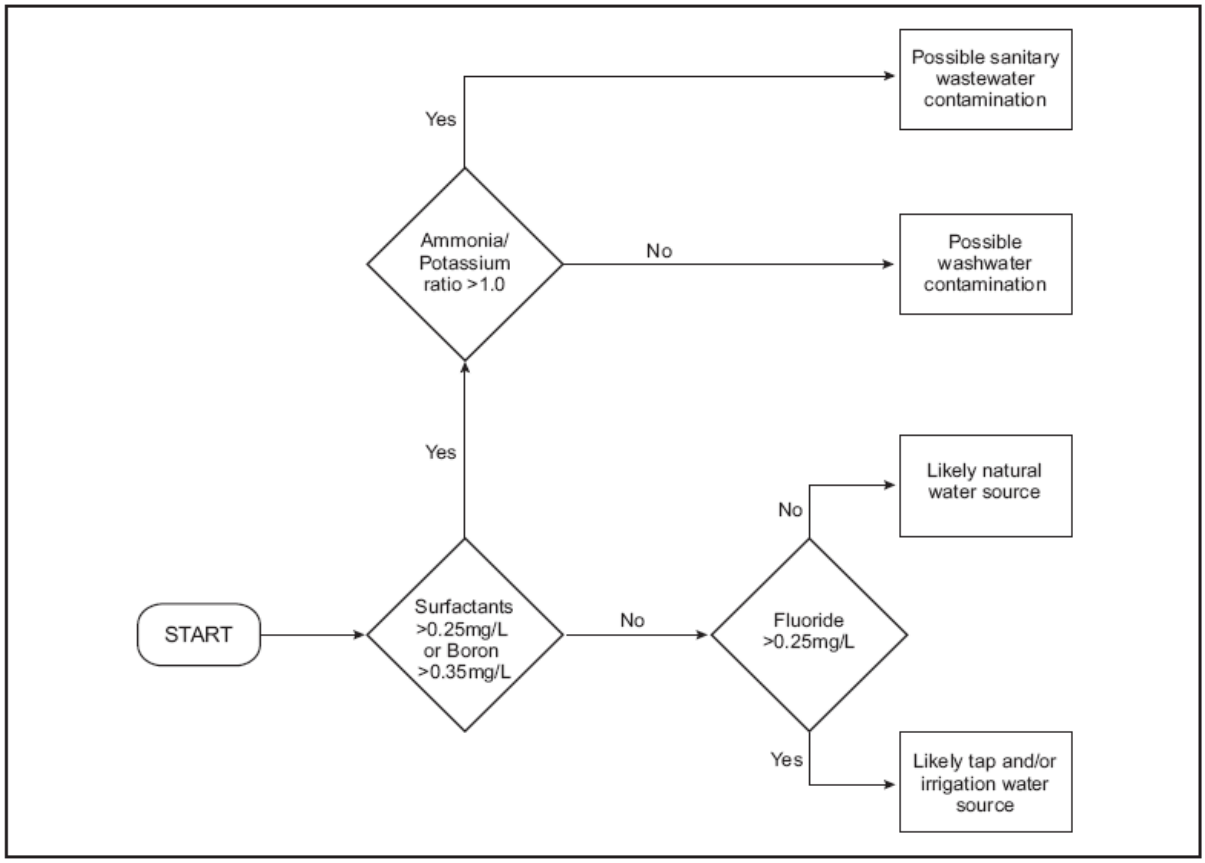
## APPENDIX I – FIELD MEASUREMENTS, BENCHMARKS, AND INSTRUMENTATION

| ANALYTE | BENCHMARK | INSTRUMENTATION[1] |
|---|---|---|
| | | |
| Surfactants (as MBAS) | > 0.25 mg/l | MBAS Test Kit (e.g. CHEMetrics K-9400) |
| Potassium (K) | See ratio below | Portable Ion Meter (e.g. Horiba Cardy C-131) |
| Ammonia ($NH_3$) | $NH_3$/K > 1.0 | Portable Colorimeter or Photometer (e.g. Hack DR/890, CHEMetrics V-2000) |
| Fluoride (F) | > 0.25 mg/l | Portable Colorimeter or Photometer (e.g. Hack DR/890, CHEMetrics V-2000) |
| Temperature | Abnormal | Thermometer |
| pH | Abnormal | pH Meter |

Flow Chart for Determining Likely Source of Discharge (Pitt, 2004)




[1] Instrumentation manufactures and models provided for informational purposes only. Mention of specific products does not constitute or imply EPA endorsement of same.

**Instrumentation Cited (Manufacturer URLs)**

MBAS Test Kit – CHEMetrics K-9400:
http://www.chemetrics.com/Products/Deterg.htm

Portable Photometer – CHEMetrics V-2000: http://www.chemetrics.com/v2000.htm

Portable Colorimeter – Hach DR/890: http://www.hach.com

Portable Ion Meter – Horiba Cardy C-131: http://www.wq.hii.horiba.com/c.htm