

Monthly Progress Report
Bear Creek Inter-County Drain Clean Water Initiative
October 1 – 31, 2002

Progress Made:

Follow-up Sampling –

- Performed wet weather sampling on four storm drains: the Kutchey Inter-County Drain (two locations: 135-A & 135-B), Bear Creek Inter-County Drain (619-13), the Sharkey Inter-County Drain (630-11-3A), and the Kutchey-Warren Branch Drain (709-14). All five locations exhibited elevated *E. coli* concentration geometric means (>24,192, 11,723, 7,100, 5,454, and 3,662 MPN/100 ml, respectively).
- While icing the sampler in anticipation of wet weather event, the field crew detected a strong hydrocarbon odor from the Bear Creek follow-up manhole location (619-13). Hydrocarbon samples (BTEX and PAH) were collected from manhole 619-13 and from the manhole upstream along Dequindre Rd (just south of the siphon). The results for both samples were below the laboratory detection limit. Therefore, it was presumed that the hydrocarbon plume had already passed by the time the samples were taken.

While investigating the hydrocarbon odor, the field team observed gray staining on the bottom of the drain. Gray staining and “fresh” sanitary debris was also observed in the 48” drain just upstream of the siphon (the same location where the hydrocarbon samples were taken). The nature of the debris indicated that the illicit connection was not far upstream from the siphon. *E. coli* samples were taken at both locations. The downstream *E. coli* result was 5,794 MPN/100ml, while the upstream result was 52 MPN/100ml. Although the *E. coli* value for the upstream sample was very low, the physical debris still indicates the presence of an illicit connection discharging into the 48” drain.

- In response to consistent elevated dry weather flow, *E. coli* samples were collected from the Sharkey Drain follow-up location (630-11-3A) and from a 12” pipe entering the manhole. Both results were low (< 1 MPN/100 ml and 259 MPN/100 ml, respectively).
- Autosamplers were installed in two storm drains: the Hartsig Relief Drain (two locations: 786-1 & 786-8), and the Bear Creek Warren Branch No. 2 (723-5).

Final Verification Sampling -

- Collected a dry weather sample from the Grobbel Relief North & Branches Drain on 10/9/02. The *E. coli* concentration of the sample was 727 MPN/100 ml. Another sample was collected on 10/25/02 in anticipation of a wet weather event. However, the event produced insufficient rainfall for a qualifying event. The result was 1,842 MPN/100 ml.

Corrective Actions -

- The City of Warren corrected an illicit commercial lead connected to the Bear Creek Warren Branch No. 2 located on Ten Mile Rd. near Mound Rd.

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Problems Encountered & Recommended Solutions:

None

Activities for Next Reporting Period:

- Complete Follow-up sampling.
- Collect the last wet weather final verification sample from the Grobbel Relief North & Branches.
- Summarize sampling results.