

ERMN – PA Meeting
6-22-04

JOFL and ALPO

1:24000 – Mapping done in folios, mid 20th century work, compiled onto 1:62500

can get original mylars;

M96 – only coals and structure
A96 – Tyrone Atlas

Kathy would like to use Cambria county map for JOFL
Gap is in Allegheny Front, park wants to be sure to cover that, but Blaire county isn't covered

Can we get scans of 1:24000 maps?

Maps are available as PDF files on their websites

Use Cambria County Map WR 67 for JOFL and Western ALPO (Stable Bend unit), use Crescent and Hollidaysburg quads from MAP 61, may need some edgemapping,

Frankstown, not shown as a Quad of Interest, also from Map 61

FONE and FRHI

W60 is 1:50,000 of Fayette County, includes all of FONE and FRHI, but not all of Masontown Quad

W63, Water Resource Map of Greene County includes area to west of FRHI that may be of interest

M-91 Coal Resources map available

UPDE

Maps –

[Be sure to include any discussion of DEWA]

Have Honesdale 1:100,000 [not going to be available], compiled from quads, surficial maps at 1:24000 complete coverage all the way south to Narrowsburg

Maybe more work to be done in Damascus Quad, redbeds present there that could be split out

Review:

1:24000 surficial of quads down to Narrowsburg, then Pike County map to cover the south; supplement the bedrock in north with statemap 1:250,000

VAFO

No glacial

Cave and Karst – Bone Cave Historic occurrence, is sink hole, interp, cave forming today, will have geophysical survey (gravity and conductivity), active karst processes in park, i.e. sinkholes, subsidence; intermittent stream with sinkhole activity; may have impact on park infrastructure, health and human safety; new water line location in sinkhole prone area in wetland behind park office; have as GPS location, add to park map as a layer; typically small; plant occurrences unique to karst or cave communities? In nearby quarry, enlarging sink hole? Hole (cave) in wall of quarry blowing, assumed to have other opening. Possible repository in paleo-cave debris for paleontological. Known cave openings in surrounding area. No bat gates and closures (see John Burhardt). Bat study coming. Can add to state sinkhole database.

No geothermal – not traditional, but possible use of cool water as heat pump for cooling

Fluvial Processes – stabilize stream banks in gap between Mt. Joy and Mt. Misery, Schuylkill has flooding history, park infrastructure not in floodplain. On north side is picnic area and restroom potential flood damage, has state scenic designation; important bird area, impoundment basin, all coal silt, will remain for current biodiversity and resource management, utilities along eroding stream banks on Valley Creek (sewer, water lines, historic structures, archeological resources), remediation of contaminated sediments outside park, may move inside, Fluvial geomorph study for entire watershed, NSF funding in park unit, 5 components, one of which is geomorph, new storm water regs pending; dam on Valley Creek may be removed, what to do with sediments behind dam now. Water quality studies as part of NSF, U of MD prof looking at water quality, have Horizon Report; 30 to 38 contaminated substances found in sediments or groundwater.

Lacustrine/Paludal – No lake, have wetlands in desilting basin with pond, have a stock pond spring fed on park property with dam,

Hillslope – have talus slopes, Valley Creek drainage, possible impacts on roads in park

Aeolian - NA

Volcanic - NA

Seismic – see PGS brochure

Unique Features – see cave, Scenic Feature Book, stromatolites, desilting basins have native biodiversity component; charcoal, dips and piles for old mining locations; iron? copper? Supplies for Forge, Newark Basin contact Triassic Cambrian, on Mt. Joy is small quarry, T&E shrub, unknown relationship to geology, deep limestone quarry in sw corner of park

Paleo – pending Inventory, Bone Cave, stroms or invertebrate fossils

Mineral Development/Disturbed Lands – removing Mt. Joy road and parking lot and restoring (Fed Highways), potential encampment area topography/quarries; no plans for restoration, asbestos site remediated by State and NPS, restoration of landscape, PMIS statement to review, trail restoration?

Interp – Encampment, Interp staff going to include natural resources, will include geology, PGS publication

HOFU

Cave and Karst – NA

No geothermal

Fluvial Processes – small creek runs through park, erosion during storms, not of RM concern, more of maintenance concern

Lacustrine/Paludal – Hopewell Lake just outside of park, park is downstream, concern over earthen dam stability, impacts water quality

Hillslope – no real steep road cuts

Aeolian - NA

Volcanic - NA

Seismic – see PGS brochure

Unique Features – area had all components for iron production; ore, limestone, wood for charcoal, water source powered bellows,

Paleo – waiting on Vince, is in Newark Basin, there are local dino footprints

Mineral Development – nothing within jurisdiction, but quads of interest may contain quarries, mines, shafts, etc. that provided raw material

Interp – replicate process, all moulding and casting, want to tie surrounding areas with ore, limestone, ect, were brought in for make iron

UPDE

Glacial – glacial deposits, all along river, can product story on topography, course of river, interp: could inventory glacier features for interp reasons; surficial materials primary source is glacial; DEWA found mastodon; connection to ground water and its impact on ecosystem, soil structure? Tie to wetlands presence, modern day periglacial features, impacts from visitation increase and external development

Caves and Karst – limited at best, no carbonates; small calcareous-sand caves and undercut shelter area (potential archeological)

No geothermal

Fluvial processes – it's a river, for crying out loud!! Erosion, sedimentation, siltation issues appear insignificant, recreational use dominates, periodic flooding and isolated flooding of individual drainages; tributaries – associated wetlands as headwaters, dam controlled on NY side

Lacustrine/paludal – don't have inventory we are aware of, need to discuss with bio types Naturally occurring stemming from glacial deposits?

Hillslope – stable riverbanks along floodplains, possible introduction of sediment from tributaries

Volcanic – NA

Aeolian - NA

Seismic – see PGS brochure

Unique Features – PGS books on geologic scenic features of PA (vol 1 and 2 both out of print, RAs will need to track this down, USGS library?), Pennsylvania Natural Diversity (list T&E) – may have applications; may be type section of Lackawaxen, ask Jon Inners Would be in Pike County publication

Paleo – Vince did ERMN paleo inventory, there are paleo resources, is included in inventory - fish scales, ferns in Catskill Formation, may have significance

Mineral Development – sand and gravel pit, only one commercial known, is on private land; local quarrying; may be more present, bluestone decorative rock small facilities, abandoned landfill been reclaimed, reclaimed superfund site (largely paint products), radon occurrence and/or uranium mining; water supply issue

GETT

Cave and Karst –

No geothermal

Fluvial Processes

Lacustrine/Paludal

Hillslope

Aeolian

Volcanic - NA

Seismic – see PGS brochure

Unique Features –

Paleo –

Mineral Development

Interp

Update on DEWA