

Attachment B5.B
Ambient Air Monitoring Plan

MASTER CELL VI
WAYNE DISPOSAL, INC. SITE #2
MID 048 090 633

B5.B AMBIENT AIR MONITORING PROGRAM

[R 299.9611(2)(c) and (4)]

B5.B.1 SAMPLING AND ANALYSIS PLAN

[R 299.9611(2)(a)]

A sampling and analysis plan for ambient air monitoring for MDWTP and WDI is included in the QA/QC Plan. The sampling and analysis plan was prepared in accordance with the requirements specified in R 299.9611(2)(a). All sampling and analysis performed pursuant to this application will be consistent with the QA/QC Plan. All samples for the purpose of environmental monitoring will be collected, transported, stored, and disposed by trained and qualified individuals in accordance with the QA/QC Plan.

The MDWTP and WDI facility will conduct ambient air monitoring to demonstrate compliance with the provisions of Part 55 of Act 451 and will be utilized to characterize the air quality associated with both MDWTP (MID 000724831) and WDI (MID 048090633) Site #2.

B5.B.1(A) SAMPLERS AND LOCATION

Ambient air quality will be monitored at seven stations around the perimeter of the site, one of which is a collocated station (see attached drawing). These locations are noted on the map attached. All seven sites are equipped with a polyurethane foam (PUF) sampler, high volume Total Suspended Particulate (TSP) sampler, and a sorbent tube sampler, with the collocated station having two of each sampling apparatus. Sampling equipment is inspected before and after use.

B5.B.1(B) SCHEDULE

The sampling schedule for the high volume samplers is every 12th day for 24 hours (to coincide with the USEPA national sampling schedule. When required, resampling will occur on an alternate sampling day as designated by the national sampling schedule.

B5.B.1(C) SAMPLING AND ANALYSIS

PCB sampling will be conducted using a high volume PUF sampler and analyzed and reported as total PCBs. Sampling for the PCB compounds will be conducted in adherence to the USEPA's Toxic Organic Compendium Methods TO-4A or TO-10A. The PUF samplers will operate at an air sampling rate of approximately 200 to 280 lpm.

Metal concentrations will be determined from the samples collected in a high volume TSP sampler. The sampling for multi-metals will adhere to the requirements of 40 CFR Part 50, Appendix G for the determination of lead. All sections referenced by Part 50, Appendix G will likewise be followed. Then analysis will be performed using USEPA Reference Methods for lead and the other metals listed in the attached table to this monitoring plan. Quality control and assurance requirements specified in the method will be incorporated in the sampling protocol. Samples will be collected with a nominal flow rate of 50 cfm $\pm$ 10 cfm.

VOC's will be sampled utilizing a system of sorbent tubes capable of effectively collecting the listed compounds in the attached table. A constant flow sampling pump is operated at approximately 0.10 liters

per minute (lpm). Samples will be collected at a flow rate adequate to reach the required limits of detection. Sampling will be conducted in adherence to the USEPA's Toxic Organic Compendium Method, TO-17 for solid sorbent tubes.

B5.B.1(D) MONITORING PARAMETERS

The table below provides a list of parameters monitor and the minimum detection limit.

WDI & MDWTP - AMBIENT AIR - MONITORING PARAMETERS (METALS and PARTICULATES)	
<u>COMPOUND</u>	<u>DETECTION LIMIT (ug/m³)</u>
CADMIUM	0.005
CHROMIUM	0.009
LEAD	0.025
TSP	-
WDI & MDWTP – AMBIENT AIR - MONITORING PARAMETERS (ORGANIC COMPOUNDS)	
<u>COMPOUND</u>	<u>DETECTION LIMIT (ug/m³)</u>
BENZENE	0.04
CARBON TETRACHLORIDE	0.25
CHLOROFORM	0.05
ETHYLBENZENE	1
METHYLENE CHLORIDE	1
1,1-DICHLOROETHANE	1
1,1,1-TRICHLOROETHANE	1
TETRACHLOROETHENE	0.1
TRICHLOROETHENE	0.1
TOLUENE	1
XYLENE (TOTAL)	1
PCBs (TOTAL)	0.02

B5.B.1(E) QUALITY ASSURANCE

On each run day, samples from the collocated site shall be analyzed and reported to the MDEQ for the assessment of sampler precision. One sample day per month, one blank sorbent tube and metals filter shall accompany the samples to the collocated site, not have air pulled through it, then submitted to the laboratory as a “trip blanks”. All laboratory quality assurance, such as the analysis of blanks and standards, shall be made available to the MDEQ upon request for the determination of accuracy. If any parameter that is analyzed by the laboratory and determined to be non-detectable, the value of the method detection limit for that compound divided by 2 (MDL/2) shall be reported. Staff from the MDEQ may audit the ambient air monitoring program, files, and samplers at their discretion.

