

DILUTION CONCERNS IN RECOVERY MONITORING & RECOMMENDED ACTIONS

Creatinine	Specific Gravity	Result	Possible Explanation	Recommended Action
5 – 20 mg/dL	> 1.0010 but < 1.0030	Negative	Dilute	Consider including the FSSolutions dilute specimen follow-up protocol into the testing program. If the program wants to require a re-collection of the specimen, it should be done as soon as practical and with no prior notice to the participant.
2 – ≤5 mg/dL	> 1.0010 but < 1.0030	Negative	Hyper-dilute	Consider including the FSSolutions dilute specimen follow-up protocol into the testing program. Immediate recollection under direct observation and/or consider requiring an alternative specimen for testing.
< 2 mg/dL	≤ 1.0010 or ≥ 1.0200	Negative	Substituted. Not consistent with normal urine.	Should be considered a refusal to test and a program violation. An MRO interview/review may be offered. Split specimen re-confirmation also available.
< 2 mg/dL OR ≥ 2 mg/dL	> 1.0010 and < 1.0200 ≤ 1.0010	Negative	Mismatch, invalid and suspicious. Manipulation by participant is considered likely but cannot be forensically proven.	MRO review is not recommended because it takes time and there is no medical explanation for this result. If the collection was not observed, an immediate recollection under direct observation should be performed and alternative specimen testing should be considered.

*Possible explanations are contingent upon both creatinine and specific gravity criteria being met.