.8.2	Land Use.....	3.8-25
3.8.3	Agriculture.....	3.8-46
3.8.4	Other Resource Uses.....	3.8-52
3.9	Public Services.....	3.9-1
3.9.1	Water Supply	3.9-1
3.9.2	Wastewater Service	3.9-7
3.9.3	Solid Waste Service.....	3.9-9
3.9.4	Electricity, Natural Gas and Telecommunications	3.9-10
3.9.5	Public Health and Safety	3.9-12
3.9.6	Schools.....	3.9-19
3.10	Other Values	3.10-1
3.10.1	Noise.....	3.10-1
3.10.2	Hazardous Materials	3.10-8
3.10.3	Visual Resources	3.10-23
4.0	ENVIRONMENTAL CONSEQUENCES	
4.1	Introduction	4.1-1
4.1.1	Determination of Significance.....	4.1-1
4.1.2	Jurisdiction and Special Expertise	4.1-3
4.2	Land Resources	4.2-1
4.2.1	Alternative A – Proposed Project	4.2-1
4.2.2	Alternative B – Northwest Stony Point Casino	4.2-4
4.2.3	Alternative C – Northeast Stony Point Casino	4.2-6
4.2.4	Alternative D – Reduced Intensity.....	4.2-7
4.2.5	Alternative E – Business Park	4.2-8
4.2.6	Alternative F – Lakeville Casino.....	4.2-9
4.2.7	Alternative G – No Action.....	4.2-11
4.3	Water Resources	4.3-1
4.3.1	Alternative A – Proposed Project	4.3-1
4.3.2	Alternative B – Northwest Stony Point Casino	4.3-9
4.3.3	Alternative C – Northeast Stony Point Casino	4.3-11
4.3.4	Alternative D – Reduced Intensity.....	4.3-13
4.3.5	Alternative E – Business Park	4.3-16
4.3.6	Alternative F – Lakeville Casino.....	4.3-18
4.3.7	Alternative G – No Action.....	4.3-21
4.4	Air Quality	4.4-1
4.4.1	Methodology.....	4.4-1
4.4.2	Alternative A – Proposed Project	4.4-7
4.4.3	Alternative B – Northwest Stony Point Casino	4.4-14
4.4.4	Alternative C – Northeast Stony Point Casino	4.4-16
4.4.5	Alternative D – Reduced Intensity.....	4.4-19

4.4.6	Alternative E – Business Park	4.4-22
4.4.7	Alternative F – Lakeville Casino	4.4-25
4.4.8	Alternative G – No Action.....	4.4-28
4.5	Biological Resources	4.5-1
4.5.1	Alternative A – Proposed Project	4.5-1
4.5.2	Alternative B – Northwest Stony Point Casino	4.5-9
4.5.3	Alternative C – Northeast Stony Point Casino	4.5-16
4.5.4	Alternative D – Reduced Intensity.....	4.5-23
4.5.5	Alternative E – Business Park	4.5-28
4.5.6	Alternative F – Lakeville Site.....	4.5-34
4.5.7	Alternative G – No Action.....	4.5-36
4.6	Cultural and Paleontological Resources	4.6-1
4.6.1	Alternative A – Proposed Project	4.6-1
4.6.2	Alternative B – Northwest Stony Point Casino	4.6-2
4.6.3	Alternative C – Northeast Stony Point Casino	4.6-3
4.6.4	Alternative D – Reduced Intensity.....	4.6-4
4.6.5	Alternative E – Business Park	4.6-4
4.6.6	Alternative F – Lakeville Casino	4.6-5
4.6.7	Alternative G – No Action.....	4.6-6
4.7	Socioeconomic Conditions and Environmental Justice	4.7-1
4.7.1	Socioeconomic Conditions	4.7-1
4.7.2	Environmental Justice.....	4.7-27
4.8	Resource Use Patterns.....	4.8-1
4.8.1	Introduction	4.8-1
4.8.2	Alternative A – Proposed Project	4.8-16
4.8.3	Alternative B – Northwest Stony Point Casino	4.8-30
4.8.4	Alternative C – Northeast Stony Point Casino	4.8-42
4.8.5	Alternative D – Reduced Intensity.....	4.8-52
4.8.6	Alternative E – Business Park	4.8-62
4.8.7	Alternative F – Lakeville Casino	4.8-73
4.8.8	Alternative G – No Action.....	4.8-84
4.9	Public Services.....	4.9-1
4.9.1	Alternative A – Proposed Project	4.9-1
4.9.2	Alternative B – Northwest Stony Point Casino	4.9-12
4.9.3	Alternative C – Northeast Stony Point Casino	4.9-19
4.9.4	Alternative D – Reduced Intensity.....	4.9-23
4.9.5	Alternative E – Business Park	4.9-29
4.9.6	Alternative F – Lakeville Casino	4.9-35
4.9.7	Alternative G – No Action.....	4.9-39
4.10	Other Values	4.10-1
4.10.1	Alternative A – Proposed Project	4.10-1
4.10.2	Alternative B – Northwest Stony Point Casino	4.10-11
4.10.3	Alternative C – Northeast Stony Point Casino	4.10-28
4.10.4	Alternative D – Reduced Intensity.....	4.10-37
4.10.5	Alternative E – Business Park	4.10-46
4.10.6	Alternative F – Lakeville Casino	4.10-51
4.10.7	Alternative G – No Action.....	4.10-60

4.11 Indirect and Growth Inducing Effects.....4.11-1
 4.11.1 Growth Inducing Effects.....4.11-1
 4.11.2 Indirect Effects from Off-site Traffic Mitigation4.11-5
 4.11.3 Indirect Effects from Off-site Pipeline Construction.....4.11-9
 4.12 Cumulative Effects.....4.12-1
 4.12.1 Introduction4.12-1
 4.12.2 Other Actions and Projects4.12-2
 4.12.3 Cumulative Environmental Effects.....4.12-17

5.0 MITIGATION MEASURES

5.1 Introduction5-1
 5.2 Mitigation Measures5-1
 5.2.1 Land Resources.....5-1
 5.2.2 Water Resources5-3
 5.2.3 Air Quality5-9
 5.2.4 Biological Resources5-18
 5.2.5 Cultural and Paleontological Resources5-25
 5.2.6 Socioeconomic Conditions5-26
 5.2.7 Resource Use Patterns5-28
 5.2.8 Public Services5-52
 5.2.9 Other Values5-56

6.0 CONSULTATION AND COORDINATION6-1

6.1 Lead Agency6-1
 6.2 Other Federal Agencies.....6-1
 6.3 State Agencies.....6-2
 6.4 Local Agencies6-2
 6.5 Other Organizations6-5

7.0 LIST OF PREPARERS7-1

7.1 Lead Agency7-1
 7.2 Cooperating Agencies.....7-1
 7.3 Environmental Consultants7-1

8.0 ACRONYMS AND ABBREVIATIONS8-1

9.0 REFERENCES9-1

LIST OF TABLES

ES-1 Summary of Potential Environmental Effects, Mitigation Measures, and Significance..... ES-8
 1-1 Wilfred Site Parcels 1-4
 1-2 Stony Point Site Parcels 1-9
 1-3 Lakeville Site Parcels..... 1-10
 1-4 Potential Permits and Approvals Required 1-22
 2-1 Alternative A – Proposed Project Components2-7
 2-2 Wastewater Treatment Options.....2-12

2-3 Alternative D – Reduced Intensity Alternative Components.....2-47

2-4 Alternative E – Business Park Alternative Components.....2-56

2-5 Alternative G – NWSP Southern Area Planned Land Use Program2-72

2-6 Alternative G – Winfred Site Overlap of NWSP Southern Area Planned Land Use Program...2-72

2-7 Alternatives Eliminated from Further Consideration.....2-82

3.2-1 Modified Mercalli Intensity Scale.....3.2-5

3.2-2 Project Soil Limitations – Wilfred Site.....3.2-7

3.2-3 Deterministic Seismic Characteristics – Wilfred Site.....3.2-10

3.2-4 Project Soil Limitations – Stony Point Site3.2-17

3.2-5 Deterministic Seismic Characteristics – Stony Point Site.....3.2-18

3.2-6 Project Soil Limitations – Lakeville Site3.2-24

3.2-7 Deterministic Seismic Characteristics – Lakeville Site3.2-25

3.4-1 National Ambient Air Quality Standards for Criteria Pollutants and Attainment Status
for the Bay Area Air Quality Management District.....3.4-7

3.4-2 SFBAAB Portion of Sonoma County 2005 Emissions Inventory (Tons per Day).....3.4-16

3.4-3 Emission Sources Greater Than 10 Tons per Year Within 10-Mile Radius of
Winfred Site3.4-17

3.4-4 Emission Sources Greater Than 10 Tons per Year Within 10-Mile Radius of
Lakeville Site3.4-18

3.4-5 Air Monitoring Data for Latest Monitoring Years in Project Areas.....3.4-19

3.4-6 Sources and Potential Health Effects of Major Indoor Air Pollutants3.4-28

3.5-1 Target Special Status Species List – Wilfred and Stony Point Site3.5-20

3.5-2 Target Special Status Species List – Lakeville Site3.5-29

3.7-1 Regional Population.....3.7-1

3.7-2 2004 Regional Housing Estimates3.7-3

3.7-3 Historical Vacancy Rates3.7-4

3.7-4 Labor Force Participation and Unemployment Rates3.7-5

3.7-5 Employment by Industry (2003).....3.7-6

3.7-6 Regional Income and Poverty (2003)3.7-6

3.7-7 Federated Indians of Graton Rancheria – Tribal Location by County (2004)3.7-7

3.7-8 Federated Indians of Graton Rancheria – Household Income (2004).....3.7-8

3.7-9 Minority Population by Census Tract – Wilfred Site, Stony Point Site and Vicinity.....3.7-14

3.7-10 Minority Population by Census Tract – Lakeville Site and Vicinity3.7-15

3.7-11 Household Income Data by Census Tract – Lakeville Site and Vicinity.....3.7-18

3.7-12 Household Income Data by Census Tract – Lakeville Site and Vicinity.....3.7-19

3.8-1 Intersection Level of Service Definitions3.8-7

3.8-2 LOS Standards – Wilfred and Stony Point Sites.....3.8-7

3.8-3 Existing Freeway Segment and Ramp Performance – Wilfred and Stony Point Sites3.8-10

3.8-4 Existing Peak Hour Intersection Performance – Wilfred and Stony Point Sites3.8-14

3.8-5 LOS Standards – Lakeville Site3.8-19

3.8-6 Existing Freeway Segment and Ramp Performance – Lakeville Site.....3.8-20

3.8-7 Existing PM Peak Hour Intersection Performance – Lakeville Site3.8-22

3.8-8 Farmland Conversion in Sonoma County3.8-49

3.9-1 Rohnert Park Police Beat Locations3.9-13

3.9-2 Comparison of Criminal Activity in Rohnert Park (1998 and 2002).....3.9-14

3.9-3 Rohnert Park Fire Services Division – Common Calls (1998-2002).....3.9-16

3.9-4 School Information by District (2002-2003)3.9-22

3.10-1 Acoustical Terminology.....3.10-2

3.10-2 Typical A-Weighted Sound Levels of Common Noise Sources.....3.10-3

3.10-3 Measures of Substantial Increase for Transportation Noise Exposure3.10-4

3.10-4 Measured Ambient Noise Levels.....3.10-8

3.10-5 Noise Measurement Summary and FHWA Model Calibration3.10-9

3.10-6 Databases Searched.....3.10-19

3.10-7 Data Point Light Readings3.10-34

3.10-8 Data Point Light Readings3.10-44

4.4-1 Calculation of Average Trip Length.....4.4-3

4.4-2 Construction-Related Emissions (Tons per Year)4.4-8

4.4-3 Near-term Operational Emissions.....4.4-11

4.5-1 Anticipated Effects to Habitat Types – Alternative A, Option 24.5-1

4.5-2 Anticipated Effects to Habitat Types – Alternative A, Option 34.5-2

4.5-3 Impacts and Mitigation Requirements for Alternative A, Options 2 and 34.5-4

4.5-4 Anticipated Direct Effects to Waters of the U.S. – Alternative A, Option 24.5-9

4.5-5 Anticipated Direct Effects to Waters of the U.S. – Alternative A, Option 34.5-9

4.5-6 Anticipated Effects to Habitat Types – Alternative B, Option 14.5-9

4.5-7 Anticipated Effects to Habitat Types – Alternative B, Option 24.5-10

4.5-8 Mitigation Requirements for Alternatives B, Options 1 and 24.5-11

4.5-9 Anticipated Direct Effects to Waters of the U.S. – Alternative B, Option 14.5-16

4.5-10 Anticipated Direct Effects to Waters of the U.S. – Alternative B, Option 24.5-16

4.5-11 Anticipated Effects to Habitat Types – Alternative C, Option 14.5-17

4.5-12 Anticipated Effects to Habitat Types – Alternative C, Option 24.5-17

4.5-13 Mitigation Requirements for Alternatives C, Options 1 and 24.5-18

4.5-14 Anticipated Direct Effects to Waters of the U.S. – Alternative C, Option 14.5-20

4.5-15 Anticipated Direct Effects to Waters of the U.S. – Alternative C, Option 24.5-20

4.5-16 Anticipated Effects to Habitat Types – Alternative D, Option 14.5-23

4.5-17 Anticipated Effects to Habitat Types – Alternative D, Option 24.5-23

4.5-18 Mitigation Requirements for Alternatives D, Options 1 and 24.5-24

4.5-19 Anticipated Direct Effects to Waters of the U.S. – Alternative D, Option 14.5-25

4.5-20 Anticipated Direct Effects to Waters of the U.S. – Alternative D, Option 24.5-25

4.5-21 Anticipated Effects to Habitat Types – Alternative E, Option 1.....4.5-28

4.5-22 Anticipated Effects to Habitat Types – Alternative E, Option 2.....4.5-28

4.5-23 Mitigation Requirements for Alternative E, Options 1 and 2.....4.5-29

4.5-24 Anticipated Direct Effects to Waters of the U.S. – Alternative E, Option 1.....4.5-30

4.5-25 Anticipated Direct Effects to Waters of the U.S. – Alternative E, Option 2.....4.5-30

4.5-26 Anticipated Effects to Habitat Types – Alternative F, Option 1.....4.5-34

4.5-27 Anticipated Effects to Habitat Types – Alternative F, Option 2.....4.5-34

4.5-28 Anticipated Direct Effects to Waters of the U.S. – Alternative F, Option 1.....4.5-36

4.5-29 Anticipated Direct Effects to Waters of the U.S. – Alternative F, Option 2.....4.5-36

4.7-1 Direct Economic Impact during Construction4.7-2

4.7-2 Direct Annual Operating Socioeconomic Impact4.7-2

4.7-3 Indirect and Induced Construction Impact.....4.7-5

4.7-4 Indirect and Induced Operation Impact4.7-6

4.7-5 Existing Sonoma County Service Population4.7-9

4.7-6 Estimated Increase in Sonoma County Service Population per Alternative4.7-10

4.7-7 Existing Annual Sonoma County Revenue Sources.....4.7-11

4.7-8 Existing Annual Sonoma County Appropriations4.7-11

4.7-9 Estimated Annual Fiscal Impacts to Sonoma County per Alternative.....4.7-12

4.7-10 Comparative Casinos4.7-13

4.7-11 2003 Crime Statistics by Comparative Casino4.7-15

4.8-1 Freeway Segment and Ramp Performance – 2008 Without Project – Wilfred
and Stony Point Sites4.8-7

4.8-2 2008 PM Peak Intersection Conditions – Wilfred and Stony Point Sites4.8.8

4.8-3 Sonoma County General Plan Consistency – Project Alternatives.....4.8-10

4.8-4 City of Rohnert Park General Plan Consistency – Project Alternatives4.8-14

4.8-5 Project Trip Generation – Alternative A.....4.8-19

4.8-6 Freeway Segment and Ramp Performance – 2008 – Alternative A4.8-23

4.8-7 Intersection LOS – Alternative A4.8-25

4.8-8 Project Trip Generation – Alternative B4.8-31

4.8-9 Freeway Segment and Ramp Performance – 2008 – Alternative B.....4.8-36

4.8-10 Intersection LOS – Alternative B4.8-37

4.8-11 Project Trip Generation – Alternative C4.8-43

4.8-12 Freeway Segment and Ramp Performance – 2008 – Alternative C.....4.8-47

4.8-13 Intersection LOS – Alternative C4.8-49

4.8-14 Project Trip Generation – Alternative D.....4.8-53

4.8-15 Freeway Segment and Ramp Performance – 2008 – Alternative D4.8-58

4.8-16 Intersection LOS – Alternative D4.8-59

4.8-17 Project Trip Generation – Alternative E4.8-63

4.8-18 Freeway Segment and Ramp Performance 2008 – Alternative E.....4.8-68

4.8-19 Intersection LOS – Alternative E.....4.8-70

4.8-20 Project Trip Generation – Alternative F4.8-77

4.8-21 Freeway Segment and Ramp Performance – 2008 – Alternative F4.8-80

4.8-22 Intersection LOS – Alternative F4.8-81

4.9-1 Alternative A – Projected Wastewater Flows4.9-2

4.9-2 Solid Waste Disposal Estimate – Alternative A4.9-5

4.9-3 Alternative D – Projected Wastewater Flows4.9-24

4.9-4 Solid Waste Disposal Estimate – Alternative D4.9-26

4.9-5 Alternative E – Projected Wastewater Flows4.9-30

4.9-6 Solid Waste Disposal Estimate – Alternative E.....4.9-31

4.10-1 Typical Construction Noise Levels.....4.10-2

4.10-2 Predicted Traffic Noise Levels At Reference Distances – Alternatives A-E.....4.10-5

4.10-3 Changes in Predicted Traffic Noise Levels at Reference Distances – Alternatives A-E.....4.10-6

4.10-4 Predicted Traffic Noise Levels At Reference Distances – Alternative F.....4.10-58

4.10-5 Changes In Predicted Traffic Noise Levels At Reference Distances – Alternative F.....4.10-58

4.10-6 Predicted Traffic Noise Levels at Reference Distances – Alternative G4.10-65

4.10-7 Changes in Predicted Traffic Noise Levels at Reference Distances – Alternative G4.10-67

4.11-1 Worker Absorption Capacity by Area4.11-3

4.11-2 Indirect and Induced Construction Impact.....4.11-7

4.11-3 Indirect and Induced Operation Impact.....4.11-8

4.11-4 Existing Sonoma County Service Population4.11-10

4.11-5 Estimated Increase in Sonoma County Service Population per Alternative4.11-11

4.11-6 Existing Annual Sonoma County Revenue Sources4.11-12

4.11-7 Existing Annual Sonoma County Appropriations4.11-12

4.11-8 Estimated Annual Fiscal Impacts to Sonoma County per Alternative.....	4.11-13
4.12-1 Planned Development Projects	4.12-8
4.12-2 Regional Emissions Trends.....	4.12-21
4.12-3 Emissions as a Percent of County Total (Near Term).....	4.12-24
4.12-4 Emissions as a Percent of County Total (2020).....	4.12-24
4.12-5 2020 Emissions Compared to BAAQMD Thresholds.....	4.12-25
4.12-6 Regional Population Trends.....	4.12-29
4.12-7 Freeway Segment and Ramp Performance – Cumulative 2020.....	4.12-36
4.12-8 Peak Hour Intersection Conditions – Cumulative 2020.....	4.12-37
4.12-9 Predicted Cumulative Traffic Noise Levels at Reference Distances – Alternatives A-E	4.12-47
4.12-10 Changes in Predicted Cumulative Traffic Noise Levels at Reference Distances – Alternatives A-E	4.12-48
4.12-11 Highway Section/Ramp LOS – Alternative F.....	4.12-82
4.12-12 Peak Hour Intersection Conditions – Cumulative Plus Alternative F.....	4.12-86
4.12-13 Predicted Cumulative Traffic Noise Levels at Reference Distances – Alternative F	4.12-89
4.12-14 Changes in Predicted Cumulative Traffic Noise Levels at Reference Distances – Alternative F	4.12-89
5-1 Near-term Operational Mitigated Emissions.....	5-14
5-2 Mitigation Requirements for Impacts to Listed Plant Species of the Santa Rosa Plain.....	5-19
5-3 Impacts and Mitigation Requirements for CTS	5-21
5-4 Intersection Improvements – Alternatives A-E	5-28
5-5 Intersection Improvements – Alternatives F.....	5-39
5-6 Intersection LOS After Mitigation – Alternatives A-E (2008).....	5-43
5-7 Intersection LOS After Mitigation – Alternatives A-E (2020).....	5-44
5-8 Intersection LOS After Mitigation – Alternative F (2008 and 2020)	5-45
5-9 Freeway/ Ramp Segment LOS After Mitigation – Alternatives A-E (2008 and 2020).....	5-48
5-10 Freeway/ Ramp Segment LOS After Mitigation – Alternative F (2008 and 2020).....	5-49

LIST OF FIGURES

1-1 Regional Location.....	1-5
1-2 Wilfred Site – Site and Vicinity	1-6
1-3 Wilfred Site – Aerial Site Map	1-7
1-4 Wilfred Site – Parcel Map.....	1-8
1-5 Stony Point Site – Site and Vicinity Map	1-11
1-6 Stony Point Site – Aerial Site Map.....	1-12
1-7 Stony Point Site – Parcel Map	1-13
1-8 Lakeville Site – Site and Vicinity Map.....	1-14
1-9 Lakeville Site – Aerial Site Map.....	1-15
1-10 Lakeville Site – Parcel Map.....	1-16
2-1 Alternative A – Site Plan	2-5
2-2 Alternatives A and B – Architectural Rendition.....	2-6
2-3 Alternative A – Grading/Drainage Plan.....	2-10
2-4 Alternative A – Grading/Drainage Plan - Stormwater Detention Basin	2-13
2-5 Alternative A – Water/Wastewater Facilities (Option 1).....	2-15
2-6 Alternative A – Water/Wastewater Facilities (Option 2).....	2-17

2-7	Alternative A – Water/Wastewater Facilities (Option 3).....	2-18
2-8	Alternative B – Site Plan.....	2-27
2-9	Alternative B – Site Photo	2-30
2-10	Alternative B – Grading/Drainage Plan	2-31
2-11	Alternatives B, D, and E – Grading/Drainage Plan – Stormwater Detention/Floodplain Storage	2-32
2-12	Alternative B – Water/Wastewater Facilities (Option 1).....	2-34
2-13	Alternative B – Water/Wastewater Facilities (Option 2).....	2-35
2-14	Alternative C – Site Plan.....	2-37
2-15	Alternative C – Grading/Drainage Plan	2-39
2-16	Alternative C – Grading/Drainage Plan – Stormwater Detention/Floodplain Storage	2-40
2-17	Alternative C – Water/Wastewater Facilities (Option 1).....	2-42
2-18	Alternative C – Water/Wastewater Facilities (Option 2).....	2-43
2-19	Alternative D – Site Plan	2-45
2-20	Alternative D – Grading/Drainage Plan.....	2-49
2-21	Alternative D – Water/Wastewater Facilities (Option 1)	2-50
2-22	Alternative D – Water/Wastewater Facilities (Option 2).....	2-51
2-23	Alternative E – Site Plan.....	2-54
2-24	Alternative E – Architectural Rendition	2-55
2-25	Alternative E – Grading/Drainage Plan	2-57
2-26	Alternative E – Water/Wastewater Facilities (Option 1)	2-59
2-27	Alternative E – Water/Wastewater Facilities (Option 2)	2-60
2-28	Alternative F – Site Plan	2-62
2-29	Alternative F – Grading/Drainage Plan	2-65
2-30	Alternative F – Water/Wastewater Facilities (Option 1)	2-67
2-31	Alternative F – Water/Wastewater Facilities (Option 2)	2-68
2-32	Alternative G – Northwest Specific Plan - Location Map	2-70
2-33	Alternative G – Northwest Specific Plan - Southern Area Land Use	2-71
2-34	Alternatives Eliminated from Further Consideration – Alternative Gaming Sites	2-77
2-35	Agilent Site – Site and Vicinity Map.....	2-80
2-36	Agilent Site – Aerial Photo	2-81
2-37	Alternative H Site Plan	2-85
3.2-1	West Coast Geomorphic Provinces	3.2-2
3.2-2	West Coast Geomorphic Provinces – Topography	3.2-3
3.2-3	Wilfred Site Topography	3.2-8
3.2-4	Wilfred Site Soil Map	3.2-9
3.2-5	Regional Fault Map	3.2-11
3.2-6	Wilfred Site Liquefaction Susceptibility Map	3.2-13
3.2-7	Stony Point Site Topography	3.2-15
3.2-8	Stony Point Site Soil Map.....	3.2-16
3.2-9	Stony Point Site Liquefaction Susceptibility Map.....	3.2-20
3.2-10	Lakeville Site Topography.....	3.2-21
3.2-11	Lakeville Site Soil Map	3.2-23
3.3-1	Laguna de Santa Rosa Watershed Map.....	3.3-3
3.3-2	Wilfred and Stony Point Site Floodplain Map.....	3.3-4
3.3-3	Lakeville Site Floodplain Map.....	3.3-8
3.3-4	Regional Groundwater Basins	3.3-9

3.4-1 Temperature Inversions3.4-3

3.4-2 Relative Sizes of Particulate Matter Pollution3.4-11

3.5-1 Vegetation Map – Stony Point and Wilfred Site3.5-6

3.5-2 California Annual Grassland – Stony Point Site.....3.5-7

3.5-3 Seasonal Pools and Wet Areas – Stony Point Site.....3.5-10

3.5-4 Drainage Ditches and Canals – Stony Point Site3.5-12

3.5-5 Locations of Special Status Plant Populations – Stony Point Site and Vicinity3.5-17

3.5-6 Reported Locations of California Tiger Salamander in the Vicinity of the Stony Point Site ..3.5-19

3.5-7 Waters of the U.S. – Wilfred and Stony Point Sites3.5-44

3.5-8 Summary of Biological Resources - Lakeville Site and Vicinity3.5-45

3.5-9 Laguna de Santa Rosa Resource Atlas and Protection Plan Study Area3.5-47

3.7-1 Census Tract Map – Wilfred Site and Stony Point Site and Vicinity3.7-11

3.7-2 Census Tract Map – Lakeville Site and Vicinity3.7-12

3.8-1 Area Road Network – Alternatives A, B, C, D, and E..... 3.8-2

3.8-2 Existing Lane Geometry and Traffic Control – Alternatives A, B, C, D, and E.....3.8-3

3.8-3 Project Study Intersections – Alternatives A, B, C, D, and E.....3.8-13

3.8-4 Existing Peak Hour Turning Movement Volumes – Alternatives A, B, C, D, and E..... 3.8-15

3.8-5 Area Roadway Network – Alternative F.....3.8-16

3.8-6 Existing Lane Geometry and Traffic Control – Alternative F3.8-17

3.8-7 Project Study Intersections – Alternative F3.8-23

3.8-8 Existing Peak Hour Turning Volumes – Alternative F.....3.8-24

3.8-9 Existing Development Surrounding the Wilfred and Stony Point Sites3.8-28

3.8-10 Planning Areas Surrounding Wilfred Site3.8-30

3.8-11 General Plan Land Use Areas – Wilfred Site and Vicinity.....3.8-31

3.8-12 Zoning Designations – Wilfred Site and Vicinity.....3.8-33

3.8-13 Planning Areas Surrounding Stony Point Site3.8-39

3.8-14 General Plan Land Use Areas – Stony Point Site and Vicinity3.8-40

3.8-15 Zoning Designations – Stony Point Site and Vicinity3.8-41

3.8-16 General Plan Land Use Areas – Lakeville Site and Vicinity3.8-44

3.8-17 Zoning Designations – Lakeville Site and Vicinity3.8-45

3.8-18 Williamson Act Parcels.....3.8-51

3.9-1 Municipal Well Locations.....3.9-2

3.9-2 Well Locations – Wilfred Site and Stony Point Site and Vicinity3.9-3

3.9-3 Fire Station Locations3.9-18

3.9-4 School Districts.....3.9-21

3.10-1 Ambient Noise Measurement Location – Wilfred and Stony Point Sites.....3.10-6

3.10-2 Ambient Noise Measurement Location – Lakeville Site3.10-7

3.10-3 Former Naval Auxiliary Air Station Location3.10-12

3.10-4 Sampling Locations3.10-15

3.10-5 Viewshed, Rohnert Park Sites.....3.10-26

3.10-6 Viewshed Site Photograph.....3.10-28

3.10-7 Viewshed Site Photograph.....3.10-29

3.10-8 Viewshed Site Photograph.....3.10-31

3.10-9 Viewshed Site Photograph.....3.10-32

3.10-10 Viewshed Site Photograph3.10-33

3.10-11 Viewshed Site Photograph3.10-38

3.10-12 Viewshed – Lakeville Site.....3.10-42

3.10-13 Viewshed Site Photograph 3.10-45

3.10-14 Viewshed Site Photograph 3.10-46

3.10-15 Viewshed Site Photograph 3.10-47

3.10-16 Viewshed Site Photograph 3.10-48

4.5-1 Wetland Impacts and Mitigation Requirements – Alternative A, Option 1 4.5-7

4.5-2 Wetland Impacts and Mitigation Requirements – Alternative A, Option 2 4.5-8

4.5-3 Wetland Impacts – Alternative B, Option 1 4.5-14

4.5-4 Wetland Impacts – Alternative B, Option 2 4.5-15

4.5-5 Wetland Impacts – Alternative C, Option 1 4.5-21

4.5-6 Wetland Impacts – Alternative C, Option 2 4.5-22

4.5-7 Wetland Impacts – Alternative D, Option 1 4.5-26

4.5-8 Wetland Impacts – Alternative D, Option 2 4.5-27

4.5-9 Wetland Impacts – Alternative E, Option 1 4.5-32

4.5-10 Wetland Impacts – Alternative E, Option 2 4.5-33

4.8-1 2008 Lane Geometry and Traffic Control – Wilfred and Stony Point Site Vicinity 4.8-2

4.8-2 2008 No Project PM Traffic Volumes – Wilfred and Stony Point Site Vicinity 4.8-4

4.8-3 2008 Project Generated PM Traffic Volumes – Alternative A 4.8-20

4.8-4 Project Trip Distribution (In) – Alternative A 4.8-21

4.8-5 Project Trip Distribution (Out) – Alternative A 4.8-22

4.8-6 2008 Plus Project PM Traffic Volumes – Alternative A 4.8-27

4.8-7 2008 Project Generated PM Traffic Volumes – Alternative B 4.8-32

4.8-8 Project Trip Distribution (In) – Alternative B 4.8-34

4.8-9 Project Trip Distribution (Out) – Alternative B 4.8-35

4.8-10 2008 Plus Project PM Traffic Volumes – Alternative B 4.8-39

4.8-11 2008 Project Generated PM Traffic Volumes – Alternative C 4.8-44

4.8-12 Project Trip Distribution (In) – Alternative C 4.8-45

4.8-13 Project Trip Distribution (Out) – Alternative C 4.8-46

4.8-14 2008 Plus Project PM Traffic Volumes – Alternative C 4.8-50

4.8-15 2008 Project Generated PM Traffic Volumes – Alternative D 4.8-55

4.8-16 Project Trip Distribution (In) – Alternative D 4.8-56

4.8-17 Project Trip Distribution (Out) – Alternative D 4.8-57

4.8-18 2008 Plus Project PM Traffic Volumes – Alternative D 4.8-60

4.8-19 2008 Project Generated PM Traffic Volumes – Alternative E 4.8-65

4.8-20 Project Trip Distribution (In) – Alternative E 4.8-66

4.8-21 Project Trip Distribution (Out) – Alternative E 4.8-67

4.8-22 2008 Plus Project PM Traffic Volumes – Alternative E 4.8-71

4.8-23 2008 Lane Geometry and Traffic Control – Lakeville Site Vicinity 4.8-74

4.8-24 2008 No Project PM Traffic Volumes – Lakeville Site Vicinity 4.8-75

4.8-25 2008 Project Generated PM Traffic Volumes – Alternative F 4.8-77

4.8-26 Project Trip Distribution (In) – Alternative F 4.8-78

4.8-27 Project Trip Distribution (Out) – Alternative F 4.8-79

4.8-28 2008 Plus Project PM Traffic Volumes – Alternative F 4.8-83

4.10-1 Alternative A Massing: Southwest View of Wilfred Site (RP01) 4.10-12

4.10-2 Alternative A Massing: Wilfred Channel Looking Southeast (RP03) 4.10-13

4.10-3 Alternative A Massing: Corner of Wilfred Avenue and Stony Point Road Looking
Southeast (RP04) 4.10-14

4.10-4 Alternative A Massing: Stony Point Road and Rohnert Park Expressway Looking

Northeast (RP05).....4.10-15

4.10-5 Alternative A Massing: Northwest View from Business Park Drive (RP06).....4.10-16

4.10-6 Alternative B Massing: Bellevue-Wilfred Channel Looking Southwest (RP02)4.10-24

4.10-7 Alternative B Massing: Corner of Wilfred Avenue and Stony Point Road Looking
Southeast (RP04).....4.10-25

4.10-8 Alternative B Massing: Stony Point Road and Rohnert Park Expressway Looking
Northeast (RP05).....4.10-26

4.10-9 Alternative B Massing: Northwest View from Business Park Drive (RP06)4.10-27

4.10-10 Alternative C Massing: Bellevue-Wilfred Channel Looking Southwest (RP03).....4.10-33

4.10-11 Alternative C Massing: Corner of Wilfred avenue and Stony Point Road Looking
Southeast (RP04).....4.10-34

4.10-12 Alternative C Massing: Stony Point Road and Rohnert Park Expressway Looking
Northeast (RP05).....4.10-35

4.10-13 Alternative C Massing: Northwest View from Business Park Drive (RP06).....4.10-36

4.10-14 Alternative D Massing: Bellevue-Wilfred Channel Looking Southwest (RP02).....4.10-43

4.10-15 Alternative D Massing: Corner of Wilfred Avenue and Stony Point Road Looking
Southeast (RP04).....4.10-44

4.10-16 Alternative D Massing: Stony Point Road and Rohnert Park Expressway Looking
Northeast (RP05).....4.10-45

4.10-17 Alternative D Massing: Northwest View from Business Park Drive (RP06)4.10-46

4.10-18 Alternative E Massing: Bellevue-Wilfred Channel Looking Southwest (RP02)4.10-52

4.10-19 Alternative E Massing: Corner of Wilfred Avenue and Stony Point Road Looking
Southeast (RP04).....4.10-53

4.10-20 Alternative E Massing: Stony Point Road and Rohnert Park Expressway Looking
Northeast4.10-54

4.10-21 Alternative E Massing: Northwest View from Business Park Drive (RP06).....4.10-55

4.10-22 Alternative F Massing: Southward View from Lakeville Highway (LV01).....4.10-61

4.10-23 Alternative F Massing: Northward View from Lakeville Highway (LV02).....4.10-62

4.10-24 Alternative F Massing: Northward View from Hwy 37 at Lakeville Highway (LV03)4.10-63

4.10-25 Alternative F Massing: Northward View from Hwy 37 at Petaluma River (LV04)4.10-64

4.12-1 Planned Regional Cumulative Development – Rohnert Park Area4.12-5

4.12-2 Planned Regional Cumulative Development – Cities of Petaluma, Novato, and Sonoma4.12-6

4.12-3 Planned Development Surrounding the Wilfred and Stony Point Sites.....4.12-7

4.12-4 2020 Lane Geometry and Traffic Control – Alternative A, B, C, D, & E4.12-33

4.12-5 2020 No Project PM Traffic Volumes – Alternatives A, B, C, D, & E4.12-34

4.12-6 2020 Cumulative Plus Project PM Traffic Volumes – Alternative A.....4.12-41

4.12-7 2020 Cumulative Plus Project PM Traffic Volumes – Alternative B4.12-54

4.12-8 2020 Cumulative Plus Project PM Traffic Volumes – Alternative C4.12-62

4.12-9 2020 Cumulative Plus Project PM Traffic Volumes – Alternative D.....4.12-68

4.12-10 2020 Cumulative Plus Project PM Traffic Volumes – Alternative E4.12-75

4.12-11 2020 Lane Geometry and Traffic Control- Alternative F4.12-83

4.12-12 2020 No Project Cumulative PM Traffic Volumes – Alternative F4.12-84

4.12-13 2020 Cumulative Plus Project PM Traffic Volumes – Alternative F.....4.12-87

5.2.7-1Location of Traffic Mitigation Intersections – Alternatives A, B, C, D, & E.....5-34

5.2.7-2Close-up View of Intersections 1-6 – A, B, C, D & E.....5-35

5.2.7-3Close-up View of Intersections 7-12 – A, B, C, D & E.....5-36

5.2.7-4Close-up View of Intersections 13-18 – A, B, C, D & E.....5-37

5.2.7-5 Close-up View of Intersections 19-22 – A, B, C, D & E5-38
 5.2.7-6 Location of Traffic Mitigation Intersections – Alternative F.....5-40
 5.2.7-7 Close-up View of Intersections 1-6 – Alternative F5-41
 5.2.7-8 Close-up View of Intersections 7-9 – Alternative F5-42

APPENDICES

VOLUME I

Appendix A Notices of Intent (NOI)
 Appendix B Scoping Reports
 Appendix C Site Grading and Storm Drainage
 Appendix D Water and Wastewater Feasibility Study and Culvert Flow Capacity Estimate
 Appendix E Memoranda of Understanding (MOU)
 Appendix F Geotechnical Studies
 Appendix G Groundwater Studies
 Appendix H City of Rohnert Park Final Water Supply Assessment and Additional Technical Memorandum of January 2005
 Appendix I USFWS Letter and List, CNDDDB and CNPS Lists

VOLUME II

Appendix J Biological Assessment (Wilfred and Stony Point Sites)
 Appendix K Biological Assessment (Lakeville Site)
 Appendix L Waters of the United States Delineation
 Appendix M Cultural Resources Reports (Bound Under Separate Cover) and Native American Consultation
 Appendix N Socioeconomic Report

VOLUME III

Appendix O Traffic Impact Studies

VOLUME IV

Appendix P NRCS Consultation
 Appendix Q Project Land Use Zoning Combining Districts
 Appendix R Environmental Noise Analysis
 Appendix S Phase I and Phase II Environmental Site Assessments
 Appendix T Phase I and II, and Records Research Report – Former Naval Air Station and Vicinity
 Appendix U Lakeville Site EDR
 Appendix V Effluent Study
 Appendix W Air Quality Modeling Results and Draft Conformity Determination
 Appendix X Northwest Specific Plan
 Appendix Y Supplemental Water Quality Impact Evaluation