EQuIS™ Data Governance Checklist



EarthSoft works with organizations to establish EQuIS Data Governance programs based upon their business goals and drivers and data principles. This checklist provides an overview of data governance elements that are important for maximizing investments in their EQuIS data management system.

Oı	rganizational Framework
	Define roles and responsibilities relating to data governance and data management.
	Gather contact information for all stakeholders (e.g., organizational contacts, subject matter experts, laboratory contacts, field data collectors, data users, regulatory agency contacts, contractor contacts, and EarthSoft contacts).
Cr	reate Data Policies
	Data Acquisition – Ensures data uploaded to EQuIS are fit for use. Defines use of EQuIS Collect or EDGE.
	Data Integrity – Ensures data in motion between the EQuIS ecosystem and other systems are transferred in a secure way from known authenticated sources that can be audited.
	Data Security – Addresses EQuIS Facility and User permissions, use of EQuIS REST API, and data exports. Determines who will host and provide IT support for EQuIS database.
	Data Quality – Ensures high-quality data, which are accurate, complete, consistent, reasonable, timely, and valid. Describes use of EDP, SPM, and DQM.
	Data Use and Sharing – Ensures data are not misused or abused, and are used ethically, according to any applicable law, and with due consideration for individual privacy.
Da	ata Management Workflow Review
	Examine current data workflows and identify desired improvements. The workflows should maximize use of electronic exchanges of data between field and laboratory personnel (e.g., use of Collect Data Form, eQuote, eCOC, and eSRN). Includes:
	☐ Planning for data collection
	lacksquare Performing field data collection (manual and automated data logging)
	Processing for laboratory data analysis and review
	Assessing, reporting, and/or visualizing the collected data
	Identify responsible party or parties for performing each workflow step.
	Identify EQuIS application(s) for each workflow step.

Reference Data	Establish Metrics
Identify and upload the desired Reference Values to EQuIS reference tables.	☐ Data Quality
	Cost, compliance, and quantity
Populate Reference Values for DQM and SPM as well as Action Levels.	☐ Data storage and usage
	☐ Key Performance Indicators
EQuIS Format Files and	Historical Data Migration
EDD Generation	☐ Identify existing data sources (e.g., databases,
Determine which standard EQuIS format file(s) will be used or if custom format file(s) are	spreadsheets, PDF files, paper reports or logs, etc.) and any data gaps.
needed to submit the organization's field and analytical transactional structure as well as operational metadata.	Determine which data sources will be migrated t EQuIS and identify data mapping requirements. Consider data completeness, relevance, and
 Identify current laboratory electronic deliverables and assess laboratory capabilities 	integrity when deciding which data to migrate.
(LIMS) to meet EQuIS requirements.	Data Integration and
Document and Content	Interoperability
Management	Identify third party applications (e.g., GIS, CAD, modeling, etc.) that will use EQuIS data and
Determine whether/how unstructured data (e.g., photos, documents) will be stored in EQuIS or other content management systems.	determine interfacing/exporting requirements
	■ Examine EQuIS REST API usage for EQuIS data connectors (Microsoft Power BI, ArcGIS), other
Develop unstructured data retention and storage policies.	data exchanges, and data automation.
	☐ Determine use of EQuIS Information Agents
Training and Communication	Issue Management and
Develop organizational communication strategy relating to EQuIS data governance that includes data policies, standards, and processes. Assess training needs; identify who needs to be trained and at what level.	Change Management
	Develop Issue Management process for identifying, quantifying, prioritizing, and
	resolving data governance related issues.
Determine plan and schedule for hands-on training.	Determine Change Management procedures to implement the EQuIS Data Governance within the organization. Identify key steps as well as the timing and schedule for each step.

Contact EarthSoft at info@earthsoft.com for more information about EQuIS Data Governance.

