GSA BBASC Recommendations: Flow Regime Structure Decision Process

July 6, 2011
Subsistence Flows

BBEST OK?
- Yes
  - BBEST “50% Rule” OK?
    - Yes
      - BBEST 3 Tiers OK?
        - Yes
          - BBEST Hydrologic Conditions OK?
            - Yes
              - Select From
                - SB2 Q95
                - 7Q2
                - Other
    - No
      - BBEST 5 Tiers OK?
        - Yes
          - BBASC Recommendation(s)
        - None
          - BBASC Recommendation(s)
    - No
      - BBASC Recommendation(s)

Base Flows

BBEST OK?
- No

BBEST “50% Rule” OK?
- Yes
  - BBEST 3 Tiers OK?
    - Yes
      - BBEST Hydrologic Conditions OK?
        - Yes
          - Select From
            - Flow Average Period Reservoir Storage
        - No
          - Select From
            - 1Tier (TCEQ) OK?
              - Yes
                - Add Seasonal In-Channel?
                  - Yes
                    - Select From
                      - 1/Year 1/2-Year 1/5-Year
                      - Add Multi-Season Overbank?
                        - Yes
                          - BBASC Recommendation(s)
                        - No
                          - None
                            - BBASC Recommendation(s)
                      - No
                        - None
                          - BBASC Recommendation(s)
              - No
                - 2 Tiers Hydrologic Conditions Seasonal Values
                - No
                  - BBASC Recommendation(s)
                  - Select From
                    - Eliminate “50% Rule” Eliminate Diversions Below Base Other

BBEST 5 Tiers OK?
- No

Pulse/Overbank Flows*

BBEST OK?
- Yes
  - BBEST Hydrologic Conditions OK?
    - Yes
      - Select From
        - Flow Average Period Reservoir Storage
    - No
      - Select From
        - 1Tier (TCEQ) OK?
          - Yes
            - Add Seasonal In-Channel?
              - Yes
                - Select From
                  - Partial 2/Season (TCEQ)
                  - 2/Season
                  - 2/Season & 1/Season
              - No
                - None
                  - BBASC Recommendation(s)
          - No
            - None
              - BBASC Recommendation(s)
      - No
        - None
          - BBASC Recommendation(s)
    - No
      - None
        - BBASC Recommendation(s)

Additional Considerations:
1) Different standards for new run-of-river and reservoir permits?
2) Threshold for application of pulse standards to new run-of-river permits?
3) Geomorphology Overlay?