

Environmental Measurement Claims and Uncertainty

g12_u07_w28

Evaluate original fictional monitoring-data cards. No sampling, fieldwork, environmental intervention, regulation, or real-world decision is requested.

1. What is a measurement claim?

2. Why must units be named?

3. What is uncertainty?

4. Why can a precise value remain uncertain?

5. What does a sample boundary mean in a card?

6. Why is one location not a complete system?

7. What does a time label require?

8. What is a control or comparison?

9. Why might readings vary?

10. What is a claim boundary?

11. Card M reports a change. What is directly supported?

12. What environmental conclusion is not supported?

13. Why should missing data be named?

14. What additional fictional card could help?

15. Why must correlation not become causation?

16. Give one non-color-only graph feature.

17. State one prohibited regulatory or intervention claim.

18. Compare a monitoring card with a real decision.

19. Write a cautious trend observation.

20. Write a two-sentence bounded conclusion for Card M.
