

- limitation of aquifer studies to 30m - couldn't drawdown affect more
- shallow geophys. defn. of subsurface
- overpressured upward movt. from below -
- brkn fract.
- slope factors (25% ?)
- backfill materials - stress spread to minimize exposure
not zeolites or clays mixed to absorb nuclides - in part of sg filling voids
- ESL pitch - need to eval. geol. repts. -
gather geophys., geoch data
- site studies - largely soil & quat.
- note # of places could be sold bill of goods!

in scoping role, need to ident.

assumption is that hydrolog. is limiting factor

would be stronger if allied w/ eng. co., w/ soil scientists
hydrolog. modelers

response to RFP - on characteriz. of backfill radionuclide absorbers (?)
missing step

impt. factors - prevent mobility of radionuclides
assumpt. - will have " thru groundwater

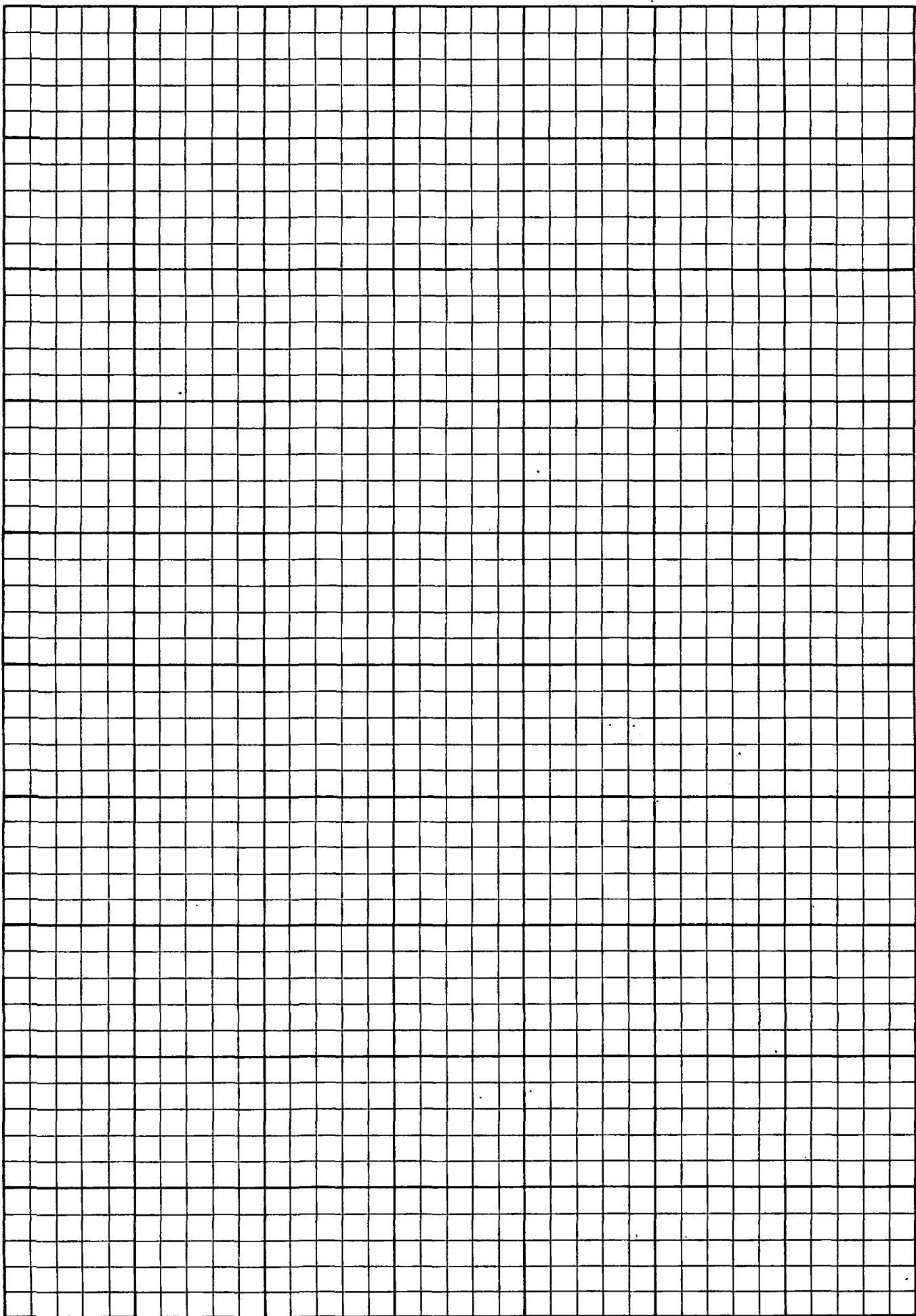
also plants, etc. settling, breaking ground cover

geol. factors - non-tectonic
non-erosive

role for ESL - in eval of compact decisions

why ESL - characterize mobility of munt of waste (geoch.)
- " site geol
geophy

Missing - hydrologists (EG & G to help here?; or pvt. companies?)



screening

resource analysis missing @ times - & in breath of included
slope stability could be a real problem
expansive soils?

could do as support eval. team

add - aerial photo interp.

AMFAD
22-141 50 SHEETS
22-142 100 SHEETS
22-144 200 SHEETS

The major problem - may be rather than making sure that plans are inclusive, making sure that contractor site screening and characterization are "

can't rely on public comment to expose fatal flaws

can rely on contractors to do lowest cost proj. possib., ∴ cut corners & bury misdeeds

intrusions - natural thru

technics

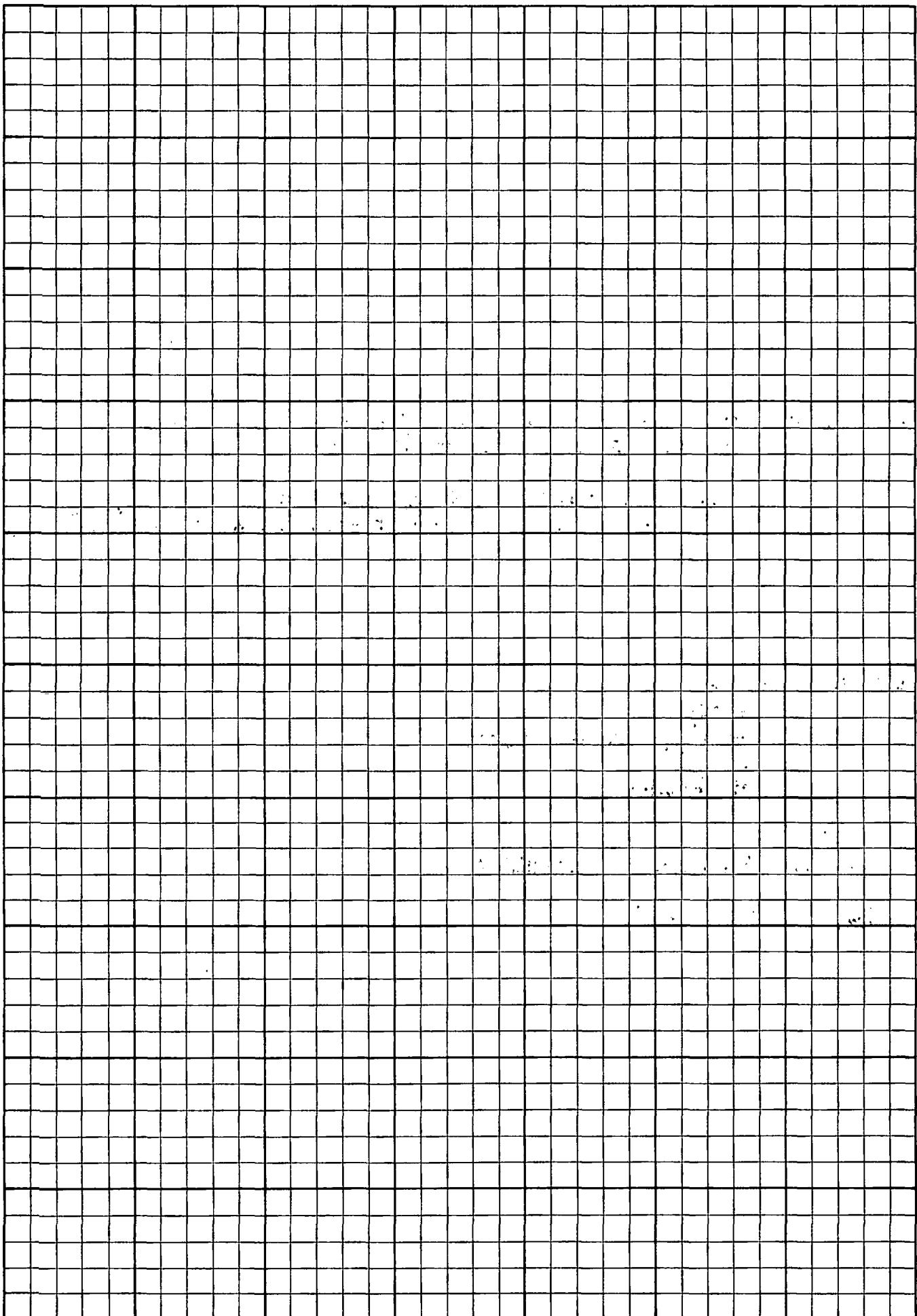
weathering, erosion, chem. breakdown

plants

other breakdowns

harmless activities of emplacement of small quantities of

handbook is light on the details





lo level waste

Banyan A - only \$ to ESL would be over Matheson signature
ORNL }
EG&G } most \$
PNL

shallow burial - ORNL

goal - states to do lo level
Rocky Mtn compact
NW } UT, CO, NM, WY, NV
CA? HI, AK, ID, OR, WA, MT
will select sites in states

MAPW - handbook is deficient in geol. sciences
- suggests pitch to Bay - advice on siting, help keep states lined up

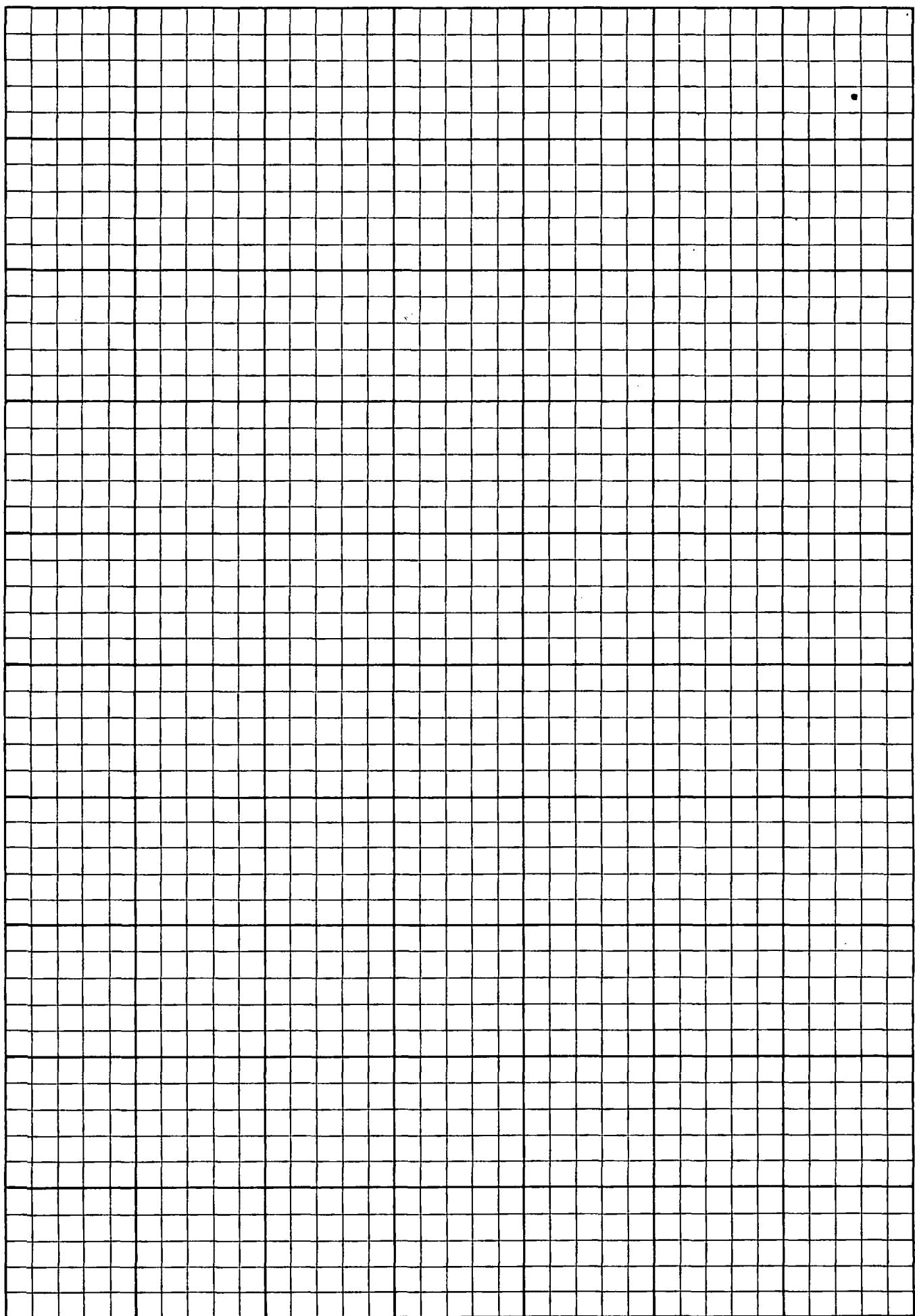
2 approaches - RFP
or needs help
maybe suggests areas of research

p179

407 - & section following

417

Mtg attendees	
255	
238	
173	
159	



Memo to: files

From: Mike Wright

Subject: meeting with Michael Borainea, DOE-ID re
DOE low-level Waste Management Program

~~I know~~

1. DOE could not be interested in attaching work to our present contract, but would "much prefer" a new contract, competitively let, as per recent PROB
2. Characterization of potential disposal sites is the responsibility of each of the states. The states are grouped in compacts. Utah is in the Rocky Mountain compact, consisting of Utah, Colorado, New Mexico, Arizona, Nevada and Wyoming. The Northwest compact is Idaho, Washington, Oregon, Montana, Alaska and Hawaii.
The host state for the Rocky mountain compact is Colorado, i.e. Colorado will get the low-level waste site. Thus the State of Colorado will probably favor the entities within the state to do their characterization.
The only way ID could find site work in Utah would be our Gov. Morthew's signature, and he is not likely to volunteer Utah for such studies.

(2)

3. There is possible work in evolution of techniques. ~~Some areas~~ Two potential areas are Remedial Action and Shallow Land Burial. Contractors already working in these areas are EG&G, DRL, and the USGS among others.

There is a possibility that we could be used in putting the results of ongoing research by others into a format useable by ~~the~~ states.

4. Our budget for the PROS Breach event by PD is small, \$500K, and will probably be divided among a number of universities. Reason for PROS is to channel the long list of universities that they get.
5. DOE's man in EG&G who handles the program is George Levin, at 5005, who can also give us an idea of program scope. Bob Dodge ~~is~~ works for Levin.
6. In the high-level waste program, it now looks like Texas will get the nod over Utah, in which case further money will go there. If Utah gets the nod, then we should interface with:
 Woodward-Clyde -- site characterization
 Bechtel -- environmental
 ? -- EA/E contractor recently selected
 ? -- drilling contractor recently selected.

W Maggie

1. Handbook - being put together by Oak Ridge -

Topics

1. migration of redwings
2. Hybrids

In handbook, they are throwing all feeding as in the book at siting. May be counts should be mean across the board.
+ types of data.

May be best could be involved in reviewing site character data (any etc.)

Mating - all final goals require this during active behavior -

All flesh are bound on winter analysis -
Required to have winter counts. What other techniques could be used down hole. Is info from winter counts pertinent. Another down hole technique that would be better.

-
1. Mike has whole national program - | pass at a
level works for him | from ID to
rest.

2. Davy Large - DOE / oak ridge -
- shallow land handbook

- first convince people here that fast quality results -

Oakridge - geo/geophy/hydro -

Code office - doesn't have appropriate
rules/advice

no geoscientists doing geosci jobs.

Agreement barriers - applied to any site
but with selection - this is weakest link -

Expl. Philology needs to be imposed on selection -
who in DOE will check the state work?

In earth with fixed constraint -- caps for site
character.

state prog is a cost-shared program. - So
DOE will maintain control & say in what happens
- Congress is being used to form compact.

- we have a job to provide tech assist to states
-- can set you up, check state work, etc.

H - Session 3-2

N. J. Vaughan - in charge of manual

- Greater Copperbelt - much by pumping -
High-Land areas

Low-Land - glas, do not lag 1/2 life - SLB
but have whole group of things to copper for
several yrs, but not worth high-lab, deep buried -

How to get rid of this - bury natural depth →
3rd type nozzle form -

so they are starting to look at this area.
This has its own soil selection, runners, etc.
what are essential rock properties -
more control than shallow led sand
less than 1/2 in -

1. Interested in a new procurement; not coupling w/ current contract
2. Commercial work
 - EPRRI
 - waste volume work
 - Shallow tanks - help states establish better shallow disposal techniques -
Budget for PROS limited:
Stock avoid, do be divided among
 - PROS - to ~~not~~ handle muscle proposals
in one batch -
 - look @ unrelated purposes for states →
3. His counterpart in EG&Q
George Levin 526-0665 -
4. Detailed site characterization is resp of state.
Utah - Washington compact
Colo, N.M., K.S., Nev, Ariz - ^{Rocky mtn.} R.M. compact
Id, W.A., O.R.C., W.T., A.K., H.A. - New compact

Host state for R.M. is Colorado -
site character is rep of host state
Mathew - will not volunteer for the host state

- It is a persist to evaluate techniques -

see p - in Big Blue Book -
Rounded Action & Shallow Gas Period

USGS - dashed pulses

CANL, PNL - buried chan walls

they are trying to put the records units together

new action - look @ existing techniques/
conclude out -

- see p.805 →

- lots comment for htd \$ -

- to Crown now, talk to George Lavin ←
also Bob Dodge. -

Utah - WC -

Bartel - avian consultant - see them, too
A&E + drill cont. also
But Texas is leading latter