

**MEMORANDUM OF AGREEMENT BETWEEN SANDAG AND SANGIS  
REGARDING THE TRANSFER TO SANDAG OF PUBLICLY AVAILABLE SANGIS  
GIS DATA CLEARINGHOUSE AND PUBLIC MAPPING SERVICES**

**(SANDAG Contract No. 5001553)**

---

This Memorandum of Agreement ["MOA" or "Agreement"] is entered into as of October 29, 2010, by and among the San Diego Geographic Information Source (SanGIS), and the San Diego Association of Governments ("SANDAG") (together from time to time referred to herein as the "Parties" or individually as the "Party").

RECITALS

1. WHEREAS, SanGIS is a Joint Powers Authority (JPA) created by the City of San Diego and the County of San Diego in July 1997 to promote the use of a regional geographic data warehouse for the San Diego area ["SanGIS GIS Data Warehouse"] and to assist in the development of shared geographic data and automated systems that use that data; and

2. WHEREAS, the SanGIS GIS Data Warehouse contains over 100 publicly available geographic data layers, including roadways and parcels; and

3. WHEREAS, SanGIS offers free of charge the data from its data warehouse in a publicly accessible geographic data clearinghouse Web site (<http://www.sangis.org>) commonly referred to as the "SanGIS Public GIS Data Clearinghouse" or "Public GIS Data Clearinghouse;" and

4. WHEREAS, SanGIS currently offers Public Mapping Services including map library reprints, Maps-2-Go, self-service maps, and Custom Mapping Services for non-standardized requests; and

5. WHEREAS, SANDAG currently offers Customized Mapping Services through its consulting arm known as the SANDAG Service Bureau; and

6. WHEREAS, SanGIS and SANDAG currently have existing and shared customers who are aware of both SanGIS and SANDAG customized mapping services; and

7. WHEREAS, among other designations, SANDAG is San Diego's regional Council of Governments and its Metropolitan Planning Organization comprised of the County of San Diego and the 18 cities in the San Diego region; and

8. WHEREAS, currently most jurisdictions within the San Diego region maintain their own Geographic Information Systems (GIS), using their own equipment, staff, and formatting styles to map infrastructure such as storm drains, sewer and water lines within their respective jurisdictional boundaries, and immediate vicinity (such mapping services are referred to herein as "Intra Jurisdictional Mapping Services"); and

9. WHEREAS, developing a collaborative regional GIS for public data will provide a central clearinghouse for all of the San Diego region to access geographic datasets that can be used in operational, planning, or research programs and potentially eliminate redundant server infrastructure by consolidating public data into a central, easily sourced location; and

10. WHEREAS, on January 16, 2008, the SanGIS Board of Directors asked its Executive Director to collaboratively explore with SANDAG the possibility of transferring responsibility for the publicly available SanGIS Public GIS Data Clearinghouse and Custom Public Mapping Services to SANDAG; and

11. WHEREAS, as requested by SANDAG, SanGIS provided SANDAG with statistics about the size, volume, resource requirements, technical feasibility, and nature of the existing SanGIS Public GIS Data Clearinghouse and Custom Public Mapping Services; and

12. WHEREAS, in April 2008, SANDAG's Technical Services Department began working with SanGIS staff and technical advisory board to evaluate, test, and determine the technical feasibility, resource requirements, data quality, budgeting, human resource allocation, data ownership, and maintenance aspects of this proposed transfer; and

13. WHEREAS, subject to the terms and conditions of the SanGIS Joint Powers Agreement between the City of San Diego and the County of San Diego, and the approval of the SanGIS and SANDAG Board of Directors or their authorized designees, the Parties wish to formalize transitioning the responsibility for the SanGIS Public GIS Data Clearinghouse and Custom Public Mapping Services to SANDAG; and

14. WHEREAS, this MOA outlines the Parties rights and duties before, during, and after the proposed transfer, which will result in SanGIS providing a GIS data warehouse service for the region and SANDAG providing a publicly accessible GIS Data Clearinghouse and Custom Mapping Service for the region and public at large.

Now, THEREFORE, in consideration of the mutual covenants contained in this Agreement, the Parties agree as follows:

**1. Recitals.** Each recital set forth above is incorporated herein by this reference and is made part of this Agreement.

**2. Transition.** The Parties agree that, as further provided in this MOA and during the term of this MOA, they will work in good faith toward transitioning SanGIS Public GIS Data Clearinghouse and Custom Public Mapping Services components from SanGIS to SANDAG, including, but not limited to, the custom mapping services described in Exhibit A - Data Guidelines (hereafter referred to as "Transition"), and the publicly available SanGIS GIS data layers listed in Exhibit B. SanGIS shall retain ownership and control of all physical equipment it currently uses, as of the effective date of this Agreement, to operate and maintain the Public Data Clearinghouse, Intra Jurisdictional Mapping Services and Custom Public Mapping Services. SANDAG will not assume any responsibility for the maintenance of SanGIS physical equipment, the SanGIS Land Base Maintenance System, the infrastructure for the SanGIS Data Warehouse, Information Technology (IT) infrastructure environment, storage containers, file cabinets, invoice blanks, mailing lists, and other physical accoutrements associated with this Transition to SANDAG of the SanGIS Public GIS Data Clearinghouse and Custom Public Mapping Services. The Parties agree to transfer only digital assets.

**3. Quality Control.** The Parties agree to follow the quality control standards defined in Exhibit A for the data transferred from SanGIS to SANDAG. These quality control standards shall be based on current Federal Geographic Data Committee standards and the currently adopted SanGIS metadata standard.

**4. Cooperation.** The Parties agree to jointly determine the ongoing roles of each Party regarding ownership, transfer, updates, error reporting, corrections, and maintenance of the data as described in this MOA. This includes discussions of when, where, how, and with whom these exchanges may occur. All data exchanges between the Parties that occur after the effective date of this Agreement must go through this collaboration process and be added to the data listed in Exhibit B – Data Lists. The data exchange collaboration process shall be vetted through the SanGIS Technical Advisory Board (STAB).

Upon execution of this Agreement, SanGIS and SANDAG agree to exchange data listed in Exhibit B that complies with the guidelines set forth in Exhibit A. By entering into this Agreement, the Parties agree that the list of data contained in Exhibit B is accurate. Exhibit B is a living document that will be updated from time to time to reflect new data available from SanGIS or SANDAG. Exhibit B must be updated and the revisions approved by both Parties in writing prior to the data being exchanged between the Parties. Each revision to Exhibit B must show the revision date and the date approved by the authorized representative of SanGIS and SANDAG.

The Parties will, in good faith, agree to a process for responding to technical GIS questions customers may have about SanGIS data, during and after completion of the Transition.

SanGIS and SANDAG agree that no mission critical, life or safety datasets, workflows, essential enterprise business functions, or high-risk<sup>1</sup> activities will be solely or directly tied to or totally dependent upon the data exchange procedures or resulting methodologies detailed in this Agreement or governed by this relationship to exchange data.

SANDAG will use its best efforts to provide next-day support for all network components relating to the SANDAG Public GIS Data Clearinghouse. SANDAG's staff hours are Monday through Friday from 8 a.m. to 6 p.m., excluding holidays. SANDAG does not have the staff capabilities to monitor network infrastructure (i.e., switches, routers, servers, etc.) twenty-four (24) hours a day, seven (7) days a week, three hundred sixty-five (365) days a year. As such, SANDAG commits to using best practices in network architecture and design to minimize the downtime of the SANDAG Public GIS Data Clearinghouse.

---

<sup>1</sup>The data in Exhibit B is not fault-tolerant and is not designed, manufactured, or intended for use or resale for use for insurance underwriting, insurance settlements, or insurance adjustment payments, nor is it to be used with critical health and safety or online control equipment in hazardous environments that require fail-safe performance, such as in the operation of nuclear facilities, aircraft navigation or communication systems, air traffic control, search and rescue, emergency response, terrorism prevention or response, fire fighting, life support, or weapons systems ("High-Risk Activities"). SanGIS SPECIFICALLY DISCLAIMS ANY EXPRESS OR IMPLIED WARRANTY OF FITNESS FOR HIGH RISK ACTIVITIES.

The end user of the data in Exhibit B agrees to indemnify, defend, and hold SanGIS, its officers, directors, employees, agents, subcontractors, licensors, successors, and assigns harmless from and against any and all liability, losses, claims, expenses (including attorneys' fees), demands, or damages of any kind, including direct, indirect, special, punitive, incidental, or consequential damages, arising out of or in any way connected with end user or permitting the use by others of Deliverables for High-Risk Activities. Delivery of Deliverables does not constitute a waiver of the rights and obligations set forth in this disclaimer.

**5. Discussion of Post-Transition Service.** The Parties agree to discuss and decide upon the post-Transition customer service and support levels the Parties will give to, and receive from, the other Party, including, but not limited to: designation by each Party of a primary contact for GIS Data Clearinghouse matters and for Custom Public Mapping Service matters.

**6. Long-Range Budget Impacts.** The Parties agree to evaluate immediate and long-range budgeting and staffing impacts on both SanGIS and SANDAG once the Transition is realized, including, but not limited to, publicizing the benefits and mutual cost savings of the relationship between SanGIS and SANDAG. This evaluation will be completed no later than one year following the Effective Date for this MOA, and will be distilled into a report, jointly drafted by the Parties, that the SanGIS Management Committee will present to both the SanGIS and SANDAG Boards of Directors. After the presentation to the Boards of Directors, the report will be published on both the SanGIS and SANDAG Web sites.

**7. Public Outreach.** In concert with each of the Parties' respective Public Information Offices, the Parties agree to develop and implement a public outreach plan to inform the public, city and county staff, Office of Emergency Services, Fire, Police, and other Public Safety entities and SANDAG's member agencies of the impact of the Transition.

**8. Ownership of the Data Warehouse(s)**

A. The Parties agree that SanGIS will retain ownership, control, and maintenance of the SanGIS Public GIS Data Clearinghouse (<http://www.sangis.org>), all the data within it, and the rights to maintain/provide a Custom Public Mapping Service. Upon execution of this Agreement, SanGIS and SANDAG agree to exchange data listed in Exhibit B that complies with the standards set forth in Exhibit A.

B. The Parties agree that SANDAG will retain ownership, control, and maintenance of its GIS data warehouse and its content.

C. The Parties agree that the act of exchanging data between SanGIS and SANDAG does not extend rights of ownership or authorship to the source data created by Party of origin.

D. The Parties agree that Exhibit B will identify either SanGIS or SANDAG as the owner or steward of each data layer contained in Exhibit B.

E. The Parties agree that SANDAG's ability to automatically redistribute the data sourced from SanGIS is limited and/or prohibited by the constraints of Section 13 of this MOA.

**9. Documentation.** The Parties agree to share with each other copies of all documents related to the Transition, including but not limited to:

A. All available IT architecture requirements, historic and current File Transfer Protocol (FTP) download statistics, records of data storage capacity, and existing customer names.

B. Subject to confidentiality or privacy considerations, all information related to service staffing levels to support the GIS Data Clearinghouse, and relevant revenue and expenditure operating data for services to be assumed, including labor.

C. All information related to estimated hardware and software costs, including estimated costs for hardware and software licenses.

D. All information used for effective outreach campaigns and their cost, and any other reasonably related information that could inform SanGIS' or SANDAG's decision making process regarding the success of the Transition of the SanGIS Public GIS Data Clearinghouse and Custom Public Mapping Services to SANDAG.

**10. License.** SanGIS agrees to provide to SANDAG, for the term of this MOA, a non-exclusive, non-transferable license to use the source code that SanGIS uses to automatically provide GIS data to the public and to automatically provide revised GIS data when it is altered or updated. Since the source code and related batch script were developed by, and are required for, the SanGIS JPA paying customers' business functions, SanGIS will own and maintain the script. SANDAG may, in its discretion, modify the script in its internal network areas to meet its internal business needs.

**11. Liability of Parties for Accuracy of Data**

A. SANDAG shall have no responsibility for the maintenance or editing of any data layer received from SanGIS for inclusion in the SANDAG Public GIS Data Clearinghouse.

B. SanGIS shall have no responsibility for the maintenance or editing of any data layer received from SANDAG for inclusion in the SanGIS Data Warehouse.

C. All data, regardless of how its precision or accuracy is described, by National Mapping Accuracy Standards or otherwise, must bear the standard disclaimer that is referenced in Section 8 of Exhibit A.

**12. Indemnification**

A. **Claims Arising from Acts or Omissions of SanGIS.** SanGIS hereby agrees to defend and indemnify SANDAG, its member agencies, agents, officers, and employees, from any claim, action, or proceeding against SANDAG, arising out of the sole negligent, reckless, or willful acts or omissions of SanGIS in the performance of this MOA. At its sole discretion, SANDAG may participate at its own expense in the defense of any claim, action, or proceeding, but such participation shall not relieve SanGIS of any obligation imposed by this MOA. SANDAG shall notify SanGIS promptly of any claim, action, or proceeding and cooperate fully in the defense.

B. **Claims Arising from Acts or Omissions of SANDAG.** SANDAG hereby agrees to defend and indemnify SanGIS, its member agencies, agents, officers, and employees from any claim, action, or proceeding against SanGIS, arising out of the sole negligent, reckless, or willful acts or omissions of SANDAG in the performance of this MOA. At its sole discretion, SanGIS may participate at its own expense in the defense of any such claim, action, or proceeding, but such participation shall not relieve SANDAG of any obligation imposed by this MOA. SanGIS shall notify SANDAG promptly of any claim, action, or proceeding and cooperate fully in the defense.

C. **Claims Arising from Requests for Records.** In the event a request is made to SANDAG via subpoena, search warrant, discovery, the California Public Records Act, or the Federal Freedom of Information Act ("Request") for records that are owned by SanGIS, but within control of SANDAG, SANDAG will notify SanGIS and, if SanGIS directs SANDAG not to release the records in question, SanGIS will provide a defense to SANDAG and indemnify SANDAG for all reasonable costs associated with the Request. In the event a Request is made to SanGIS for records that are owned by SANDAG, but within control of SanGIS, SanGIS will notify SANDAG and, if SANDAG directs SanGIS not to release the records in question, SANDAG will provide a defense to SanGIS and indemnify SanGIS for all reasonable costs associated with the request.

D. **Claims Arising from Concurrent Acts or Omissions.** SanGIS hereby agrees to defend itself, and SANDAG hereby agrees to defend itself, from any claim, action, or proceeding arising out of the concurrent acts or omissions of SanGIS and SANDAG. In such cases, SanGIS and SANDAG agree to retain their own legal counsel, bear their own defense costs, and waive their right to seek reimbursement of such costs.

E. **Joint Defense.** Notwithstanding the above, in cases where SanGIS and SANDAG agree in writing to a joint defense, SanGIS and SANDAG may appoint joint defense counsel to defend the claim, action, or proceeding arising out of the concurrent acts or omissions of SanGIS and SANDAG. SanGIS and SANDAG agree to share the costs of such joint defense and any agreed settlement in equal amounts, except as otherwise provided in this MOA or as may be agreed to by the Parties.

F. **Reimbursement and/or Reallocation.** Where a trial verdict or arbitration award allocates or determines the comparative fault of the Parties, SanGIS and SANDAG may seek reimbursement or reallocation of defense costs, settlement payments, judgments and awards, consistent with such comparative fault.

G. **Survival After Termination.** This section 12 shall survive the termination of this MOA.

### **13. Limits of Distribution, Exchanges, Copying, Commoditization, and Repurposing of the Data**

A. GIS data described in Exhibit B will be available to the public for downloading only through a publicly available SANDAG Public GIS Data Clearinghouse Web site. This Web site is intended for the benefit of members of the public or agents of governmental entities. SANDAG may also distribute data to the public on compact disks or other portable digital media storage devices.

B. The Parties agree that GIS data listed in Exhibit B is owned by its respective originating Party, and will not be resold, repackaged, or repurposed in any way without the express written consent by the data owner. The Parties agree that the automatic redistribution of the SanGIS database copies originating from SanGIS, copied by SANDAG, and sent by SANDAG to third party networks through automated or programmatic digital copying, is prohibited without written consent from SanGIS. Any and all automatic redistribution of SanGIS data copied from SanGIS and sent to a third party for a service fee is prohibited without written consent from SanGIS.

C. The Parties agree that SanGIS will not repackage or redistribute data acquired from SANDAG to entities that are not either a member of SanGIS or SanGIS' contractual business partners.

**14. Close-out of SanGIS Public GIS Data Clearinghouse.** SanGIS agrees that, during a one-year period, starting upon the Effective Date of this MOA, SanGIS will evaluate whether the public and the members of SanGIS are effectively being served by the SANDAG Public GIS Data Clearinghouse based on public feedback, SanGIS staff reports, analysis of data access requests (downloads), and other factors. If, at the end of the one-year period, SanGIS and SANDAG agree that the Transition has been successfully implemented, the SanGIS Board will consider and decide whether to discontinue the SanGIS Public GIS Data Clearinghouse Web site and will also consider and decide whether to redirect SanGIS' Public GIS Data Clearinghouse Web traffic to SANDAG's Public GIS Data Clearinghouse. If the Parties mutually decide to discontinue the SanGIS Public GIS Data Clearinghouse Web site and redirect that traffic to SANDAG's Public GIS Data Clearinghouse, then the Parties agree to complete the steps described in this section 14 within one-hundred eighty days following the determination, which shall be made in writing.

**15. Automated Access Service Fee Recovery.** Notwithstanding Sections 13(b) and (c), this MOA does not preclude SanGIS from establishing a fee structure that allows fees to be charged to third parties for automatic copying service access to the SanGIS data warehouse data. In accordance with section 21 of this MOA, the Parties agree that any such fee structure established by SanGIS will result in no exchange of money between SanGIS and SANDAG.

**16. Voting Rights on the SanGIS Board of Directors.** Upon the occurrence of the triggering event contained in Section 14, and subject to the condition contained in this Section 16, SANDAG shall receive one vote on the SanGIS Board of Directors with rights that are equivalent to those of the City of San Diego and the County of San Diego.

These voting rights shall be contingent upon SANDAG paying a pro-rata share of the annual SanGIS operating budget. This payment shall be equal to the pro-rata share paid by other SanGIS members. If SANDAG does not pay a pro-rata share of the annual SanGIS operating budget then, during the term of this MOA, SANDAG will not receive voting rights on the SanGIS Board of Directors, and will instead receive a non-voting SANDAG position on the SanGIS Management Committee. Any position SANDAG receives on the SanGIS Board of Directors or SanGIS Management Committee (whether voting or non-voting) shall be filled with a SANDAG officer who holds a position that is at least equivalent in level of authority to the positions of other SanGIS Board of Directors or SanGIS Management Committee members.

**17. Extension of MOA and Membership in the SanGIS JPA.** The Parties agree that, prior to the end of the term of this MOA, they will evaluate whether to either extend the term of this MOA, or have SANDAG join SanGIS as a member of the JPA. If SanGIS is dissolved, SANDAG may, in its sole discretion, enter into negotiations with the City of San Diego, the County of San Diego, and other jurisdictions within the region regarding future provision of a Public GIS Data Clearinghouse and Custom Mapping Services. This MOA may be extended upon the mutual written agreement of the Parties.

**18. Term.** This MOA shall be effective for five years following the date the last Party signs this MOA (the "Effective Date").

**19. Termination.** The Parties agree that either Party may terminate this MOA without cause by sending ninety days advance written notification to the other Party.

**20. Authority to Sign.** The individuals signing on behalf of each Party represent and warrant that they are authorized to do so on behalf of their respective agencies.

**21. No Money to Change Hands.** This is a services based *quid pro quo* MOA with data dissemination services being exchanged for data access services, and no exchange of money or fees between SanGIS and SANDAG for the data exchange shall occur.

**22. Notices.** Any notices required to be given by this MOA shall be deemed effective three business days after placement in the United States Mail or shall be immediately effective if delivered by hand at the following addresses:

- A. SanGIS:  
Attention: Director  
5201 Ruffin Road, Suite E  
San Diego, CA 92123
  
- B. SANDAG  
Attention: Technical Services Director  
401 B Street, Suite 800  
San Diego, CA 92101

Either Party may change its address by written notice to the other Party.

**23. No Third Party Beneficiaries.** Nothing in the provisions of this MOA is intended to create duties or obligations to, or rights in, third parties to this MOA or affect the legal liability of the Parties to this MOA to third parties.

**24. Independent Entities.** For purposes of this MOA, the relationship of the Parties is that of independent entities and not as agents of each other or as joint venturers or partners. The Parties shall maintain sole and exclusive control over their personnel, agents, consultants, and operations.

**25. Severability.** The invalidity of any portion of this MOA shall not invalidate the remainder as long as such invalidity does not materially affect the Agreement of the Parties.

**26. 25. Counterparts.** This MOA may be executed in counterparts, each of which shall be deemed an original after all Parties have executed this MOA.



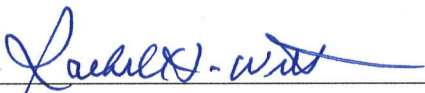
**SanGIS and SANDAG MOA - Regarding the Transfer to SANDAG of Publicly Available SanGIS GIS Data Clearinghouse and Public Mapping Services**

**Signatories - San Diego Geographic Information Source**


By:  Date: 10-28-10  
WILLIAM R. ANDERSON, SanGIS Board of Directors  
City of San Diego Representative

By:  Date: 10-28-10  
CHANDRA L. WALLAR, SanGIS Board of Directors  
County of San Diego Representative


APPROVED AS TO FORM:

By:  Date: 10/18/10  
RACHEL H. WITT  
Senior Deputy, Office of County Counsel  
Counsel for San Diego Geographic Information Source

**Signatories - San Diego Association of Governments**

By:  Date: 11/4/10  
*for* GARY L. GALLEGOS, Executive Director

APPROVED AS TO FORM:

By:  Date: 10/28/10  
GENERAL COUNSEL  
San Diego Association of Governments

## **Exhibit A**

### **DATA GUIDELINES**

#### **1. Spatial Accuracy**

SANDAG uses Part 3: Geospatial Positioning Accuracy Standards of the National Standard for Spatial Data Accuracy published by the Federal Geographic Data Committee (FGDC-STD-007.3-1998). According to the FGDC, "The National Standard for Spatial Data Accuracy [NSSDA] implements a statistical and testing methodology for estimating the positional accuracy of points on maps and in digital geospatial data, with respect to georeferenced ground positions of higher accuracy."

Any dataset that is found not in compliance with the NSSDA will be identified as "not in compliance with NSSDA". This compliance note will be stored in the metadata of all the data published to the SANDAG Public GIS Clearinghouse. It is left to the discretion of both SanGIS and SANDAG to bring their respective data into compliance with the NSSDA. This NSSDA compliance is not a requirement of data to be published to the SANDAG Public GIS Clearinghouse; however, each respective agency should make good faith efforts to improve their GIS datasets where applicable and appropriate compliance with NSSDA is possible.

SANDAG reserves the right to not publish any dataset that has a positional error greater than 190 feet horizontal accuracy at 95 percent confidence level according to the NSSDA. Under the National Mapping Accuracy Standards (USGS, 1947), 190 feet horizontal accuracy is equivalent to a map scale of 1:100,000.

All datasets that meet or exceed this accuracy level are duly described in their metadata. Any and all data in Exhibit B that meets or exceeds any National Map Accuracy Standards [NMAS] or similar are disclaimed in the body of this Agreement regardless of implied standards<sup>2</sup>.

#### **2. Attribute (Data) Accuracy**

SANDAG uses standard statistical techniques for measuring the accuracy of spatial data attributes. At a minimum, an attribute accuracy standard of 95 percent validity with a confidence level of 95 percent and a confidence interval of +/- 5 percent should be used. Where possible, applicable, and appropriate, both SanGIS and SANDAG may require their individual respective datasets in Exhibit B to maintain this level of accuracy. If these datasets cannot meet this accuracy standard, they will be duly described by their respective owners as such in their metadata.

SANDAG may randomly choose data records, data attributes, and feature classes to test throughout the course of this Agreement. If any dataset is found not to meet the above standard, the owner will be notified of the error, and the dataset metadata will be checked to ensure its owner has documented the dataset as being out of compliance. Datasets with excessive error or poor quality can be deemed unsuitable by any of the Parties to this Agreement. In this circumstance, all of the Parties must jointly and unanimously decide to remove the dataset from Exhibit B.

---

<sup>2</sup> All data in Exhibit B is covered by the disclaimer in Exhibit A, regardless of implied accuracy. The presence of an accuracy or precision standard in any dataset will in no way imply that the dataset has a WARRANTY OF ANY KIND, EITHER EXPRESSED OR IMPLIED, INCLUDING, BUT NOT LIMITED TO, THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE. See the disclaimer in this Agreement and the discussion of HIGH-RISK activities.

### **3. Metadata Standards**

SANDAG currently uses the Federal Geographic Data Committee's (FGDC) Content Standard for Digital Geospatial Metadata (FGDC-STD-001-1998) for agency metadata standards. All mandatory fields, as defined in FGDC-STD-001-1998, should be defined with correct and proper data. SANDAG will accept metadata with additional non-mandatory fields defined, but no guarantee is made to whether additional information will be displayed or distributed with the data on SANDAG's Public GIS Data Clearinghouse Web site. At a minimum, the adopted SanGIS metadata standard used by SanGIS will be used for all datasets that are in Exhibit B. This standard is available through SanGIS ([www.sangis.org](http://www.sangis.org)). It is further agreed that this SanGIS metadata standard may be jointly improved, enhanced, or augmented by both SanGIS and SANDAG and jointly agreed upon and implemented with the adoption of this Agreement.

### **4. Completeness**

SANDAG will only publish complete datasets to the SANDAG Public GIS Data Clearinghouse. All datasets shall be a complete representation of the features described in the metadata and corresponding to the metadata's time period or spatial extent information. Completeness is defined as having no outstanding or programmatic work remaining to render the dataset useful, operationally complete, or not unduly confusing or misleading.

### **5. Service Level Agreement**

As indicated in the MOA Agreement associated with this Exhibit A and in the footnotes of this Exhibit A, the Parties to the MOA will not be held responsible for the failure or accuracy of any data from the SANDAG Public GIS Data Clearinghouse, including public safety, healthcare, emergency response, public services, or business applications from the City of San Diego, County of San Diego, or SanGIS.

### **6. Updates**

SanGIS will provide a record and notify SANDAG when data updates occur. All notifications shall be sent electronically. It will be SANDAG's responsibility to copy and post any updates within five (5) business days of receipt of an update notice. SANDAG will notify SanGIS within two (2) business days of updates being posted to the SANDAG Public GIS Data Clearinghouse. With the exception of an emergency or natural disaster, no data shall be updated more than once a week.

### **7. Feedback and Quality Assurance**

SanGIS will have ninety (90) business days to fix any data errors presented to the SanGIS Management Committee by SANDAG. If errors are not corrected or sufficiently explained within 90 business days, SANDAG reserves the right to remove the entire dataset in question from the SANDAG Public GIS Data Clearinghouse which is assuming the functions of the SanGIS GIS Data Clearinghouse.

SanGIS will provide SANDAG with thirty (30) business days notice of any impending data schema changes, including, but not limited to, positional accuracy improvements or degradations, addition or removal of attribute fields, alteration of data table field names. SanGIS' notice to SANDAG will be in the form of an email or newsletter notification to the SANDAG Public GIS Data Clearinghouse steward or Database Administrator (DBA).

## **8. Disclaimer**

The following disclaimer must be presented or accessible when distributing or using the data listed in Exhibit B in any fashion:

THIS MAP/DATA IS PROVIDED WITHOUT WARRANTY OF ANY KIND, EITHER EXPRESS OR IMPLIED, INCLUDING, BUT NOT LIMITED TO, THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE. Note: This product may contain information from the SANDAG Regional Information System which cannot be reproduced without the written permission of SANDAG. This product may contain information reproduced with permission granted by RAND MCNALLY & COMPANY® to SanGIS. This map is copyrighted by RAND MCNALLY & COMPANY®. It is unlawful to copy or reproduce all or any part thereof, whether for personal use or resale, without the prior, written permission of RAND MCNALLY & COMPANY®.

**Copyright SanGIS 2009 - All Rights Reserved.**

All data listed in Exhibit B is covered by this disclaimer, regardless of implied accuracy. The presence of an accuracy or precision standard in any dataset will in no way imply that the dataset has a warranty of any kind, either expressed or implied, including, but not limited to, the implied warranties of merchantability and fitness for a particular purpose. See the disclaimer in this Agreement and the discussion of HIGH RISK activities.

## **9. Data Sourcing**

SANDAG will provide a disclaimer for all SanGIS owned data listed in Exhibit B, which will state: "The following data is developed and compiled by the San Diego Geographic Information Source (SanGIS). The data provided are collected from various sources and will change over time without notice. In using the data, users should be aware that some of these data are generalized and were created for use in regional projects. While SanGIS believes the data is accurate and properly functioning, SanGIS disclaims any responsibility for the accuracy or correctness of the data. The data is provided on an 'AS IS', 'AS AVAILABLE' and 'WITH ALL FAULTS' basis. SanGIS makes no warranties, express or implied, including, but not limited to, any warranties of merchantability or fitness for a particular purpose, nor shall the distribution of this information constitute any warranty. All questions and concerns about data use, data integrity, and accuracy should be directed to the contact identified in the data's metadata record or to the general contact number available for SanGIS at [www.sangis.org](http://www.sangis.org)."

## **10. Data List (Exhibit B)**

SANDAG agrees to provide only the SanGIS data layers listed in Exhibit B for public dissemination and download on the SANDAG Public GIS Clearinghouse Web site. The Exhibit B list shall be jointly maintained by SanGIS and SANDAG. Data that is NOT jointly agreed to be present will not be included in Exhibit B or in any automated data exchange between SanGIS and SANDAG. Any addition or deletion to the list will require a jointly executed letter stating that the Parties agree to revise Exhibit B. Any change to Exhibit B shall require the letter be modified and jointly executed in counterpart originals by Qualified Representatives<sup>3</sup> of both Parties within ten (10) business days of the proposed change.

---

<sup>3</sup> "Qualified Representatives" for SanGIS is defined as both members of the SanGIS Board of Directors or both members of the SanGIS Management Committee. For SANDAG, it is defined as any representative SANDAG designates as its representative to the SanGIS Technical Advisory Board.

**EXHIBIT B - Regarding the Transfer of Public Mapping Services and Publicly Available GIS Data Clearinghouse to SANDAG**

10/8/2009

Layer	Description	Category	External Warehouse List**	Available for Download	Owner/Steward	Coverage
ADDRAPN	Address Points	Address	●	●	SanGIS	Regional
AG_COMMODITY_07	Agricultural commodity production sites	Agriculture	○	●	County	Regional
AG_PRESERVE	Agricultural preserves	Agriculture	●	●	County	Regional
AG_PRESERVE_CONTRACTS	Williamson Agriculture Perserver Contracts	Agriculture	●	●		Regional
BUS_CONSTRUCTION_DEMO_RECYCLE	Construction & Demolition Recycling Zones	Business	●	●		City
BUS_ENTERPRISE_ZONES	City Enterprise Zones	Business	●	●	City	City
BUS_FOREIGN_TRADE_ZONES	City Foreign Trade Zones	Business	●	●	City	City
BUS_IMPROVEMENT_DISTRICTS	City Business Improvement Zones	Business	●	●	City	City
BUS_METRO_REVLOAN	Metro Revolving Loan Areas	Business	●	●	City	City
BUS_PRRTY_BASED_IMPRVMENT_DIST	City Property Based Improvement Districts	Business	●	●	City	City
BUS_RECYCLING_MARKET_DEV_ZONES	City Recycling Market Development Zones	Business	●	●	City	City
BUS_RENEWAL_COMMUNITY	City Renewal Community	Business	●	●	City	City
BUS_SD_REVLOAN	City Revolving Loan Areas	Business	●	●	City	City
BUS_SITES	Business Sites	Business	●	●		Regional
BUS_TARGETED_EMPLOYMENT_AREAS	City Targeted Employment Areas	Business	●	●		City
CEN_BLOCKS	Census Blocks	Census	●	●	SANDAG	Regional
CEN_MAJOR_STAT_AREAS***	Census Major Statistical Areas	Census	○	○	SANDAG	Regional
CEN_SUBREG_AREAS***	Census Subregional Areas	Census	○	○	SANDAG	Regional
CEN_TRACT	Census Tracts	Census	●	●	SANDAG	Regional
CENSUS_BLOCKGROUP_INCOME_EDU	Census Block Group w/ Income and Education	Census	●	●	SANDAG	Regional
CENSUS_BLOCKGROUP_POP_HOUSING	Census Block Group w/ Population and Housing	Census	●	●	SANDAG	Regional
CENSUS_JUR_INCOME_EDU	Census Jurisdiction w/ Income and Education	Census	●	●	SANDAG	Regional
CENSUS_JUR_POP_HOUSING	Census Jurisdiction w/ Population and Housing	Census	●	●	SANDAG	Regional
CENSUS_MSA_INCOME_EDU	Census MSA w/ Income and Education	Census	●	●	SANDAG	Regional
CENSUS_MSA_POP_HOUSING	Census MSA w/ Population and Housing	Census	●	●	SANDAG	Regional
CENSUS_SRA_INCOME_EDU	Census SRA w/ Income and Education	Census	●	●	SANDAG	Regional
CENSUS_SRA_POP_HOUSING	Census SRA w/ Population and Housing	Census	●	●	SANDAG	Regional
CENSUS_TRACT_INCOME_EDU	Census Tracts w/ Income and Education	Census	●	●	SANDAG	Regional
CENSUS_TRACT_POP_HOUSING	Census Tracts w/ Population and Housing	Census	●	●	SANDAG	Regional
CENSUS_ZIP_INCOME_EDU	Census Zip Codes w/ Income and Education	Census	●	●	SANDAG	Regional
CENSUS_ZIP_POP_HOUSING	Census Zip Codes w/ Population and Housing	Census	●	●	SANDAG	Regional
CIP_ACCESSIBILITY_IMPROVEMENTS_SD	City Accessibility CIP	CIP	●	●	City	City
CIP_BIKEWAY_SD	City Bikeway CIP	CIP	●	●	City	City
CIP_BRIDGES_NEW_SD	New and Replacement Bridges CIP	CIP	●	●	City	City
CIP_CITY_FACILITY_SD	Other City Facilities CIP	CIP	●	●	City	City
CIP_COMMUNITY_FACILITIES	Community Facilities CIP	CIP	●	●	City	City
CIP_FIRE_SD	Fire Facilities CIP	CIP	●	●	City	City
CIP_FLASHER_SD	Flashing Beacons and Traffic Control CIP	CIP	●	●	City	City
CIP_GUARD_RAIL_SD	Guard Rails and Miscellaneous Bridgework CIP	CIP	●	●	City	City
CIP_HIKING_EQUESTRIAN_TRAILS_SD	Hiking and Equestrian Trails CIP	CIP	●	●	City	City
CIP_LIBRARY_SD	Library CIP	CIP	●	●	City	City
CIP_LIFEGUARD_CIP	Lifeguard CIP	CIP	●	●	City	City

EXHIBIT B - Regarding the Transfer of Public Mapping Services and Publicly Available GIS Data Clearinghouse to SANDAG

10/8/2009

Layer	Description	Category	External Warehouse List**	Available for Download	Owner/Steward	Coverage
CIP_METRO	MWD CIP Projects	CIP	●	●	City	City
CIP_OVERLAY_SD	Overlay (hot mix asphalt over pavement) CIP	CIP	●	●	City	City
CIP_PARK_FACILITIES	Park Facilities CIP	CIP	●	●	City	City
CIP_PARKWAY_SD	Parkway Enhancements and Medians CIP	CIP	●	●	City	City
CIP_PLAY_TOT_LOT_FACILITIES_SD	Play Areas and Tot Lot Facilities CIP	CIP	●	●	City	City
CIP_PM_FUTURE_SD	Future Paving Moratorium CIP	CIP	●	●	City	City
CIP_PM_OVERLAY_SD	Overlay Paving Moratorium CIP	CIP	●	●	City	City
CIP_PM_SLURRY_SD	Slurry Paving Moratorium CIP	CIP	●	●	City	City
CIP_POLICE_SD	Police Facilities CIP	CIP	●	●	City	City
CIP_REC_CENTER_SD	Recreation Center CIP	CIP	●	●	City	City
CIP_RECLAIMED_WATER_SD	Reclaimed Water CIP	CIP	●	●	City	City
CIP_RESTROOM_SD	Restrooms / Comfort Stations CIP	CIP	●	●	City	City
CIP_SEWER_SD	Sewer CIP	CIP	●	●	City	City
CIP_SIDEWALK_SD	Sidewalk CIP	CIP	●	●	City	City
CIP_SLURRY_SD	Slurry CIP	CIP	●	●	City	City
CIP_SPECIAL_SD	Special CIP	CIP	●	●	City	City
CIP_STORM_DRAIN_SD	Storm Drain CIP	CIP	●	●	City	City
CIP_STORMWATER_PUMP_STATIONS_SD	Stormwater Pump Stations CIP	CIP	○	●	City	City
CIP_STREET(NEW)_SD	Street (New) CIP	CIP	○	●	City	City
CIP_STREET_LIGHT_SD	Street Light CIP	CIP	●	●	City	City
CIP_TELECOMMUNICATION_FACILITIES_SD	Telecommunication Facilities CIP	CIP	●	●	City	City
CIP_TRAFFIC_SIGNAL_INTERCONNECT_SD	Traffic Signal Interconnect CIP	CIP	●	●	City	City
CIP_TRAFFIC_SIGNAL_MODIFICATIONS_SD	Traffic Signal Modifications CIP	CIP	●	●	City	City
CIP_TRAFFIC_SIGNAL_SD	Traffic Signal CIP	CIP	●	●	City	City
CIP_VIDEO_SURVEILLANCE_SD	Video Surveillance CIP	CIP	●	●	City	City
CIP_WATER	CIP Water CIP Projects	CIP	●	●	City	City
CIP_WATER(2)_SD	Water (2) CIP	CIP	●	●	City	City
CIP_WSD	City Waste Water & Sewer Design CIP Projects	CIP	●	●	City	City
CMTY_BIKE_PLAN_SD	Bicycle Master Plan	Community	●	●	City	City
CMTY_GENERAL_PLAN_CN	General Plan	Community	●	●	County	County
CMTY_GENERAL_PLAN_DRAFT_CN	General Plan 2020 Draft Alt20 land use map.	Community	●	●	County	County
CMTY_GENERAL_PLAN_DRAFT_HYB_CN	General Plan 2020 Draft Alt22	Community	○	●	County	County
CMTY_GENERAL_PLAN_DRAFT_REF_CN	General Plan 2020 Draft Alt21	Community	○	●	County	County
CMTY_GENERAL_PLAN_TRAILS_CN	Trails - General Plan	Community	●	●	County	Regional
CMTY_NEIGHBORHOODS_SD	San Diego Neighborhoods	Community	●	●	City	City
CMTY_P	Community Points	Community	●	●	SanGIS	Regional
CMTY_PLAN_CN	Community Plan Areas	Community	●	●	County	County
CMTY_PLAN_SD	Community Plans + other incorp cities	Community	●	●	City	City
CMTY_SERVCTR_SD	City Community Service Centers	Community	●	●	City	City
REC_CENTER_SD	City Recreation Centers	Community	●	●	City	City
DIST_ASSEMBLY	CA State Assembly Districts	District	●	●		Regional
DIST_COMMUNITY_COLLEGE	Community College Districts	District	●	●		Regional

**EXHIBIT B - Regarding the Transfer of Public Mapping Services and Publicly Available GIS Data Clearinghouse to SANDAG**

10/8/2009

Layer	Description	Category	External Warehouse List**	Available for Download	Owner/Steward	Coverage
DIST_COMMUNITY_SERVICE	Community Service Districts	District	●	●		Regional
DIST_CONGRESS	US Congressional Districts	District	●	●		Regional
DIST_COUNCIL	City Council Districts	District	●	●		Regional
DIST_COUNTY_SERVICE_AREA	County Services Districts	District	●	●	County	County
DIST_ELEMENTARY_SCHOOL	Elementary School Districts	District	●	●		Regional
DIST_FIRE_PROTECTION	Fire Protection District	District	●	●		Regional
DIST_HIGH_SCHOOL	High School Districts	District	●	●		Regional
DIST_HISTORIC_SD	Historic District	District	●	●		City
DIST_HOSPITAL	Hospital District	District	●	●		County
DIST_JUDICIAL	Judicial District	District	●	●		Regional
DIST_LIBRARY_SERVICE_AREAS	Library Districts	District	●	●		County
DIST_MAINTENANCE_ASSESSMENT_SD	Maintenance Districts	District	●	●	City	City
DIST_PARKING_SD	Parking District	District	●	●	City	City
DIST_PRECINCT	Voter Precincts (Home)	District	●	●		Regional
DIST_PRECINCT_CONSOLIDATED	Voter Precincts (Consolidated)	District	●	●		Regional
DIST_REDEVELOPMENT	Redevelopment Districts	District	●	●		Regional
DIST_SANITATION	Sanitation District	District	●	●		County
DIST_SENATE	State Senate Districts	District	●	●		Regional
DIST_SPECIAL_SD	Special Districts	District	●	●		City
DIST_SUPERVISOR	County Supervisor Districts	District	●	●		Regional
DIST_UNIFIED_SCHOOL	Unified School Districts	District	●	●		Regional
DIST_WATER	Water Districts	District	●	●		Regional
DIST_WATER_CWA	Water Districts - CWA	District	●	●	County	Regional
DRAIN_CHANNEL	City Storm Drain Channel	District	●	●	City	Regional
DRAIN_PIPE	City Storm Drain Pipes	Drain (Storm)	●	●	City	City
DRAIN_STRUCTURE	City Storm Drain Structure	Drain (Storm)	●	●	City	City
ECO_MSCP_CN_NORTH_DRAFT	Draft North County MSCP Plan	Drain (Storm)	●	●	County	Regional
ECO_BIOLOGICAL_OBS_POINTS_CN	Biological Species Observation Points	Ecology	●	●	County	Regional
ECO_CANYONS	City Canyons	Ecology	●	●	City	City
ECO_ENVIRONMENTALLY_SENSITIVE_AREAS	Environmentally Sensitive Areas	Ecology	●	●	County	Regional
ECO_HABITAT_EVALUATION_MODEL	Habitat Evaluation Model	Ecology	●	●	County	Regional
ECO_MHPA_SD	City Multiple Habitat Planning Areas	Ecology	●	●	City	City
ECO_MSCP_SUBAREAS_SEGMENTS	MSCP Subareas and Segments	Ecology	●	●	County	Regional
ECO_SUBREGIONS	Ecologic Subregions	Ecology	●	●	County	Regional
ECO_VEGETATION	Vegetation	Ecology	●	●	County	Regional
ECO_WATER_QUALITY_SENSITIVE_AREA	City Water Quality Sensitive Areas	Ecology	●	●	County	Regional
FACILITIES_MILITARY	Military Facilities	Facilities	●	●	City	City
HOSPITAL	Hospitals	Facilities	●	●	County	Regional
LAW_FACILITY	Law Facilities	Facilities	○	●		Regional
LIBRARY	Libraries	Facilities	●	●		Regional
DIST_FIRE_BATTALION	Fire Battalion Districts	Fire	●	●	City	City
DIST_FIRE_ENGINE	Fire Engine Districts	Fire	●	●	City	City



EXHIBIT B - Regarding the Transfer of Public Mapping Services and Publicly Available GIS Data Clearinghouse to SANDAG

10/8/2009

Layer	Description	Category	External Warehouse List**	Available for Download	Owner/Steward	Coverage
FIRE_BURN_HISTORY	Fire Burn History	Fire	●	●	County	Regional
FIRE_BURN_SCAR_2003	Fire Burn Scar from 2003 Firestorm	Fire	●	●	County	Regional
FIRE_DAMAGE_CEDAR	Cedar Fire Damage	Fire	●	●	County	Regional
FIRE_DAMAGE_PARADISE	Paradise Fire Damage	Fire	●	●	County	Regional
FIRE_PERIMETER_CEDAR	Cedar Fire Perimeter	Fire	●	●	County	Regional
FIRE_PERIMETER_OTAY	Otay Fire Perimeter	Fire	●	●	County	Regional
FIRE_PERIMETER_PARADISE	Paradise Fire Perimeter	Fire	●	●	County	Regional
FIRE_STATION	County-wide Fire Stations	Fire	●	●	County	Regional
FIRESTORM_2007_ASSIST_CENTER	Assistance Centers set up for 2007 fire storm	Fire	○	●	County	Regional
FIRESTORM_2007_DAMAGES_ON_ALL	2007 Firestorm Property Damage	Fire	○	●	County	County
FIRESTORM_2007_PERIMETER	2007 Firestorm Perimeter (excl McCoy Fire)	Fire	○	●	County	Regional
FAULT	City Earthquake Faults	Geology	●	●	City	City
FAULT_ALQPRI	Earthquake Fault Zones / Alquist Priolo	Geology	●	●	County	City
GEOHAZARD	City Geological Hazards	Geology	●	●	County	City
GEOLOGY	Geology	Geology	●	●	County	Regional
SOILS	Soils	Geology	●	●	County	Regional
GRID_1999_SD	City 1999 Orthophoto Grid	Grids	●	●	City	City
GRID_SANGIS	SanGIS Grid	Grids	●	●	SanGIS	Regional
GRID_USGS75	USGS Quad Sheet 7.5	Grids	●	●	SanGIS	Regional
GRID_WATER_FIELD_BOOK	Water Field Book	Grids	●	●	City	Regional
DIST_HHSA_REGIONS	County Health and Human Resource Regions	Health	●	●	County	Regional
HLTH_ADULT_DAY_CARE	Adult Day Care Centers	Health	○	●	County	Regional
HLTH_CMS_CLINICS	Medical Services Clinics	Health	○	●	County	Regional
HLTH_CNCL_CMTY_CLINICS	Primary Care Sites of Council of Community Clinics	Health	○	●	County	Regional
HLTH_COOL_ZONES	Cool Zone Locations	Health	○	●	County	Regional
HLTH_FAMILY_RESOUCE_CENTERS	Family Resource Centers	Health	○	●	County	Regional
HLTH_IMMUNIZATION_REGISTRY_LOC	Providers (San Diego Immunization Registry)	Health	○	●	County	Regional
HLTH_SMOKING_CESSATION_PROG	Tobacco Cessation Programs	Health	○	●	County	Regional
HLTH_SOCIAL_REHAB_FAC	Social Rehabilitation Facilities	Health	○	●	County	Regional
HLTH_STATE_LIC_CHILD_CARE_CNTR	Licensed Child Care Facilities	Health	○	●	County	Regional
HLTH_STATE_LIC_GROUP_HOMES	Licensed Group Homes	Health	○	●	County	Regional
HLTH_WOMEN_INFANT_CHILD_PROG	WIC Nutrition Clinics	Health	○	●	County	Regional
AQUIFER	Aggregated Geological Formations for Groundwater	Hydrology	○	●	County	Regional
HYD_BASINS	Basins and Watersheds	Hydrology	●	●	County	Regional
HYD_DAM_INUNDATION	Dam Inundation	Hydrology	●	●	County	Regional
HYD_FLOODPAN	FEMA Flood Panels	Hydrology	●	●	County	Regional
HYD_FLOODPL	FEMA Flood Plains	Hydrology	●	●	County	Regional
HYD_LAKE	Lakes	Hydrology	●	●	County	Regional
HYD_PACIFIC	Pacific Ocean	Hydrology	●	●	County	Regional
HYD_RAINFALL	Avg Annual Rainfall	Hydrology	●	●	County	Regional
HYD_RIVERS	Rivers	Hydrology	●	●	County	Regional
HYD_WELLS	Wells	Hydrology	●	●	County	County

EXHIBIT B - Regarding the Transfer of Public Mapping Services and Publicly Available GIS Data Clearinghouse to SANDAG

10/8/2009

Layer	Description	Category	External Warehouse List**	Available for Download	Owner/Steward	Coverage
INDIAN_RESERVATIONS	Indian Reservations	Jurisdiction	●	●	County	Regional
JUR_CNTRY	County Boundary	Jurisdiction	●	●	County	Regional
JUR_MUNICIPAL	Municipal Boundary	Jurisdiction	●	●	County	Regional
JUR_PUBLIC_SAFETY	Public Safety Jurisdictions	Jurisdiction	●	●	SanGIS	Regional
JUR_SP_POLY	Special Jurisdictions for City and County	Jurisdiction	●	●	SanGIS	Regional
JUR_STATE	State Boundary	Jurisdiction	●	●	SanGIS	State
JUR_VICINITY	Vicinity (surrounding counties, Baja, ocean)	Jurisdiction	●	●	SanGIS	Regional
CALL_BOX	Call Boxes	Miscellaneous	●	●	SanGIS	Regional
CONTROL_MON	Control Monuments	Miscellaneous	●	●	County	Regional
CONTROL_MON_FIRST_ORDER	Control Monuments First Order	Miscellaneous	●	●	County	Regional
Discretionary_Permits	Discretionary Project Layer of County of SD	Miscellaneous	○	●	County	County
ESMT_OPEN_SPACE	Open Space Easements	Miscellaneous	●	●	SanGIS	Regional
FAA_Height_Notification	FAA Height Limitations around runways	Miscellaneous	●	●	County	Regional
FOOTPRINTS_NONRESIDENTIAL_SD	Building Footprints for Nonresidential	Miscellaneous	○	●	City	City
HAZARDS_UNEXPLODED_ORDINANCE	Unexploded Ordinance	Miscellaneous	○	●	County	County
NITL_FOREST	National Forests	Miscellaneous	●	●	County	Regional
PARKING_IMPACT_OVERLAY_ZONE	Parking overlay zones	Miscellaneous	●	●	City	City
PO_BOX	Post Office Box Locations	Miscellaneous	○	●		Regional
PORTS_OF_ENTRY_CA	Ports of entry	Miscellaneous	○	●		Regional
PUB_LAND_SUR	Public Land Surveys	Miscellaneous	○	●	SanGIS	Regional
STREET_LIGHT	Street Lights	Miscellaneous	●	●		City
TAX_RATE_AREA	Tax Rate Areas	Miscellaneous	○	●	County	Regional
TRAFFIC_SIGNAL	Traffic Signals	Miscellaneous	●	●		City
TREES_SD	Trees	Miscellaneous	●	●	City	City
ZIPCODE	Zip Codes	Miscellaneous	●	●	SanGIS	Regional
LOT	Lot Right of Way	Parcel and Lots	●	●	SanGIS	Regional
PARCELS	Parcels (polygons)	Parcel and Lots	●	●	SanGIS	Regional
PARCELS_EAST	East County Parcels	Parcel and Lots	●	●	SanGIS	Regional
PARCELS_NORTH	North County Parcels	Parcel and Lots	●	●	SanGIS	Regional
PARCELS_SOUTH	South County Parcels	Parcel and Lots	●	●	SanGIS	Regional
ASR_BOOK	Assessor Book Grid	Parcel and Lots	●	●	SanGIS	Regional
LAMDBASE_BOUNDARIES	Parcel and Lot Lines	Parcel and Lots	●	●	SanGIS	Regional
PARKS_CN	County Parks	Parks	●	●	County	County
GAS_STATIONS	Gas and Compressed Natural Gas (CNG) Staitons	Places	●	●	County	Regional
PLACES_CASINOS	Gambling Casinos	Places	●	●	County	Regional
PLACES_CELL_SITES	Cell Phone Towers	Places	●	●	County	Regional
PUBSAFETY_AMBULANCE_OP_AREAS	Ambulance Exclusive Operating Areas	Public Safety	●	●		Regional
PUBSAFETY_AMBULANCE_STAGE_LOC	Ambulance Staging Areas	Public Safety	●	●		Regional
PUBSAFETY_TRAUMA_AREAS	Trauma Areas	Public Safety	●	●		Regional
RIGHT_OF_WAY	Roads Right of Way	Roads	●	●	SanGIS	Regional
ROADS_ALL	Roads	Roads	●	●	SanGIS	Regional
ROADS_CNTRY_MAINTAINED	County Maintained Roads	Roads	○	●	County	Regional

**EXHIBIT B - Regarding the Transfer of Public Mapping Services and Publicly Available GIS Data Clearinghouse to SANDAG**

10/8/2009

Layer	Description	Category	External Warehouse List**	Available for Download	Owner/Steward	Coverage
ROADS_COLLECTOR	Collector Roads (segclass 4)	Roads	●	●	SanGIS	Regional
ROADS_FREEWAY	Freeways (segclass 1)	Roads	●	●	SanGIS	Regional
ROADS_FREEWAY_RAMP	Freeway On/Off Ramps (segclass 9)	Roads	●	●	SanGIS	Regional
ROADS_HIGHWAY	Highway Roads (segclass 2)	Roads	●	●	SanGIS	Regional
ROADS_INTERSECTION	Intersections	Roads	●	●	SanGIS	Regional
ROADS_MAJOR	Major Roads (segclass 3)	Roads	●	●	SanGIS	Regional
ROADS_TRANSITION_RAMP	Transition Ramps	Roads	●	●	SanGIS	Regional
S_MAIN	City Sewer Main	Sewer	●	●	City	City
S_MAIN_CN	County Sewer Main	Sewer	●	●	County	County
S_MANHOLE	City Sewer Manholes	Sewer	●	●	City	City
S_MANHOLE_CN	County Sewer Manhole	Sewer	●	●	County	County
SLOPES	Slope (1992)	Slopes	●	●	City	City
SLOPES_1999	Slope (1999)	Slopes	●	●	City	City
SUBDIVISION	Subdivision Polygons	Subdivision	●	●		Regional
SUBDIVISION_LINE	Subdivision Lines	Subdivision	●	●		Regional
TOPO_1999_2	Topo 1999 2ft (full City)	Topo	●	●		City
TOPO_1999_2	Topo 1999 2ft (north half of City)	Topo	●	●		City
TOPO_1999_2	Topo 1999 2ft (south half of City)	Topo	●	●		City
TOPO_1999_5	Topo 1999 5ft	Topo	●	●		City
TOPO_2	Topo 1992 2ft	Topo	●	●		City
TOPO_20	Topo 1992 20ft	Topo	●	●		City
TOPO_5	Topo 1992 5ft	Topo	●	●		City
WTR_HYDRANT	Water Fire Hydrants	Water	●	●		City
WTR_PIPE	Water Mains	Water	●	●	City	City
ZONING_SD	City Zoning	Zoning	●	●	City	City
ZONING_UN	County Unincorporated Zoning	Zoning	●	●	County	County
AIR_RUNWAYS	Airport Runway Zones	Zoning	○	○	County	County
DIST_LIGHTING	Lighting Districts		○	○		Regional
DIST_RESOURCE_CONSERVATION	Resource Conservation Districts		○	○	County	
ECO_MSCP_HABITRAK	Regional MSCP Habitat Data		○	○	SANDAG	
FIBERBLDG	Downtown City Buildings with Fiberoptics		●	○	City	
FIBERNET	Downtown City Fiberoptic Network		●	○	City	
GRIP	City Economic Development		○	○	City	
HYD_303D_WATERS_LINE	303d Waters Segments		○	○	County	
HYD_303D_WATERS_POLY	303d Waters Polygons		○	○	County	
HYD_STREAMS_SG	SANDAG Streams		○	○	County	
HYD_WATERSHEDS_SG	Stormwater Permit Watersheds		○	○	SANDAG	
LANDUSE_SG	SANDAG Landuse		○	○	SANDAG	Regional
PARKS	Countywide Parks	Parks	●	○	SANDAG	
RAILROAD	Railroads		○	○	County	
SCHOOL	Schools		○	○	SANGIS	
SURVEYDOC_FREEWAY_ANNO	County DPW Survey Doc Freeway Anno		○	○	SANDAG	

**EXHIBIT B - Regarding the Transfer of Public Mapping Services and Publicly Available GIS Data Clearinghouse to SANDAG**

10/8/2009

Layer	Description	Category	External Warehouse List**	Available for Download	Owner/Steward	Coverage
SURVEYDOC_GRID_LINE	County DPW Survey Doc Grid Lines		<input type="checkbox"/>	<input type="checkbox"/>	County	
SURVEYDOC_GRID_POLY	County DPW Survey Doc Grid Polys		<input type="checkbox"/>	<input type="checkbox"/>	County	
SURVEYDOC_HIGHWAY_ANNO	County DPW Survey Doc Highway Anno		<input type="checkbox"/>	<input type="checkbox"/>	County	
SURVEYDOC_JUR_ANNO	County DPW Survey Doc Jurisdiction Anno		<input type="checkbox"/>	<input type="checkbox"/>	County	
SURVEYDOC_MAJOR_RD_ANNO	County DPW Survey Doc Major Road Anno		<input type="checkbox"/>	<input type="checkbox"/>	County	
SURVEYDOC_MINOR_RD_ANNO	County DPW Survey Doc Minor Road Anno		<input type="checkbox"/>	<input type="checkbox"/>	County	
SURVEYDOC_PARCEL_ANNO	County DPW Survey Doc Parcel Anno		<input type="checkbox"/>	<input type="checkbox"/>	County	
SURVEYDOC_PARK_LG_ANNO	County DPW Survey Doc Large Park Anno		<input type="checkbox"/>	<input type="checkbox"/>	County	
SURVEYDOC_PARK_SM_ANNO	County DPW Survey Doc Small Park Anno		<input type="checkbox"/>	<input type="checkbox"/>	County	
TOPO_40_SG	SANDAG 40 foot contours		<input type="checkbox"/>	<input type="checkbox"/>	SANDAG	Regional

\* List from SanGIS Data Warehousing Intranet & Internet Geodatabase Data Model Document published February 2007

\*\* List from SanGIS Datawarehouse List August 10, 2007

\*\*\* Census geography is available but grouped with other census attribute data

Legend	Represents
<input checked="" type="checkbox"/>	Yes
<input type="checkbox"/>	No

Ownership	Count	Percent	Count	Percent
City	72	27.4%	89	37.6%
County	83	31.6%	17	7.2%
SANDAG	22	8.4%	130	54.9%
SANGIS	27	10.3%	1	0.4%
Unknown	59	22.4%		
<b>Total</b>	<b>263</b>	<b>100.0%</b>	<b>237</b>	<b>100.0%</b>