

2006 Summary of Activities

Madison Department of Public Health – Environmental Protection Unit

For 2006, the responsibilities of the Environmental Protection Unit of the Madison Department of Public Health were again concentrated in the core areas of:

- Groundwater Sampling at the five closed municipal landfills within the City
- Environmental spill response
- Permitting non-storm water discharges to the storm sewer under MGO 7.47
- Continued monthly monitoring of the principal storm sewer outfalls in Madison and the entire Yahara chain of lakes
- Special sampling projects: groundwater sampling at the MG&E/Odana Hills Groundwater Recharge Project, Lowell Elementary School air quality monitoring sampling

Groundwater Sampling: At the five closed landfills within Madison, 104 monitoring wells were sampled semi-annually, along with 2 private wells and one surface water sample. Samples were taken in accordance with WDNR and MDPH guidelines and submitted to the MDPH Chemistry Lab for analysis. VOC samples were also taken at all wells during the spring sampling round, with re-samples in the fall at wells exceeding WDNR PAL guidelines. VOC samples are analyzed at Pace Analytical Inc. in GreenBay, WI.

The well pumps at the Mineral Point, GreenTree and Demetral landfills were removed and serviced, where feasible, during the summer months. Each well was agitated and purged to remove any settled sediments in the well. New total depth readings were taken and each pump was disassembled and cleaned before being reinstalled.

Environmental spill response: The EPU investigates citizen complaints and referrals from other City Departments and outside agencies regarding illicit discharges and spills of potentially polluting substances to the environment. When responding to complaints involving individual citizens, the emphasis is on educating and informing the public of proper disposal practices and the consequences to the environment of not following them. Referral of individuals to the City Attorney for prosecution is generally reserved for repeat violations or in cases where the offense is so egregious that it warrants a fine.

When a business is involved in a complaint, they are handled differently due to a greater potential for repeat violations throughout the City. Where as an individual homeowner may commit a violation once during a home remodeling project, a contractor involved in repairs may continually violate if they do not use or understand Best Management Practices or follow the proper disposal codes. This year, 3 violations of MGO 7.46 were referred to the City Attorney for prosecution.

The following is a listing of investigated complaints for 2005.

Date	Location	Complaint	Outcome
January 20, 2006	6343 Nesbitt Rd	Carpet cleaning business disposing of waste water to ground surface	Address outside City of Madison, referred to Dane Co. Health and WDNR
January 27, 2006	6926 Pilgrim Rd	Inquiry on fleet vehicle washing outdoor	Provided WDNR guidelines and City recommendations
February 6, 2006	1034 Walsh Rd	Gasoline odor / illegal disposal of gasoline to sanitary/storm sewer	No problem evident
March 7, 2006	1325 Mendota St	Resident working on vehicle in driveway, automotive fluids spilled	Accidental release, informed of proper clean-up methods
March 8, 2006	601 Bay View	Improper disposal of used motor oil	Informed apartment building management of their responsibility to maintain and properly dispose of items on their property
March 10, 2006	Yahara River @ Yahara Place Park	Garbage floating in river	Garbage (mostly styrofoam cups, plastic soda bottles) most likely washed from storm sewer which empties into Yahara River at numerous spots upstream
March 12, 2006	Lake Monona @ Hudson Beach	Petroleum odor complaint forwarded from WI Div. Public Health	No problem evident
March 14, 2006	Yahara River @ E. Washington Ave	Brown plume in river	Construction project de-watering ordered to install additional infiltration
May 3, 2006	East Pass drainage ditch	Dead fish in "creek", concern of chemical/pesticide spill	Area is a stormwater drainage ditch, recent rains likely flushed out deeper ponded areas, washing fish out and stranding them once water receded
May 4, 2006	430 W Gilman	Garbage / cooking oil disposal	Talked with restaurant owner about proper storage of used cooking oil
May 4, 2006	3214 Syene Rd	Broken / leaking sanitary cleanout access cover	City Engineering cleaned release, BI eventually ordered new steel cap installed
May 17, 2006	49 Park Heights Ct	Used motor oil disposed onto ground	EPU cleaned spill due to rain, ordered owner to dispose of remaining containers properly
May 23, 2006	3506 Dryden	Complaint of auto repair business operating in residential area	No problem evident, referred to Building Inspection
May 26, 2006	4 Collins Ct	Gasoline fumes in sanitary sewer	WDNR, MFD, MMSD & Mad. Eng on scene. Pump leak at gas station, leak fixed, gas vapor levels monitored by MFD & Eng. WDNR follow-up & remediation
June 14, 2006	56 Corry St	Standing water, mosquito/WNV concern	Small depression in gravel drive, not a mosquito breeding concern
June 14, 2006	4702 Cottage Grove Rd	Restaurant disposing of waste in storm sewer	Employee's of restaurant dumped wastewater/food into stormsewer <i>Case referred to City Attorney – fined</i>
June 20, 2006	601 Bay View	Used oil containers piled up at apartment	Reminded property managers of their responsibility of maintaining dumpster area, problem with containers disposed of illegally by unknown people
June 28, 2006	120 Davies St	Standing water, mosquito / WNV concern	Mosquito larvae visible, area treated with larvacide, contacted Eng. about filling depressions

Date	Location	Complaint	Outcome
July 3, 2006	Green Ave & Knutson Dr	Vehicle leaking automotive fluid in street	Owner of vehicle contacted, will park vehicle in his driveway and will prevent leak from reaching pavement until vehicle is fixed
July 3, 2006	Monona Dr Oil disposal site	Large amount of used motor oil in sump at collection site.	Referred to Madison Eng., who is responsible for maintenance
July 18, 2006	2821 Index Rd	Pet boarding business with outside pen washing pet waste across parking lot	Business outside City of Madison, referred to Dane Co. Sanitarian Rick Herro
July 21, 2006	534 State St.	Carpet cleaner disposing of waste water into storm sewer.	Case referred to City Attorney, trial date Feb. 2007
July 26, 2006	1034 Walsh Rd	City employee detected strong gasoline odor in area	Auto dismantling operation at this address had removed tanks from vehicles earlier in the day, no problem evident
July 28, 2006	707 Mills St	Turbid water discharged into street/ stormsewer	Construction dewatering project, with controls in-place, meets Engineering Dept.'s requirements
August 9, 2006	1291 N Sherman Ave	Overflowing grease trap	Vactor called to pump grease trap, business had private cleaner clear line and maintain trap
August 12, 2006	3910 Terminal Dr	Release of 1,500 gallons of used motor oil to ground surface	Health Dept not notified until after incident, spill cleaned and remediated with oversight by WDNR
August 24, 2006	816 Melvin Ct	Improper storage of anti-freeze	Informed tenant & landlord of need from proper storage/disposal of automotive fluids
August 24, 2006	W Washington Ave & N Henry St	Oil sheen and petroleum odor in runoff from construction site	No spill discovered, heavy rains may have flushed old spill from ground surface
September 12, 2006	704 University Ave	Overflowing cooking grease storage barrel	Unsecured cover on drum resulted in overflow of the barrel due to rain. Informed business manager of proper storage procedures
September 20, 2006	2024 E Main St	Improper disposal of 55 gallon drums	Streets Dept. removed the empty drums and disposed
October 9, 2006	4302 E Washington Ave	3-55 gallon drums with "Hazardous Waste" labels in boulevard	6-55 gallon drums on private property from a LUST investigation, drums sealed and will be removed by owner
October 30, 2006	5122 Spring Ct	Homeowner raking leaves into lake	Sent letter to homeowner regarding proper disposal of yardwaste/leaves
November 6, 2006	Starkweather Creek	Bright green solids in creek	Blue green algae bloom stagnated in creek, natural event
November 21, 2006	49 Park Heights Ct	Vehicle leaking oil	Pavement stained, but no excessive, no further action taken
November 27, 2006	Tenney Locks	Abandoned chemicals	A 3-gallon can for flammable liquids was transported to the Clean Sweep site for disposal
November 30, 2006	2500 University Ave	Restaurant employees washing grease into gutter	A vehicle had ran into a 55 gallon grease collection barrel, causing it to spill. Employee was cleaning sidewalk to prevent pedestrian falls
December 15, 2006	Midvale Blvd & Tokay Blvd	Improper permitting/disposal of asbestos at construction site	Forewarded information to WDNR asbestos specialist
December 20, 2006	145 Craig Ave	Improper asbestos disposal	Forwarded visual inspection findings to J.Hausbeck

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December 26, 2006	510 Rolfsmeyer Dr	Lint from commercail linen cleaner a nuisance to neighboring business	Linen cleaner is working to better maintain their dryer lint traps
December 28, 2006	3111 Churchill Dr	Homeowner running auto repair business out of residence	Minimal staining to driveway, no auto repair activities witnessed, complainant will monitor/photograph vehicles at problem address
December 29, 2006	1129 S Park St	Spilled gasoline at service station washed to stormsewer	Delivery driver spilled gasoline and used hose to wash area, <i>referred to City Attorney, case pending</i>

MGO 7.47 Permitting: Non-stormwater discharges to the storm sewer are regulated by Madison General Ordinance 7.47 and overseen by the EPU. There are 174 permitted discharges ranging from construction site de-watering and swimming pools, to non-contact process and cooling waters. Permit fees are based on the volume discharged with \$35,170 in revenue generated last year. In 2006, 57 sites were sampled for permit compliance. Samples were analyzed for select metals, anions and nutrients by the MDPH Chemistry Lab, with pH, conductivity and temperature analyzed in the field.

Monthly Lake and Outfall Sampling: Grab samples are taken monthly from the Yahara Chain of lakes and the primary outfalls that flow into lakes Monona and Mendota. The primary outfalls have constant flows associated with permitted discharges under MGO 7.47. There are 15 total sites for the monthly lake and outfall (L&O) sampling, 8 for lakes and 7 outfalls. These samples are collected to assess the general status of Madison's area lakes and for the City's ongoing annual study of the impacts of winter road salt use on the watershed. In addition, there are 18 secondary outfalls that are inspected monthly and sampled when flow is present. The secondary outfalls comprise discharges permitted under MGO 7.47 that flow on an intermittent basis.

Special Sampling Projects:

Odana Pond / MG&E Infiltration – Assisted MG&E with sampling well pump installation and groundwater sampling at the Odana Hills Infiltration project.

Lowell Elementary School Air Sampling – In response to the concerns of parents of Lowell's pupils and neighborhood citizens regarding emissions from the Madison Kipp Foundry, an air sampler was installed by the Wisconsin Department of Natural Resources, on the roof of the school in the fall of 2005. The sampler collected 24-hour composite air samples of particulates that are 2.5 µm and smaller every 3 days. The EPU maintained the sampler, with sampled collection and delivery of the filters to the State Lab of Hygiene on a weekly basis. The study was completed in July 2006, with no significant difference observed in particulates at the Lowell School site compared with the rest of the state.

Letters were sent out to all known carpet cleaning business in the Madison area in early spring of 2006. The letters serve as a reminder on the proper disposal of wastewaters from their cleaning operations. Businesses are warned that if they are found improperly disposing of their wastewater, they will immediately be referred to the City Attorney for prosecution. One case was referred to the Attorney and is scheduled for trial in February 2007.

Madison General Ordinance 7.48, which regulates the sale of phosphorus containing fertilizers, went into effect in 2005. Spot checks were conducted to determine compliance with the ordinance and in response to complaints of violation of the Ordinance.