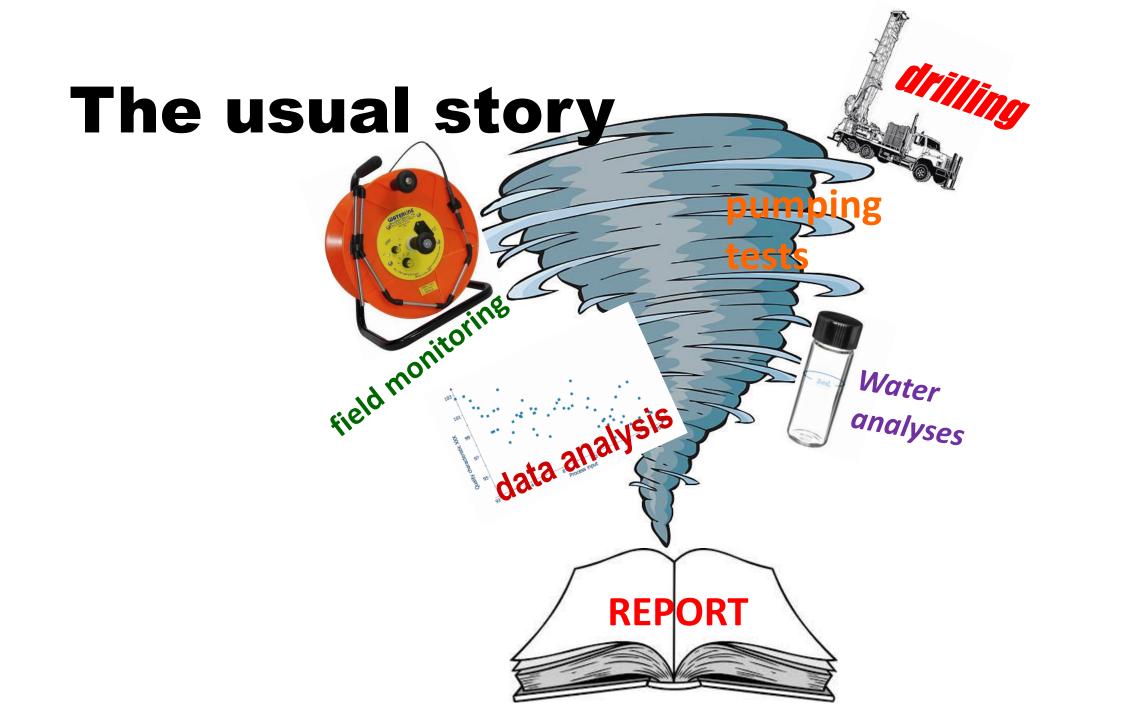
Communicating to all Sides: The Quandary of the Groundwater Scientist

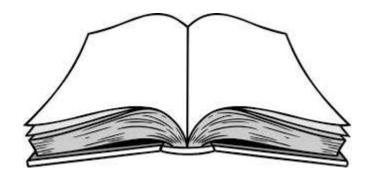
Kelton D. L. Barr, PG Kelton Barr Consulting LLC



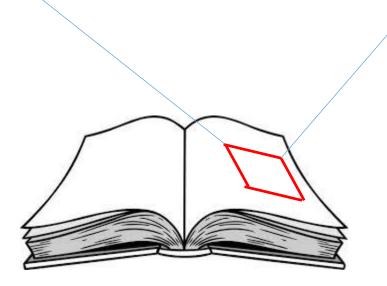
The groundwater report...

--factually correct, making proper conclusions

--tempered by client/reviewers/ manager



--more circumspect for other stakeholders/regulators/lawyers Ένθ' ἄλλοι μὲν πάντες, ὅσοι φύγον αἰπὺν ὅλεθρον, οἴκοι ἔσαν, πόλεμόν τε πεφευγότες ἦδὲ θάλασσαν· τὸν δ' οἶον, νόστου κεχρημένον ἦδὲ γυναικός, νύμφη πότνι' ἔρυκε Καλυψώ, δῖα θεάων, ἐν σπέσσι γλαφυροῖσι, λιλαιομένη πόσιν εἶναι. ἀλλ' ὅτε δὴ ἔτος ἦλθε περιπλομένων ἐνιαυτῶν, τῷ οἱ ἐπεκλώσαντο θεοὶ οἶκόνδε νέεσθαι εἰς Ἰθάκην, οὐδ' ἔνθα πεφυγμένος ἦεν ἀέθλων, καὶ μετὰ οἶσι φίλοισι· θεοὶ δ' ἐλέαιρον ἅπαντες νόσφι Ποσειδάωνος· ὁ δ' ἀσπερχὲς μενέαινεν ἀντιθέῳ Ὀδυσῆϊ πάρος ῆν γαῖαν ἱκέσθαι.

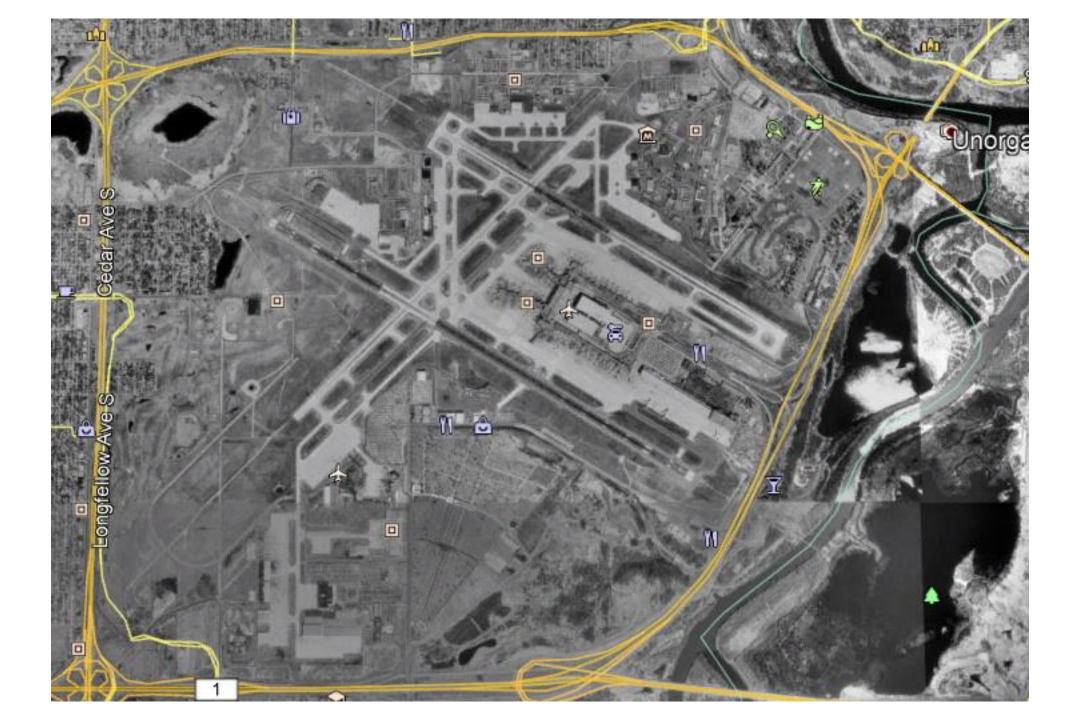


The result to the general public:

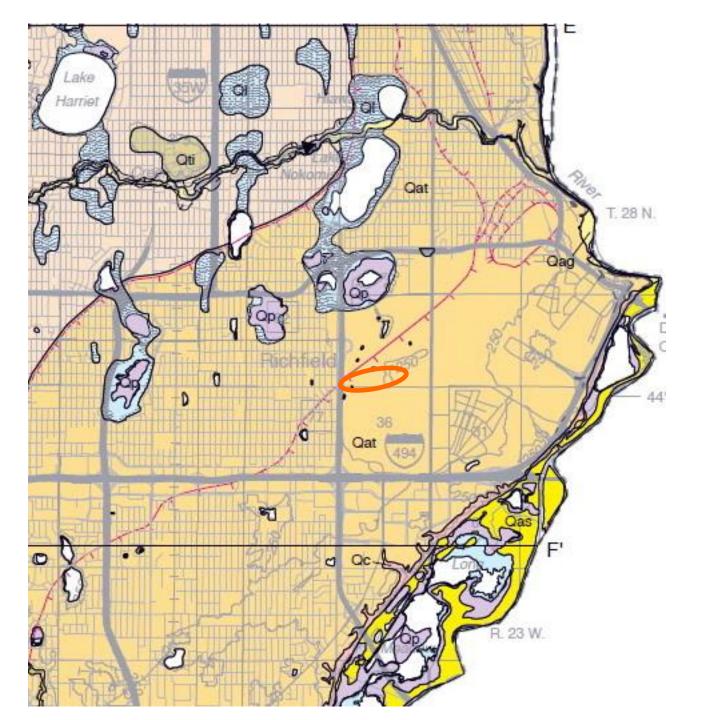
--professional-speak--arcane language

--baffling--incomprehensible--inaccessible

--misinterpreted







K = 500 feet/day

MAC model: Q up to 6,000 gpm

....drawdown beneath Lake Nokomis. However...

....drawdown of Lake Nokomis.

Star Tribune (Minneapolis, Minnesota) · 15 Jun 2000, Thu · Page 1

A runway project could cause Lake Nokomis to drop 4 feet and affect other nearby lakes, a consultant says.

Tunnel work could lower lakes

By Mark Brunswick Star Tribune Staff Writer

Water levels at Lake Nokomis, a popular recreation area in south Minneapolis, could drop and Mother lakes, a consultant for the Minnehaha Creek Watershed District has concluded.

The data so concerns district officials, who must issue permits for the project, that they've tunnel and the new north-south runway under which it would pass, says its data show that lake levels would be affected only slightly.

Ground water moves below

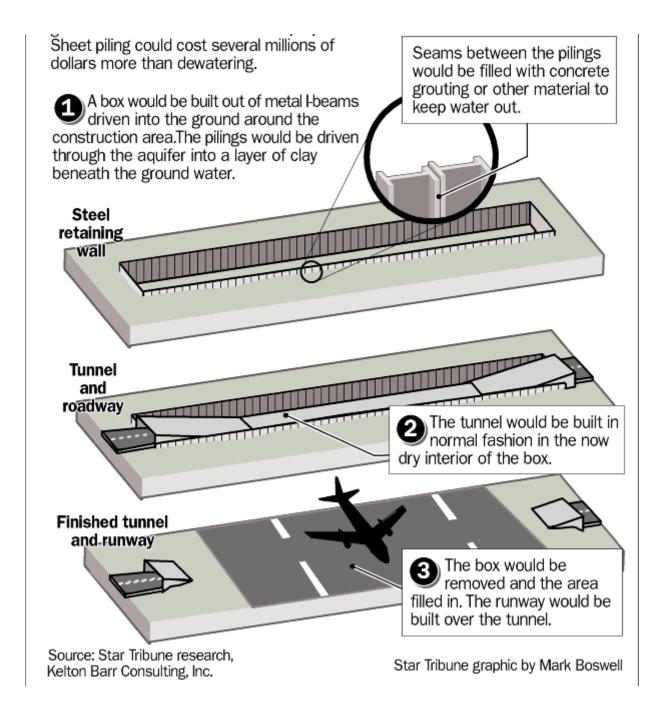
Issues are emotional. Hundreds at public meetings

Solutions are technical.

Consensus modeling

Decisions are political.

They built a wall





United A ME HIN -... because nothing says "winter" like freezing hydraulics on your drilling rig

For further reading:

"An Inside Look at the Minneapolis-St. Paul Airport Ground Water Dewatering Controversy" by Stu Grubb, MGWA Newsletter, September, 2000; Volume 19, Number 3.

"Public Perceptions behind the Airport Dewatering Controversy" by Mark Toso, MGWA Newsletter, December, 2000; Volume 19, Number 4.

Thank you for your time!