

Appendix F
Geographic Information System Source List

APPENDIX F

Geographic Information System Source List

TABLE F-1
Geographic Information System (GIS) Source List

GIS Data Layer	Description	Source
100-Year Floodplain and Floodway	100-year floodplain and floodway limits as identified by the Federal Emergency Management Agency. Willow Creek Tributaries floodplain limits based on a 2006 study by Christopher B. Burke Engineering, Ltd.	CBBEL, 2006; FEMA, 1993; FEMA, 2004; FEMA, 2008
Aerial Photography	Aerial photography of the project area	Airphoto USA, 2008; City of Chicago, 2009; Google Earth Pro, 2011
Areas of Potential Development	Areas projected to be developed after the proposed improvements are implemented	S.B. Friedman & Company, 2011
Census Blocks	U.S. Census Block data collected from the 2010 Census	U.S. Bureau of the Census, 2011
Census Block Groups	U.S. Census Block Group data collected from the 2010 Census	U.S. Bureau of the Census, 2011
Closed Woodland, Scrub-Shrub Woodland, and Landscape Trees	Closed woodland, scrub-shrub woodland, and landscape trees identified along the project corridor by Christopher B. Burke Engineering, Ltd. staff	CBBEL Tree Study, 2011
Community Parks	Parks as identified by the local municipalities	Local municipalities, 2011; Tele Atlas North America, Inc., 2008
County Boundary	Boundary between Cook and DuPage Counties	U.S. Census Bureau, 2010; Tele Atlas North America, Inc., 2008
Des Plaines River and Lake Michigan Tributaries Drainage Basin (in Illinois)	Drainage basin limits are based on Appendix A of the Illinois Department of Transportation Wetlands Action Plan	IDOT Wetlands Action Plan, 1998
DuPage River Salt Creek Workgroup Chloride Monitoring Sites	Sampling locations where the DuPage River Salt Creek Workgroup collected chloride data in 2010	McCracken, 2011
Existing and Proposed Greenways	Existing and proposed greenways (corridors of undeveloped land or open space) as identified by the Chicago Metropolitan Agency for Planning	CMAP, 2009

TABLE F-1
Geographic Information System (GIS) Source List

GIS Data Layer	Description	Source
Existing Elgin O'Hare Detention Sites	Existing, excavated detention ponds along the Elgin-O'Hare Expressway	Elgin-O'Hare Expressway General Layout Plan, undated
Forest Preserves	County Forest Preserves	FPDDC, 2011; Tele Atlas North America, Inc., 2008
Future Land Use	Land use changes expected to occur as a result of the proposed improvements	S.B. Friedman & Company, 2011
Future Runway Configurations	Future configurations of runways on O'Hare Airport as included in the proposed O'Hare Modernization Program improvements	City of Chicago, 2003
Future Runway Protection	Future runway protection zones related to O'Hare Airport as identified in the proposed O'Hare Modernization Program improvements	City of Chicago, 2003
Highly Erodible Soils	Soil with slopes of four percent or greater based on Cook County and DuPage County soils maps	Cook County, 2007; DuPage County, 2007
Illinois Natural Areas	Natural Areas included in Illinois Department of Natural Resource's Natural Heritage Database	IDNR Natural Heritage Database, 2011
Illinois Nature Preserves	Nature Preserves designated by the Illinois Nature Preserve Commission	IDNR Illinois Nature Preserve Commission, 2008
Impaired Streams	Stream segments listed as impaired (i.e., not supporting their designated uses, such as fish consumption or primary contact) based on the Illinois Environmental Protection Agency's 2010 draft 303(d) list	IEPA, 2010
Major Employers	Employers along the project corridor that have the greatest number of employees	Illinois Department of Commerce and Economic Opportunity, 2011
Mapped Critical Wetlands	Mapped higher quality wetland areas based on the DuPage County Wetland Inventory	DuPage County Wetland Inventory, 2006
Mapped Land Cover	Land cover mapping (e.g., urban land, forested land, etc.) based on the Illinois Interagency Landscape Classification Project	USDOA, et al., 2002
No-Build Improvements	Improvements included in Chicago Metropolitan Agency for Planning's <i>Go To 2040 Comprehensive Regional Plan</i> in the vicinity of the Elgin O'Hare – West Bypass project	CMAP, 2010
O'Hare Airport	O'Hare Airport property boundary	City of Chicago, 2003

TABLE F-1
Geographic Information System (GIS) Source List

GIS Data Layer	Description	Source
Parcel Data	Information gathered from parcels along the project corridor in Cook and DuPage Counties to determine displacements	Cook County, 2007; DuPage County, 2006
Parcel Ownership	Information gathered from parcels along the project corridor in Cook and DuPage Counties to determine parcel ownership	Cook County, 2007; DuPage County, 2007
Prairie Remnants	Prairie remnants within the project corridor as identified by the Illinois Natural History Survey	Handel, 2009
Special Lands	Private or public open spaces or recreational areas	FPDDC, 2011; Tele Atlas North America, In., 2008
State Boundary	Boundaries between Illinois and Indiana, and Illinois and Wisconsin	Tele Atlas North America, Inc., 2008
Stream Sampling Sites	Locations where Illinois Natural History Survey collected data (e.g., fish, macroinvertebrates, water quality samples) for the project corridor streams	Wetzel, et al., 2010a; Wetzel, et al., 2010b
Surface Waters	Streams and lakes identified by Illinois Natural History Survey in the vicinity of the project corridor. Available state and county data was used for areas outside of the field survey limits.	Cook County, 2006; DuPage County, 2009; IEPA, 2006; Matthews and Zercher, 2010; and Matthews, et al., 2011
Vehicle/Animal Collisions	Locations of reported vehicle/animal collisions along state and DuPage County routes	DuPage County Transportation Data Management System, 2010; IDOT, 2010
Wastewater Treatment Plant Outfalls	The location of wastewater treatment plant discharge points as identified by the Illinois Environmental Protection Agency	IEPA, 2002
Watershed Boundary	Limits are based on the 12-digit Hydrologic Unit Code watershed boundaries from the Illinois Environmental Protection Agency	IEPA, 2002
Wildlife Hazard Separation Distances	Certain distances from the airport's aircraft movement areas, loading ramps, or aircraft parking areas within which restrictions on wildlife attractants are placed	FAA Circular No. 150/5200-33B
Wetlands	Wetlands delineated by the Illinois Natural History Survey	Matthews et al., 2009; Matthews et al., 2010; Matthews et al., 2011