Background Data: Corona Municipal Airport and Environs

INTRODUCTION

The westernmost airport in Riverside County, Corona Municipal Airport is popular not only as a place for basing general aviation aircraft but as a flight training destination for aircraft from nearby airports in Riverside, San Bernardino, and Orange counties. Its comparatively low-key atmosphere is attractive as an alternative to busier, tower-controlled, Riverside Municipal, Chino, and Fullerton Municipal airports. Some 400 aircraft are based at the airport as of 2003 and operations are estimated at 64,000 annually. Single-engine and light, twin-engine airplanes generate nearly all of the fixed-wing aircraft activity. Additionally, helicopters contribute substantially to the overall airport usage.

Corona Municipal Airport is unusual in that, while the airport is owned by the City of Corona, the land it occupies belongs to the U.S. Army Corps of Engineers. The airport lies within the Prado Flood Control Basin and is occasionally subject to inundation. For this and other environmental reasons, Corps policy precludes expansion of the developed area of the airport. At most, some additional hangars might be built in place of underutilized apron areas. No changes to the runway/taxiway system are planned. Furthermore, because the land is owned by a federal agency, the airport receives no Federal Aviation Administration funding.

Exhibit CO-1 describes the airport's major features. Exhibit CO-2 depicts the city-adopted airport layout plan. This drawing is from 1977, however, and has not been updated to delete once-proposed development that is no longer contemplated. Future activity increases reflected in Exhibit CO-3 merely assume greater utilization of existing facilities.

As indicated by Exhibits CO-4 and CO-5, most of Corona Municipal Airport's noise impacts are westward over the flood control basin. Exhibit CO-6 depicts the noise contours and other factors considered in delineation of the compatibility zones presented in Volume 1, Chapter 3. Residential areas immediately to the east dictate that aircraft avoid straight-in landing approaches from that direction. Information regarding nearby land uses is outlined in Exhibit CO-7 and mapped in Exhibit CO-8. In addition to the City of Corona, the City of Norco and Riverside County have jurisdiction over lands affected by the airport. Exhibit CO-9 assesses the consistencies and conflicts between these jurisdictions' land use policies and the policies of this *Compatibility Plan*.

GENERAL INFORMATION

- ➤ Airport Ownership: City of Corona
 - > Land leased from U.S. Army Corps of Engineers
- ➤ Year Opened: 1959
- ➤ Property Size
 - Lease area: 96± acres
 Avigation easements: None
- ➤ Airport Classification: General Aviation
- ➤ Airport Elevation: 533 feet MSL

AIRPORT PLANNING DOCUMENTS

- ➤ Airport Master Plan
 - > Full plan dated July 1977
 - > Updates prepared September 1985 and July 1987
- ➤ Airport Layout Plan Drawing
 - Last updated July 1977; shows development no longer planned by city

RUNWAY/TAXIWAY DESIGN

Runway 7-25

- ➤ Critical Aircraft: Medium twin
- ➤ Airport Reference Code: B-I (small)
- ➤ Dimensions: 3,200 ft. long, 60 ft. wide
 - > Runway 7 threshold displaced 200 ft.
 - > Runway 25 threshold displaced 200 ft.
- ➤ Pavement Strength (main landing gear configuration)
 - > 12,500 lbs (single wheel)
- ➤ Average Gradient: 0.6% (rising to east)
- ➤ Runwav Liahtina
 - > Medium-intensity edge lights
 - > Runway 25: Runway End Identifier Lights (REILs)
- ➤ Primary Taxiways: Full-length parallel on south

Helipads

- ► Location: Grass area south of Aviation Drive
- ➤ Lighting: None

TRAFFIC PATTERNS AND APPROACH PROCEDURES

- ➤ Airplane Traffic Patterns
 - > Runway 7: Right traffic
 - Pattern altitude: 1,000 ft. AGL light airplanes; 500 ft. AGL rotorcraft
- ➤ Instrument Approach Procedures (lowest minimums)
 - > VOR or GPS-A (no straight-in approach)
 - · Circling (11/4 mi. visibility; 947 ft. descent height)
- ➤ Standard Inst. Departure Procedures: None
- ➤ Visual Approach Aids
 - › Airport: Rotating beacon
 - > Runway 25: Visual Approach Slope Indicator (4.0°)
- ➤ Operational Restrictions / Noise Abatement Procedures
 - > Runway 25 approaches: For noise abatement, straight-in approach not recommended; avoid flight over homes on bluff to east; fly over Temescal Wash
 - > Runway 7 departures: Make 15° right turn to follow Temescal Wash
 - No touch-and-go operations 10 a.m. to 4 p.m. weekends and holidays
 - > Helicopters: Keep pattern north of railroad tracks

APPROACH PROTECTION

- ➤ Runway Protection Zones (RPZ)
 - > Runway 7: 1,000-ft. long; all on airport property
 - Runway 25: 1,000-ft. long; mostly off airport property
- ➤ Approach Obstacles
 - > Runway 7: Trees (1,200 ft. from runway end)
 - Runway 25: Fence (200 ft. from runway end);
 unlighted tower, 828 ft. MSL (3 miles east)

BUILDING AREA

- ➤ Location: South side of runway
- Aircraft Parking Capacity
 - Hangar spaces: 270±
 - Tiedowns: 250±
- ➤ Other Major Facilities

> Restaurant

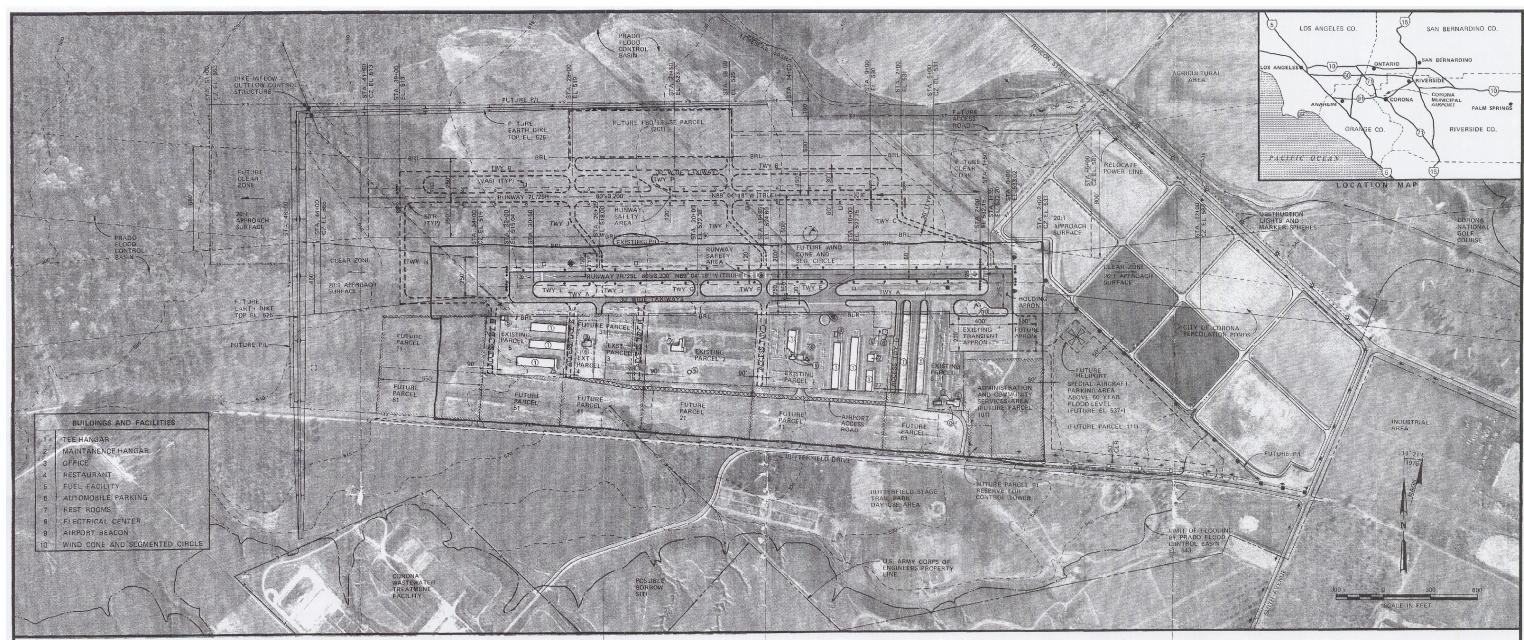
- ➤ Services
 - Fuel: 100LL (self-service at island, 24-hours; truck service during regular business hours)
 - Other: Aircraft maintenance, painting; aircraft rental, charter, sales; flight instruction; helicopter maintenance; helicopter crane

PLANNED FACILITY IMPROVEMENTS

- ➤ Airfield
 - > No runway length changes proposed
 - No instrument approach procedures improvements planned
- ➤ Building Area
 - > No expansion of building area acreage
 - > Possible conversion of apron area to hangars
- ➤ Property
 - > No acquisition proposed

Exhibit CO-1

Airport Features Summary



		LEGEND		
EXISTING	ULTIMATE			
500		GROUND CONTOUR LINES		
		PROPERTY AND LEASE LINE		
BRL-	BRL-	BUILDING RESTRICTION LINE		
	0 0 0 0	RUNWAY LIGHTS		
NOT SHOWN	NOT SHOWN	TAKIWAY LIGHTS		
	0000 0000	THRESHOLD LIGHTS		
600 000	900 990	RUNWAY END LIGHTS		
	0	VAPI OR VASI		
Δ Δ Δ		RUNWAY END IDENTIFIER LIGHTS (REIL		
* *		OBSTRUCTION LIGHTS		
		FACILITIES		
(a) 100 to		AIRPORT REFERENCE POINT (ARP)		
C CERC		BUILDINGS		
EXXXX		FACILITIES TO BE REMOVED		
		DRAINAGE COURSE		
·	>	DRAINAGE CULVERT		
		STORM DRAIN INLET		
xx	4XXX	CHAIN LINK FENCE		
0 0 0	0-0-0	STOCK FENCE		
+ + +	-000-	POWER POLES		

	BASIC DATA	TABLE		
	RUNWAY D	DATA		
	RUNWA	Y 7R/25L	RUNWAY 7L/25R	
	EXISTING	ULTIMATE	EXISTING	ULTIMATE
RUNWAY LENGTH	3,200	SAME	-	3,200
RUNWAY WIDTH	60	SAME	-	60
EFFECTIVE GRADIENT	0.56	SAME	-	0.56
PERCENT WIND COVERAGE	88.8	SAME	-	88.8
INSTRUMENT RUNWAY	NO	NO	-	NON-PRECISION
PAVEMENT STRENGTH ("SPHALT CONCRETE) 12,500=S.G.	SAME	~	12,500=S.G.
FAR PART 77 CATEGORY	VISUAL A	SAME	-	NON-PRECISION A
FAR PART 77 APPROACH SLOPES	20:1	SAME	-	20:1
ACTUAL CLEAR APPROACH SLOPES RW7	20:1-W/DISP, THRES.	20:1 W/O DISP. THRES.	-	20:1
RW25	20:1 W/ DISP. THRES	SAME	-	20:1 W/ DISP, THRES.
OPERATIONAL ROLE	BU-II	SAME	-	BU-II
LIGHTING	MIRL	SAME	-	MIRL
MARKING	BASIC	SAME	-	NON-PRECISION
NAVIGATIONAL AIDS	VAPI	VASI	-	VASI, VDP

BASIC	DATA TABLE	
AIR	PORT DATA	
	EXISTING	ULTIMATE
AIRPORT ELEVATION (MSL)	533'	533'
AIRPORT REFERENCE POINT (ARP) LAT	33° -53'-55''N	33°-53′-57′N
LNG	117°-36′-05′′W	117°-36′-09′W
TERMINAL NAVIGATION AIDS	NONE	VISUAL DESCENT POIN
NORMAL MAX. TEMP. HOTTEST MONTH	92°F	92°F
FUNCTIONAL ROLE	F1	F1
TAXIWAYS		
MARKING	STANDARD	STANDARD
LIGHTING	MITL W/ GUIDANCE SIGNS	MITL W/ GUIDANCE SIGNS

NOTES:

- 1. FOR ADDITIONAL INFORMATION REGARDING LEASE PARCELS AND FBO FACILITIES SEE AIRPORT LAND USE PL N.
- FOR ADDITIONAL INFORMATION REGARDING CLEAR ZONES, APPROACH SLOPES AND OBSTRUCTION SURFACES SEE ULTIMATE AIRPORT IMAGINARY SURFACES PLAN.
- RUNWAY 7L/25R TO BE BUILT AS TOUCH-AND-GO STRIP IN THE SHORT TERM WITH NO PARALLEL OR CONNECT-ING TAXIWAYS.
- TAXIWAY C TO BE CONSTRUCTED IN THE SHORT TERM TO BE USED AS AN EMERGENCY C.F.R. ROAD.
- 5. FOR DRAINAGE AND UTILITIES SEE UTILITIES PLAN.

	APPROVED Conditional
ULTIMATE	in our letter of 3
533'	FEDERAL AVIARION ADMIN
33°-53′-57′N	12 011 61/2
117°-36′-09′W	Chief, Airport District
VISUAL DESCENT POINT	Chief, Airport District
92° F	
F1	
STANDARD	
MITL W/ GUIDANCE SIGNS	1

BASED AIRCRAFT			TIME OF DAY DISTRIBUTION	d	
	Current ^a	Future ^b		Current	Future
	2002/03 data	Ultimate	All Aircraft		
Aircraft Type			Day	96%	no
Single-Engine	330	data	Evening	3%	change
Twin-Engine, Piston	55	not	Night	1%	_
Turboprop	5	available			
Turbojet	0		RUNWAY USE DISTRIBUTION	l ^d	
Helicopters	10			Current	Future
Total	400	500	All Airplanes – Day/Evening,	/Night	
			Takeoffs & Landings	· · ·	
AIRCRAFT OPERATIONS			Runway 7	10%	no
	Current	Future	Runway 25	90%	change
	2002/03 data	Ultimate	Helicopters		· ·
Total			Takeoffs & Landings		
Annual	64,000 ^c	100,000 ^b	Helipad 7	10%	no
Average Day	175	274	Helipad 25	90%	change
Avolago Bay	170	27-7			
Distribution by Aircraft Type	d		FLIGHT TRACK USAGE d		
Single-Engine	76%		Current and Future		
Twin-Engine Piston	12%	no	Approaches, Runway 7		
Twin-Engine, Turboprop	2%	change	> 80% right traffic; 20% stra	aight-in	
Business Jet	<1%		➤ Departures, Runway 7	J	
Helicopter	10%		> 3%-7% straight-out; rema	ainder along Te	mescal Wash
			➤ Approaches, Runway 25		
Distribution by Type of Operation ^d			3%–5% straight-in; remainder along Temescal Wash		
Local	35%	30%	➤ Departures, Runway 25	. 3	
(incl. touch-and-goes	s)		> Single-engine: 30% left of	crosswind: 40%	left 45°: 20%
Itinerant	65%	70%	straight-out; 10% right 45		,,
			> Twin-engine: 10% left cre		eft 45°: 60%
			straight-out; 5% right 45°		, , , , , , , , , , , , , , , , , , , ,
			➤ Touch-and-Goes > 100% along Temescal Wash; downwind south of rail		
	line				
			➤ Helicopters		
> All operations to helipad; pattern north of			of rail line, west		
			of Smith Avenue		

Notes

- ^a Source: City records and airport manager's estimates
- ^b Projections based upon capacity of existing developed area for parking aircraft; time frame is indefinite, but is assumed to be at least 20 years in the future
- ^c Source: California Division of Aeronautics acoustical counter data for 2000 plus estimated helicopter activity
- ^d Source: Mead & Hunt estimates based upon input from airport manager

Exhibit CO-3

Airport Activity Data Summary

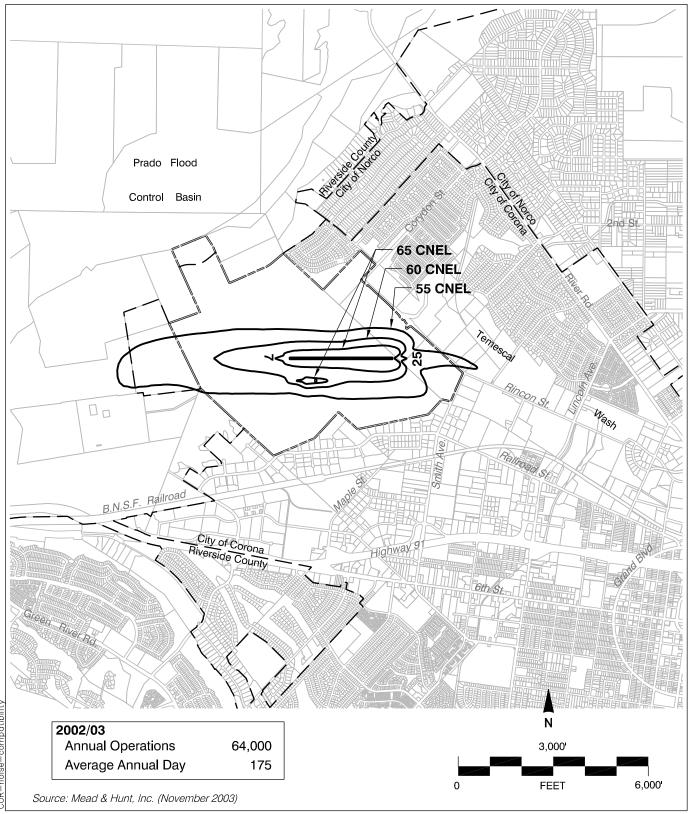


Exhibit CO-4

Existing Noise Impacts

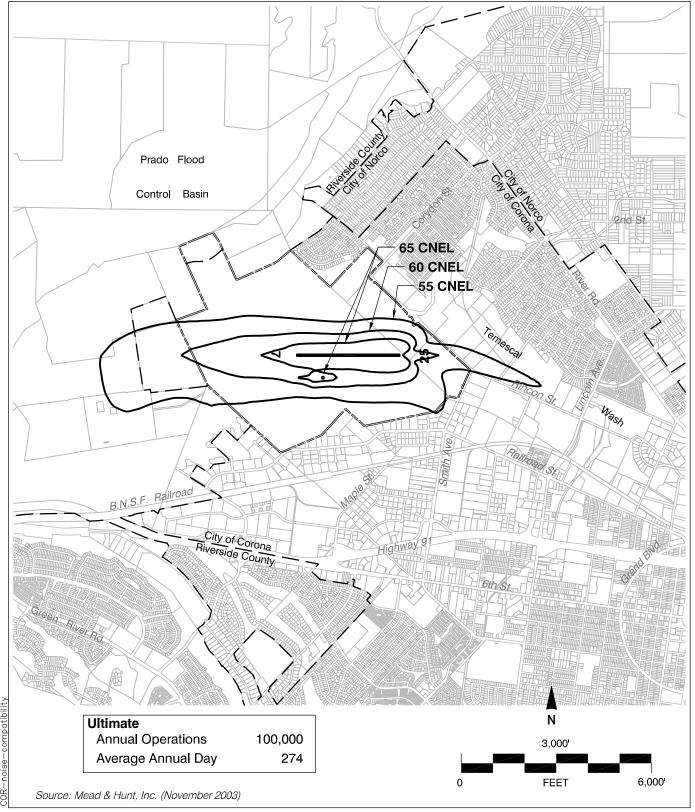
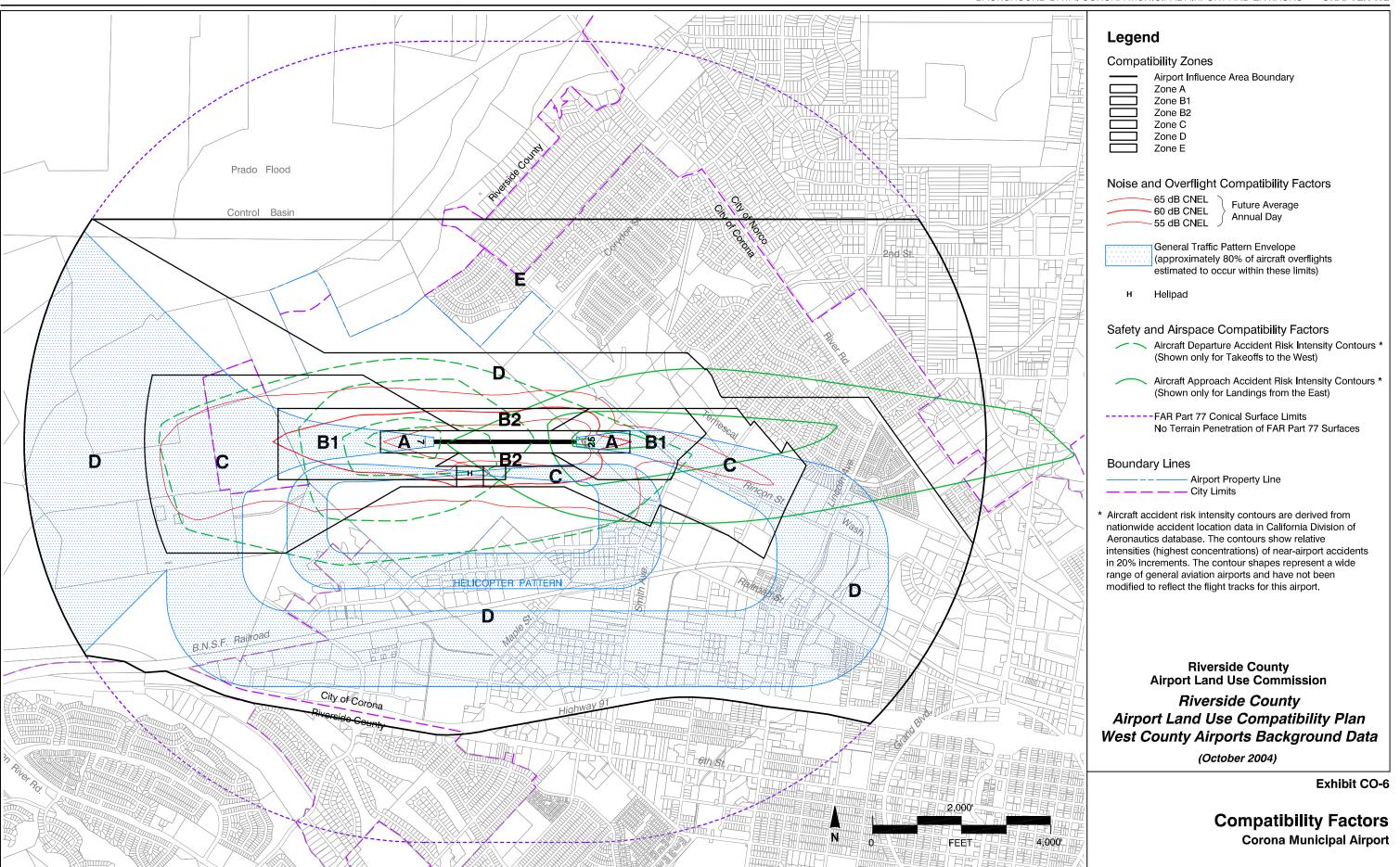


Exhibit CO-5

Future Noise Impacts

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AIRPORT SITE

- ➤ Location
 - Northwest Riverside County
 - > Approximately 3 miles northwest of Corona city center
 - San Bernardino County boundary 1.8 miles north and 2.7 miles west of airport
- ➤ Nearby Terrain
 - Airport inside the Prado Flood Control Basin; airport site flat
 - Low ridge (occupied by residential area) 1 mile east
 - > Chino Hills 4± miles west
 - Santa Ana Mountains (elev. 4,000± ft.) 5± miles southwest

AIRPORT ENVIRONS LAND USE JURISDICTIONS

- ➤ County of Riverside
 - Most nearby unincorporated land lies within Prado Flood Control Basin
 - Unincorporated island (Mountain View Country Club)
 1½ mile south
- ➤ City of Corona
 - > Airport and most areas within 1 mile in city limits
- ➤ City of Norco
 - > Nearest areas 0.7 mi. north, 1.1 mi. northeast of rwy
- ➤ U.S. Army Corps of Engineers
 - Corps owns airport property and flood control basin to west and northwest

STATUS OF COMMUNITY PLANS

- ➤ Riverside County
 - General Plan, a portion of Riverside County Integrated Project, adopted by Board of Supervisors Oct. 2003
- City of Corona
 - > Public Hearing Draft General Plan released Sept. 2003
- City of Norco
 - General Plan land use element adopted June 2001

EXISTING AIRPORT AREA LAND USES

- ➤ General Character
 - > Open lands and industrial areas except to northeast
- ➤ Runway Approaches
 - > West (Runway 7): Prado Flood Control Basin
 - East (Runway 25): Wastewater treatment ponds (250 feet beyond runway end); Temescal Wash (0.5± mile); residential subdivision beyond
- ➤ Traffic Pattern
 - South: Rail line, industrial uses, wastewater treatment facility along downwind leg; Highway 91 freeway 1+ mile south

PLANNED AIRPORT AREA LAND USES

- ➤ Riverside County
 - Flood control basin designated open space conservation
 - Medium-density residential around golf course south of Hwy 91
- ➤ City of Corona
 - Open space surrounding airport; residential to northeast and east; park and industrial to south
 - > Development largely exists; mostly infill remaining
- City of Norco
 - Residential agricultural (0.5-acre lots) to north and northeast; commercial and industrial in Gateway Specific Plan area 1.5–2.0 miles east of airport
 - > Primarily infill of existing land use pattern

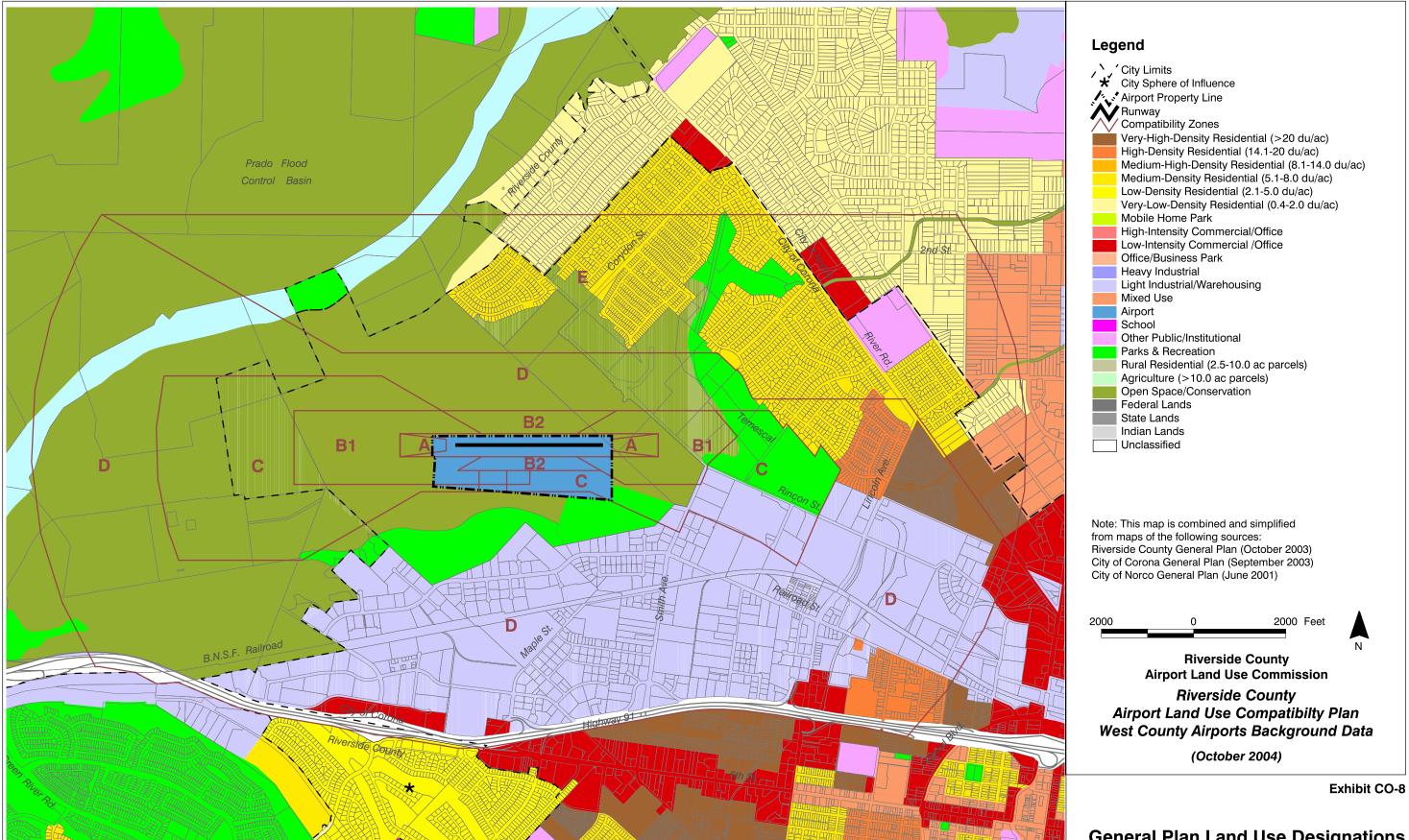
ESTABLISHED AIRPORT COMPATIBILITY MEASURES

- ➤ Riverside County General Plan
 - Prohibit new residential uses, except single-family dwellings on legal residential lots of record, within airports' 60 dB CNEL contour as defined by ALUC (Policy N 7.4)
 - Safety compatibility zones and criteria from previous compatibility plan incorporated into General Plan
 - Review all proposed projects and require consistency with any applicable compatibility plan (LU 14.2)
 - Submit proposed actions and projects to ALUC as required by state law (Policy LU 1.9); other actions may be submitted on voluntary and advisory basis (LU 14.8)

- ➤ City of Corona Draft General Plan
 - Restrict development within 65 dB CNEL contour to industrial, agricultural, and open space activities (Policy 11.4.8)
- ➤ City of Corona Zoning Codes
 - Mostly 35-foot height limit in the city; higher allowed in industrial and commercial/office zones
 - Avigation easement required for all subdivisions within 2.0 miles of airport (Section 17.84.040.C.3.b)
- ➤ City of Norco General Plan and Zoning Codes
 - No specific reference to airport compatibility or ALUC referral requirements
 - No airport-related height limit zoning; citywide zoning limits building heights to 50 feet including parapets

Exhibit CO-7

Airport Environs Information



General Plan Land Use Designations

Corona Municipal Airport Environs

COUNTY OF RIVERSIDE: GENERAL PLAN (2003) AND TEMESCAL CANYON AREA PLAN

Non-Residential Land Use

- ➤ Compatibility Zone E
 - > No inconsistencies noted

Other Policies

- ➤ General Plan
 - > Acknowledgement of ALUC policies-no conflict
 - Established ALUC 60 dB CNEL noise contour policy for new residential development—no conflict
- ➤ Zoning Codes
 - > No height limit zoning established

Exhibit CO-9

General Plan Consistency Review (Preliminary)

Corona Municipal Airport Environs

CITY OF CORONA:

GENERAL PLAN (2003), AND ZONING CODES

Residential Land Use

- ➤ Compatibility Zone D
 - > No inconsistencies noted

Other Policies

- ➤ General Plan
 - > No acknowledgement of ALUC coordination
 - City standard of 65 dB CNEL for new residential development conflicts with ALUC criterion of 60 dB CNEL; however, no lands within the 60 dB CNEL contour are designated for residential use
- ➤ Zoning Codes
 - No airport-related height limit zoning established; city wide height limit is 55 feet

Non-Residential Land Use

- ➤ Compatibility Zone C
 - Potential Conflict: Zone C intensity limits (75 people/acre) apply to area designated as Light Industrial/Warehousing southeast of airport [C1]
- ➤ Compatibility Zone D
 - Potential Conflict: Zone D intensity limits (100 people/acre) apply to various undeveloped parcels designated as Light Industrial/Warehousing south and southeast of airport [C2]

Note: This is an initial land use consistency review prepared for the purpose of identifying areas where a conflict exists or potentially exists with ALUC compatibility zone criteria. This review is based upon available general plan documents and does not take into account existing land use. When a conflict between the general plan and compatibility criteria exists, it is not deemed inconsistent when the general plan is merely representing existing development. A more comprehensive analysis is necessary at the time a general plan land modification is presented to the ALUC for review.

Exhibit CO-9, continued

CITY OF NORCO:

GENERAL PLAN (2001), AND ZONING CODES

Residential Land Use

- ➤ Compatibility Zone E
 - > No inconsistencies noted

Other Policies

- ➤ General Plan
 - > No acknowledgement of ALUC coordination
 - Noise contours not established; potential conflict with ALUC criterion of new residential development inside the 60 dB CNEL contour
- ➤ Zoning Codes
 - > No airport-related height limit zoning

Non-Residential Land Use

- ➤ Compatibility Zone E
 - > No inconsistencies noted

Exhibit CO-9, continued

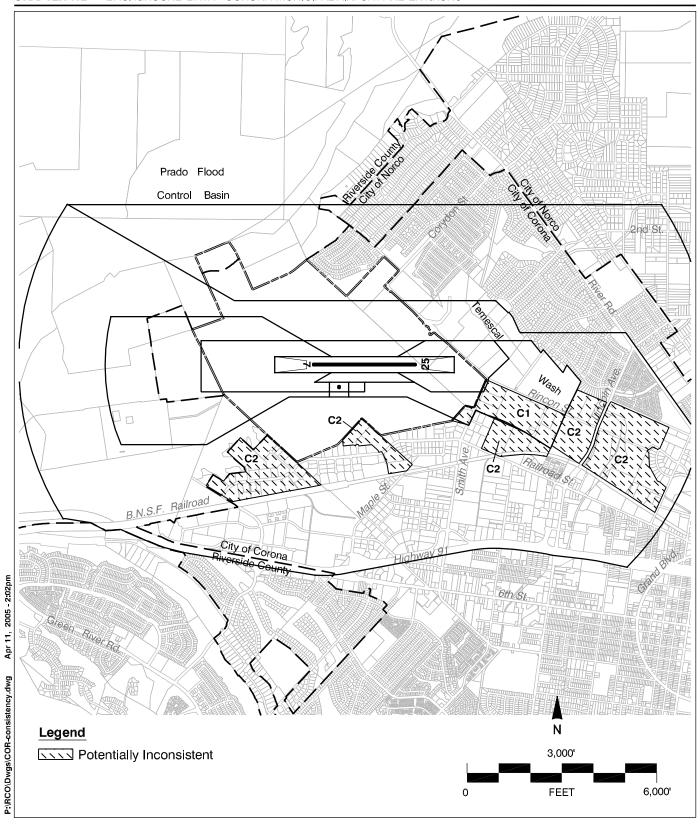


Exhibit CO-9, continued