

APPENDIX D

CROSSWALK OF ELEMENTS BETWEEN ENVIRONMENTAL MONITORING AND GEOSPATIAL DATA PROJECTS

QA Process	Environmental Media (e.g., Water/Soil)	Air Photo/ Digital Imagery	New Geospatial Data (e.g. GPS)	Existing Geospatial Data (e.g.,GIS)
Systematic planning for quality objective & criteria (A7)	PARCC, method detection limits, etc; instrumentation specifications	scale/resolution; camera/sensor specifications; overlap, cloud cover,	precision, accuracy, format	data quantity and quality; size of database(s), data sources; processing or image generation; hardware/software needs
Sample process design (B1)	Sample locations/sampling grid	determine image area/flight lines/satellite paths/number of images specified, need for ground control points, ground-truth	determine number and locational target measurement points	
Sampling Methods (B2)	bailer, corer, grab, etc.; field logistical considerations	film type, image type flight logistics, weather considerations	GPS, SOP for GPS use, Base station availability;	
Sample Handling & Custody (B3)	sample preservation, packaging, shipment, custody sign-off	take photo/record or acquire digital image; scanning of analog imagery to digital	Transfer of electronic data, logbook information	
Analytical Methods (B4)	process/digest/filter extract; instrumental analysis	phot analysis methods	imagery analysis; digitizing; post-process procedures	
Quality Control (B5)	PE sample, QC sample collection and analysis;	screen images for quality. Conduct ground truthing	compare to ground surveys, benchmarks	

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Instrument/ Equipment Testing, Inspection, Maintenance (B6)	Field and laboratory instruments and equipment	Cameras, other image collection sensors; photolab equipment, light tables, etc.	GPS unit; other meters, measurement equipment which could be used to ground truth or tie attribute data to a location	
Instrument/ Equipment Calibration/ Frequency (B7)	Calibration of field and laboratory instruments and equipment	Cameras, other image collection sensors; photolab equipment, light tables, etc.	number of satellites specified	
Inspection/ Acceptance Specifications for Supplies and Consumables (B8)	Disposable supplies, solvents, sample bottles, etc.	Film, photo processing chemicals, overlays	Disposable supplies, logbooks, etc.; quality of consumables, inks, paper, discs, etc.	
Data Acquisition (Non-Direct Measurements) (B9)	earlier RI/FS site investigation reports, databases	collateral information	area descriptions, target lat/longs from documents, databases, etc.	check metadata, data quality assessment, evaluate limitations; topological relationships;
Data Management (B10)	Data transfer; analog data to digital; system backups	Imagery library;	transfer and storage of hardcopy and electronic data	Hardware/software configuration and testing, process data; data processing & transformations; QC checks on output