HERST & ASSOCIATES, INC.®

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Personal Attention

Submitted via Electronic Mail

Ms. Jaclynne Drummond
North Carolina Department of Environment and Natural Resources
Division of Waste Management - Solid Waste Section
1646 Mail Service Center
Raleigh, North Carolina 27699-1646

May 7, 2013

Dear Ms. Drummond:

Notification of Appendix II Detections
Charlotte Motor Speedway, Landfill V, Permit 13-04

On behalf of the Charlotte Motor Speedway, Landfill V, Herst & Associates, Inc. is submitting notification of Appendix II constituents detected in site groundwater monitoring wells during the First Semi-Annual 2013 sampling event. This notification is in accordance with NCDENR Requirements for Municipal Solid Waste Landfill Facilities Section .1634(d), which states the following:

> *"After obtaining the results from the initial or subsequent sampling events required in Paragraph (b) of this Rule, the owner or operator shall: (1) Within 14 days, submit a report to the Division and place a notice in the operating record identifying the Appendix II constituents that have been detected;"*

Groundwater sampling was completed by Analytical Services, Inc. (ASI) in April 2013. Analytical testing was performed by ASI for the assessment monitoring wells (MW-17, MW-18A, MW-19, MW-19A, MW-20B, and MW-25). Results were received by Herst & Associates, Inc. on May 1, 2013. The attached Table 1 summarizes the Appendix II constituents that were detected above the solid waste section limit (SWSL) in assessment monitoring wells during the First Semi-Annual 2013 event. The inorganic and organic constituents on Table 1 are also on the Appendix I Detection Monitoring list. The attached Table 2 summarizes the Appendix II constituents that were reported at estimated values between the method detection limit (MDL) and the SWSL. The inorganic and organic constituents on Table 2 are also on the Appendix I Detection Monitoring list, with the exception of estimated values of dichlorodifluoromethane and total mercury, which are consistent with past events. Appendix II constituent total tin was also detected; however, was detected at a higher concentration in the field blank sample than in the groundwater monitoring well samples. Therefore, the total tin results in groundwater were qualified as non-detect. The parameters detected above the SWSLs appear to be consistent with past events.

Any analyte detected at a concentration greater than the MDL but less than the SWSL is believed to be present, but the uncertainty in the value is high (i.e. laboratory interferences). As a result, the actual concentration is estimated. The full groundwater report and statistical evaluation will be submitted per Sections .1632 and .1633.

Should you have any questions or concerns, please contact the undersigned at your convenience.

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St. Charles, Missouri 63304

Telephone (636) 939-9111
Fax (636) 939-9757

Sincerely,

HERST & ASSOCIATES, INC.

Ward E. Herst
Managing Partner

Steve Jett
Senior Hydrogeologist

Attachment: *Table 1 - Appendix II Detections Above the SWSL*
Table 2 – Appendix II Estimated Results Below the SWSL

cc: *Mike Gurley, Republic Services, Inc. (via electronic mail)*

Table 1 - Appendix II Detections Above the SWSL First Semi-Annual 2013 Sampling Event Charlotte Motor Speedway, Landfill V					
Well	**Constituent**	**Results**	**SWSL**	**MDL**	**Units**
MW-17	Benzene	1.4	1	0.1	ug/L
	Total Barium	148	100	0.25	ug/L
	Trichloroethene	1	1	0.2	ug/L
	Vinyl Chloride	1.2	1	0.2	ug/L
MW-18A	Benzene	1.3	1	0.1	ug/L
	Total Barium	532	100	0.25	ug/L
	Total Cobalt	13.8	10	0.12	ug/L
	Total Zinc	34	10	0.87	ug/L
MW-19	1,4-Dichlorobenzene	3.1	1	0.3	ug/L
	Benzene	1.2	1	0.1	ug/L
	Total Barium	380	100	0.25	ug/L
	Total Nickel	85.6	50	0.41	ug/L
MW-19A	1,4-Dichlorobenzene	2.7	1	0.3	ug/L
	Benzene	1.1	1	0.1	ug/L
	Total Barium	316	100	0.25	ug/L
	Total Zinc	605	10	0.87	ug/L
MW-20B	1,4-Dichlorobenzene	1.1	1	0.3	ug/L
	Total Barium	612	100	0.25	ug/L
	Total Cadmium	1.44	1	0.06	ug/L
	Total Zinc	33.7	10	0.87	ug/L
MW-25	1,4-Dichlorobenzene	14	1	0.3	ug/L
	cis-1,2-Dichloroethene	5.2	5	0.2	ug/L
	Total Cobalt	10.2	10	0.12	ug/L

SWSL: Solid Waste Section Limit.
MDL: Laboratory Method Detection Limit.

Table 2 - Appendix II Estimated Results Below the SWSL
First Semi-Annual 2013 Sampling Event
Charlotte Motor Speedway, Landfill V

Well	Constituent	Flag	Results	SWSL	MDL	Units
MW-17	1,1-Dichloroethane	J	0.8	5	0.2	ug/L
	cis-1,2-Dichloroethene	J	4.5	5	0.2	ug/L
	Dichlorodifluoromethane	J	1	5	0.6	ug/L
	Methylene Chloride	J	0.3	1	0.2	ug/L
	Tetrachloroethene	J	1	1	0.2	ug/L
	Total Cobalt	J	0.55	10	0.12	ug/L
	Total Copper	J	0.66	10	0.38	ug/L
	Total Nickel	J	1.68	50	0.41	ug/L
	Total Zinc	J	1.47	10	0.87	ug/L
	trans-1,2-Dichloroethene	J	0.4	5	0.3	ug/L
MW-18A	1,1-Dichloroethane	J	0.5	5	0.2	ug/L
	1,4-Dichlorobenzene	J	0.9	1	0.3	ug/L
	Chlorobenzene	J	0.9	3	0.3	ug/L
	cis-1,2-Dichloroethene	J	2.3	5	0.2	ug/L
	Methylene Chloride	J	0.3	1	0.2	ug/L
	Total Arsenic	J	2.77	10	0.78	ug/L
	Total Cadmium	J	0.37	1	0.06	ug/L
	Total Copper	J	1.55	10	0.38	ug/L
	Total Lead	J	0.08	10	0.05	ug/L
	Total Nickel	J	7.3	50	0.41	ug/L
	Vinyl Chloride	J	0.3	1	0.2	ug/L
MW-19	1,1-Dichloroethane	J	0.4	5	0.2	ug/L
	Chlorobenzene	J	1.5	3	0.3	ug/L
	cis-1,2-Dichloroethene	J	0.4	5	0.2	ug/L
	Total Cadmium	J	0.1	1	0.06	ug/L
	Total Cobalt	J	6.86	10	0.12	ug/L
	Total Copper	J	4.97	10	0.38	ug/L
	Total Selenium	J	8.74	10	0.77	ug/L
	Total Tin	B J	0.48	100	0.41	ug/L
	Total Zinc	J	1.47	10	0.87	ug/L
MW-19A	Chlorobenzene	J	1.3	3	0.3	ug/L
	Total Cobalt	J	6.45	10	0.12	ug/L
	Total Copper	J	3.23	10	0.38	ug/L
	Total Nickel	J	47.4	50	0.41	ug/L
	Total Selenium	J	6.88	10	0.77	ug/L
	Total Tin	B J	0.45	100	0.41	ug/L
MW-20B	1,1-Dichloroethane	J	4.1	5	0.2	ug/L
	Benzene	J	0.4	1	0.1	ug/L
	Chlorobenzene	B J	0.4	3	0.3	ug/L
	Chloroethane	J	0.7	10	0.7	ug/L
	cis-1,2-Dichloroethene	J	3.4	5	0.2	ug/L
	Total Cobalt	J	4.46	10	0.12	ug/L
	Total Copper	J	1.86	10	0.38	ug/L
	Total Lead	J	0.11	10	0.05	ug/L
	Total Nickel	J	34.8	50	0.41	ug/L
	Total Selenium	J	2.13	10	0.77	ug/L
	Total Thallium	J	0.2	5.5	0.06	ug/L
	Trichloroethene	J	0.2	1	0.2	ug/L
MW-25	1,1-Dichloroethane	J	1.2	5	0.2	ug/L
	Benzene	J	0.4	1	0.1	ug/L
	Chlorobenzene	J	1.4	3	0.3	ug/L
	Total Barium	J	98.7	100	0.25	ug/L
	Total Cadmium	J	0.12	1	0.06	ug/L
	Total Copper	J	1.55	10	0.38	ug/L
	Total Mercury	J	0.108	0.2	0.061	ug/L
	Total Nickel	J	22.8	50	0.41	ug/L
	Total Selenium	J	2.62	10	0.77	ug/L
	Total Zinc	J	2.77	10	0.87	ug/L
	Vinyl Chloride	J	1	1	0.2	ug/L

B: Denotes detected in a field blank or associated laboratory method blank.
J: Denotes sample result above the MDL but below the SWSL;
estimated value; value may not be accurate.
SWSL: Solid Waste Section Limit.
MDL: Laboratory Method Detection Limit.