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Personal Attention*

Submitted via Electronic Mail

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

February 28, 2011

Dear Ms. Drummond:

**Updated Water Quality Assessment Report
Charlotte Motor Speedway, Landfill V, Permit 13-04**

On behalf of the Charlotte Motor Speedway, Landfill V, Herst & Associates, Inc. is submitting an Updated Water Quality Assessment Report. The enclosed Water Quality Assessment Report summarizes the data collected during the Water Quality Assessment activities to date.

Should you have any questions or concerns, please contact Mr. Mike Gurley at (704) 262-6019 or either of the undersigned at (636) 939-9111.

Sincerely,

HERST & ASSOCIATES, INC.



Dana Sincex

for

Ward E. Herst,
LG #1893
Managing Partner
Herst Environmental Services LLC

Steve Jett
LG #1825
Senior Hydrogeologist

Attachment: Water Quality Assessment Report

cc: Mike Gurley, Republic Services, Inc.

Updated Water Quality Assessment Report

**Charlotte Motor Speedway, Landfill V
Concord, North Carolina
Permit No. 13-04**

February 2011



HERST & ASSOCIATES, INC.®

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1.0 INTRODUCTION

On behalf of the Charlotte Motor Speedway, Landfill V, on March 19, 2010 Herst & Associates, Inc. submitted a Water Quality Assessment Plan in response to a letter dated January 28, 2010 from Mr. Paul Crissman of the North Carolina Department of Environment and Natural Resources (NCDENR) addressed to Mr. Mike Gurley of the Charlotte Motor Speedway Landfill V. The requirements for, or the contents of a Water Quality Assessment Plan (WQAP) or Report (WQAR) are not referenced in NC Solid Waste Regulations or Guidance Documents, therefore the facility met with NCDENR on March 9, 2010 in order to discuss potential items to include in the requested WQAP. Site representatives discussed with NCDENR the planned items to be included in the WQAP. Subsequently, the site submitted a WQAP on March 19, 2010 of the proposed activities to address the constituents detected above the North Carolina 15A NCAC 2L Water Quality Standards at the site. In correspondence dated April 8, 2010, NCDENR approved the WQAP. Herst & Associates, Inc. submitted a Water Quality Assessment Report on August 2, 2010 that summarized the data collected during the May 2010 event (first phase). The following updated Water Quality Assessment Report summarizes the data collected during the Water Quality Assessment activities in November 2010 (second phase).

Pursuant to NCDENR's request, this Water Quality Assessment Report was compiled and submitted by Professional Geologists licensed by the State of North Carolina: Mr. Ward Herst and Mr. Steve Jett. Mr. Herst is a Licensed Geologist in 35 States, including North Carolina. Mr. Jett is a Licensed Geologist in 16 States, including North Carolina.

2.0 BACKGROUND

The landfill began Assessment Monitoring pursuant to 15A NCAC 13B .1634 following confirmation of Appendix I volatile organic compounds (VOCs) detected during the October 2004 groundwater sampling event. Appendix II groundwater monitoring has been conducted on an annual basis since April 2005.

Per Assessment Monitoring regulation 15A NCAC 13B .1634(f), "*If the concentrations of any Appendix II constituents are above background values, but all concentrations are below the approved ground-water protection standards, using the approved statistical procedures, the owner or operator shall continue assessment monitoring.*" Since initiation of Assessment Monitoring subsequent to the Second Semi-Annual 2004 event, and as stated in each semi-annual groundwater statistical analysis report submittal, the concentrations of Appendix II organic constituents have been above background values, however the concentrations have been statistically below the groundwater protection standards (GPSs) through the most recent event (November 2010). Therefore, the site has continued in Assessment Monitoring, with no further action, as required by 15A NCAC 13B .1634(f). Regulation 15A NCAC 13B .1634(g) does not apply to the facility since the facility has not statistically exceeded a GPS to date.

The facility submitted the Groundwater Statistical Analysis Report for the Second Semi-Annual 2010 Event to NCDENR on January 5, 2011. As discussed in the Report, statistical evaluation of the results continues to exhibit no confirmed statistical exceedances of GPSs. In general, the VOC detections are stable to trending downward, likely attributable to the expansion and improved efficiency of the landfill gas collection and control system over recent years. Recent site upgrades should further enhance the removal of landfill gas and continued improvement in groundwater quality.

Comparison of the Second Semi-Annual 2010 event (November 2010) data to the NC 2L Standards indicated that no VOC detections have statistically exceeded the NC 2L Standards.

In order to address NCDENR's January 28, 2010 letter, the site compiled the WQAP to address historic VOC detections above value-to-value comparisons to the NC 2L Standards. The WQAP was approved by NCDENR on April 8, 2010. Pursuant to the approved WQAP, the first phase of activities occurred in May 2010. The results of the first phase are presented in the Water Quality Assessment Report dated August 2, 2010. The second phase of the WQAP occurred in November 2010, concurrent with the Second Semi-Annual 2010 event, with the results presented in this updated Water Quality Assessment Report herein.

3.0 COMPLETED ACTIONS AND DATA REVIEW

As stated above, the results of the first phase were presented in the Water Quality Assessment Report dated August 2, 2010. Section 3.0 summarizes the completed actions as part of the second phase of implementation of the Water Quality Assessment Plan (WQAP). The following actions were proposed in the WQAP in order to further assess the groundwater quality conditions at the site:

3.1 Additional Downgradient Well Installation

Installation and monitoring of wells downgradient of the wells of concern would allow the delineation of the horizontal and vertical extent of VOCs. Per NCDENR's April 8, 2010 approval of the Water Quality Assessment Plan, the following wells were to be installed by the November 2010 event (concurrent with the Second Semi-Annual 2010 event): MW-18AR, MW-19R, and MW-19AR, located more downgradient from the waste. Figure 1 displays the locations of the additional wells.

According to the report titled "Record of Monitoring Well Installations" compiled by David Garrett & Associates (dated January 13, 2011), wells MW-18AR, MW-19R, and MW-19AR were installed in October 2010. In addition, shallow well MW-18R was installed during the same mobilization to determine if water present at shallow depths in this portion of the site. During the November 2010 groundwater sampling event, insufficient water was present for sampling at MW-18R. Attached as Appendix A is a copy of the January 13, 2011 well installation report by David Garrett & Associates.

MW-19 and MW-19A

Two zones are monitored at the site, a shallow zone typically screened within the saprolite (sands and silts) and partially weathered rock, and a deep zone screened within the diorite bedrock.

Wells MW-19 and MW-19A are located approximately 20 feet west of the landfill and approximately 10 feet east of the landfill access road. The landfill access road receives a high volume of daily traffic from trucks entering/leaving the landfill. Exhaust fumes from the vehicular traffic could be a potential source of the VOCs at MW-19/19A.

Review of well installation reports compiled by S&ME, Inc. reveals that MW-19 and MW-19A were installed in September 1998. The boring and well installation log for MW-19 indicates the following subsurface materials were encountered:

- Surface to 6 feet below ground surface (fbgs): micaceous fine sandy Silt (with manganese);
- 6 to 12.5 fbgs: micaceous clayey fine sandy Silt (with manganese);
- 12.5 to 13.5 fbgs: micaceous fine sandy clayey Silt;
- 13.5 to 18.5 fbgs: micaceous fine sandy clayey Silt (with manganese); and
- 18.5 to 53 fbgs: partially weathered rock (PWR), when sampled becomes silty medium to coarse Sand.

Well MW-19 has a screened interval from 25 to 40 fbg, which intersects the partially weathered rock (PWR) zone.

The boring and well installation log for MW-19A indicates the following subsurface materials were encountered:

- Surface to 6 fbg: micaceous fine sandy Silt (with manganese);
- 6 to 12.5 fbg: micaceous clayey fine sandy Silt (with manganese);
- 12.5 to 13.5 fbg: micaceous fine sandy clayey Silt;
- 13.5 to 18.5 fbg: micaceous fine sandy clayey Silt (with manganese);
- 18.5 to 63 fbg: PWR, when sampled becomes silty medium to coarse Sand; and
- 63 to 71 fbg: Bedrock.

Deeper zone well MW-19A has a screened interval from 61 to 71 fbg, which intersects the bottom 2 feet of the PWR and the top 8 feet of the bedrock zone.

The WQAP recommended installation of two wells downgradient of existing nest MW-19/MW-19A. One of the new wells (MW-19R) would be installed with a fully saturated screened interval near the base of the PWR zone, and one well (MW-19AR) would be installed with a fully saturated screened interval in the bedrock zone.

According to the well installation report compiled by David Garrett & Associates (dated January 13, 2011), wells MW-19R and MW-19AR were installed as proposed in the WQAP at the location agreed upon with NCDENR. The new well nest (MW-19R/MW-19AR) was located on the southwest berm of the sedimentation pond, approximately 220 feet to the southwest of MW-19/MW-19A and 130 feet southwest of the solid waste limits, which would still be within the 250 feet relevant point of compliance distance from the waste boundary (see attached Figure 1).

Review of the boring log for MW-19AR indicates the following subsurface materials were encountered:

- Surface to 12 fbg: Sandy Silt;
- 12 to 18 fbg: Sand and Silt;
- 18 to 36 fbg: Sandy Silt; and
- 36 to 52.7 fbg (total depth): Diorite bedrock.

The screened interval for MW-19AR was placed from 41.0 to 51.0 fbg, within the diorite.

The subsurface materials encountered for MW-19R were the same as MW-18AR above, with the exception that drilling ceased at 35 fbg, and the screened interval was placed from 20 to 35 fbg in the overlying sandy silt.

MW-18A

Well MW-18A is located approximately 90 feet southwest of the waste boundary and adjacent to the enclosed flare. Also, a landfill gas header pipe is installed below the ground surface between the landfill and the flare, immediately adjacent to MW-18A. Therefore, the presence of landfill gas would not be unexpected. Well MW-18A is also adjacent to the landfill access road, which receives a high volume of daily traffic from trucks entering/leaving the landfill. Exhaust fumes from the vehicular traffic could be another potential source of the VOCs at MW-18A.

Review of well installation reports compiled by S&ME, Inc. reveals that in September 1998 a shallow well (MW-18) was initially installed at a depth of 20 fbgs. Subsurface materials encountered at MW-18 included:

- Surface to 7 fbgs: clayey fine sandy Silt;
- 7 to 8.5 fbgs: fine sandy clayey Silt;
- 8.5 to 18.5 fbgs: fine sandy Silt with clay lenses; and
- 17 to 20 fbgs (auger refusal): silty fine Sand.

For MW-18, the screened interval was placed from 5 to 20 fbgs, to intersect the fine sandy Silt with clay lenses zone and the silty fine Sand zone. However subsequent water levels determined insufficient water volume was present in MW-18 to collect a sample, therefore well MW-18 was not included as part of the site's groundwater monitoring program. In November 1998, a deeper well (MW-18A) was installed to replace MW-18. The boring and well installation log for MW-18A indicates drilling to a total depth of approximately 26 fbgs. Subsurface materials encountered included:

- Surface to 7 fbgs: clayey fine sandy Silt;
- 7 to 8.5 fbgs: fine sandy clayey Silt;
- 8.5 to 17 fbgs: fine sandy Silt with clay lenses; and
- 17 to 26 fbgs: Bedrock.

The screened interval for MW-18A was placed from 11 to 26 fbgs, which would intersect both the fine sandy Silt with clay lenses zone and the Bedrock zone.

Due to the shallow bedrock in the vicinity of MW-18A, it was recommended in the WQAP to install only one well downgradient of MW-18A. The new well (MW-18AR) would be installed with a fully saturated screened interval intersecting the shallow bedrock zone. This should allow the horizontal and vertical extent of VOC presence to be defined.

According to the well installation report compiled by David Garrett & Associates (dated January 13, 2011), well MW-18AR was installed as proposed in the WQAP at the location agreed upon with NCDENR.. New well MW-18AR is located approximately 145 feet to the southeast of MW-18A and approximately 175 feet southwest of the solid waste limits; which would be within the 250 feet relevant point of compliance distance from the waste boundary (see attached Figure 1). An additional shallow well (MW-18R) was also installed, but similar to original well MW-18, insufficient water was present to allow collection of groundwater samples during the November 2010 event.

Review of the boring log for MW-18AR indicates the following subsurface materials were encountered:

- Surface to 6 fbgs: Clay and Silt;
- 6 to 13 fbgs: Sand and Silt;
- 13 to 18 fbgs: Sandy Silt;
- 18 to 23 fbgs: Silty Sand;
- 23 to 23.7 fbgs: Partially Weathered Rock; and
- 23.7 to 42.2 fbgs (total depth): Diorite bedrock.

The screened interval for MW-18AR was placed from 32.2 to 42.2 fbgs, within the Diorite.

The subsurface materials encountered for MW-18R were the same as MW-18AR above, with the exception that drilling ceased at 24 fbgs.

3.2 Analysis of Groundwater Samples from Additional Downgradient Wells

The three new wells (MW-18AR, MW-19R, and MW-19AR) were sampled for the Appendix I list of constituents during the Second Semi-Annual 2010 groundwater sampling event (November 2010). Appendix B provides a copy of the laboratory analytical report and field sampling forms for the November 2010 event.

Solid Waste Section Limit (SWSL) is the lowest amount of analyte in a sample that can be quantitatively determined with suitable precision and accuracy. The SWSL is the concentration below which reported analytical results must be qualified as estimated. During the Second Semi-Annual 2010 sampling event, four organic results (see Table 1) were detected at or above a SWSL: benzene and 1,4-dichlorobenzene at MW-19R and MW-19AR. The attached Table 1 provides a summary of the organics detected, including those reported at estimated values between the method detection limit (MDL) and SWSL. During the Second Semi-Annual 2010 event, no organic concentrations above an SWSL also exceeded an MCL. During the Second Semi-Annual 2010 event, the following organic concentrations were detected above an SWSL and exceeded a respective NCAC 2L Standard: benzene at MW-19R (4.1 ug/L) and MW-19AR (3.4 ug/L) exceeded the 2L Standard (1.0 ug/L).

No VOCs were detected above the SWSL in the MW-18AR sample. Therefore the extent of impact is limited to the MW-18A area and does not extend to MW-18AR.

VOCs (benzene and 1,4-dichlorobenzene) were detected above the SWSL and 2L Standards at shallow well MW-19R and deep well MW-19AR. Therefore, the horizontal and vertical extent of VOC impacts has not been defined in this portion of the site. Benzene and 1,4-dichlorobenzene have been reported sporadically in the MW-19 and MW-19A area in the past, but not since December 2009. It is recommended that confirmation sampling be conducted at MW-19R and MW-19AR in the near future to verify the initial benzene and 1,4-dichlorobenzene concentrations.

Comparison of the inorganic concentrations for the November 2010 event at new wells MW-18AR, MW-19R, and MW-19AR indicates that only total barium at MW-19R (1.16 mg/L) exceeded a 2L Standard (0.7 mg/L). The total barium concentration at MW-19R (1.16 mg/L) is below the MCL (2.0 mg/L). Table 1 provides a comparison of the November 2010 results to the MCLs and 2L Standards.

Due to the close proximity of MW-19R/MW-19AR to the Rocky River, additional horizontal wells can not be installed in this portion of the site. No additional wells are recommended at this time.

As stated in the August 2, 2010 Water Quality Assessment Report that was submitted after the first phase activities, landfill gas was likely the source of impact at some stage. The improving groundwater conditions at assessment wells MW-18A, MW-19, MW-19A, MW-20B, and MW-25 indicate that the source has likely been mitigated by the upgrades to the GCCS over the last few years.

4.0 EXPECTED TIMELINE

The following timeline was proposed in the approved Water Quality Assessment Plan, followed by the current status of each item:

May 2010 (Concurrent with the First Semi-Annual 2010 event)

- Monitor headspace in groundwater monitoring wells MW-18A, MW-19, MW-19A, MW-20B, and MW-25 for methane. **COMPLETED – See August 2, 2010 WAQR.**
- Analyze leachate and groundwater samples from MW-18A, MW-19, MW-19A, MW-20B, and MW-25 for leachate indicator parameters for a geochemical evaluation. **COMPLETED – See August 2, 2010 WQAR.**
- Conduct sewer line examination. **COMPLETED – See August 2, 2010 WQAR.**

July/August 2010

- Submit Status Summary Report upon receipt/review of May 2010 event data. **COMPLETED – See August 2, 2010 WQAR.**

November 2010 (Concurrent with the Second Semi-Annual 2010 event)

- Install new wells MW-18AR, MW-19R, and MW-19AR, located more downgradient from the waste. **COMPLETED – See enclosed Updated WQAR.**
- Sample new wells for the Appendix I list of constituents. **COMPLETED – See enclosed Updated WQAR.**

January/February 2011

- Submit Status Summary Report upon receipt/review of November 2010 event data. **ENCLOSED.**

5.0 SUMMARY

This Updated Water Quality Assessment Report provides a summary of the second phase of activities recently completed and proposed actions in order to address the source and extent of the VOC detections in groundwater monitoring wells at the site. The first phase of the field work occurred in conjunction with the First Semi-Annual 2010 event (May 2010) and consisted of (1) a sewer line examination, (2) headspace methane monitoring in groundwater monitoring wells of concern, and (3) a geochemical evaluation of groundwater and leachate. The second phase of the field work occurred in conjunction with the Second Semi-Annual 2010 event (November 2010) and consisted of (4) installation of additional downgradient wells, and (5) analysis of the Appendix I list of constituents from the additional wells. The results and summary of the first phase activities are submitted within the August 2, 2010 Report.

Results of the first phase indicated that (a) no apparent impacts were identified in the vicinity of the sewer line, (b) no significant concentrations of methane were present in the headspace of the groundwater monitoring wells of concern, and (c) the geochemical comparisons of MW-19A to leachate indicate possible mixing of groundwater and leachate. However the lack of heavy metals and the presence of downward trending VOCs in groundwater indicate that landfill gas likely was the source of impact at some stage. The improving groundwater conditions indicate that the source has likely been mitigated by the upgrades to the GCCS over the last few years.

Results of the second phase indicate that (d) lack of impact at well MW-18AR, which defines the extent of horizontal and vertical area of impact in the MW-18A area, and (e) impacts below the 2L Standards have not been horizontally or vertically defined in the MW-19R/MW-19AR portion of the site.

Confirmation sampling for wells MW-19R and MW-19AR will be conducted in conjunction with the upcoming semi-annual sampling event (April 2011) to verify the first time 2L Standard exceedances for total barium (MW-19R), benzene (MW-19R/MW-19AR), and 1,4-dichlorobenzene (MW-19R/MW-19AR). During the April 2011 event, the headspace of MW-19R and MW-19AR are proposed to be measured for methane, oxygen, and carbon dioxide. The

field measurements may provide an indication if methane (i.e. LFG related parameters) is present at significant levels in the Assessment wells.

If confirmation sampling results verify concentrations below the 2L Standards, then the area of 2L value-to-value exceedances will have been defined and no further action would be recommended. If confirmation sampling results verify concentrations above the 2L Standards, then additional activities will likely be proposed based on future discussions with NCDENR, such as enhancements to the GCCS or other interim corrective measure(s).

TABLES

**TABLE 1
SECOND SEMI-ANNUAL 2010 EVENT DATA SUMMARY
CHARLOTTE MOTOR SPEEDWAY, LANDFILL V**

Constituent (ug/L)	MCL	NC 2L Std	NC GWPS	Final GWPS	MW-18AR	MW-19R	MW-19AR
Antimony Total	6	NE	1	15**	0.22 J	0.55 J	1.31 J
Arsenic Total	10	10	NE	10	<10.0	3.31 J	2.7 J
Barium Total	2,000	700	NE	700	14.2 J	1160	294
Beryllium Total	4	NE	4	4	<1.00	<1.00	0.11 J
Cadmium Total	5	2	NE	5**	<1.00	0.61 J	0.93 J
Chromium Total	100	10	NE	98**	9.32 J	9.85 J	61.3
Cobalt Total	NE	NE	1	15**	0.39 J	29.2	24.9
Copper Total	1,300	1,000	NE	1,000	1.5 J	12.6	13.6
Lead Total	15	15	NE	15	0.16 J	0.54 J	1.4 J
Mercury Total	2	1	NE	1	<0.200	0.053 J	<0.200
Nickel Total	NE	100	NE	100	6.9 J	54.2	79.7
Selenium Total	50	20	NE	20	0.95 J	4.47 J	7.86 J
Silver Total	NE	20	NE	20	0.08 J	0.1 J	0.4 J
Thallium Total	2	NE	0.28	5**	<5.50	0.06 J	0.14 J
Tin Total	NE	NE	2,000	2,000	0.93 J	1.58 J	1.91 J
Vanadium Total	NE	NE	3.5	33**	4.91 J	11.5 J	24.7 J
Zinc Total	NE	1,000	NE	1,000	5.1 J	23.4	54.2

Constituent (ug/L)	MCL	NC 2L Std	NC GWPS	Final GWPS	MW-18AR	MW-19R	MW-19AR
1,1-Dichloroethane	NE	6	NE	6	0.3 J	0.7 J	0.8 J
1,4-Dichlorobenzene	75	6	NE	6	<1.0	3.8	2.3
Acetone	NE	6,000	NE	6,000	<100	11 J	4 J
Benzene	5	1	NE	1	<1.0	4.1	3.4
Carbon Disulfide	NE	700	NE	700	<100	<100	<100
Chlorobenzene	100	50	NE	50	<3.0	2.6 J	1.8 J
Chloroethane	NE	3,000	NE	3,000	<10	0.7 J	0.5 J
Chloroform	80	70	NE	70	2.8 J B	<5.0	1 J B
cis-1,2-Dichloroethene	70	70	NE	70	<5.0	0.6 J	0.7 J
Dichlorodifluoromethane	NE	1,000	NE	1,000	<5.0	0.2 J	0.3 J
Methyl Ethyl Ketone (2-Butanone)	NE	4,000	NE	4,000	<100	69 J	64 J
Methylene Chloride	5	5	NE	5	<1.0	0.5 J	0.7 J
Tetrachloroethene	5	0.7	NE	0.7	<1.0	0.3 J	<1.0
Vinyl Chloride	2	0.03	NE	1**	<1.0	0.5 J	<1.0

B: Denotes parameter (chloroform) also detected in the associated field blank, trip blank, and seven laboratory method blanks at similar concentrations.

J: Denotes Sample result above the MDL but below the Solid Waste Section Limit (SWSL); estimated value; value may not be accurate.

Final GWPS is the lowest of the MCL, NC 2L Standard, and NC GWPS values. NC 2L and NC GWPS values taken from NCDENR website dated 11/30/10.

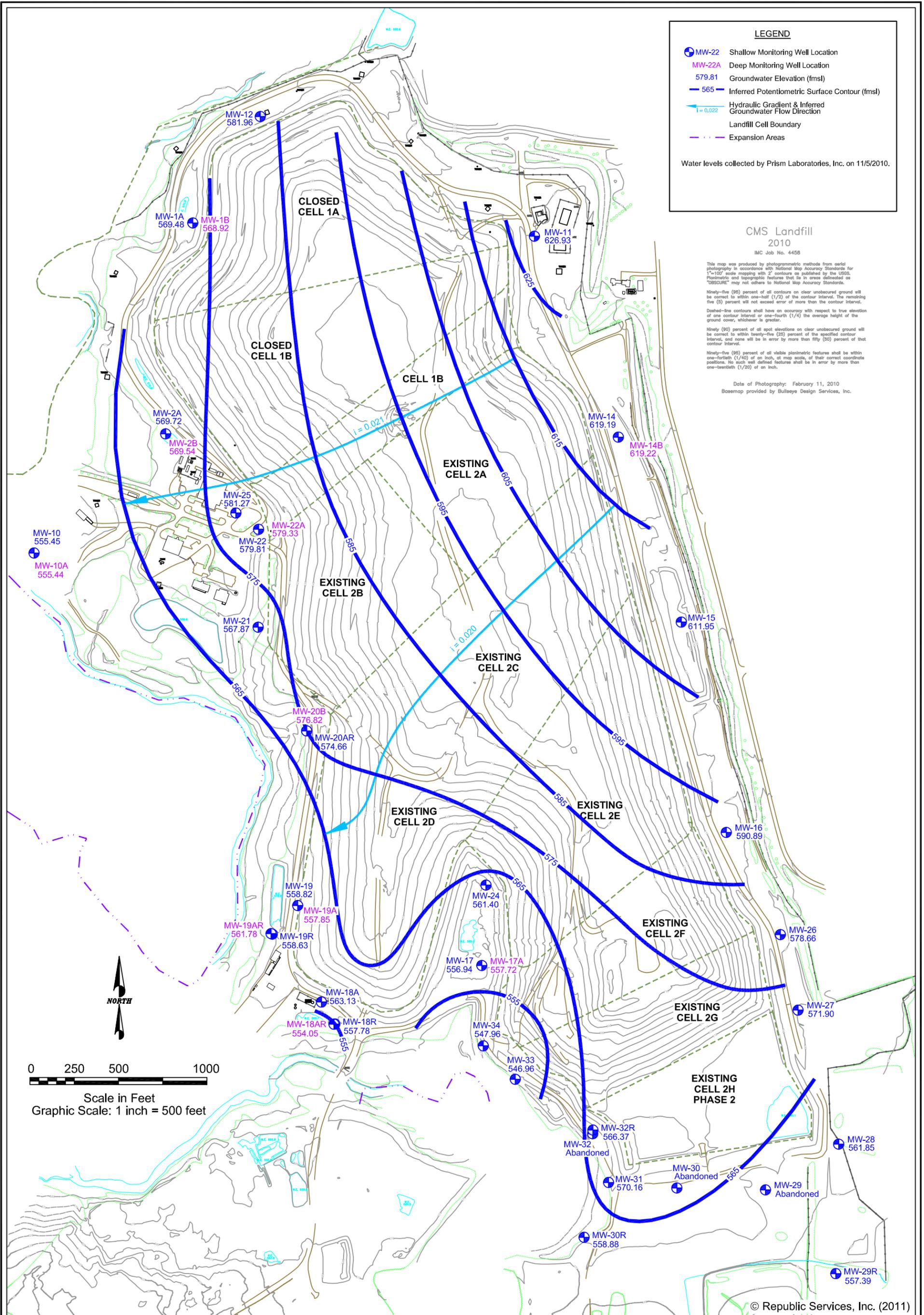
*: Denotes SWSL used if no MCL, NC 2L Standard, or NC GWPS has been established.

** : Denotes background limit used if higher than NC 2L Standard and NC GWPS.

NS: Denotes this Appendix II parameter was not required to be sampled at this well.

Denotes the concentration is above the GWPS:

FIGURES



**Groundwater Elevation Summary Table
Charlotte Motor Speedway, Landfill V**

Well	Top of PVC Casing Elevation (fmsl) ¹	Depth to Water (ft) ²	Groundwater Elevation (fmsl)
Shallow Wells			
MW-1A	579.45	9.97	569.48
MW-2A	579.92	10.20	569.72
MW-10	578.10	22.65	555.45
MW-11	638.82	11.89	626.93
MW-12	596.69	14.73	581.96
MW-14	629.56	10.37	619.19
MW-15	620.60	8.65	611.95
MW-16	606.53	15.64	590.89
MW-17	569.88	12.94	556.94
MW-18A	581.81	18.68	563.13
MW-18R	580.02	22.24	557.78
MW-19	588.58	29.76	558.82
MW-19R	582.53	23.90	558.63
MW-20AR	585.28	10.62	574.66
MW-21	581.99	14.12	567.87
MW-22	586.21	6.40	579.81
MW-24	576.00	14.60	561.40
MW-25	589.07	7.80	581.27
MW-26	594.86	16.20	578.66
MW-27	581.32	9.42	571.90
MW-28	574.45	12.60	561.85
MW-29R	565.61	8.22	557.39
MW-30R	587.84	28.96	558.88
MW-31	592.26	22.10	570.16
MW-32R	587.80	21.43	566.37
MW-33	575.70	28.74	546.96
MW-34	577.71	29.75	547.96
Deep Wells			
MW-1B	580.74	11.82	568.92
MW-2B	579.92	10.38	569.54
MW-10A	578.67	23.23	555.44
MW-14B	629.82	10.60	619.22
MW-17A	570.12	12.40	557.72
MW-18AR	579.93	25.88	554.05
MW-19A	588.07	30.22	557.85
MW-19AR	582.83	21.05	561.78
MW-20B	583.57	6.75	576.82
MW-22A	586.13	6.80	579.33

Note 1: Top of PVC Casing Elevations from the December 1, 2000

Correspondence from S&ME, Inc. to the site regarding the October 2000

Groundwater Flow Data.

Top of PVC Casing Elevations for wells MW-16, MW-26 through MW-34 from

survey information provided by Earnhardt Grading in correspondence dated June 19, 2008.

Top of PVC Casing Elevations for wells MW-18R, MW-18AR, MW-19R, MW-19AR, MW-29R,

MW-30R, and MW-32R from survey information provided by David Garrett & Associates in

correspondence dated December 6, 2010.

Note 2: Depth to water collected by Prism Laboratories, Inc. on 11/5/10.

APPENDICES

Appendix A Copy of Well Installation Report by Garrett & Associates

David Garrett & Associates

Engineering and Geology



January 13, 2011

RECORD OF TRANSMITTAL

TO: Mr. Brian Wootton, Hydrogeologist
NC DENR Division of Waste Management
Solid Waste Section
Mail Service Center 1646
Raleigh, NC 27699-1646

CC: Mike Gurley – Republic Services, Environmental Manager
Steve Jett, PG – Herst & Associates

RE: CMS Landfill-V – MSWLF Phases 2 and 3
Record of Monitoring Well Installations
Cabarrus County, North Carolina, Permit # 13-04

Dear Mr. Wootton:

I am pleased to present the following well installation records for the referenced site.

Wells MW-18AR, MW-18R, MW-19AR, and MW-19R were installed in proximity of existing wells (not removed), in accordance with the March 2010 Assessment Monitoring Plan prepared by Hearst & Associates, relative to ongoing assessment activities at Phase 2.

Wells MW-29R, MW-30R, and MW-32R were installed in accordance with May 2009 Water Quality Monitoring Plan (Rev. 4.1) for newly constructed Cell 2I within Phase 3.

Additional work for completed in late 2010 for Phase 3, including new gas monitoring well installations and piezometer abandonment, will be reported in future separate correspondence.

Please contact me at your earliest convenience if you have questions or comments, or if I may be of further service.

A handwritten signature in black ink, appearing to read "David Garrett".

Client and Project CMS Landfill-V Phase 2 Assessment Monitoring

Ground Elevation 577.61

Equipment Dietrich D-50 ATV

Drilling Method HSA, Core

Water Level, TOB NA

Date Started 10/21/10

Date Ended 10/21/10

Water Level, 24 Hr. 23.1

Drilling Firm Red Dog Drilling, Inc. Logged by

Nicholas Garrett

Stabilized Level na

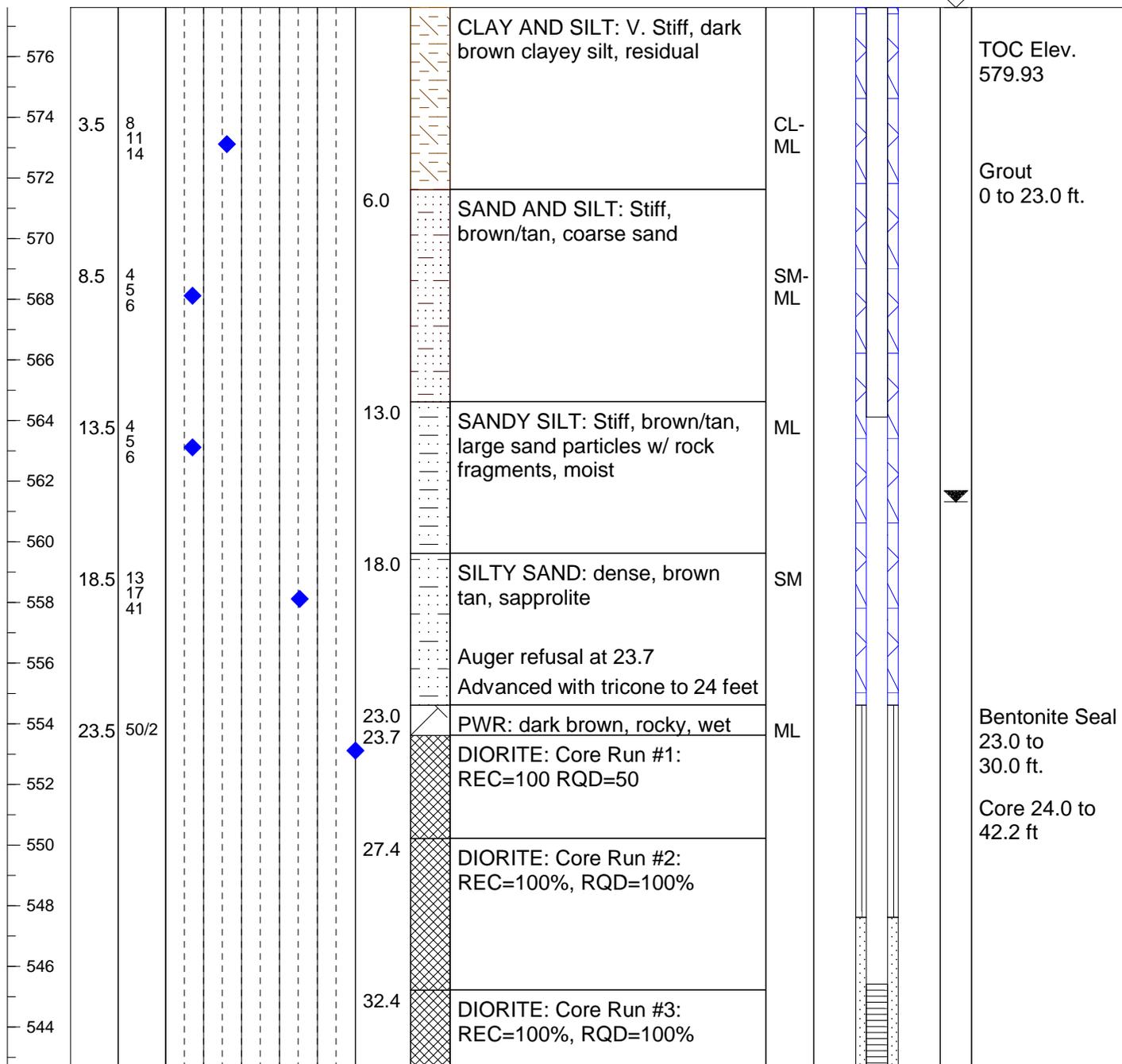
Comments N584,566.7 E1,503,436.6

Total Depth 42.2

Observation Date NA

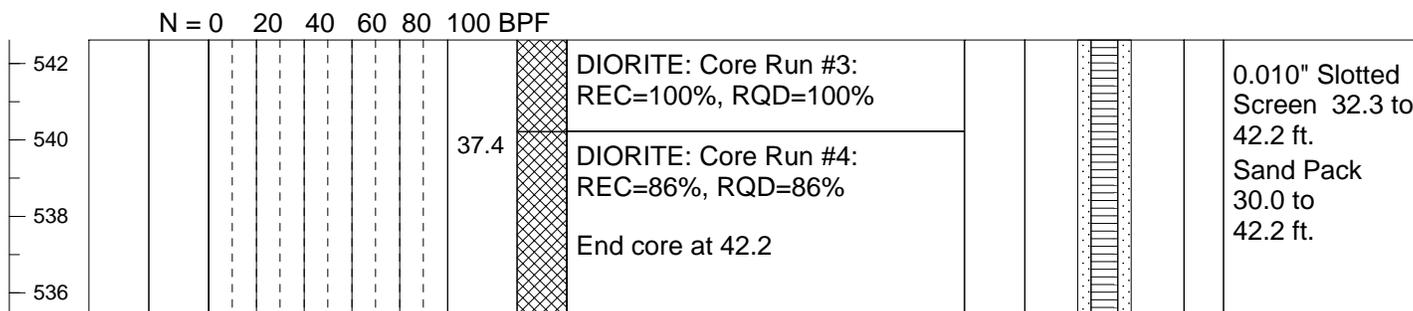
Elev.	SPT Depth, Value and Plot	Strata Depth and Description (USCS)	Piezometer Constuction Data
-------	---------------------------	-------------------------------------	-----------------------------

N = 0 20 40 60 80 100 BPF



Client and Project	<i>CMS Landfill-V Phase 2 Assessment Monitoring</i>	Ground Elevation	577.61
Equipment	<i>Dietrich D-50 ATV</i>	Drilling Method	<i>HSA, Core</i>
Date Started	<i>10/21/10</i>	Date Ended	<i>10/21/10</i>
Drilling Firm	<i>Red Dog Drilling, Inc.</i>	Logged by	<i>Nicholas Garrett</i>
Comments	<i>N584,566.7 E1,503,436.6</i>	Total Depth	<i>42.2</i>
		Water Level, TOB	<i>NA</i> \sphericalangle
		Water Level, 24 Hr.	<i>23.1</i>
		Stabilized Level	<i>na</i> \blacktriangledown
		Observation Date	<i>NA</i>

Elev.	SPT Depth, Value and Plot	Strata Depth and Description (USCS)	Piezometer Constuction Data
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10/21/10
MW-18AR Box 10

Run #1	24.0 - 27.4	Rec. 100%
Run #2	27.4 - 32.4	Rec 90%
Run 3	32.4 - 35.3' (part)	Rec. 100%

24.0
27.4

End Run 2

32.4
Get .5 in Note Run 2

35.3

10/21/10
MW-18AR BOX 2

RUN #3 Part. 35.3-37.4' Rec. 100%

RUN #4 37.4-42.2 Rec. 100%

← 37.4

End Run
37.4'

End Run
4

Client and Project CMS Landfill-V Phase 2 Assessment Monitoring

Ground Elevation 577.60

Equipment Dietrich D-50 ATV

Drilling Method HSA

Water Level, TOB 7.2' ∇

Date Started 10/22/10

Date Ended 10/22/10

Water Level, 24 Hr. NA

Drilling Firm Red Dog Drilling, Inc. Logged by Nicholas Garrett

Stabilized Level 5.85 \blacktriangledown

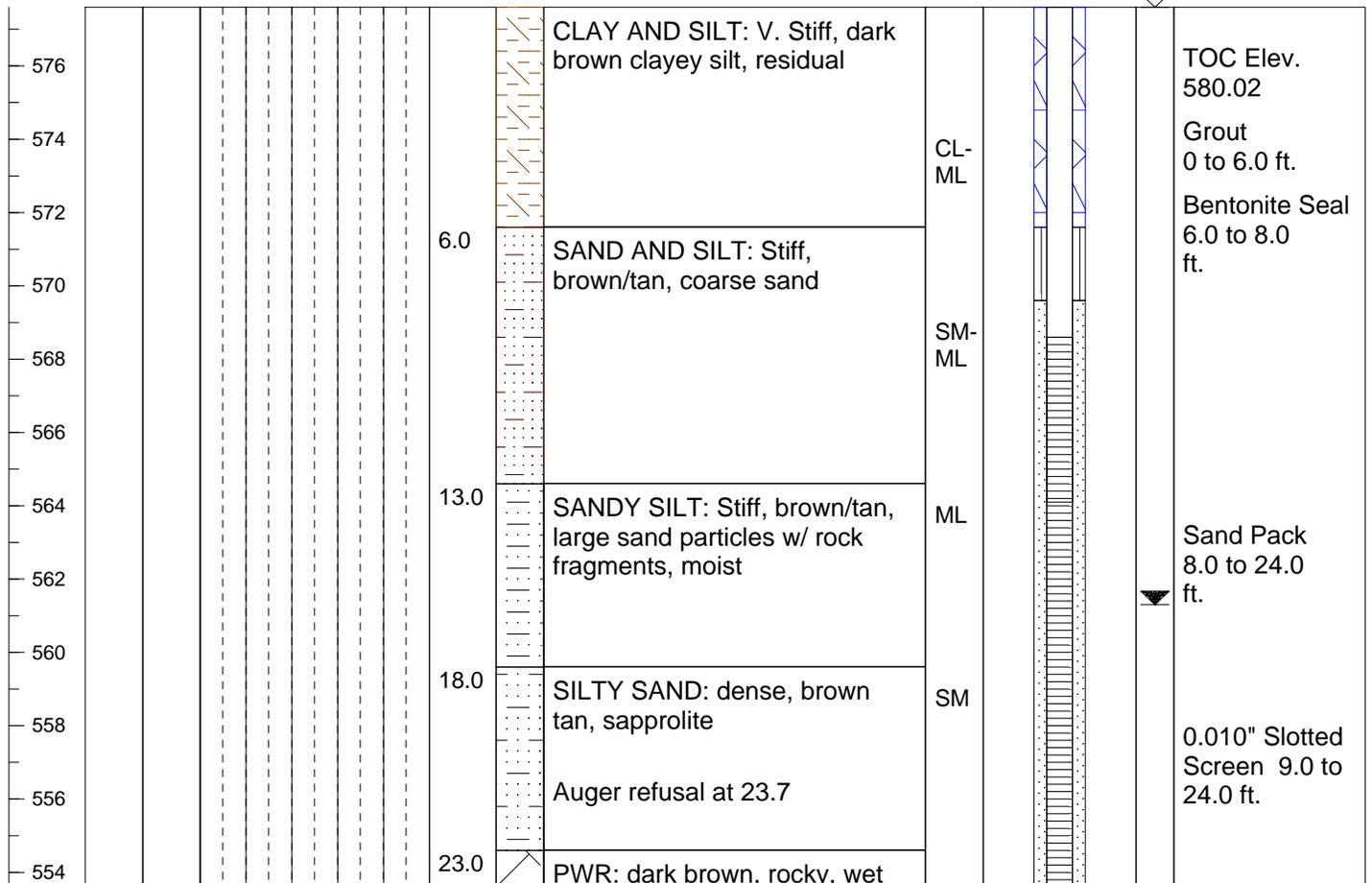
Comments N 584,568.2 E 1,503,441.5

Total Depth 22.7

Observation Date NA

Elev.	SPT Depth, Value and Plot	Strata Depth and Description (USCS)	Piezometer Constuction Data
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N = 0 20 40 60 80 100 BPF



Client and Project CMS Landfill-V Phase 2 Assessment Monitoring

Ground Elevation 580.09

Equipment Dietrich D-50 ATV

Drilling Method HSA, Core

Water Level, TOB NA

Date Started 10/22/10

Date Ended 10/22/10

Water Level, 24 Hr. 24.2

Drilling Firm Red Dog Drilling, Inc. Logged by

Nicholas Garrett

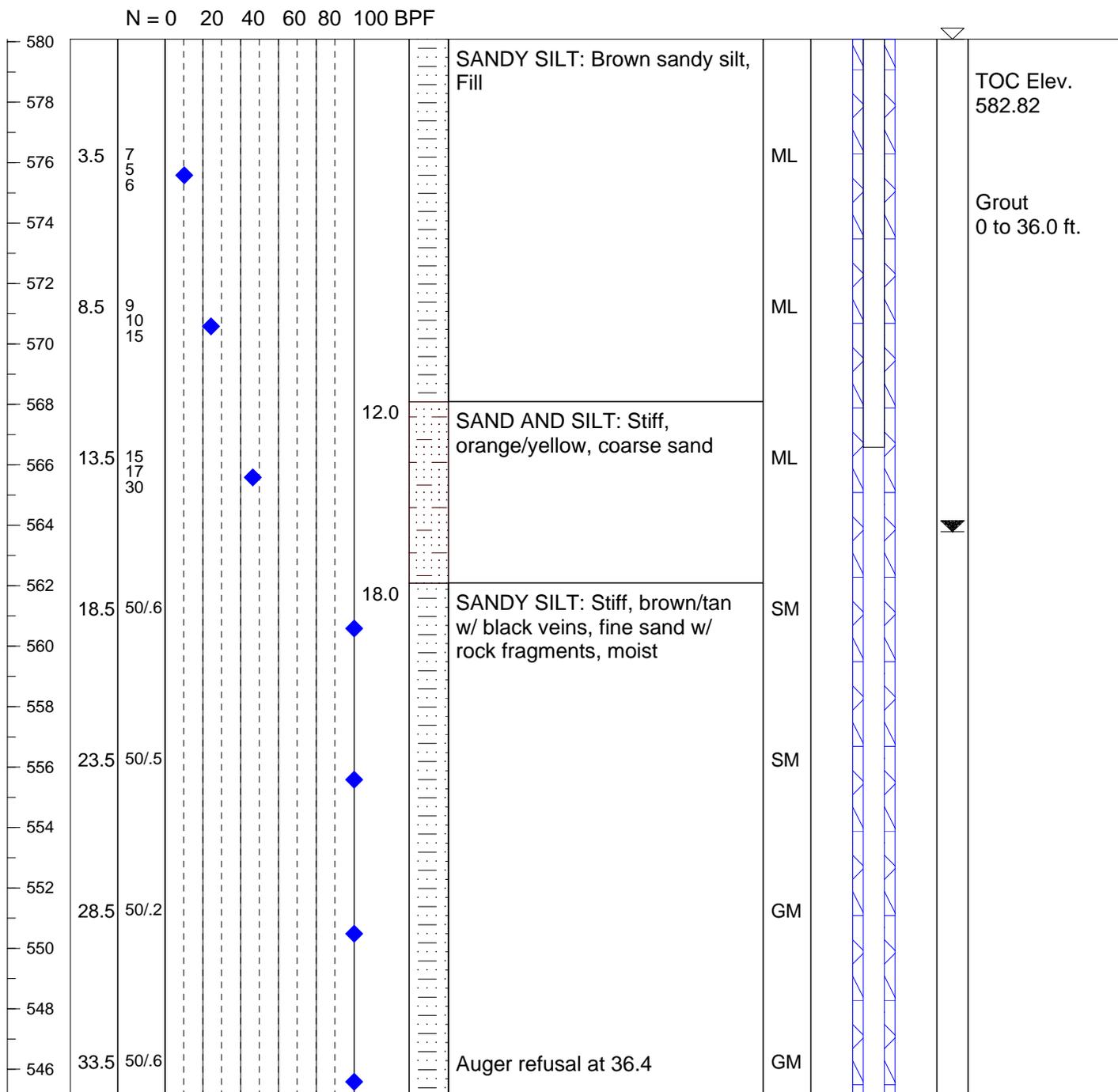
Stabilized Level na

Comments N 585,080.3 E 1,503,080.9

Total Depth 52.7

Observation Date NA

Elev.	SPT Depth, Value and Plot	Strata Depth and Description (USCS)	Piezometer Constuction Data
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Client and Project CMS Landfill-V Phase 2 Assessment Monitoring

Ground Elevation 580.09

Equipment Dietrich D-50 ATV

Drilling Method HSA, Core

Water Level, TOB NA

Date Started 10/22/10

Date Ended 10/22/10

Water Level, 24 Hr. 24.2

Drilling Firm Red Dog Drilling, Inc. Logged by

Nicholas Garrett

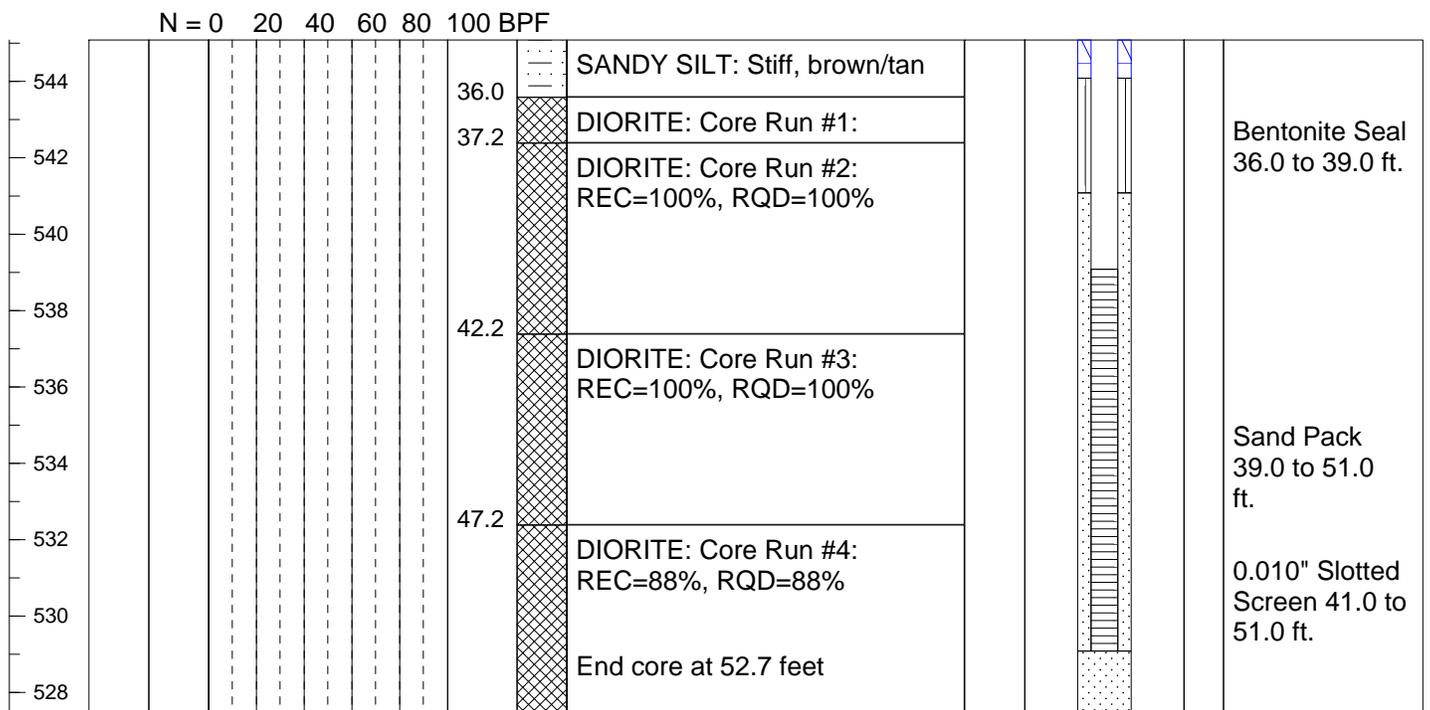
Stabilized Level na

Comments N 585,080.3 E 1,503,080.9

Total Depth 52.7

Observation Date NA

Elev.	SPT Depth, Value and Plot	Strata Depth and Description (USCS)	Piezometer Constuction Data
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10/22-10/10
MW-19R
Row 1 36.5-37.7' Rec. 70%
2 37.7-42.7' Rec. 100%
3 42.7-47.7' Rec. 100%

37.7

36.5'

37.7

37.7

42.7

42.7

47.7

47.7

10/25/10
MLJ-19AR
Run #4 47.7-52.7 Rec. 88%
(Cott in hole)

47.7



Client and Project CMS Landfill-V Phase 2 Assessment Monitoring

Ground Elevation 580.17

Equipment Dietrich D-50 ATV

Drilling Method HSA

Water Level, TOB 23.5

Date Started 10-27-10

Date Ended 10-27-10

Water Level, 24 Hr. NA

Drilling Firm Red Dog Drilling, Inc.

Logged by Nicholas Garrett

Stabilized Level NA

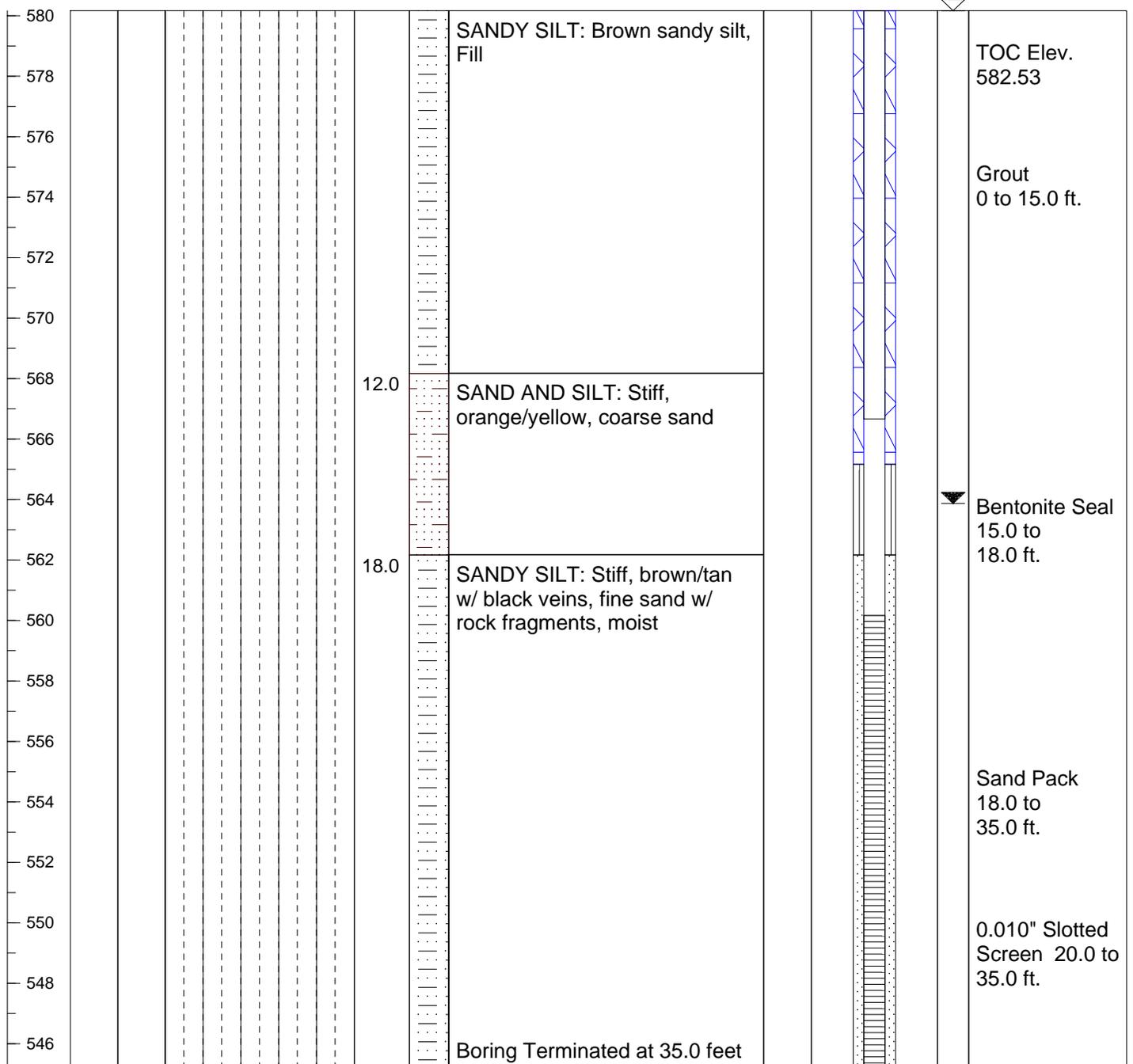
Comments N 585,077.1 E 1,503,087.8

Total Depth 35.0

Observation Date NA

Elev.	SPT Depth, Value and Plot	Strata Depth and Description (USCS)	Piezometer Construction Data
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N = 0 20 40 60 80 100 BPF



Client and Project CMS Landfill-V Phase 3 Monitoring

Ground Elevation 563.27

Equipment Dietrich D-50 ATV

Drilling Method HSA

Water Level, TOB 7.2

Date Started 10/18/10

Date Ended 10/18/10

Water Level, 24 Hr. 5.85

Drilling Firm Red Dog Drilling, Inc.

Logged by Nicholas Garrett

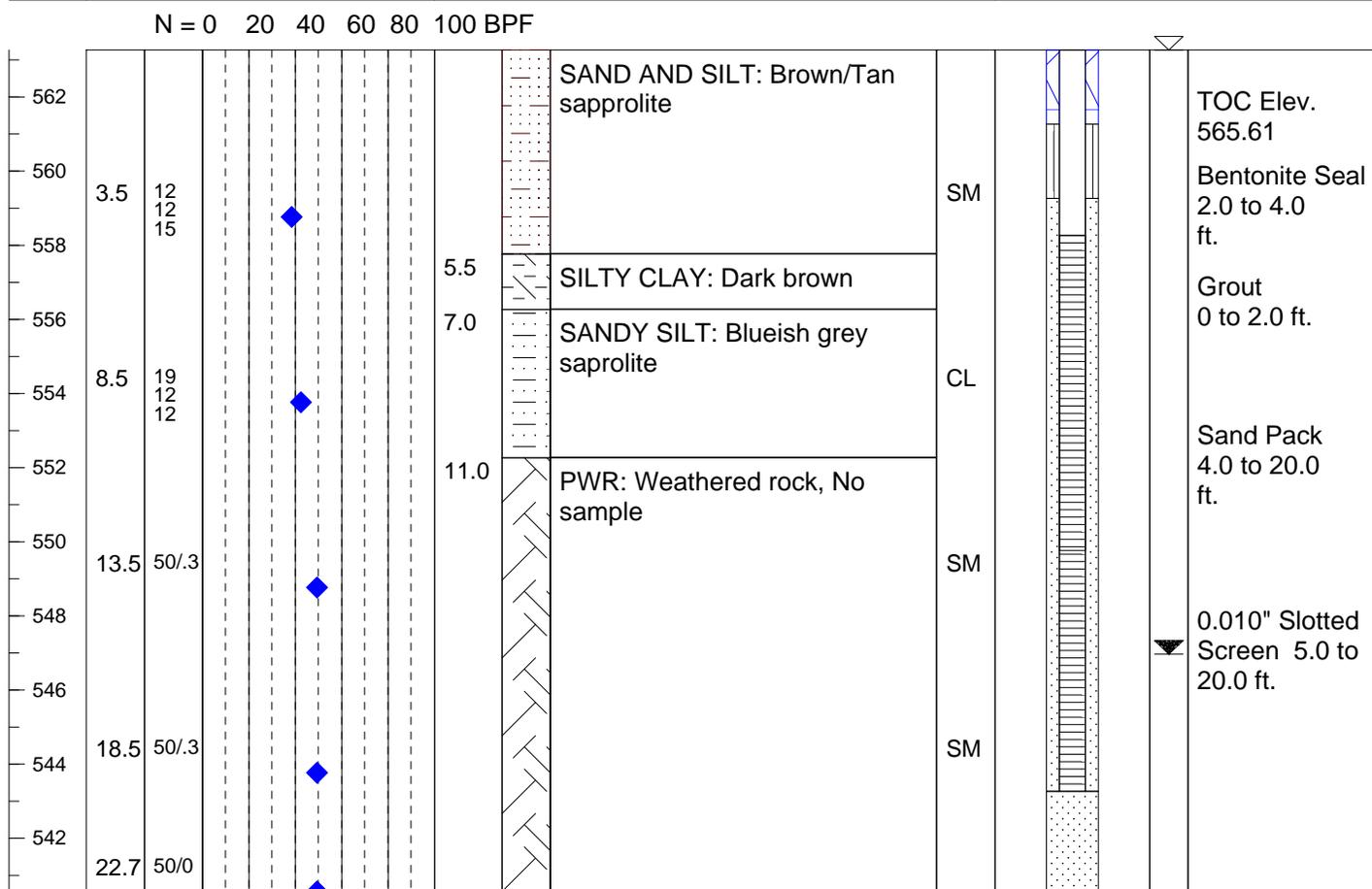
Stabilized Level NA

Comments N 583,153.3 E 1,506,273.4

Total Depth 22.7

Observation Date NA

Elev.	SPT Depth, Value and Plot	Strata Depth and Description (USCS)	Piezometer Constuction Data
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Client and Project CMS Landfill-V Phase 3 Monitoring

Ground Elevation 585.77

Equipment Dietrich D-50 ATV

Drilling Method HSA

Water Level, TOB 27.2' ∇

Date Started 10/19/10

Date Ended 10/19/10

Water Level, 24 Hr. 27.2

Drilling Firm Red Dog Drilling, Inc. Logged by

Nicholas Garrett

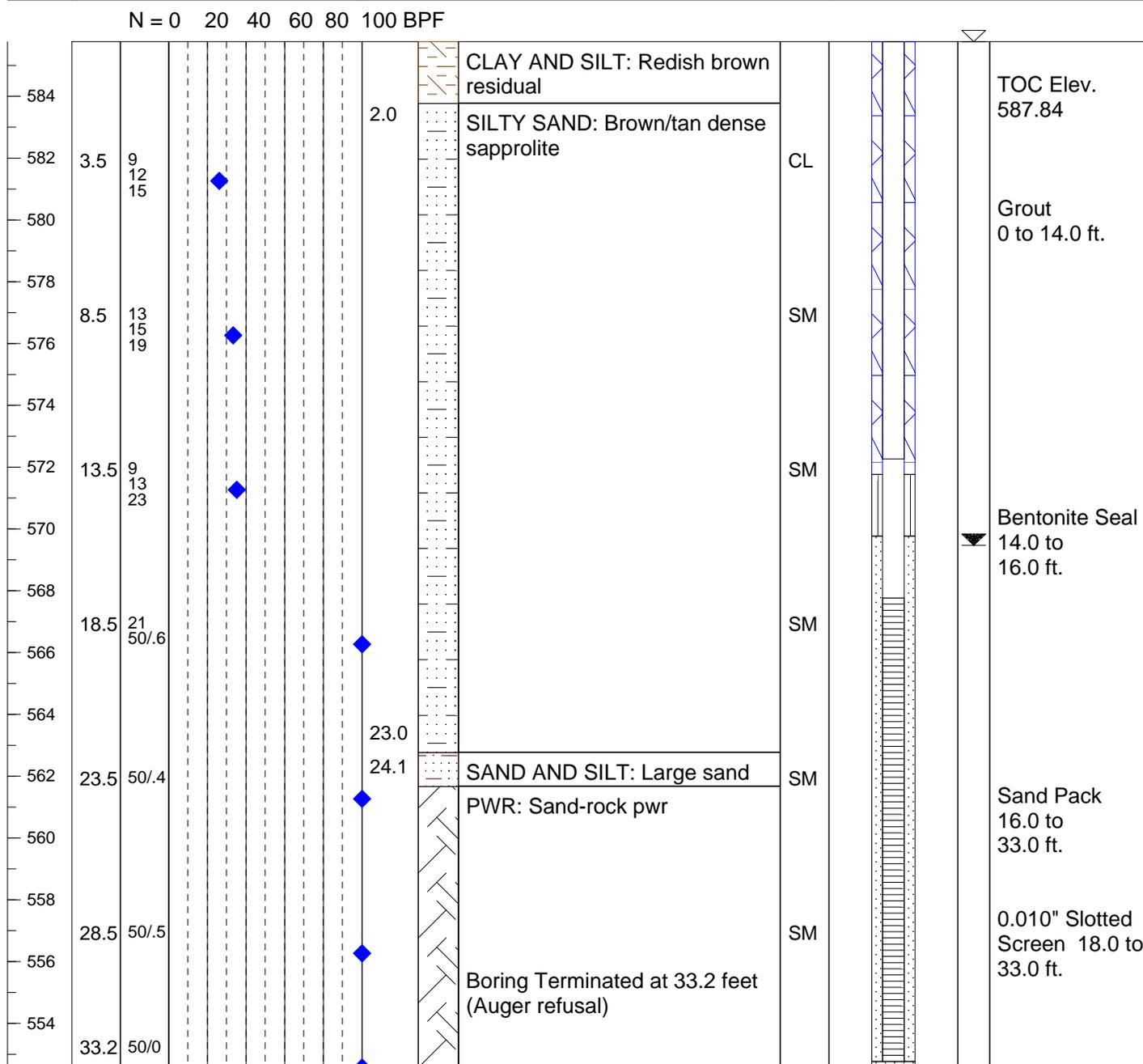
Stabilized Level NA ∇

Comments N 583,359.1 E 1,504,850.7

Total Depth 33.2

Observation Date NA

Elev.	SPT Depth, Value and Plot	Strata Depth and Description (USCS)	Piezometer Construction Data
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Client and Project CMS Landfill-V Phase 3 Monitoring

Ground Elevation 585.36

Equipment Dietrich D-50 ATV

Drilling Method HSA

Water Level, TOB 16.3

Date Started 10/20/10

Date Ended 10/20/10

Water Level, 24 Hr. NA

Drilling Firm Red Dog Drilling, Inc.

Logged by Nicholas Garrett

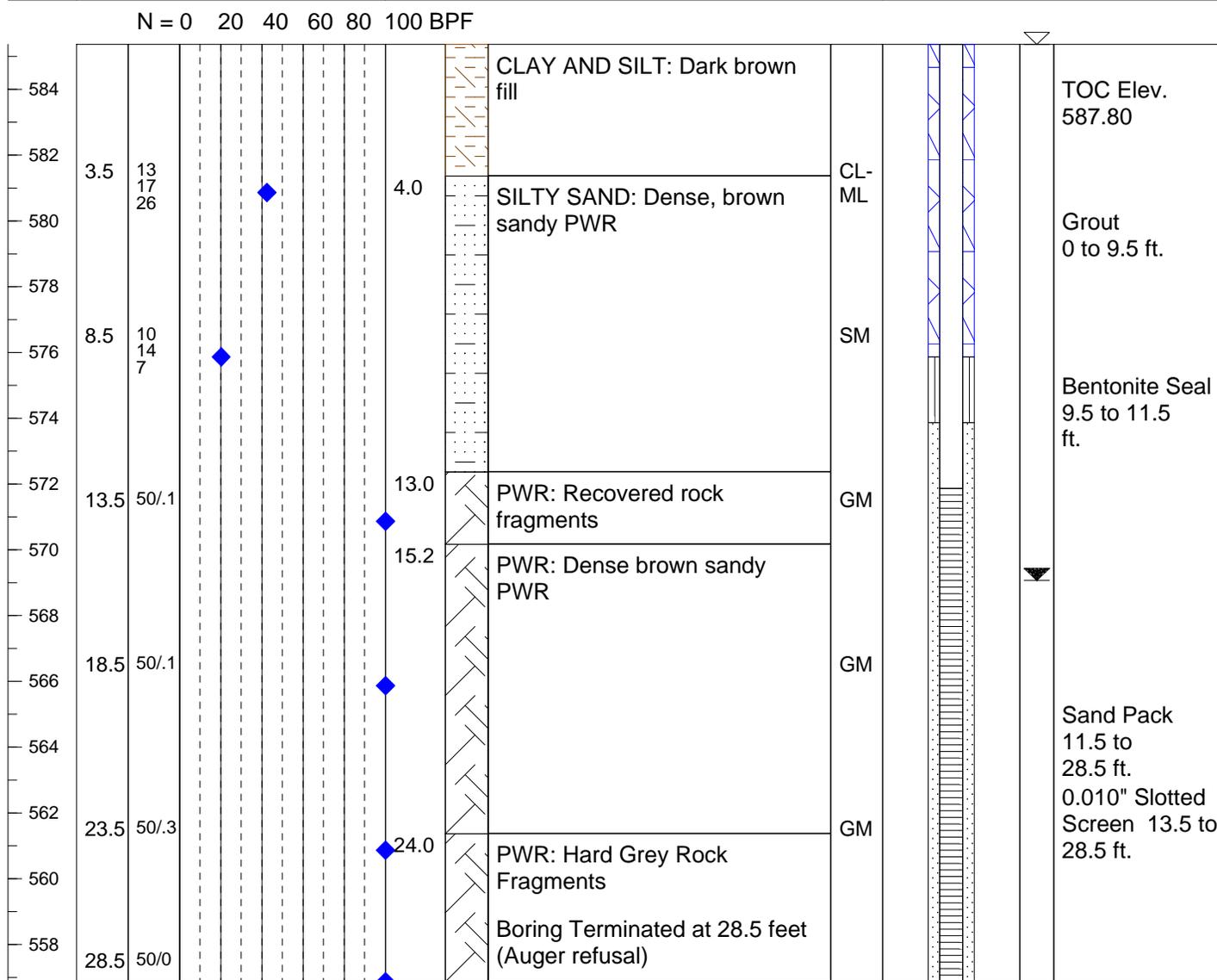
Stabilized Level NA

Comments N 583,967.0 E 1,504,900.4

Total Depth 28.5

Observation Date NA

Elev.	SPT Depth, Value and Plot	Strata Depth and Description (USCS)	Piezometer Construction Data
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Appendix B
Copy of Laboratory Analytical Report & Field Sampling Forms



ANALYTICAL SERVICES, INC.

Environmental Monitoring & Laboratory Analysis
110 Technology Parkway, Norcross, GA 30092
(770) 734-4200 FAX (770) 734-4201

Laboratory Report

Report Number: ATK0447

Project: Charlotte Motor Speedway

Project #:CMS 5

Prepared For:
Allied Waste Ind. Inc. - Charlotte
5105-A Morehead Rd.
Concord, NC 28027

Attention: Mr. Mike Gurley

December 22, 2010

We appreciate the opportunity to provide the analytical support for your project. The analytical results in this report are based upon information supplied by you, the client, and are for your exclusive use. If you have any questions regarding this data package, please do not hesitate to call. Analytical Services, Inc. certifies that the following analytical results meet all requirements of the National Environmental Laboratory Accreditation Conference(NELAC).All test results relate only to the samples analyzed.

Approved:


Project Manager



ANALYTICAL SERVICES, INC.

Environmental Monitoring & Laboratory Analysis
110 Technology Parkway, Norcross, GA 30092

(770) 734-4200 FAX (770) 734-4201

Allied Waste Ind. Inc. - Charlotte
5105-A Morehead Rd.
Concord NC, 28027

Attention: Mr. Mike Gurley

December 22, 2010

ANALYTICAL REPORT FOR SAMPLES

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
1304-MW19AR	ATK0447-36	Ground Water	11/17/10 12:35	11/20/10 08:45
1304-MW19R	ATK0447-37	Ground Water	11/17/10 13:25	11/20/10 08:45
1304-MW18AR	ATK0447-38	Ground Water	11/17/10 14:40	11/20/10 08:45



ANALYTICAL SERVICES, INC.

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(770) 734-4200 FAX (770) 734-4201

Allied Waste Ind. Inc. - Charlotte
5105-A Morehead Rd.
Concord NC, 28027

Attention: Mr. Mike Gurley

December 22, 2010

Client ID: 1304-MW19AR
Lab No: ATK0447-36
Matrix: Ground Water

Project: Charlotte Motor Speedway
Date/Time Sampled: 11/17/10 12:35
Date/Time Received: 11/20/10 08:45

Report No.: ATK0447

Analyte	Analytical Method	Prep Method	Result	SWSL/ RL	DF	Units	Qual	MDL	CAS #	Prep Date/Time	Analysis Date/Time	Batch
Metals, Total												
Mercury	EPA 7470A	EPA 7470A	ND	0.200	1	ug/L		0.027	7439-97-6	11/23/10 08:50	11/24/10 14:54	0110599
Antimony	EPA 6020A	EPA 3005A	1.31	6.00	1	ug/L	J	0.12	7440-36-0	11/23/10 08:05	11/23/10 18:55	0110687
Arsenic	EPA 6020A	EPA 3005A	2.70	10.0	1	ug/L	J	0.48	7440-38-2	11/23/10 08:05	11/23/10 18:55	0110687
Barium	EPA 6020A	EPA 3005A	294	100	1	ug/L		0.70	7440-39-3	11/23/10 08:05	11/23/10 18:55	0110687
Beryllium	EPA 6020A	EPA 3005A	0.11	1.00	1	ug/L	J	0.09	7440-41-7	11/23/10 08:05	11/23/10 18:55	0110687
Cadmium	EPA 6020A	EPA 3005A	0.93	1.00	1	ug/L	J	0.02	7440-43-9	11/23/10 08:05	11/23/10 18:55	0110687
Chromium	EPA 6020A	EPA 3005A	61.3	10.0	1	ug/L		0.37	7440-47-3	11/23/10 08:05	11/23/10 18:55	0110687
Cobalt	EPA 6020A	EPA 3005A	24.9	10.0	1	ug/L		0.02	7440-48-4	11/23/10 08:05	11/23/10 18:55	0110687
Copper	EPA 6020A	EPA 3005A	13.6	10.0	1	ug/L		0.03	7440-50-8	11/23/10 08:05	11/23/10 18:55	0110687
Lead	EPA 6020A	EPA 3005A	1.40	10.0	1	ug/L	J	0.12	7439-92-1	11/23/10 08:05	11/23/10 18:55	0110687
Nickel	EPA 6020A	EPA 3005A	79.7	50.0	1	ug/L		0.04	7440-02-0	11/23/10 08:05	11/23/10 18:55	0110687
Selenium	EPA 6020A	EPA 3005A	7.86	10.0	1	ug/L	J	0.54	7782-49-2	11/23/10 08:05	11/29/10 11:29	0110687
Silver	EPA 6020A	EPA 3005A	0.40	10.0	1	ug/L	J	0.01	7440-22-4	11/23/10 08:05	11/23/10 18:55	0110687
Thallium	EPA 6020A	EPA 3005A	0.14	5.50	1	ug/L	J	0.03	7440-28-0	11/23/10 08:05	11/23/10 18:55	0110687
Tin	EPA 6020A	EPA 3005A	1.91	100	1	ug/L	J	0.02	7440-31-5	11/23/10 08:05	11/23/10 18:55	0110687
Vanadium	EPA 6020A	EPA 3005A	24.7	25.0	1	ug/L	J	1.82	7440-62-2	11/23/10 08:05	11/23/10 18:55	0110687
Zinc	EPA 6020A	EPA 3005A	54.2	10.0	1	ug/L		1.93	7440-66-6	11/23/10 08:05	11/23/10 18:55	0110687
Volatile Organic Compounds by EPA 8260												
Acetone	EPA 8260B	EPA 5030B	4.0	100	1	ug/L	J	3.4	67-64-1	11/22/10 12:00	11/22/10 13:00	0110654
Acrylonitrile	EPA 8260B	EPA 5030B	ND	200	1	ug/L		0.8	107-13-1	11/22/10 12:00	11/22/10 13:00	0110654



ANALYTICAL SERVICES, INC.

Environmental Monitoring & Laboratory Analysis
110 Technology Parkway, Norcross, GA 30092

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Allied Waste Ind. Inc. - Charlotte
5105-A Morehead Rd.
Concord NC, 28027

Attention: Mr. Mike Gurley

December 22, 2010

Client ID: 1304-MW19AR
Lab No: ATK0447-36
Matrix: Ground Water

Project: Charlotte Motor Speedway
Date/Time Sampled: 11/17/10 12:35
Date/Time Received: 11/20/10 08:45

Report No.: ATK0447

Analyte	Analytical Method	Prep Method	Result	SWSL/ RL	DF	Units	Qual	MDL	CAS #	Prep Date/Time	Analysis Date/Time	Batch
Volatile Organic Compounds by EPA 8260												
Benzene	EPA 8260B	EPA 5030B	3.4	1.0	1	ug/L		0.2	71-43-2	11/22/10 12:00	11/22/10 13:00	0110654
Bromochloromethane	EPA 8260B	EPA 5030B	ND	3.0	1	ug/L		0.2	74-97-5	11/22/10 12:00	11/22/10 13:00	0110654
Bromodichloromethane	EPA 8260B	EPA 5030B	ND	1.0	1	ug/L		0.3	75-27-4	11/22/10 12:00	11/22/10 13:00	0110654
Bromoform	EPA 8260B	EPA 5030B	ND	3.0	1	ug/L		0.3	75-25-2	11/22/10 12:00	11/22/10 13:00	0110654
Bromomethane	EPA 8260B	EPA 5030B	ND	10	1	ug/L		2.9	74-83-9	11/22/10 12:00	11/22/10 13:00	0110654
Carbon Disulfide	EPA 8260B	EPA 5030B	ND	100	1	ug/L		0.3	75-15-0	11/22/10 12:00	11/22/10 13:00	0110654
Carbon Tetrachloride	EPA 8260B	EPA 5030B	ND	1.0	1	ug/L		0.2	56-23-5	11/22/10 12:00	11/22/10 13:00	0110654
Chlorobenzene	EPA 8260B	EPA 5030B	1.8	3.0	1	ug/L	J	0.3	108-90-7	11/22/10 12:00	11/22/10 13:00	0110654
Chloroethane	EPA 8260B	EPA 5030B	0.5	10	1	ug/L	J	0.5	75-00-3	11/22/10 12:00	11/22/10 13:00	0110654
Chloroform	EPA 8260B	EPA 5030B	1.0	5.0	1	ug/L	B-01, J	0.2	67-66-3	11/22/10 12:00	11/22/10 13:00	0110654
Chloromethane	EPA 8260B	EPA 5030B	ND	1.0	1	ug/L		0.2	74-87-3	11/22/10 12:00	11/22/10 13:00	0110654
Dibromochloromethane	EPA 8260B	EPA 5030B	ND	1.0	1	ug/L		0.3	124-48-1	11/22/10 12:00	11/22/10 13:00	0110654
1,2-Dibromo-3-chloropropane	EPA 8260B	EPA 5030B	ND	13	1	ug/L		0.8	96-12-8	11/22/10 12:00	11/22/10 13:00	0110654
1,2-Dibromoethane	EPA 8260B	EPA 5030B	ND	1.0	1	ug/L		0.2	106-93-4	11/22/10 12:00	11/22/10 13:00	0110654
Dibromomethane	EPA 8260B	EPA 5030B	ND	10	1	ug/L		0.3	74-95-3	11/22/10 12:00	11/22/10 13:00	0110654
1,2-Dichlorobenzene	EPA 8260B	EPA 5030B	ND	5.0	1	ug/L		0.4	95-50-1	11/22/10 12:00	11/22/10 13:00	0110654
1,4-Dichlorobenzene	EPA 8260B	EPA 5030B	2.3	1.0	1	ug/L		0.3	106-46-7	11/22/10 12:00	11/22/10 13:00	0110654
trans-1,4-Dichloro-2-butene	EPA 8260B	EPA 5030B	ND	100	1	ug/L		1.8	110-57-6	11/22/10 12:00	11/22/10 13:00	0110654
1,1-Dichloroethane	EPA 8260B	EPA 5030B	0.8	5.0	1	ug/L	J	0.2	75-34-3	11/22/10 12:00	11/22/10 13:00	0110654
1,2-Dichloroethane	EPA 8260B	EPA 5030B	ND	1.0	1	ug/L		0.2	107-06-2	11/22/10 12:00	11/22/10 13:00	0110654
1,1-Dichloroethene	EPA 8260B	EPA 5030B	ND	5.0	1	ug/L		0.2	75-35-4	11/22/10 12:00	11/22/10 13:00	0110654
cis-1,2-Dichloroethene	EPA 8260B	EPA 5030B	0.7	5.0	1	ug/L	J	0.3	156-59-2	11/22/10 12:00	11/22/10 13:00	0110654



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Attention: Mr. Mike Gurley

December 22, 2010

Client ID: 1304-MW19AR
Lab No: ATK0447-36
Matrix: Ground Water

Project: Charlotte Motor Speedway
Date/Time Sampled: 11/17/10 12:35
Date/Time Received: 11/20/10 08:45

Report No.: ATK0447

Analyte	Analytical Method	Prep Method	Result	SWSL/ RL	DF	Units	Qual	MDL	CAS #	Prep Date/Time	Analysis Date/Time	Batch
Volatile Organic Compounds by EPA 8260												
trans-1,2-Dichloroethene	EPA 8260B	EPA 5030B	ND	5.0	1	ug/L		0.2	156-60-5	11/22/10 12:00	11/22/10 13:00	0110654
1,2-Dichloropropane	EPA 8260B	EPA 5030B	ND	1.0	1	ug/L		0.3	78-87-5	11/22/10 12:00	11/22/10 13:00	0110654
cis-1,3-Dichloropropene	EPA 8260B	EPA 5030B	ND	1.0	1	ug/L		0.2	10061-01-5	11/22/10 12:00	11/22/10 13:00	0110654
trans-1,3-Dichloropropene	EPA 8260B	EPA 5030B	ND	1.0	1	ug/L		0.2	10061-02-6	11/22/10 12:00	11/22/10 13:00	0110654
Ethylbenzene	EPA 8260B	EPA 5030B	ND	1.0	1	ug/L		0.3	100-41-4	11/22/10 12:00	11/22/10 13:00	0110654
Iodomethane	EPA 8260B	EPA 5030B	ND	10	1	ug/L		0.6	74-88-4	11/22/10 12:00	11/22/10 13:00	0110654
Methyl Butyl Ketone (2-Hexanone)	EPA 8260B	EPA 5030B	ND	50	1	ug/L		0.6	591-78-6	11/22/10 12:00	11/22/10 13:00	0110654
Methylene Chloride	EPA 8260B	EPA 5030B	0.7	1.0	1	ug/L	J	0.4	75-09-2	11/22/10 12:00	11/22/10 13:00	0110654
Methyl Ethyl Ketone (2-Butanone)	EPA 8260B	EPA 5030B	64	100	1	ug/L	J	1.1	78-93-3	11/22/10 12:00	11/22/10 13:00	0110654
4-Methyl-2-pentanone (MIBK)	EPA 8260B	EPA 5030B	ND	50	1	ug/L		0.8	108-10-1	11/22/10 12:00	11/22/10 13:00	0110654
Styrene	EPA 8260B	EPA 5030B	ND	1.0	1	ug/L		0.3	100-42-5	11/22/10 12:00	11/22/10 13:00	0110654
1,1,1,2-Tetrachloroethane	EPA 8260B	EPA 5030B	ND	5.0	1	ug/L		0.3	630-20-6	11/22/10 12:00	11/22/10 13:00	0110654
1,1,2,2-Tetrachloroethane	EPA 8260B	EPA 5030B	ND	1.0	1	ug/L		0.4	79-34-5	11/22/10 12:00	11/22/10 13:00	0110654
Tetrachloroethene	EPA 8260B	EPA 5030B	ND	1.0	1	ug/L		0.2	127-18-4	11/22/10 12:00	11/22/10 13:00	0110654
Toluene	EPA 8260B	EPA 5030B	ND	1.0	1	ug/L		0.2	108-88-3	11/22/10 12:00	11/22/10 13:00	0110654
1,1,1-Trichloroethane	EPA 8260B	EPA 5030B	ND	1.0	1	ug/L		0.1	71-55-6	11/22/10 12:00	11/22/10 13:00	0110654
1,1,2-Trichloroethane	EPA 8260B	EPA 5030B	ND	1.0	1	ug/L		0.5	79-00-5	11/22/10 12:00	11/22/10 13:00	0110654
Trichloroethene	EPA 8260B	EPA 5030B	ND	1.0	1	ug/L		0.3	79-01-6	11/22/10 12:00	11/22/10 13:00	0110654
Trichlorofluoromethane	EPA 8260B	EPA 5030B	ND	1.0	1	ug/L		0.2	75-69-4	11/22/10 12:00	11/22/10 13:00	0110654
1,2,3-Trichloropropane	EPA 8260B	EPA 5030B	ND	1.0	1	ug/L		0.4	96-18-4	11/22/10 12:00	11/22/10 13:00	0110654
Vinyl Acetate	EPA 8260B	EPA 5030B	ND	50	1	ug/L		0.2	108-05-4	11/22/10 12:00	11/22/10 13:00	0110654



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Attention: Mr. Mike Gurley

December 22, 2010

Client ID: 1304-MW19AR
Lab No: ATK0447-36
Matrix: Ground Water

Project: Charlotte Motor Speedway
Date/Time Sampled: 11/17/10 12:35
Date/Time Received: 11/20/10 08:45

Report No.: ATK0447

Analyte	Analytical Method	Prep Method	Result	SWSL/ RL	DF	Units	Qual	MDL	CAS #	Prep Date/Time	Analysis Date/Time	Batch
Volatile Organic Compounds by EPA 8260												
Vinyl Chloride	EPA 8260B	EPA 5030B	ND	1.0	1	ug/L		0.2	75-01-4	11/22/10 12:00	11/22/10 13:00	0110654
Xylenes, total	EPA 8260B	EPA 5030B	ND	4.0	1	ug/L		0.6	1330-20-7	11/22/10 12:00	11/22/10 13:00	0110654
Surr: Dibromofluoromethane	EPA 8260B	EPA 5030B	85 %						1868-53-7	11/22/10 12:00	11/22/10 13:00	0110654
Surr: 1,2-Dichloroethane-d4	EPA 8260B	EPA 5030B	79 %						17060-07-0	11/22/10 12:00	11/22/10 13:00	0110654
Surr: Toluene-d8	EPA 8260B	EPA 5030B	93 %						2037-26-5	11/22/10 12:00	11/22/10 13:00	0110654
Surr: 4-Bromofluorobenzene	EPA 8260B	EPA 5030B	97 %						460-00-4	11/22/10 12:00	11/22/10 13:00	0110654
Dichlorodifluoromethane	EPA 8260B	EPA 5030B	0.3	5.0	1	ug/L	J	0.2	75-71-8	11/22/10 12:00	11/22/10 13:00	0110654



ANALYTICAL SERVICES, INC.

Environmental Monitoring & Laboratory Analysis
110 Technology Parkway, Norcross, GA 30092

(770) 734-4200 FAX (770) 734-4201

Allied Waste Ind. Inc. - Charlotte
5105-A Morehead Rd.
Concord NC, 28027

Attention: Mr. Mike Gurley

December 22, 2010

Client ID: 1304-MW19R
Lab No: ATK0447-37
Matrix: Ground Water

Project: Charlotte Motor Speedway
Date/Time Sampled: 11/17/10 13:25
Date/Time Received: 11/20/10 08:45

Report No.: ATK0447

Analyte	Analytical Method	Prep Method	Result	SWSL/ RL	DF	Units	Qual	MDL	CAS #	Prep Date/Time	Analysis Date/Time	Batch
Metals, Total												
Mercury	EPA 7470A	EPA 7470A	0.053	0.200	1	ug/L	J	0.027	7439-97-6	11/23/10 08:50	11/24/10 14:56	0110599
Antimony	EPA 6020A	EPA 3005A	0.55	6.00	1	ug/L	J	0.12	7440-36-0	11/23/10 08:05	11/23/10 19:01	0110687
Arsenic	EPA 6020A	EPA 3005A	3.31	10.0	1	ug/L	J	0.48	7440-38-2	11/23/10 08:05	11/23/10 19:01	0110687
Barium	EPA 6020A	EPA 3005A	1160	100	1	ug/L		0.70	7440-39-3	11/23/10 08:05	11/23/10 19:01	0110687
Beryllium	EPA 6020A	EPA 3005A	ND	1.00	1	ug/L		0.09	7440-41-7	11/23/10 08:05	11/23/10 19:01	0110687
Cadmium	EPA 6020A	EPA 3005A	0.61	1.00	1	ug/L	J	0.02	7440-43-9	11/23/10 08:05	11/23/10 19:01	0110687
Chromium	EPA 6020A	EPA 3005A	9.85	10.0	1	ug/L	J	0.37	7440-47-3	11/23/10 08:05	11/23/10 19:01	0110687
Cobalt	EPA 6020A	EPA 3005A	29.2	10.0	1	ug/L		0.02	7440-48-4	11/23/10 08:05	11/23/10 19:01	0110687
Copper	EPA 6020A	EPA 3005A	12.6	10.0	1	ug/L		0.03	7440-50-8	11/23/10 08:05	11/23/10 19:01	0110687
Lead	EPA 6020A	EPA 3005A	0.54	10.0	1	ug/L	J	0.12	7439-92-1	11/23/10 08:05	11/23/10 19:01	0110687
Nickel	EPA 6020A	EPA 3005A	54.2	50.0	1	ug/L		0.04	7440-02-0	11/23/10 08:05	11/23/10 19:01	0110687
Selenium	EPA 6020A	EPA 3005A	4.47	10.0	1	ug/L	J	0.54	7782-49-2	11/23/10 08:05	11/29/10 11:34	0110687
Silver	EPA 6020A	EPA 3005A	0.10	10.0	1	ug/L	J	0.01	7440-22-4	11/23/10 08:05	11/23/10 19:01	0110687
Thallium	EPA 6020A	EPA 3005A	0.06	5.50	1	ug/L	J	0.03	7440-28-0	11/23/10 08:05	11/23/10 19:01	0110687
Tin	EPA 6020A	EPA 3005A	1.58	100	1	ug/L	J	0.02	7440-31-5	11/23/10 08:05	11/23/10 19:01	0110687
Vanadium	EPA 6020A	EPA 3005A	11.5	25.0	1	ug/L	J	1.82	7440-62-2	11/23/10 08:05	11/23/10 19:01	0110687
Zinc	EPA 6020A	EPA 3005A	23.4	10.0	1	ug/L		1.93	7440-66-6	11/23/10 08:05	11/23/10 19:01	0110687
Volatile Organic Compounds by EPA 8260												
Acetone	EPA 8260B	EPA 5030B	11	100	1	ug/L	J	3.4	67-64-1	11/22/10 12:00	11/22/10 13:31	0110654
Acrylonitrile	EPA 8260B	EPA 5030B	ND	200	1	ug/L		0.8	107-13-1	11/22/10 12:00	11/22/10 13:31	0110654



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Allied Waste Ind. Inc. - Charlotte
5105-A Morehead Rd.
Concord NC, 28027

Attention: Mr. Mike Gurley

December 22, 2010

Client ID: 1304-MW19R
Lab No: ATK0447-37
Matrix: Ground Water

Project: Charlotte Motor Speedway
Date/Time Sampled: 11/17/10 13:25
Date/Time Received: 11/20/10 08:45

Report No.: ATK0447

Analyte	Analytical Method	Prep Method	Result	SWSL/ RL	DF	Units	Qual	MDL	CAS #	Prep Date/Time	Analysis Date/Time	Batch
Volatile Organic Compounds by EPA 8260												
Benzene	EPA 8260B	EPA 5030B	4.1	1.0	1	ug/L		0.2	71-43-2	11/22/10 12:00	11/22/10 13:31	0110654
Bromochloromethane	EPA 8260B	EPA 5030B	ND	3.0	1	ug/L		0.2	74-97-5	11/22/10 12:00	11/22/10 13:31	0110654
Bromodichloromethane	EPA 8260B	EPA 5030B	ND	1.0	1	ug/L		0.3	75-27-4	11/22/10 12:00	11/22/10 13:31	0110654
Bromoform	EPA 8260B	EPA 5030B	ND	3.0	1	ug/L		0.3	75-25-2	11/22/10 12:00	11/22/10 13:31	0110654
Bromomethane	EPA 8260B	EPA 5030B	ND	10	1	ug/L		2.9	74-83-9	11/22/10 12:00	11/22/10 13:31	0110654
Carbon Disulfide	EPA 8260B	EPA 5030B	ND	100	1	ug/L		0.3	75-15-0	11/22/10 12:00	11/22/10 13:31	0110654
Carbon Tetrachloride	EPA 8260B	EPA 5030B	ND	1.0	1	ug/L		0.2	56-23-5	11/22/10 12:00	11/22/10 13:31	0110654
Chlorobenzene	EPA 8260B	EPA 5030B	2.6	3.0	1	ug/L	J	0.3	108-90-7	11/22/10 12:00	11/22/10 13:31	0110654
Chloroethane	EPA 8260B	EPA 5030B	0.7	10	1	ug/L	J	0.5	75-00-3	11/22/10 12:00	11/22/10 13:31	0110654
Chloroform	EPA 8260B	EPA 5030B	ND	5.0	1	ug/L		0.2	67-66-3	11/22/10 12:00	11/22/10 13:31	0110654
Chloromethane	EPA 8260B	EPA 5030B	ND	1.0	1	ug/L		0.2	74-87-3	11/22/10 12:00	11/22/10 13:31	0110654
Dibromochloromethane	EPA 8260B	EPA 5030B	ND	1.0	1	ug/L		0.3	124-48-1	11/22/10 12:00	11/22/10 13:31	0110654
1,2-Dibromo-3-chloropropane	EPA 8260B	EPA 5030B	ND	13	1	ug/L		0.8	96-12-8	11/22/10 12:00	11/22/10 13:31	0110654
1,2-Dibromoethane	EPA 8260B	EPA 5030B	ND	1.0	1	ug/L		0.2	106-93-4	11/22/10 12:00	11/22/10 13:31	0110654
Dibromomethane	EPA 8260B	EPA 5030B	ND	10	1	ug/L		0.3	74-95-3	11/22/10 12:00	11/22/10 13:31	0110654
1,2-Dichlorobenzene	EPA 8260B	EPA 5030B	ND	5.0	1	ug/L		0.4	95-50-1	11/22/10 12:00	11/22/10 13:31	0110654
1,4-Dichlorobenzene	EPA 8260B	EPA 5030B	3.8	1.0	1	ug/L		0.3	106-46-7	11/22/10 12:00	11/22/10 13:31	0110654
trans-1,4-Dichloro-2-butene	EPA 8260B	EPA 5030B	ND	100	1	ug/L		1.8	110-57-6	11/22/10 12:00	11/22/10 13:31	0110654
1,1-Dichloroethane	EPA 8260B	EPA 5030B	0.7	5.0	1	ug/L	J	0.2	75-34-3	11/22/10 12:00	11/22/10 13:31	0110654
1,2-Dichloroethane	EPA 8260B	EPA 5030B	ND	1.0	1	ug/L		0.2	107-06-2	11/22/10 12:00	11/22/10 13:31	0110654
1,1-Dichloroethene	EPA 8260B	EPA 5030B	ND	5.0	1	ug/L		0.2	75-35-4	11/22/10 12:00	11/22/10 13:31	0110654
cis-1,2-Dichloroethene	EPA 8260B	EPA 5030B	0.6	5.0	1	ug/L	J	0.3	156-59-2	11/22/10 12:00	11/22/10 13:31	0110654



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Concord NC, 28027

Attention: Mr. Mike Gurley

December 22, 2010

Client ID: 1304-MW19R
Lab No: ATK0447-37
Matrix: Ground Water

Project: Charlotte Motor Speedway
Date/Time Sampled: 11/17/10 13:25
Date/Time Received: 11/20/10 08:45

Report No.: ATK0447

Analyte	Analytical Method	Prep Method	Result	SWSL/ RL	DF	Units	Qual	MDL	CAS #	Prep Date/Time	Analysis Date/Time	Batch
Volatile Organic Compounds by EPA 8260												
trans-1,2-Dichloroethene	EPA 8260B	EPA 5030B	ND	5.0	1	ug/L		0.2	156-60-5	11/22/10 12:00	11/22/10 13:31	0110654
1,2-Dichloropropane	EPA 8260B	EPA 5030B	ND	1.0	1	ug/L		0.3	78-87-5	11/22/10 12:00	11/22/10 13:31	0110654
cis-1,3-Dichloropropene	EPA 8260B	EPA 5030B	ND	1.0	1	ug/L		0.2	10061-01-5	11/22/10 12:00	11/22/10 13:31	0110654
trans-1,3-Dichloropropene	EPA 8260B	EPA 5030B	ND	1.0	1	ug/L		0.2	10061-02-6	11/22/10 12:00	11/22/10 13:31	0110654
Ethylbenzene	EPA 8260B	EPA 5030B	ND	1.0	1	ug/L		0.3	100-41-4	11/22/10 12:00	11/22/10 13:31	0110654
Iodomethane	EPA 8260B	EPA 5030B	ND	10	1	ug/L		0.6	74-88-4	11/22/10 12:00	11/22/10 13:31	0110654
Methyl Butyl Ketone (2-Hexanone)	EPA 8260B	EPA 5030B	ND	50	1	ug/L		0.6	591-78-6	11/22/10 12:00	11/22/10 13:31	0110654
Methylene Chloride	EPA 8260B	EPA 5030B	0.5	1.0	1	ug/L	J	0.4	75-09-2	11/22/10 12:00	11/22/10 13:31	0110654
Methyl Ethyl Ketone (2-Butanone)	EPA 8260B	EPA 5030B	69	100	1	ug/L	J	1.1	78-93-3	11/22/10 12:00	11/22/10 13:31	0110654
4-Methyl-2-pentanone (MIBK)	EPA 8260B	EPA 5030B	ND	50	1	ug/L		0.8	108-10-1	11/22/10 12:00	11/22/10 13:31	0110654
Styrene	EPA 8260B	EPA 5030B	ND	1.0	1	ug/L		0.3	100-42-5	11/22/10 12:00	11/22/10 13:31	0110654
1,1,1,2-Tetrachloroethane	EPA 8260B	EPA 5030B	ND	5.0	1	ug/L		0.3	630-20-6	11/22/10 12:00	11/22/10 13:31	0110654
1,1,2,2-Tetrachloroethane	EPA 8260B	EPA 5030B	ND	1.0	1	ug/L		0.4	79-34-5	11/22/10 12:00	11/22/10 13:31	0110654
Tetrachloroethene	EPA 8260B	EPA 5030B	0.3	1.0	1	ug/L	J	0.2	127-18-4	11/22/10 12:00	11/22/10 13:31	0110654
Toluene	EPA 8260B	EPA 5030B	ND	1.0	1	ug/L		0.2	108-88-3	11/22/10 12:00	11/22/10 13:31	0110654
1,1,1-Trichloroethane	EPA 8260B	EPA 5030B	ND	1.0	1	ug/L		0.1	71-55-6	11/22/10 12:00	11/22/10 13:31	0110654
1,1,2-Trichloroethane	EPA 8260B	EPA 5030B	ND	1.0	1	ug/L		0.5	79-00-5	11/22/10 12:00	11/22/10 13:31	0110654
Trichloroethene	EPA 8260B	EPA 5030B	ND	1.0	1	ug/L		0.3	79-01-6	11/22/10 12:00	11/22/10 13:31	0110654
Trichlorofluoromethane	EPA 8260B	EPA 5030B	ND	1.0	1	ug/L		0.2	75-69-4	11/22/10 12:00	11/22/10 13:31	0110654
1,2,3-Trichloropropane	EPA 8260B	EPA 5030B	ND	1.0	1	ug/L		0.4	96-18-4	11/22/10 12:00	11/22/10 13:31	0110654
Vinyl Acetate	EPA 8260B	EPA 5030B	ND	50	1	ug/L		0.2	108-05-4	11/22/10 12:00	11/22/10 13:31	0110654



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Attention: Mr. Mike Gurley

December 22, 2010

Client ID: 1304-MW19R
Lab No: ATK0447-37
Matrix: Ground Water

Project: Charlotte Motor Speedway
Date/Time Sampled: 11/17/10 13:25
Date/Time Received: 11/20/10 08:45

Report No.: ATK0447

Analyte	Analytical Method	Prep Method	Result	SWSL/ RL	DF	Units	Qual	MDL	CAS #	Prep Date/Time	Analysis Date/Time	Batch
Volatile Organic Compounds by EPA 8260												
Vinyl Chloride	EPA 8260B	EPA 5030B	0.5	1.0	1	ug/L	J	0.2	75-01-4	11/22/10 12:00	11/22/10 13:31	0110654
Xylenes, total	EPA 8260B	EPA 5030B	ND	4.0	1	ug/L		0.6	1330-20-7	11/22/10 12:00	11/22/10 13:31	0110654
Surr: Dibromofluoromethane	EPA 8260B	EPA 5030B	84 %						1868-53-7	11/22/10 12:00	11/22/10 13:31	0110654
Surr: 1,2-Dichloroethane-d4	EPA 8260B	EPA 5030B	81 %						17060-07-0	11/22/10 12:00	11/22/10 13:31	0110654
Surr: Toluene-d8	EPA 8260B	EPA 5030B	93 %						2037-26-5	11/22/10 12:00	11/22/10 13:31	0110654
Surr: 4-Bromofluorobenzene	EPA 8260B	EPA 5030B	93 %						460-00-4	11/22/10 12:00	11/22/10 13:31	0110654
Dichlorodifluoromethane	EPA 8260B	EPA 5030B	0.2	5.0	1	ug/L	J	0.2	75-71-8	11/22/10 12:00	11/22/10 13:31	0110654



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Concord NC, 28027

Attention: Mr. Mike Gurley

December 22, 2010

Client ID: 1304-MW18AR
Lab No: ATK0447-38
Matrix: Ground Water

Project: Charlotte Motor Speedway
Date/Time Sampled: 11/17/10 14:40
Date/Time Received: 11/20/10 08:45

Report No.: ATK0447

Analyte	Analytical Method	Prep Method	Result	SWSL/ RL	DF	Units	Qual	MDL	CAS #	Prep Date/Time	Analysis Date/Time	Batch
Metals, Total												
Mercury	EPA 7470A	EPA 7470A	ND	0.200	1	ug/L		0.027	7439-97-6	11/23/10 08:50	11/24/10 14:58	0110599
Antimony	EPA 6020A	EPA 3005A	0.22	6.00	1	ug/L	J	0.12	7440-36-0	11/23/10 08:05	11/23/10 19:06	0110687
Arsenic	EPA 6020A	EPA 3005A	ND	10.0	1	ug/L		0.48	7440-38-2	11/23/10 08:05	11/23/10 19:06	0110687
Barium	EPA 6020A	EPA 3005A	14.2	100	1	ug/L	J	0.70	7440-39-3	11/23/10 08:05	11/23/10 19:06	0110687
Beryllium	EPA 6020A	EPA 3005A	ND	1.00	1	ug/L		0.09	7440-41-7	11/23/10 08:05	11/23/10 19:06	0110687
Cadmium	EPA 6020A	EPA 3005A	ND	1.00	1	ug/L		0.02	7440-43-9	11/23/10 08:05	11/23/10 19:06	0110687
Chromium	EPA 6020A	EPA 3005A	9.32	10.0	1	ug/L	J	0.37	7440-47-3	11/23/10 08:05	11/23/10 19:06	0110687
Cobalt	EPA 6020A	EPA 3005A	0.39	10.0	1	ug/L	J	0.02	7440-48-4	11/23/10 08:05	11/23/10 19:06	0110687
Copper	EPA 6020A	EPA 3005A	1.50	10.0	1	ug/L	J	0.03	7440-50-8	11/23/10 08:05	11/23/10 19:06	0110687
Lead	EPA 6020A	EPA 3005A	0.16	10.0	1	ug/L	J	0.12	7439-92-1	11/23/10 08:05	11/23/10 19:06	0110687
Nickel	EPA 6020A	EPA 3005A	6.90	50.0	1	ug/L	J	0.04	7440-02-0	11/23/10 08:05	11/23/10 19:06	0110687
Selenium	EPA 6020A	EPA 3005A	0.95	10.0	1	ug/L	J	0.54	7782-49-2	11/23/10 08:05	11/23/10 19:06	0110687
Silver	EPA 6020A	EPA 3005A	0.08	10.0	1	ug/L	J	0.01	7440-22-4	11/23/10 08:05	11/23/10 19:06	0110687
Thallium	EPA 6020A	EPA 3005A	ND	5.50	1	ug/L		0.03	7440-28-0	11/23/10 08:05	11/23/10 19:06	0110687
Tin	EPA 6020A	EPA 3005A	0.93	100	1	ug/L	J	0.02	7440-31-5	11/23/10 08:05	11/23/10 19:06	0110687
Vanadium	EPA 6020A	EPA 3005A	4.91	25.0	1	ug/L	J	1.82	7440-62-2	11/23/10 08:05	11/23/10 19:06	0110687
Zinc	EPA 6020A	EPA 3005A	5.10	10.0	1	ug/L	J	1.93	7440-66-6	11/23/10 08:05	11/23/10 19:06	0110687
Volatile Organic Compounds by EPA 8260												
Acetone	EPA 8260B	EPA 5030B	ND	100	1	ug/L		3.4	67-64-1	11/22/10 12:00	11/22/10 14:03	0110654
Acrylonitrile	EPA 8260B	EPA 5030B	ND	200	1	ug/L		0.8	107-13-1	11/22/10 12:00	11/22/10 14:03	0110654
Benzene	EPA 8260B	EPA 5030B	ND	1.0	1	ug/L		0.2	71-43-2	11/22/10 12:00	11/22/10 14:03	0110654



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Attention: Mr. Mike Gurley

December 22, 2010

Client ID: 1304-MW18AR
Lab No: ATK0447-38
Matrix: Ground Water

Project: Charlotte Motor Speedway
Date/Time Sampled: 11/17/10 14:40
Date/Time Received: 11/20/10 08:45

Report No.: ATK0447

Analyte	Analytical Method	Prep Method	Result	SWSL/ RL	DF	Units	Qual	MDL	CAS #	Prep Date/Time	Analysis Date/Time	Batch
Volatile Organic Compounds by EPA 8260												
Bromochloromethane	EPA 8260B	EPA 5030B	ND	3.0	1	ug/L		0.2	74-97-5	11/22/10 12:00	11/22/10 14:03	0110654
Bromodichloromethane	EPA 8260B	EPA 5030B	ND	1.0	1	ug/L		0.3	75-27-4	11/22/10 12:00	11/22/10 14:03	0110654
Bromoform	EPA 8260B	EPA 5030B	ND	3.0	1	ug/L		0.3	75-25-2	11/22/10 12:00	11/22/10 14:03	0110654
Bromomethane	EPA 8260B	EPA 5030B	ND	10	1	ug/L		2.9	74-83-9	11/22/10 12:00	11/22/10 14:03	0110654
Carbon Disulfide	EPA 8260B	EPA 5030B	ND	100	1	ug/L		0.3	75-15-0	11/22/10 12:00	11/22/10 14:03	0110654
Carbon Tetrachloride	EPA 8260B	EPA 5030B	ND	1.0	1	ug/L		0.2	56-23-5	11/22/10 12:00	11/22/10 14:03	0110654
Chlorobenzene	EPA 8260B	EPA 5030B	ND	3.0	1	ug/L		0.3	108-90-7	11/22/10 12:00	11/22/10 14:03	0110654
Chloroethane	EPA 8260B	EPA 5030B	ND	10	1	ug/L		0.5	75-00-3	11/22/10 12:00	11/22/10 14:03	0110654
Chloroform	EPA 8260B	EPA 5030B	2.8	5.0	1	ug/L	B-01, J	0.2	67-66-3	11/22/10 12:00	11/22/10 14:03	0110654
Chloromethane	EPA 8260B	EPA 5030B	ND	1.0	1	ug/L		0.2	74-87-3	11/22/10 12:00	11/22/10 14:03	0110654
Dibromochloromethane	EPA 8260B	EPA 5030B	ND	1.0	1	ug/L		0.3	124-48-1	11/22/10 12:00	11/22/10 14:03	0110654
1,2-Dibromo-3-chloropropane	EPA 8260B	EPA 5030B	ND	13	1	ug/L		0.8	96-12-8	11/22/10 12:00	11/22/10 14:03	0110654
1,2-Dibromoethane	EPA 8260B	EPA 5030B	ND	1.0	1	ug/L		0.2	106-93-4	11/22/10 12:00	11/22/10 14:03	0110654
Dibromomethane	EPA 8260B	EPA 5030B	ND	10	1	ug/L		0.3	74-95-3	11/22/10 12:00	11/22/10 14:03	0110654
1,2-Dichlorobenzene	EPA 8260B	EPA 5030B	ND	5.0	1	ug/L		0.4	95-50-1	11/22/10 12:00	11/22/10 14:03	0110654
1,4-Dichlorobenzene	EPA 8260B	EPA 5030B	ND	1.0	1	ug/L		0.3	106-46-7	11/22/10 12:00	11/22/10 14:03	0110654
trans-1,4-Dichloro-2-butene	EPA 8260B	EPA 5030B	ND	100	1	ug/L		1.8	110-57-6	11/22/10 12:00	11/22/10 14:03	0110654
1,1-Dichloroethane	EPA 8260B	EPA 5030B	0.3	5.0	1	ug/L	J	0.2	75-34-3	11/22/10 12:00	11/22/10 14:03	0110654
1,2-Dichloroethane	EPA 8260B	EPA 5030B	ND	1.0	1	ug/L		0.2	107-06-2	11/22/10 12:00	11/22/10 14:03	0110654
1,1-Dichloroethene	EPA 8260B	EPA 5030B	ND	5.0	1	ug/L		0.2	75-35-4	11/22/10 12:00	11/22/10 14:03	0110654
cis-1,2-Dichloroethene	EPA 8260B	EPA 5030B	ND	5.0	1	ug/L		0.3	156-59-2	11/22/10 12:00	11/22/10 14:03	0110654
trans-1,2-Dichloroethene	EPA 8260B	EPA 5030B	ND	5.0	1	ug/L		0.2	156-60-5	11/22/10 12:00	11/22/10 14:03	0110654



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Allied Waste Ind. Inc. - Charlotte
5105-A Morehead Rd.
Concord NC, 28027

Attention: Mr. Mike Gurley

December 22, 2010

Client ID: 1304-MW18AR
Lab No: ATK0447-38
Matrix: Ground Water

Project: Charlotte Motor Speedway
Date/Time Sampled: 11/17/10 14:40
Date/Time Received: 11/20/10 08:45

Report No.: ATK0447

Analyte	Analytical Method	Prep Method	Result	SWSL/ RL	DF	Units	Qual	MDL	CAS #	Prep Date/Time	Analysis Date/Time	Batch
Volatile Organic Compounds by EPA 8260												
1,2-Dichloropropane	EPA 8260B	EPA 5030B	ND	1.0	1	ug/L		0.3	78-87-5	11/22/10 12:00	11/22/10 14:03	0110654
cis-1,3-Dichloropropene	EPA 8260B	EPA 5030B	ND	1.0	1	ug/L		0.2	10061-01-5	11/22/10 12:00	11/22/10 14:03	0110654
trans-1,3-Dichloropropene	EPA 8260B	EPA 5030B	ND	1.0	1	ug/L		0.2	10061-02-6	11/22/10 12:00	11/22/10 14:03	0110654
Ethylbenzene	EPA 8260B	EPA 5030B	ND	1.0	1	ug/L		0.3	100-41-4	11/22/10 12:00	11/22/10 14:03	0110654
Iodomethane	EPA 8260B	EPA 5030B	ND	10	1	ug/L		0.6	74-88-4	11/22/10 12:00	11/22/10 14:03	0110654
Methyl Butyl Ketone (2-Hexanone)	EPA 8260B	EPA 5030B	ND	50	1	ug/L		0.6	591-78-6	11/22/10 12:00	11/22/10 14:03	0110654
Methylene Chloride	EPA 8260B	EPA 5030B	ND	1.0	1	ug/L		0.4	75-09-2	11/22/10 12:00	11/22/10 14:03	0110654
Methyl Ethyl Ketone (2-Butanone)	EPA 8260B	EPA 5030B	ND	100	1	ug/L		1.1	78-93-3	11/22/10 12:00	11/22/10 14:03	0110654
4-Methyl-2-pentanone (MIBK)	EPA 8260B	EPA 5030B	ND	50	1	ug/L		0.8	108-10-1	11/22/10 12:00	11/22/10 14:03	0110654
Styrene	EPA 8260B	EPA 5030B	ND	1.0	1	ug/L		0.3	100-42-5	11/22/10 12:00	11/22/10 14:03	0110654
1,1,1,2-Tetrachloroethane	EPA 8260B	EPA 5030B	ND	5.0	1	ug/L		0.3	630-20-6	11/22/10 12:00	11/22/10 14:03	0110654
1,1,2,2-Tetrachloroethane	EPA 8260B	EPA 5030B	ND	1.0	1	ug/L		0.4	79-34-5	11/22/10 12:00	11/22/10 14:03	0110654
Tetrachloroethene	EPA 8260B	EPA 5030B	ND	1.0	1	ug/L		0.2	127-18-4	11/22/10 12:00	11/22/10 14:03	0110654
Toluene	EPA 8260B	EPA 5030B	ND	1.0	1	ug/L		0.2	108-88-3	11/22/10 12:00	11/22/10 14:03	0110654
1,1,1-Trichloroethane	EPA 8260B	EPA 5030B	ND	1.0	1	ug/L		0.1	71-55-6	11/22/10 12:00	11/22/10 14:03	0110654
1,1,2-Trichloroethane	EPA 8260B	EPA 5030B	ND	1.0	1	ug/L		0.5	79-00-5	11/22/10 12:00	11/22/10 14:03	0110654
Trichloroethene	EPA 8260B	EPA 5030B	ND	1.0	1	ug/L		0.3	79-01-6	11/22/10 12:00	11/22/10 14:03	0110654
Trichlorofluoromethane	EPA 8260B	EPA 5030B	ND	1.0	1	ug/L		0.2	75-69-4	11/22/10 12:00	11/22/10 14:03	0110654
1,2,3-Trichloropropane	EPA 8260B	EPA 5030B	ND	1.0	1	ug/L		0.4	96-18-4	11/22/10 12:00	11/22/10 14:03	0110654
Vinyl Acetate	EPA 8260B	EPA 5030B	ND	50	1	ug/L		0.2	108-05-4	11/22/10 12:00	11/22/10 14:03	0110654
Vinyl Chloride	EPA 8260B	EPA 5030B	ND	1.0	1	ug/L		0.2	75-01-4	11/22/10 12:00	11/22/10 14:03	0110654



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Attention: Mr. Mike Gurley

December 22, 2010

Client ID: 1304-MW18AR
Lab No: ATK0447-38
Matrix: Ground Water

Project: Charlotte Motor Speedway
Date/Time Sampled: 11/17/10 14:40
Date/Time Received: 11/20/10 08:45

Report No.: ATK0447

Analyte	Analytical Method	Prep Method	Result	SWSL/ RL	DF	Units	Qual	MDL	CAS #	Prep Date/Time	Analysis Date/Time	Batch
Volatile Organic Compounds by EPA 8260												
Xylenes, total	EPA 8260B	EPA 5030B	ND	4.0	1	ug/L		0.6	1330-20-7	11/22/10 12:00	11/22/10 14:03	0110654
Surr: Dibromofluoromethane	EPA 8260B	EPA 5030B	85 %				80-120		1868-53-7	11/22/10 12:00	11/22/10 14:03	0110654
Surr: 1,2-Dichloroethane-d4	EPA 8260B	EPA 5030B	82 %				77-116		17060-07-0	11/22/10 12:00	11/22/10 14:03	0110654
Surr: Toluene-d8	EPA 8260B	EPA 5030B	93 %				80-120		2037-26-5	11/22/10 12:00	11/22/10 14:03	0110654
Surr: 4-Bromofluorobenzene	EPA 8260B	EPA 5030B	97 %				80-120		460-00-4	11/22/10 12:00	11/22/10 14:03	0110654
Dichlorodifluoromethane	EPA 8260B	EPA 5030B	ND	5.0	1	ug/L		0.2	75-71-8	11/22/10 12:00	11/22/10 14:03	0110654



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December 22, 2010

Metals, Total - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Qual
Batch 0110599 - EPA 7470A										
Blank (0110599-BLK1) Prepared: 11/23/10 Analyzed: 11/24/10										
Mercury	ND	0.200	ug/L							
LCS (0110599-BS1) Prepared: 11/23/10 Analyzed: 11/24/10										
Mercury	2.12	0.200	ug/L	2.5000		85	80-120			
Matrix Spike (0110599-MS1) Source: ATK0447-27 Prepared: 11/23/10 Analyzed: 11/24/10										
Mercury	1.98	0.200	ug/L	2.5000	ND	79	75-125			
Matrix Spike Dup (0110599-MSD1) Source: ATK0447-27 Prepared: 11/23/10 Analyzed: 11/24/10										
Mercury	1.92	0.200	ug/L	2.5000	ND	77	75-125	3	20	
Post Spike (0110599-PS1) Source: ATK0447-27 Prepared: 11/23/10 Analyzed: 11/24/10										
Mercury	1.29		ug/L	1.6667	-0.004	78	80-120			QM-03
Batch 0110687 - EPA 3005A										
Blank (0110687-BLK1) Prepared & Analyzed: 11/23/10										
Antimony	ND	6.00	ug/L							
Arsenic	ND	10.0	ug/L							
Barium	ND	100	ug/L							
Beryllium	ND	1.00	ug/L							
Cadmium	ND	1.00	ug/L							
Chromium	3.62	10.0	ug/L							J
Cobalt	ND	10.0	ug/L							
Copper	ND	10.0	ug/L							
Lead	ND	10.0	ug/L							
Nickel	ND	50.0	ug/L							
Selenium	ND	10.0	ug/L							



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Metals, Total - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Qual
Batch 0110687 - EPA 3005A										
Blank (0110687-BLK1)										
						Prepared & Analyzed: 11/23/10				
Silver	ND	10.0	ug/L							
Thallium	ND	5.50	ug/L							
Tin	ND	100	ug/L							
Vanadium	2.91	25.0	ug/L							J
Zinc	4.64	10.0	ug/L							J
LCS (0110687-BS1)										
						Prepared & Analyzed: 11/23/10				
Antimony	99.4	6.00	ug/L	100.00		99	80-120			
Arsenic	103	10.0	ug/L	100.00		103	80-120			
Barium	96.8	100	ug/L	100.00		97	80-120			J
Beryllium	96.8	1.00	ug/L	100.00		97	80-120			
Cadmium	96.4	1.00	ug/L	100.00		96	80-120			
Chromium	99.4	10.0	ug/L	100.00		99	80-120			
Cobalt	99.1	10.0	ug/L	100.00		99	80-120			
Copper	96.0	10.0	ug/L	100.00		96	80-120			
Lead	92.6	10.0	ug/L	100.00		93	80-120			
Nickel	96.5	50.0	ug/L	100.00		96	80-120			
Selenium	98.0	10.0	ug/L	100.00		98	80-120			
Silver	97.1	10.0	ug/L	100.00		97	80-120			
Thallium	95.5	5.50	ug/L	100.00		96	80-120			
Tin	99.7	100	ug/L	100.00		100	80-120			J
Vanadium	96.7	25.0	ug/L	100.00		97	80-120			
Zinc	100	10.0	ug/L	100.00		100	80-120			
Matrix Spike (0110687-MS1)										
		Source: ATK0724-06				Prepared & Analyzed: 11/23/10				
Antimony	97.1	6.00	ug/L	100.00	ND	97	75-125			
Arsenic	106	10.0	ug/L	100.00	ND	106	75-125			



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Metals, Total - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Qual
Batch 0110687 - EPA 3005A										
Matrix Spike (0110687-MS1)		Source: ATK0724-06				Prepared & Analyzed: 11/23/10				
Barium	128	100	ug/L	100.00	32.4	96	75-125			
Beryllium	94.6	1.00	ug/L	100.00	ND	95	75-125			
Cadmium	93.9	1.00	ug/L	100.00	0.03	94	75-125			
Chromium	102	10.0	ug/L	100.00	3.04	99	75-125			
Cobalt	105	10.0	ug/L	100.00	3.90	101	75-125			
Copper	110	10.0	ug/L	100.00	13.1	97	75-125			
Lead	92.0	10.0	ug/L	100.00	ND	92	75-125			
Nickel	101	50.0	ug/L	100.00	3.43	98	75-125			
Selenium	99.1	10.0	ug/L	100.00	ND	99	75-125			
Silver	93.3	10.0	ug/L	100.00	0.03	93	75-125			
Thallium	96.2	5.50	ug/L	100.00	ND	96	75-125			
Tin	100	100	ug/L	100.00	0.03	100	75-125			
Vanadium	102	25.0	ug/L	100.00	8.68	93	75-125			
Zinc	106	10.0	ug/L	100.00	4.05	102	75-125			
Matrix Spike Dup (0110687-MSD1)		Source: ATK0724-06				Prepared & Analyzed: 11/23/10				
Antimony	98.0	6.00	ug/L	100.00	ND	98	75-125	0.9	20	
Arsenic	105	10.0	ug/L	100.00	ND	105	75-125	1	20	
Barium	128	100	ug/L	100.00	32.4	96	75-125	0.1	20	
Beryllium	95.4	1.00	ug/L	100.00	ND	95	75-125	0.8	20	
Cadmium	94.8	1.00	ug/L	100.00	0.03	95	75-125	1	20	
Chromium	105	10.0	ug/L	100.00	3.04	102	75-125	3	20	
Cobalt	106	10.0	ug/L	100.00	3.90	102	75-125	0.8	20	
Copper	111	10.0	ug/L	100.00	13.1	98	75-125	0.8	20	
Lead	91.8	10.0	ug/L	100.00	ND	92	75-125	0.2	20	
Nickel	102	50.0	ug/L	100.00	3.43	98	75-125	0.4	20	
Selenium	97.9	10.0	ug/L	100.00	ND	98	75-125	1	20	



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December 22, 2010

Metals, Total - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Qual
Batch 0110687 - EPA 3005A										
Matrix Spike Dup (0110687-MSD1)		Source: ATK0724-06				Prepared & Analyzed: 11/23/10				
Silver	94.1	10.0	ug/L	100.00	0.03	94	75-125	0.8	20	
Thallium	96.0	5.50	ug/L	100.00	ND	96	75-125	0.2	20	
Tin	101	100	ug/L	100.00	0.03	101	75-125	0.5	20	
Vanadium	104	25.0	ug/L	100.00	8.68	95	75-125	2	20	
Zinc	104	10.0	ug/L	100.00	4.05	100	75-125	1	20	
Post Spike (0110687-PS1)		Source: ATK0724-06				Prepared & Analyzed: 11/23/10				
Antimony	93.9		ug/L	100.00	0.03	94	80-120			
Arsenic	104		ug/L	100.00	-0.44	104	80-120			
Barium	129		ug/L	100.00	32.4	97	80-120			
Beryllium	94.4		ug/L	100.00	0.02	94	80-120			
Cadmium	95.0		ug/L	100.00	0.03	95	80-120			
Chromium	102		ug/L	100.00	3.04	99	80-120			
Cobalt	104		ug/L	100.00	3.90	100	80-120			
Copper	109		ug/L	100.00	13.1	96	80-120			
Lead	91.8		ug/L	100.00	0.02	92	80-120			
Nickel	100		ug/L	100.00	3.43	97	80-120			
Selenium	98.1		ug/L	100.00	0.03	98	80-120			
Silver	95.6		ug/L	100.00	0.03	96	80-120			
Thallium	96.0		ug/L	100.00	0.01	96	80-120			
Tin	100		ug/L	100.00	0.03	100	80-120			
Vanadium	99.1		ug/L	100.00	8.68	90	80-120			
Zinc	103		ug/L	100.00	4.05	99	80-120			



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December 22, 2010

Volatile Organic Compounds by EPA 8260 - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Qual
Batch 0110654 - EPA 5030B										
Blank (0110654-BLK1)										
Prepared & Analyzed: 11/22/10										
Acetone	ND	100	ug/L							
Acrylonitrile	ND	200	ug/L							
Benzene	ND	1.0	ug/L							
Bromochloromethane	ND	3.0	ug/L							
Bromodichloromethane	ND	1.0	ug/L							
Bromoform	ND	3.0	ug/L							
Bromomethane	ND	10	ug/L							
Carbon Disulfide	ND	100	ug/L							
Carbon Tetrachloride	ND	1.0	ug/L							
Chlorobenzene	ND	3.0	ug/L							
Chloroethane	ND	10	ug/L							
Chloroform	0.5	5.0	ug/L							J
Chloromethane	ND	1.0	ug/L							
Dibromochloromethane	ND	1.0	ug/L							
1,2-Dibromo-3-chloropropane	ND	13	ug/L							
1,2-Dibromoethane	ND	1.0	ug/L							
Dibromomethane	ND	10	ug/L							
1,2-Dichlorobenzene	ND	5.0	ug/L							
1,4-Dichlorobenzene	ND	1.0	ug/L							
trans-1,4-Dichloro-2-butene	ND	100	ug/L							
Dichlorodifluoromethane	ND	5.0	ug/L							
1,1-Dichloroethane	ND	5.0	ug/L							
1,2-Dichloroethane	ND	1.0	ug/L							
1,1-Dichloroethene	ND	5.0	ug/L							
cis-1,2-Dichloroethene	ND	5.0	ug/L							
trans-1,2-Dichloroethene	ND	5.0	ug/L							
1,2-Dichloropropane	ND	1.0	ug/L							



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Volatile Organic Compounds by EPA 8260 - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Qual
Batch 0110654 - EPA 5030B										
Blank (0110654-BLK1)										
Prepared & Analyzed: 11/22/10										
cis-1,3-Dichloropropene	ND	1.0	ug/L							
trans-1,3-Dichloropropene	ND	1.0	ug/L							
Ethylbenzene	ND	1.0	ug/L							
Iodomethane	ND	10	ug/L							
Methyl Butyl Ketone (2-Hexanone)	ND	50	ug/L							
Methylene Chloride	ND	1.0	ug/L							
Methyl Ethyl Ketone (2-Butanone)	ND	100	ug/L							
4-Methyl-2-pentanone (MIBK)	ND	50	ug/L							
Styrene	ND	1.0	ug/L							
1,1,1,2-Tetrachloroethane	ND	5.0	ug/L							
1,1,2,2-Tetrachloroethane	ND	1.0	ug/L							
Tetrachloroethene	ND	1.0	ug/L							
Toluene	ND	1.0	ug/L							
1,1,1-Trichloroethane	ND	1.0	ug/L							
1,1,2-Trichloroethane	ND	1.0	ug/L							
Trichloroethene	ND	1.0	ug/L							
Trichlorofluoromethane	ND	1.0	ug/L							
1,2,3-Trichloropropane	ND	1.0	ug/L							
Vinyl Acetate	ND	50	ug/L							
Vinyl Chloride	ND	1.0	ug/L							
Xylenes, total	ND	4.0	ug/L							
<i>Surr: Dibromofluoromethane</i>	43		ug/L	50.000		85	80-120			
<i>Surr: 1,2-Dichloroethane-d4</i>	40		ug/L	50.000		81	77-116			
<i>Surr: Toluene-d8</i>	47		ug/L	50.000		94	80-120			
<i>Surr: 4-Bromofluorobenzene</i>	48		ug/L	50.000		97	80-120			



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110 Technology Parkway, Norcross, GA 30092

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Allied Waste Ind. Inc. - Charlotte
5105-A Morehead Rd.
Concord NC, 28027

Attention: Mr. Mike Gurley

December 22, 2010

Volatile Organic Compounds by EPA 8260 - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Qual
Batch 0110654 - EPA 5030B										
LCS (0110654-BS1)										
						Prepared & Analyzed: 11/22/10				
Benzene	44		ug/L	50.000		87	80-120			
Chlorobenzene	43		ug/L	50.000		86	80-120			
1,1-Dichloroethene	40		ug/L	50.000		80	77-121			
Toluene	44		ug/L	50.000		88	78-113			
Trichloroethene	44		ug/L	50.000		87	82-122			
<hr/>										
<i>Surr: Dibromofluoromethane</i>	41		ug/L	50.000		81	80-120			
<i>Surr: 1,2-Dichloroethane-d4</i>	39		ug/L	50.000		78	77-116			
<i>Surr: Toluene-d8</i>	46		ug/L	50.000		92	80-120			
<i>Surr: 4-Bromofluorobenzene</i>	47		ug/L	50.000		95	80-120			
<hr/>										
Matrix Spike (0110654-MS1)		Source: ATK0721-01			Prepared: 11/22/10 Analyzed: 11/23/10					
Benzene	47		ug/L	50.000	0.3	93	82-123			
Chlorobenzene	45		ug/L	50.000	ND	90	75-119			
1,1-Dichloroethene	42		ug/L	50.000	ND	84	80-120			
Toluene	45		ug/L	50.000	ND	89	80-120			
Trichloroethene	45		ug/L	50.000	ND	90	81-125			
<hr/>										
<i>Surr: Dibromofluoromethane</i>	43		ug/L	50.000		85	80-120			
<i>Surr: 1,2-Dichloroethane-d4</i>	44		ug/L	50.000		87	77-116			
<i>Surr: Toluene-d8</i>	46		ug/L	50.000		92	80-120			
<i>Surr: 4-Bromofluorobenzene</i>	48		ug/L	50.000		97	80-120			
<hr/>										
Matrix Spike Dup (0110654-MSD1)		Source: ATK0721-01			Prepared: 11/22/10 Analyzed: 11/23/10					
Benzene	46		ug/L	50.000	0.3	91	82-123	2	9	
Chlorobenzene	45		ug/L	50.000	ND	90	75-119	0.6	13	
1,1-Dichloroethene	41		ug/L	50.000	ND	82	80-120	2	9	



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Volatile Organic Compounds by EPA 8260 - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Qual
Batch 0110654 - EPA 5030B										
Matrix Spike Dup (0110654-MSD1)										
Source: ATK0721-01										
Prepared: 11/22/10 Analyzed: 11/23/10										
Toluene	44		ug/L	50.000	ND	87	80-120	2	9	
Trichloroethene	44		ug/L	50.000	ND	89	81-125	0.9	11	
<i>Surr: Dibromofluoromethane</i>	43		<i>ug/L</i>	<i>50.000</i>		<i>86</i>	<i>80-120</i>			
<i>Surr: 1,2-Dichloroethane-d4</i>	45		<i>ug/L</i>	<i>50.000</i>		<i>90</i>	<i>77-116</i>			
<i>Surr: Toluene-d8</i>	46		<i>ug/L</i>	<i>50.000</i>		<i>93</i>	<i>80-120</i>			
<i>Surr: 4-Bromofluorobenzene</i>	49		<i>ug/L</i>	<i>50.000</i>		<i>97</i>	<i>80-120</i>			



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Laboratory Certifications

Code	Description	Number	Expires
LA	Louisiana	02069	06/30/2011
NC	North Carolina	381	12/31/2010
NELAC	NELAC (Non-Potable Water, Solids)	E87315	06/30/2011
NELDW	NELAC (Drinking Water)	E87315	06/30/2011
SC	South Carolina	98011001	06/30/2011
TX	Texas	T104704397-08-TX	03/31/2011



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Legend

Defination of Laboratory Terms

- ND** - Not Detected at levels greater than or equal to SWSL/RL
- SWSL/RL** - NC DENR Solid Waste Section Llimit/Reporting Limit (Adjusted for DF/Prep Factor)
- DF** - Dilution Factor
- MDL** - Method Detection Limit

Qualifiers

- QM-03** The spike recovery was outside acceptance limits for the MS and/or MSD and/or PDS. The batch was accepted based on acceptable LCS recovery.
- J** Estimated value less than Reporting Limit (RL) but greater than Method Detection Limit(MDL) (CLP J-Flag).
- B-01** Analyte was detected in the associated method blank at an estimated level equal to or greater than the MDL. Sample values reported as greater than the MDL and less than 10x the method blank value are reported as estimated values.

Note: Unless otherwise noted, all results are reported on an as received basis.



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December 22, 2010

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CHAIN OF CUSTODY RECORD

CLIENT NAME: Republic Bank
CLIENT ADDRESS/PHONE NUMBER/FAX NUMBER:
Concord, NC

REPORT TO: Mike Gurley CC:
REQUESTED COMPLETION DATE: PO #:
PROJECT NAME/STATE: CMS S, NC
PROJECT #:

ANALYTICAL SERVICES, INC.
ENVIRONMENTAL MONITORING & LABORATORY ANALYSIS
110 TECHNOLOGY PARKWAY NORCROSS, GA 30092
(770) 734-4200 • FAX (770) 734-4201 • www.asi-geb.com

DATE	TIME	M A T R I X C O D E	C O D E	SAMPLE IDENTIFICATION	CONTAINER SIZE	ANALYSIS REQUESTED	PRESERVATION	# of CONTAINERS	L A B #	PRESERVATION	CONTAINER TYPE	REMARKS/ADDITIONAL INFORMATION
11/10	12:35	GW	X	MW-19AR	12/17	X		1	36		P - PLASTIC	
11/10	12:35	GW	X	MW-19AR	13	X		1	36		A - AMBER GLASS	
11/10	13:25	GW	X	MW-19R	12/17	X		1	37		G - CLEAR GLASS	
11/10	13:25	GW	X	MW-19R	13	X		1	37		V - VOA VAL	
11/10	14:40	GW	X	MW-18AR	12/17	X		1	38		S - STERILE	
11/10	14:40	GW	X	MW-19AR	13	X		1	38		O - OTHER	
11/10	15:00	W	X	Equipment Bank	12/17	X		1	39			
11/10	15:00	W	X	Equipment Bank	13	X		1	39			

SAMPLED BY AND TITLE: Eddy DATE/TIME: 11/10/10 12:35

RECEIVED BY: Mike Gurley DATE/TIME: 11/10/10 8:17

RECEIVED BY LAB: ASIS DATE/TIME: 11/20/10 08:45

SHIPMENT PREPARED BY: ASIS DATE/TIME: 11/20/10 08:45

RELINQUISHED BY: ASIS DATE/TIME: 11/20/10 8:17

RELINQUISHED BY: ASIS DATE/TIME: 11/20/10 17:00

SAMPLE SHIPPED VIA: UPS FEDEX COURIER: CLIENT OTHER: ASIS

Temperature: 5 Custody Seal: Intact Broken: ASIS

In-house location: V3 Entered into LIMS: ASIS

*Please use Block 16 to complete form.



ANALYTICAL SERVICES, INC.

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LOG-IN CHECKLIST

Printed: 12/22/2010 10:04:49AM

Attn: Mr. Mike Gurley

Client: Allied Waste Ind. Inc. - Charlotte
Project: Charlotte Motor Speedway
Date Received: 11/13/10 08:50

Work Order: ATK0447
Logged In By: Mohammad M. Rahman

OBSERVATIONS

#Samples: 40 #Containers: 168
Minimum Temp(C): 1.0 Maximum Temp(C): 1.0 Custody Seal(s) Used: No

CHECKLIST ITEMS

COC included with Samples	YES
Sample Container(s) Intact	YES
Chain of Custody Complete	YES
Sample Container(s) Match COC	YES
Custody seal Intact	NO
Temperature in Compliance	YES
Sufficient Sample Volume for Analysis	YES
Zero Headspace Maintained for VOA Analyses	YES
Samples labeled preserved (If Applicable)	YES
Samples received within Allowable Hold Times	YES
Samples Received on Ice	YES
Preservation Confirmed	YES

Comments:

The samples arrived over several days, 11/13/2010 at 0850, 11/17/2010 at 0910, and 11/20/2010 at 0845. CFH

Narrative below used for completed report. Taken out for revised report for 3 samples dated 12/22/10.

VOC Analysis by Method 8260B (CN Qualifer):

For sample ATK0449-04. vinyl chloride and styrene are reported with qualifier as values were obtained from HCl preserved sample containers. Unpreserved VOA vials were not received for this sample.

FIELD INFORMATION LOG

Facility: Republic Waste

Sample Point ID: MW-19AR

Location: ams 5

Field Representative: DH/DAH

Sample Matrix: _____

Lab Sample #: _____

PURGE INFORMATION:

Method of Well Purge: GroundFos

Dedicated: Y N

Date / Time Initiated: 11/17/10 11:44

One (1) Casing Volume, Gal: 4.9

Initial Water Level, Feet: 21.05'

Total Volume Purged, Gal: 4.0

Ground Water Elevation, MSL: _____

Was Well Purged To Dryness: Yes @ 12:15 @

Well Total Depth, Feet: 51'

Water Level After Purge, Feet: 48.55 4.0 gallons

Casing Diameter, Inches: 2"

Date / Time Completed: 11/17/10 12:35

PURGE DATA:

Time	Purge Rate (gpm/htz)	Cumulative Volume	Temp. (°C)	pH (std units)	Conduct. (µmhos/cm)	Turb. (NTU)	Other D.O. ()
<u>11:53</u>		<u>0</u>	<u>17.8°</u>	<u>6.2</u>	<u>2,033</u>	<u>271</u>	<u>3.0</u>
<u>12:35</u>		<u>4.0</u>	<u>19.9°</u>	<u>6.3</u>	<u>2,011</u>	<u>172</u>	<u>4.3</u>

FIELD INFORMATION LOG (continued)

SAMPLING INFORMATION:

Sample Point ID: MU-19AR

Method of Sampling: GroundFos

Dedicated: (Y)IN

Water Level @ Sampling, Feet: _____

Well Collection Sequence Number: 32

Parameters: Annual () Semi-Annual Quarterly () Monthly () Other () _____

SAMPLING DATA:

Date/Time	Sample Rate	Temp. (°C)	pH (Std. Units)	Conduct. (µmhos/cm)	Turb. (NTU)	Other <u>D.O.</u> ()
<u>11/17/10</u> <u>12:35</u>	VOA _____ Other _____	<u>19.9°</u>	<u>6.3</u>	<u>2,011</u>	<u>172</u>	<u>4.3</u>

INSTRUMENT CHECK DATA:

Turbidity Serial #: _____ 596 NTU std. = 5.60 NTU _____ NTU std. = _____ NTU
 pH Serial #: _____ slope → 99.5
 4.0 std. = 4.1 7.0 std. = 7.1 10.0 std. = 10.0
 Conductivity Serial #: _____ Cell → 1,123
1,412 umhos/cm = 1,409 _____ umhos/cm = _____

GENERAL INFORMATION: D.O. → 10.1 Temp → 15.9°

Weather Conditions @ time of sampling: Sunny, Temperate

Sample Characteristics: Turbid, No odor

ANALYTE COLLECTION ORDER, CONTAINERS, PRESERVATIVES AND TESTS PERFORMED:

COMMENTS AND OBSERVATIONS: _____

I certify that sampling procedures were in accordance with all applicable EPA, State and Clier protocols.

Date: 11/17/10 By: JH Company: PRISM

FIELD INFORMATION LOG

Facility: Republic Waste

Sample Point ID: MW-19R

Location: CMS 5

Field Representative: JH/JAH

Sample Matrix: _____

Lab Sample #: _____

PURGE INFORMATION:

Method of Well Purge: GroundFos

Dedicated: Y N

Date / Time Initiated: 11/17/10 12:43

One (1) Casing Volume, Gal: 1.8

Initial Water Level, Feet: 23.90' Total Volume Purged, Gal: 6.0

Ground Water Elevation, MSL: _____

Was Well Purged To Dryness: No

Well Total Depth, Feet: 35'

Water Level After Purge, Feet: 25.97'

Casing Diameter, Inches: 2"

Date / Time Completed: 11/17/10 13:25

PURGE DATA:

Time	Purge Rate (gpm/htz)	Cumulative Volume	Temp. (°C)	pH (std units)	Conduct. (µmhos/cm)	Turb. (NTU)	Other D.O. ()
12:54		0	18.2°	5.9	1,936	425	4.3
13:03		2	18.4°	5.9	1,989	164	4.8
13:12		4	18.7°	6.0	1,952	65.1	4.0
13:25		6	18.7°	6.0	1,978	30.4	4.7

FIELD INFORMATION LOG (continued)

SAMPLING INFORMATION:

Sample Point ID: MW-19R

Method of Sampling: GroundFos

Dedicated: (Y)N

Water Level @ Sampling, Feet: _____ Well Collection Sequence Number: 33

Parameters: Annual () Semi-Annual Quarterly () Monthly () Other () _____

SAMPLING DATA:

Date/Time	Sample Rate	Temp. (°C)	pH (Std. Units)	Conduct. (µmhos/cm)	Turb. (NTU)	Other <u>D.O.</u> ()
<u>11/17/10</u> <u>13:25</u>	VOA _____ Other _____	<u>18.7°</u>	<u>6.0</u>	<u>1,978</u>	<u>30.4</u>	<u>4.7</u>

INSTRUMENT CHECK DATA:

Turbidity Serial #: _____ 596 NTU std. = 560 NTU _____ NTU std. = _____ NTU

pH Serial #: _____ 4.0 std. = 4.1 7.0 std. = 7.1 10.0 std. = 10.0

Conductivity Serial #: _____ 1442 µmhos/cm = 1409 _____ µmhos/cm = _____

GENERAL INFORMATION: D.O. → 10.1 Temp. → 15.9°

Weather Conditions @ time of sampling: Sunny, Temperate

Sample Characteristics: Turbid, NO ODOR

ANALYTE COLLECTION ORDER, CONTAINERS, PRESERVATIVES AND TESTS PERFORMED:

COMMENTS AND OBSERVATIONS:

I certify that sampling procedures were in accordance with all applicable EPA, State and Client protocols.

Date: 11/17/10 By: JH Company: PRISM

FIELD INFORMATION LOG

Facility: Republic Waste

Sample Point ID: MW-18AR

Location: CMS 5

Field Representative: DH/DHH

Sample Matrix: _____

Lab Sample #: _____

PURGE INFORMATION:

Method of Well Purge: Ground Fes

Dedicated: Y N

Date / Time Initiated: 11/17/10

One (1) Casing Volume, Gal: 2.7

Initial Water Level, Feet: 25.88 Total Volume Purged, Gal: 30

Ground Water Elevation, MSL: _____

Was Well Purged To Dryness: Yes @ 14:17 @ 3.0 gallons

Well Total Depth, Feet: 42.2'

Water Level After Purge, Feet: 37.18'

Casing Diameter, Inches: 2"

Date / Time Completed: 11/17/10 14:40

PURGE DATA:

Time	Purge Rate (gpm/htz)	Cumulative Volume	Temp. (°C)	pH (std units)	Conduct. (µmhos/cm)	Turb. (NTU)	Other D.O. ()
14:02		0	17.0°	7.6	349	1.6	5.6
14:40		3.0	16.8°	7.7	347	5.7	7.8

FIELD INFORMATION LOG (continued)

SAMPLING INFORMATION:

Sample Point ID: MLJ-187AR

Method of Sampling: GroundFos

Dedicated: Y N

Water Level @ Sampling, Feet: _____

Well Collection Sequence Number: 34

Parameters: Annual () Semi-Annual Quarterly () Monthly () Other () _____

SAMPLING DATA:

Date/Time	Sample Rate	Temp. (°C)	pH (Std. Units)	Conduct. (µmhos/cm)	Turb. (NTU)	Other <u>D.O.</u>
<u>11/17/10</u> <u>14:40</u>	VOA _____ Other _____	<u>16.8</u>	<u>7.7</u>	<u>347</u>	<u>5.7</u>	<u>7.8</u>

INSTRUMENT CHECK DATA:

Turbidity Serial #: _____ 596 NTU std. = 560 NTU _____ NTU std. = _____ NTU

pH Serial #: _____ 4.0 std. = 4.1 7.0 std. = 7.1 10.0 std. = 10.0

Conductivity Serial #: _____ 1,442 µmhos/cm = 1,409 _____ µmhos/cm = _____

GENERAL INFORMATION: D.O. → 10.1 Temp. → 15.9°

Weather Conditions @ time of sampling: Sunny, Cool/Temperate, Windy

Sample Characteristics: Clear, NO ODOR

ANALYTE COLLECTION ORDER, CONTAINERS, PRESERVATIVES AND TESTS PERFORMED:

COMMENTS AND OBSERVATIONS: _____

I certify that sampling procedures were in accordance with all applicable EPA, State and Clier protocols.

Date: 11/17/10 By: JH Company: PRISM

FIELD INFORMATION LOG (continued)

SAMPLING INFORMATION:

Sample Point ID: _____

Method of Sampling: _____

Dedicated: Y / N

Water Level @ Sampling, Feet: _____

Well Collection Sequence Number: _____

Parameters: Annual () Semi-Annual () Quarterly () Monthly () Other () _____

SAMPLING DATA:

Date/Time	Sample Rate	Temp. (°C)	pH (Std. Units)	Conduct. (µmhos/cm)	Turb. (NTU)	Other ()
	VOA _____					
	Other _____					

INSTRUMENT CHECK DATA:

Turbidity Serial #: _____ NTU std. = _____ NTU _____ NTU std. = _____ NTU

pH Serial #: _____ 4.0 std. = _____ 7.0 std. = _____ 10.0 std. = _____

Conductivity Serial #: _____ µmhos/cm = _____ µmhos/cm = _____

GENERAL INFORMATION:

Weather Conditions @ time of sampling: _____

Sample Characteristics: _____

ANALYTE COLLECTION ORDER, CONTAINERS, PRESERVATIVES AND TESTS PERFORMED:

COMMENTS AND OBSERVATIONS: - Well DRY - As soon as we started purge, it went dry. -

I certify that sampling procedures were in accordance with all applicable EPA, State and Client protocols.

Date: 11/17/10 By: DAH Company: PRISM