

**Monthly Progress Report**  
**Bear Creek Inter-County Drain Clean Water Initiative**  
**October 1 – 31, 2001**

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**Progress Made:**

**Wet Weather –**

10/04/01 (Thursday) – Extracted sampler from the Meckler Drain (148-1). Installed sampler in the Bear Creek Inter-County Drain (619-2). The sampler was secured in a shed on the north bank of the river. The flow meter and sample probe were installed on the bottom of a concrete culvert on the east side of Mound Road just north of I-696.

10/05/01 (Friday) – The rain gauge read 0.60 inches at 7:45 am and it was still raining steadily. Proceeded to collect the sample bottles from Bear Creek (619-2). Moved on to the Kutchey Inter-County Drain (135-1). The sampler was full from an earlier nonqualifying rain event, so the bottle rack was replaced in order to collect samples from the current rain event. While the sampler at the Kutchey was collecting, the sampler at the Hartsig Drain (786-2) was extracted. The sample rack was full. Bottles 1 –18 were from an earlier nonqualifying rain event, so only bottles 19-24 were sent to the lab for analysis. Processed samples from the two locations while the Kutchey was still collecting. When finished, went back to the Kutchey and extracted sampler. 16 samples had been collected. Processed samples and proceeded to the lab. The flow meters were left in the drains due to the high water levels making it unsafe for manhole entry.

10/08/01 (Monday) – Rain gauge read 1.25 inches at 8:30 am, totaling 1.85 inches for the last event.

10/15/01 (Monday) – Rainfall over the weekend totaled 2.2 inches. No samplers currently installed. Two wet weather locations remain (Cramer Drain and the Centerline Relief Drain). Installation of both has been delayed. Public Works is locating a more suitable manhole on the Cramer Drain and a MDOT permit for traffic lane closure is being sought for access to the Centerline Relief Drain.

10/16/01 (Tuesday) – The rain gauge read 2.75 inches at 9:00 am, so an additional 0.55 inches had fallen over night. Checked out another manhole location on the Cramer Drain. It was one manhole downstream of previous location and was better suited for sampler installation.

10/19/01 (Friday) - Removed flow meters from the Bear Creek, Kutchey, and the Hartsig Drains. Installed a sampler in the new manhole location on the Cramer Drain (423-A).

10/23/01 (Tuesday) – 11:30 am – Overnight rain produce 0.25 inches according to the rain gauge, so a qualifying event had not occurred.

10/24/01 (Wednesday) – Rain gauge read 0.50 inches at 9:00 am, so a qualifying event had taken place. The ½” of rain fell over a 1-2 hour period. The sampler at the Cramer Drain only collected 2 samples from this event. The samples were processed and sent to the lab and the sampler was reinstalled.

10/25/01 (Friday) – Sampler was installed in the Centerline Relief Drain (023-0).

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In summary, wet weather sampling was completed on 4 drains (The Bear Creek Inter-County Drain, the Hartsig Drain, the Kutchey Inter-County Drain, and the Cramer Drain). This makes for a total of 29 drains sampled of 32. The results indicated that 3 of 4 drains were above the criteria of 3,000 colonies/100ml. This makes for a total of 20 of 29 drains sampled that have exceeded the criteria.

**Follow-up –**

- The City of Center Line has recently entered into an Administrative Consent Order with the MDEQ and are working on the following projects:
  1. Commercial Property Dye-Testing and Roof Conductor Separation Program – ongoing.
  2. System-wide Infiltration & Inflow Investigation – ongoing.
  3. Footing Drain Disconnection and Sump Pump Pilot Project – ongoing.
  4. Illicit Discharge Elimination Program resulting in the elimination of 6 illicit connections and the identification of six more potential connections in the southern half of the City.
- Macomb County Public Works Office is obtaining quotes for the televising (and tap sampling) of the Lorraine Drain.
- Macomb County Public Works Office has been trying to locate the source of an oil sheen that has been appearing intermittently in Bear Creek.

**Website –**

- The website was redesigned to include improved graphics (mast and buttons) and links for more information.
- The site was updated to include additional wet weather results obtained during the month.
- The website received a total of 151 visitors for the month.

**Problems Encountered & Recommended Solutions:**

- The rain event on Oct 23<sup>rd</sup> should have produced more samples in the Cramer Drain than what was collected. Field observations of the upstream catch basin showed that it was filled with storm water. This was most likely caused by a blockage in the drain. This blockage restricted the flow to the sampling manhole resulting in the small number of samples collected. The sampler was placed back in the manhole for possible additional sample collection for a subsequent rain event.

**Activities for Next Reporting Period:**

- Update website with monthly sampling data.
- Continue wet weather sampling as the weather allows. Three drains have not yet been wet weather sampled: the Centerline Relief, Campbell No. 2 and the Dunleavy Drains.
- Televising the Lorraine Drain.
- Follow-up sampling on various wet weather problem drains.