BorgWarner Inc.
3850 Hamlin Road
Auburn Hills Michigan 48326-1784
Telephone 248 754 9200
Fax 248 754 0888

AH-09-2133

VIA UPS NEXT DAY AIR

December 3, 2009

BorgWarner

Mr. Tony Russell, Chief
Assessment & Remediation Branch
Mississippi Department of Environmental Quality
515 East Amite Street
Jackson, Mississippi 39201

Re: Revisions, KEC Groundwater Assessment Report April 2009

Dear Mr. Russell,

Attached are the revisions in connection with the KEC Groundwater Assessment Report dated April 2009.

In the event there are any questions or additional information is needed, please feel free to contact me directly at 248-754-0839.

Very truly yours,

Anastasia Hamel

Anastasia Hamel
Director, Environmental Programs
BorgWarner Inc.

cc: J. Pallas, US EPA Region IV

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BorgWarner Inc.
3850 Hamlin Road
Auburn Hills Michigan 48326-1784
Telephone 248 754 9200
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AH-09-2134

VIA UPS NEXT DAY AIR

December 3, 2009

BorgWarner

Mr. Jeffrey Pallas
Chief of Restoration and UST Branch
US EPA Region IV
Atlanta Federal Center
61 Forsyth St. S.W.
Atlanta, Georgia 30303

Re: KEC Groundwater Assessment Report April 2009
Revisions, KEC Groundwater Assessment Report April 2009

Dear Mr. Pallas,

Attached are the Kuhlman Electric Corporation (KEC) Groundwater Assessment Report dated April 2009 and the Revisions to the report dated December 2009.

In the event there are any questions or additional information is needed, please feel free to contact me directly at 248-754-0839.

Very truly yours,

Anastasia Hamel

Anastasia Hamel
Director, Environmental Programs
BorgWarner Inc.

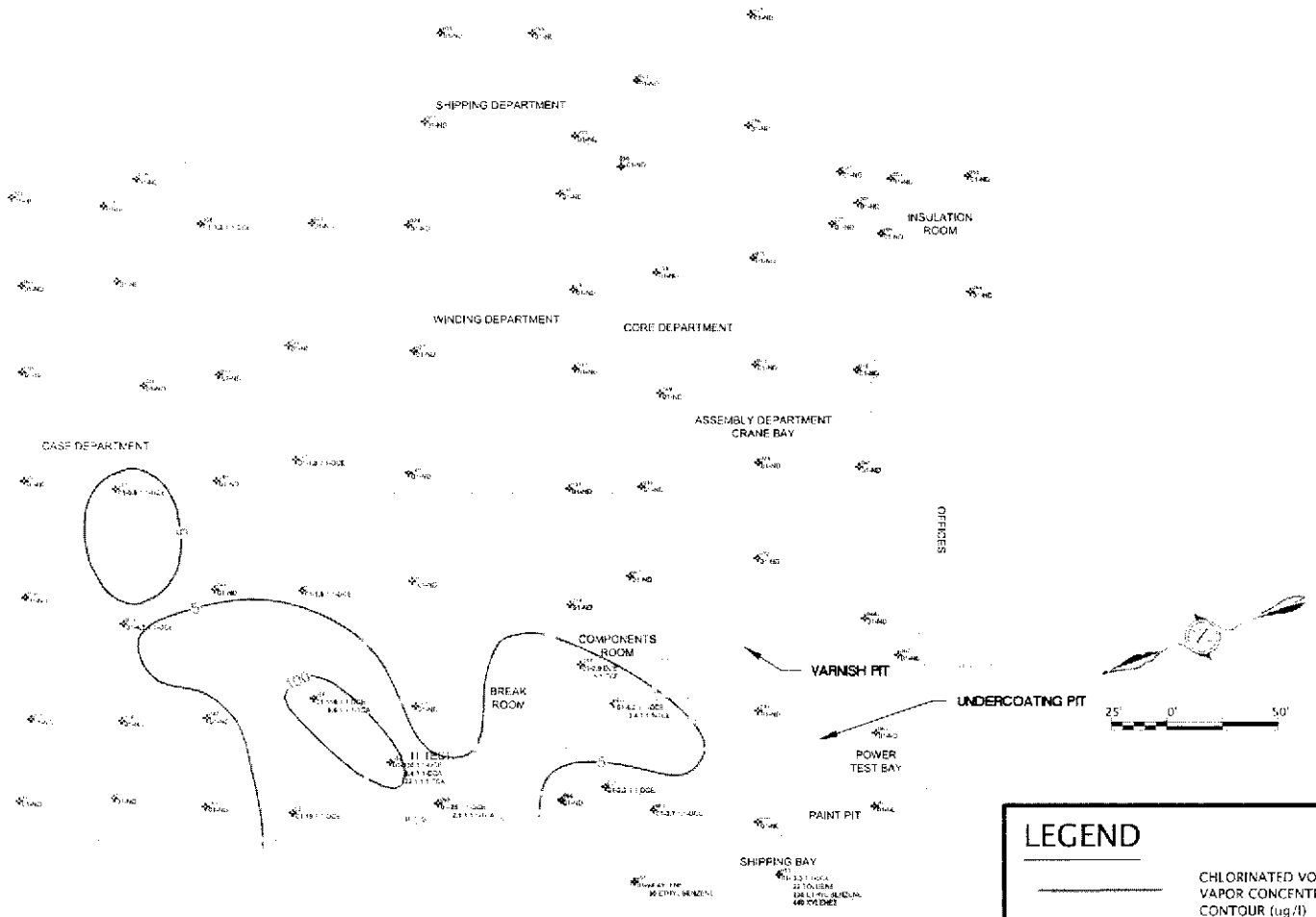
cc: T. Russell, MDEQ

Table 2
Soil Vapor
On-Site Laboratory Analytical Results Summary
Source Area Investigation
September 2006 - November 2006

On-site Lab Sample ID	Sample Location	Sample ID	Date Collected	Time Collected	Depth (Ft BGS)	VOCs Date Analyzed	1,1-Dichloro-ethene	1,1-Dichloro-ethane	Carbon tetra-chloride	1,1,1-Trichloro-ethane	1,2-Dichloro-ethane	Trichloro-ethene	Toluene	Ethyl-benzene	Xylenes (total)
			Laboratory Reporting Limit (µg/L)				1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	2.0
KV053	SV26	KEP-SV-DP-26-01	10/21/2006	19:32	9.5	10/23/2006	-	-	-	-	-	-	-	-	-
KV055	SV26	KEP-SV-DP-26-02	10/21/2006	21:48	11.5	10/23/2006	36	-	-	-	-	-	-	-	-
KV050	SV27	KEP-SV-DP-27-01	10/21/2006	18:16	7.5	10/23/2006	-	-	-	-	-	-	-	-	-
KV056	SV27	KEP-SV-DP-27-02	10/21/2006	22:18	11	10/23/2006	5.0	-	-	-	-	-	-	-	-
KV051	SV28	KEP-SV-DP-28-01	10/21/2006	18:30	7.5	10/23/2006	-	-	-	-	-	-	-	-	-
KV057	SV28	KEP-SV-DP-28-02	10/21/2006	22:31	11	10/23/2006	-	-	-	-	-	-	-	-	-
KV052	SV29	KEP-SV-DP-29-01	10/21/2006	18:42	7.5	10/23/2006	-	-	-	-	-	-	-	-	-
KV058	SV29	KEP-SV-DP-29-02	10/21/2006	23:16	11	10/23/2006	-	-	-	-	-	-	-	-	-
KV061	SV30	KEP-SV-DP-30-01	10/22/2006	14:31	7.5	10/24/2006	-	-	-	-	-	-	-	-	-
KV066	SV30	KEP-SV-DP-30-02	10/22/2006	17:08	11.5	10/24/2006	-	-	-	-	-	-	-	-	-
KV062	SV31	KEP-SV-DP-31-01	10/22/2006	14:49	7.5	10/24/2006	-	-	-	-	-	-	-	-	-
KV067	SV31	KEP-SV-DP-31-02	10/22/2006	17:24	11.5	10/24/2006	-	-	-	-	-	-	-	-	-
KV065	SV32	KEP-SV-DP-32-01	10/22/2006	16:30	9	10/24/2006	-	-	-	-	-	-	-	-	-
KV068	SV32	KEP-SV-DP-32-02	10/22/2006	18:07	12	10/24/2006	-	-	-	-	-	-	-	-	-
KV063	SV33	KEP-SV-DP-33-01	10/22/2006	15:27	7.5	10/24/2006	-	-	-	-	-	-	-	-	-
KV069	SV33	KEP-SV-DP-33-02	10/22/2006	18:35	11.5	10/24/2006	-	-	-	-	-	-	-	-	-
KV064	SV34	KEP-SV-DP-34-01	10/22/2006	16:00	7.5	10/24/2006	-	-	-	-	-	-	-	-	-
KV070	SV34	KEP-SV-DP-34-02	10/22/2006	19:16	11.5	10/24/2006	10	-	-	-	-	-	-	-	-
KV075	SV35	KEP-SV-DP-35-01	10/23/2006	16:49	3.5	10/24/2006	1.8	-	-	-	-	-	-	-	-
KV078	SV35	KEP-SV-DP-35-02	10/23/2006	17:50	8	10/24/2006	190	1.8	-	4.2	-	-	-	-	-
KV074	SV36	KEP-SV-DP-36-01	10/23/2006	16:42	3.5	10/24/2006	110	-	-	8.6	-	-	-	-	-
KV077	SV36	KEP-SV-DP-36-02	10/23/2006	17:28	8	10/24/2006	210	1.9	-	12	-	-	-	-	-
KV073	SV37	KEP-SV-DP-37-01	10/23/2006	16:00	3.5	10/24/2006	19	-	-	-	-	-	-	-	-
KV076	SV37	KEP-SV-DP-37-02	10/23/2006	17:12	8	10/24/2006	31	-	-	-	-	-	-	-	-
KV079	SV38	KEP-SV-DP-38-01	10/23/2006	19:27	3.5	10/24/2006	1.2	-	-	-	-	-	-	-	-
KV081	SV38	KEP-SV-DP-38-02	10/23/2006	20:11	8	10/24/2006	1.1	-	-	-	-	-	-	-	-
KV080	SV39	KEP-SV-DP-39-01	10/23/2006	19:38	3.5	10/24/2006	-	-	-	-	-	-	-	-	-
KV082	SV39	KEP-SV-DP-39-02	10/23/2006	20:27	8	10/24/2006	43	-	-	-	-	-	-	-	-
KV085	SV40	KEP-SV-DP-40-01	10/25/2006	16:55	3.5	10/26/2006	-	-	-	-	-	-	-	-	-
KV095	SV40	KEP-SV-DP-40-02	10/25/2006	23:19	8	10/27/2006	26	-	-	-	-	-	-	-	-
KV086	SV41	KEP-SV-DP-41-01	10/25/2006	17:15	3.5	10/26/2006	-	-	-	-	-	-	-	-	-
KV096	SV41	KEP-SV-DP-41-02	10/25/2006	23:30	8	10/27/2006	36	-	-	-	-	-	-	-	-
KV087	SV42	KEP-SV-DP-42-01	10/25/2006	17:20	3.5	10/26/2006	-	-	-	-	-	-	-	-	-
KV097	SV42	KEP-SV-DP-42-02	10/25/2006	23:55	8	10/27/2006	33	-	-	-	-	-	-	-	-
KV088	SV43	KEP-SV-DP-43-01	10/25/2006	17:29	3.5	10/26/2006	-	-	-	-	-	-	-	-	-
KV098	SV43	KEP-SV-DP-43-02	10/26/2006	0:10	8	10/27/2006	6.4	-	-	-	-	-	-	-	-
KV089	SV44	KEP-SV-DP-44-01	10/25/2006	19:00	8	10/26/2006	-	-	-	-	-	-	-	-	-
KV094	SV44	KEP-SV-DP-44-02	10/25/2006	22:26	12	10/26/2006	14	-	-	-	-	-	-	-	-
KV090	SV45	KEP-SV-DP-45-01	10/25/2006	19:23	8	10/26/2006	-	-	-	-	-	-	-	-	-
KV093	SV45	KEP-SV-DP-45-02	10/25/2006	21:54	12	10/26/2006	-	-	-	-	-	-	-	-	-
KV091	SV46	KEP-SV-DP-46-01	10/25/2006	19:54	8	10/26/2006	-	-	-	-	-	-	-	-	-
KV092	SV46	KEP-SV-DP-46-02	10/25/2006	20:50	12	10/26/2006	-	-	-	-	-	-	-	-	-
KV101	SV47	KEP-SV-DP-47-01	10/26/2006	16:22	8	10/27/2006	-	-	-	-	-	-	-	-	-
KV104	SV47	KEP-SV-DP-47-02	10/26/2006	20:22	12	10/27/2006	-	-	-	-	-	-	-	-	-

Table 6
On-Site Laboratory Analytical Results Summary
Waterloo Profiler Samples
Groundwater Investigation
March 2005 - March 2008

Waterloo Profiler Sample Location	On-site Lab Sample ID	Sample ID	Date Collected	Time Collected	Depth (Ft BGS)	VOCs Date Analyzed	1,4-Dioxane Date Analyzed	1,1-Dichloro-ethene	1,1-Dichloro-ethane	Chloroform	1,1,1-Trichloro-ethane	1,2-Dichloro-ethane	Trichloro-ethene	1,1,2-Trichloro-ethane	Tetra-chloro-ethene	1,4-Dioxane
			MDEQ TRG (µg/L)					7	798	0.155	200	5	5	5	5	6.09
			Laboratory Reporting Limit (µg/L)					1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0
WP001	W1096	KEP-WP-001-001	3/7/2005	16:22	65	3/7/2005	NA	11	-	-	-	-	-	1.1	1.9	NA
WP001	W1097	KEP-WP-001-002	3/7/2005	17:20	70	3/7/2005	NA	240	6.8	1.6	20	2.3	1.2	3.0	-	NA
WP001	W1098	KEP-WP-001-003	3/7/2005	18:29	75	3/7/2005	NA	21	1.9	-	-	-	-	-	-	NA
WP001	W1099	Duplicate	3/7/2005			3/7/2005	NA	24	2.0	-	-	-	-	-	-	NA
WP001	W1100	KEP-WP-001-004	3/8/2005	08:02	80	3/8/2005	NA	27	1.6	-	-	-	-	2.2	-	NA
WP001	W1101	KEP-WP-001-005	3/8/2005	08:56	85	3/8/2005	NA	1.2	-	-	-	-	-	-	-	NA
WP001	W1102	KEP-WP-001-006	3/8/2005	09:38	90	3/8/2005	NA	-	-	-	-	-	-	-	-	NA
WP001	W1103	KEP-WP-001-007	3/8/2005	10:14	95	3/8/2005	NA	-	-	-	-	-	-	-	-	NA
WP001	W1104	KEP-WP-001-008	3/8/2005	10:46	100	3/8/2005	NA	-	-	-	-	-	-	-	-	NA
WP001	W1105	KEP-WP-001-009	3/8/2005	11:19	105	3/8/2005	NA	-	-	-	-	-	-	-	-	NA
WP001	W1106	KEP-WP-001-010	3/8/2005	12:20	110	3/8/2005	NA	-	-	-	-	-	-	-	-	NA
WP002	W1109	KEP-WP-002-001	3/8/2005	17:03	65	3/8/2005	NA	110	3.0	-	10	-	-	-	-	NA
WP002	W1110	KEP-WP-002-002	3/8/2005	17:49	70	3/8/2005	NA	55	1.1	-	-	-	-	-	-	NA
WP002	W1111	KEP-WP-002-003	3/8/2005	18:38	75	3/8/2005	NA	2.6	-	-	-	-	-	-	-	NA
WP002	W1112	KEP-WP-002-004	3/9/2005	08:35	80	3/9/2005	NA	-	-	-	-	-	-	-	-	NA
WP002	W1113	KEP-WP-002-005	3/9/2005	09:34	85	3/9/2005	NA	-	-	-	-	-	-	-	-	NA
WP002	W1114	KEP-WP-002-006	3/9/2005	10:26	95	3/9/2005	NA	-	-	-	-	-	-	-	-	NA
WP002	W1115	KEP-WP-002-007	3/9/2005	11:15	105	3/9/2005	NA	-	-	-	-	-	-	-	-	NA
WP003	W1117	KEP-WP-003-001	3/9/2005	16:17	65	3/9/2005	NA	190	6.0	1.5	8.5	1.4	-	2.0	-	NA
WP003	W1118	KEP-WP-003-002	3/9/2005	17:01	70	3/9/2005	NA	24	-	-	-	-	-	-	-	NA
WP003	W1119	KEP-WP-003-003	3/9/2005	18:26	75	3/9/2005	NA	-	-	-	-	-	-	-	-	NA
WP003	W1120	KEP-WP-003-004	3/9/2005	19:00	80	3/9/2005	NA	1.2	-	-	-	-	-	-	-	NA
WP003	W1121	KEP-WP-003-005	3/10/2005	09:05	85	3/10/2005	NA	-	-	-	-	-	-	-	-	NA
WP003	W1122	KEP-WP-003-006	3/10/2005	09:58	95	3/10/2005	NA	-	-	-	-	-	-	-	-	NA
WP004	W1125	KEP-WP-004-001	3/10/2005	16:17	65	3/10/2005	NA	80	1.6	1.0	1.1	1.7	-	-	-	NA
WP004	W1126	KEP-WP-004-002	3/10/2005	17:02	70	3/10/2005	NA	1.2	-	-	-	-	-	-	-	NA
WP004	W1127	KEP-WP-004-003	3/10/2005	18:21	75	3/10/2005	NA	-	-	-	-	-	-	-	-	NA
WP004	W1128	KEP-WP-004-004	3/11/2005	08:52	80	3/11/2005	NA	-	-	-	-	-	-	-	-	NA
WP004	W1129	KEP-WP-004-005	3/11/2005	09:32	85	3/11/2005	NA	-	-	-	-	-	-	-	-	NA
WP004	W1130	KEP-WP-004-006	3/11/2005	10:27	95	3/11/2005	NA	-	-	-	-	-	-	-	-	NA
WP004	W1131	KEP-WP-004-007	3/11/2005	12:01	105	3/11/2005	NA	-	-	-	-	-	-	-	-	NA



FLOOR PLAN – KEC PLANT

LEGEND

CHLORINATED VOC SOIL VAPOR CONCENTRATIONS CONTOUR (ug/l)

SHALLOW SOIL VAPOR LOCATIONS AND CONCENTRATIONS (ug/l)

NOTE: CONTOURS ARE BASED ON THE TOTAL CHLORINATED VOC VAPOR CONCENTRATION IN EACH SAMPLE LOCATION.

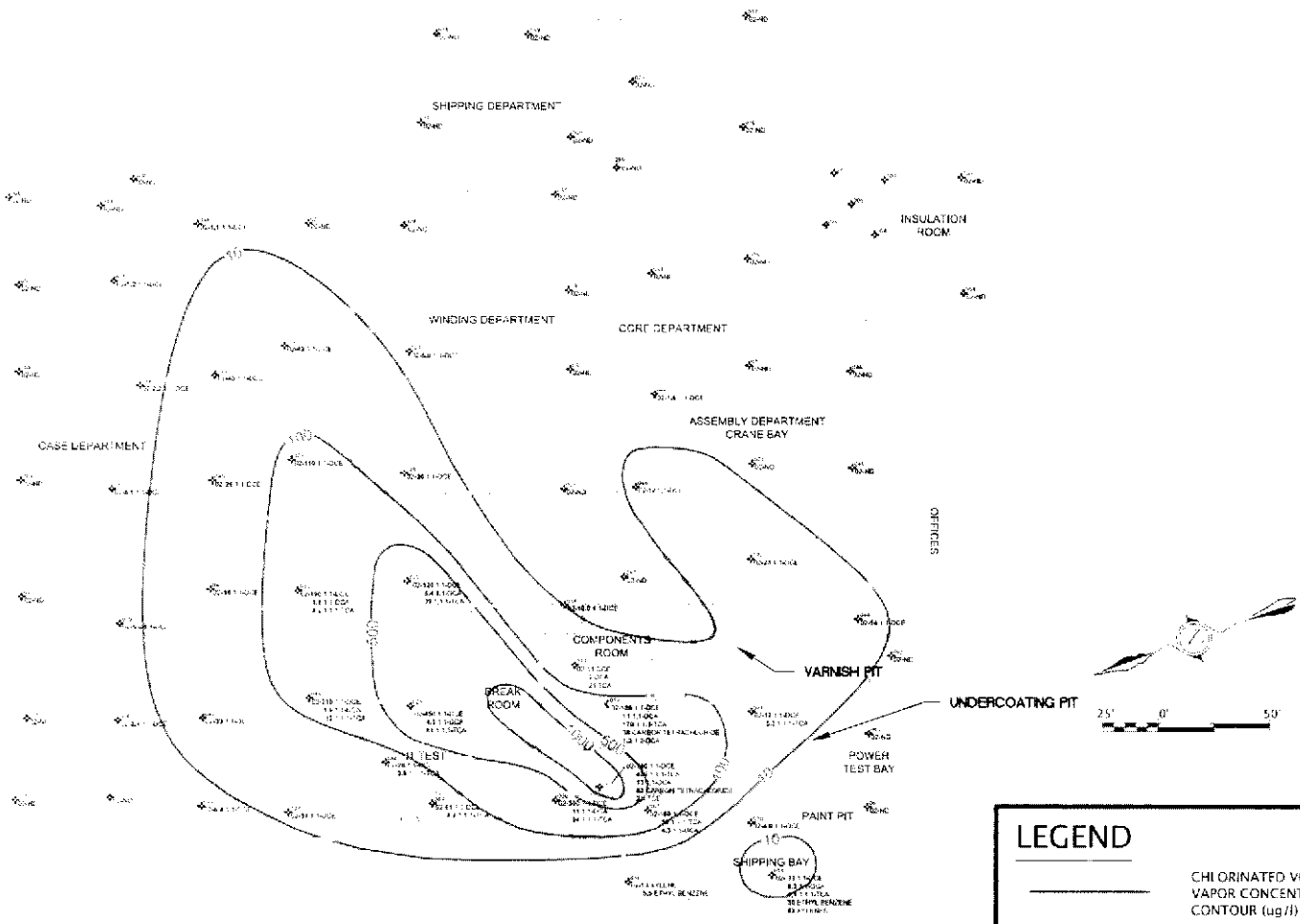
PREPARED FOR:
BorgWarner Inc.

SOURCE AREA
SHALLOW SOIL VAPOR SAMPLE LOCATIONS AND CHLORINATED SOIL VAPOR PLUME MAP
9.5 FEET - 9.5 FEET DEEP

SCALE 1" = 50'
DRW: DGR
CHK: RLM
REV: 0
DATE: 11/24/09

FIGURE 3A

Environmental Associates LLC
MARTIN SLAGLE
PO Box 1923
Black Mountain NC 28711
828.669.3929 828.669.5289



FLOOR PLAN – KEC PLANT

LEGEND

CHLORINATED VOC SOIL VAPOR CONCENTRATIONS CONTOUR (ug/l)

DEEP SOIL VAPOR LOCATIONS AND CONCENTRATIONS (ug/l)

NOTE: CONTOURS ARE BASED ON THE TOTAL CHLORINATED VOC VAPOR CONCENTRATION IN EACH SAMPLE LOCATION.

3B FIGURE

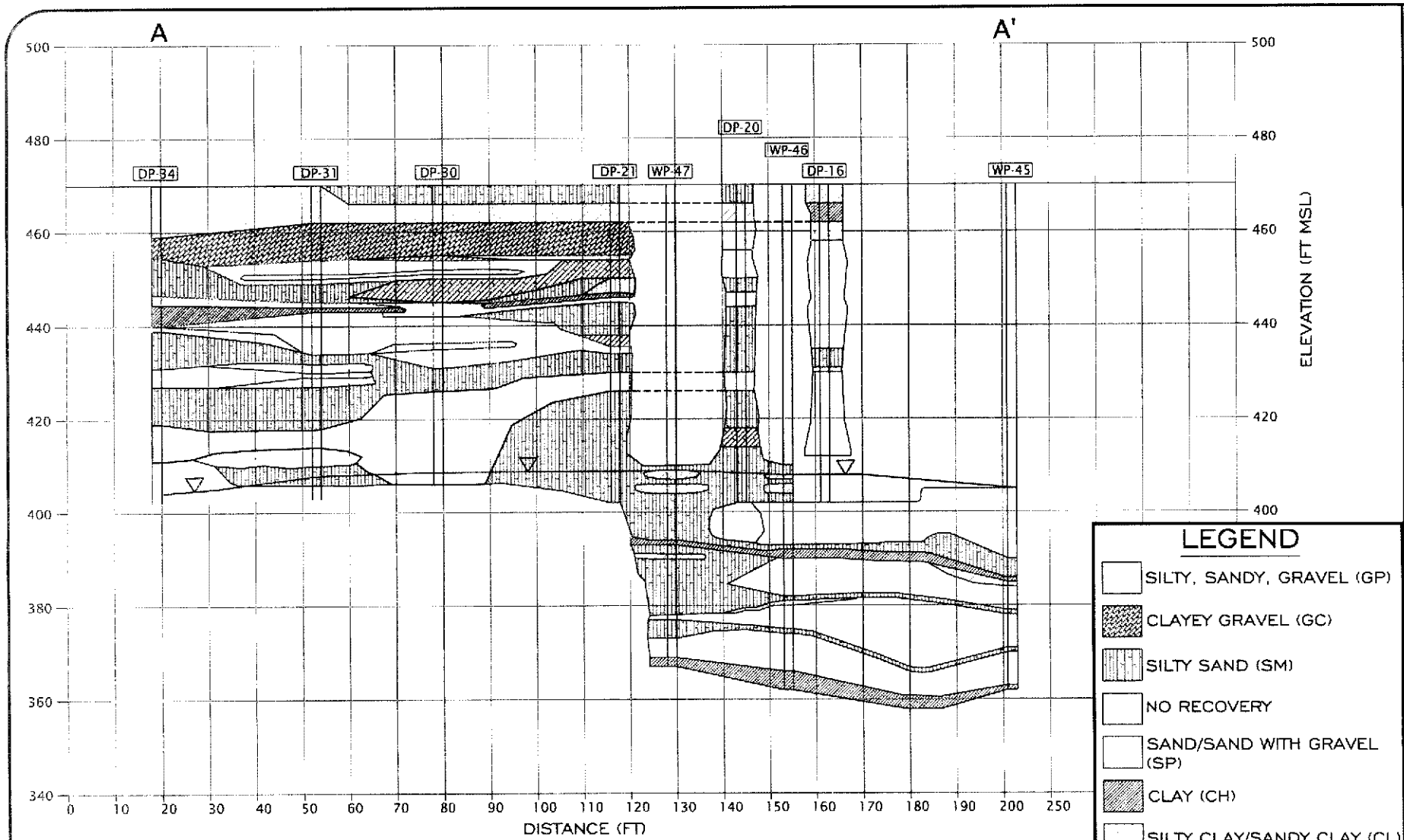
SOURCE AREA
DEEP SOIL VAPOR SAMPLE LOCATIONS AND CHLORINATED SOIL VAPOR PLUME MAP
8 FEET - 12 FEET DEEP

KAMAN AEROSPACE CORPORATION
CRYSTAL SPRINGS, MS

SCALE 1" = 50'
DR: DGR
CHK: RLM
REV: 0
DATE: 11/24/09

PREPARED FOR:
BorgWarner Inc.

PREPARED BY:
MARTIN SLAGLE
PO Box 1023
Black Mountain NC 28711
828.669.3929 828.669.5280



SOURCE AREA CROSS SECTION

A - A'

SCALE: 1" = 20'

NO VERTICAL EXAGERATION

LEGEND

- SILTY, SANDY, GRAVEL (GP)
- CLAYEY GRAVEL (GC)
- SILTY SAND (SM)
- NO RECOVERY
- SAND/SAND WITH GRAVEL (SP)
- CLAY (CH)
- SILTY CLAY/SANDY CLAY (CL)
- CLAYEY SAND (SC)
- INORGANIC SILTS/VERY FINE SAND/CLAYEY FINE SAND (ML)

FIGURE 6

SOURCE AREA GEOLOGIC CROSS-SECTION A-A'

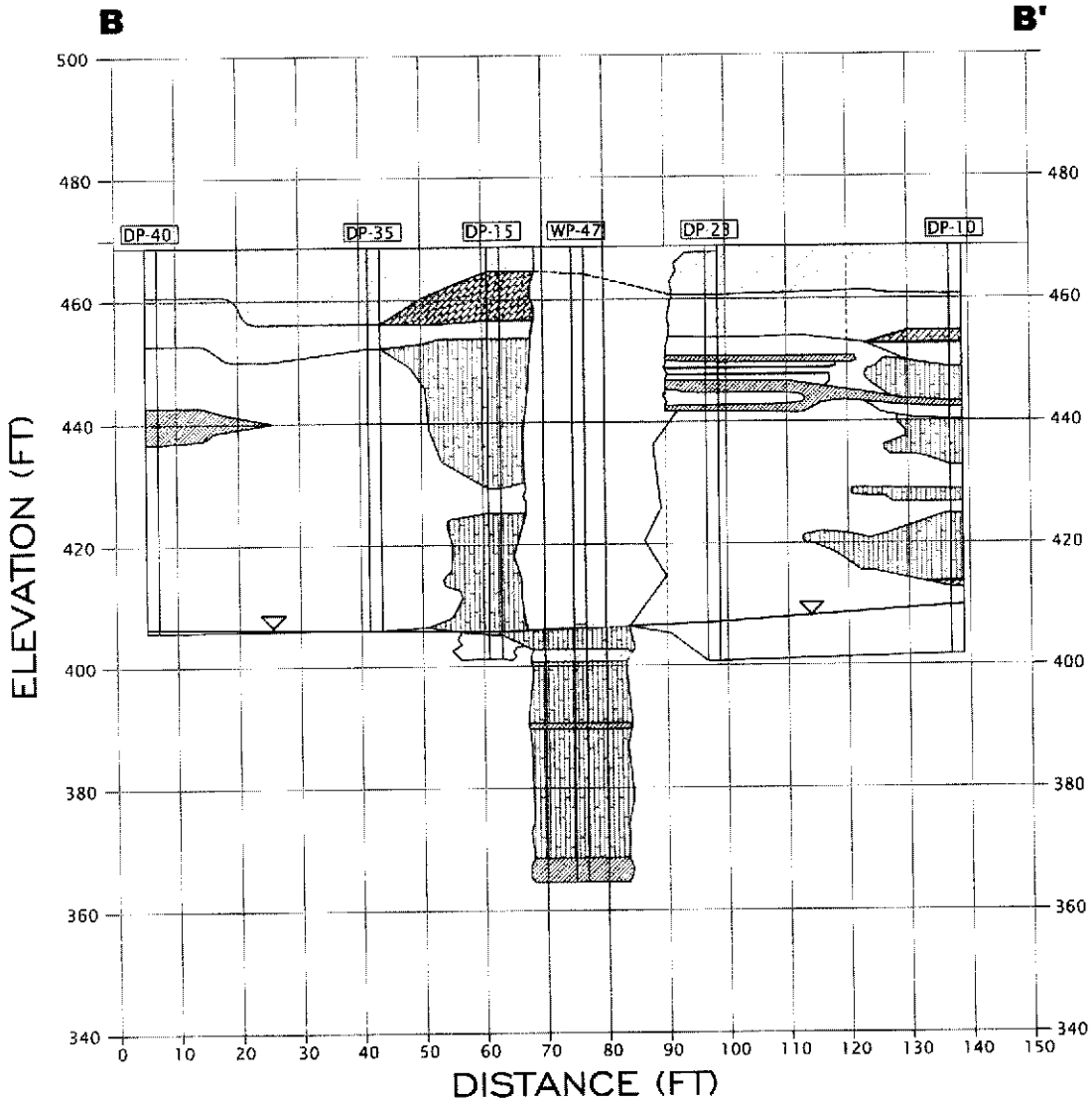
KIPHUHN ELECTRIC CORPORATION CRYSTAL SPRINGS, MS

SCALE	VARIES
DR:	DGR
CHK:	RLM
REV:	1
DATE:	11/24/2009

PREPARED FOR BorgWarner Inc.

PATH NAME: CROSSNOVA FOR ASSESSMENT REPORT 9-28-2010 FIG.DWG

GeoEnvironmental Associates, LLC
MARTIN SLAGLE
PO Box 1023
Black Mountain NC 28711
828.669.3929 828.669.5289



SOURCE AREA GEOLOGIC CROSS-SECTION B - B'

HORIZONTAL SCALE: 1" = 20'

VERTICAL SCALE: 1" = 20'

LEGEND

- SILTY, SANDY, GRAVEL (GP)
- CLAYEY GRAVEL (GC)
- SILTY SAND (SM)
- NO RECOVERY
- SAND/SAND WITH GRAVEL (SP)
- CLAY (CH)
- SILTY CLAY/SANDY CLAY (CL)
- CLAYEY SAND (SC)
- DP-40 BORING ID AND ELEVATION (ft msl)

FIGURE 7

SOURCE AREA GEOLOGIC CROSS-SECTION B-B'

FURMAN FILTERS CORPORATION CRYSTAL SPRINGS, MS

SCALE: 1"=20'

DR: DGR

CHK: PLM

REV: 1

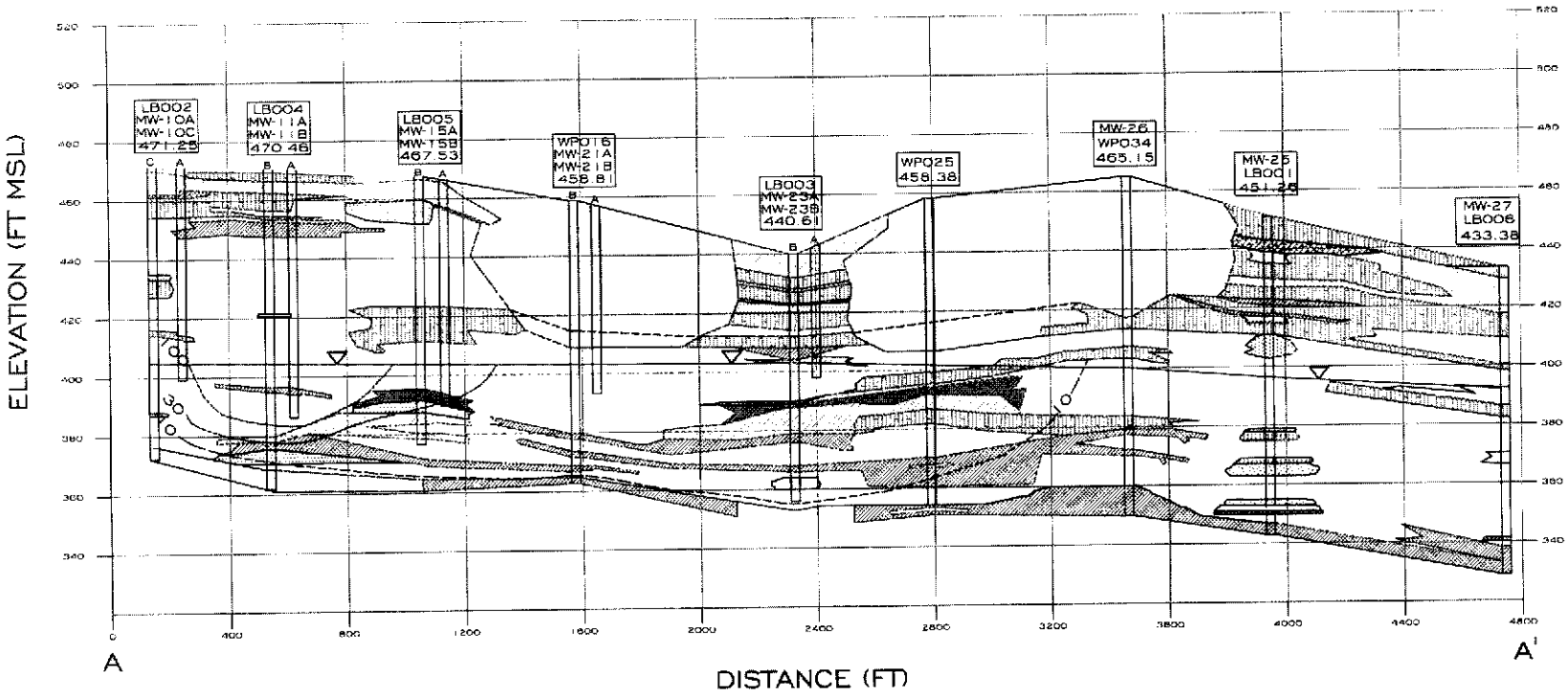
DATE: 11/24/2009

1 2 3 4

PREPARED FOR: BorgWarner Inc.

PATH NAME: GROUNDWATER ASSESSMENT 4-28-09 9:15 DWG

Geoenvironmental Associates, LLC
MARTIN SLAGLE
PO Box 1023
Black Mountain NC 28711
828.669.3929 828.669.5289



STUDY AREA
GEOLOGIC CROSS-SECTIONS
A - A'
SCALE: 1": 400' HORIZONTAL
1": 40' VERTICAL

LEGEND

- 100 — TOTAL VOCs (ug/L) MARCH 2009
- MW-21 / WP016 / 458.81 — BORING ID AND ELEVATION (FT MSL)
- SILTY SAND (SM)
- SAND/SAND WITH GRAVEL (SP)
- WELL GRADED SAND (SW)
- NO RECOVERY
- CLAY (CH)
- CLAYEY SAND (SC)
- SILTY CLAY/SANDY CLAY (CL)
- CLAYEY GRAVEL (GC)
- INORGANIC SILTS/ VERY FINE SAND/CLAYEY FINE SAND (ML)

FIGURE 8

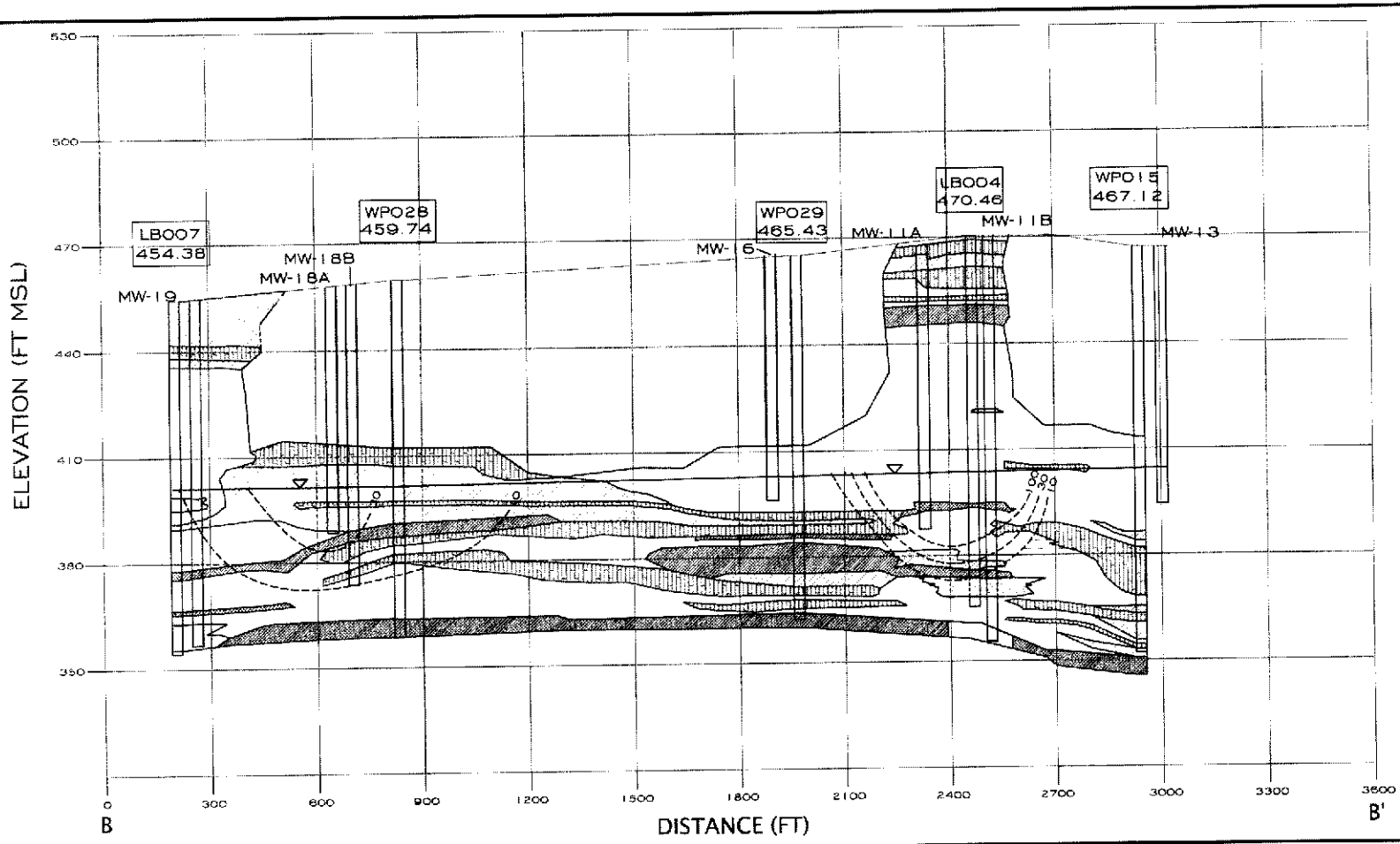
STUDY AREA
GEOLOGIC
CROSS-SECTION A-A'
KUHLMAN ELECTRIC CORPORATION
CRYSTAL SPRINGS, MS

SCALE VARIES
DR: DGR
CHK: RLM
REV: 0
DATE: 4/12/2009

PREPARED FOR:
BorgWarner Inc.

PATH NAME: GROUNDWATER ASSESSMENT REPORT
4-20-09 (G.DWG)

GeoEnvironmental Associates, LLC
MARTIN SLAGLE
PO Box 1023
Black Mountain NC 28711
828.669.3929 828.669.5289



STUDY AREA
GEOLOGIC CROSS-SECTIONS
W/VOC PLUME
B - B'
SCALE: 1" = 300' HORIZONTAL
1" = 30' VERTICAL

LEGEND

- CONCENTRATION CONTOUR UG/L
- GROUNDWATER ELEVATION FEBRUARY 2009
- SILTY SAND (SM)
- SAND/SAND WITH GRAVEL (SP)
- SILTY, SANDY, GRAVEL (GP)
- NO RECOVERY
- CLAY (CH)
- WELL GRADED SAND (SW)
- SILTY CLAY/SANDY CLAY (CL)
- WP015 467.12 — BORING ID AND ELEVATION (FT MSL)

FIGURE 9

STUDY AREA
GEOLOGIC CROSS-SECTION B-B'
WITH TOTAL VOC
CONCENTRATIONS (UG/L)

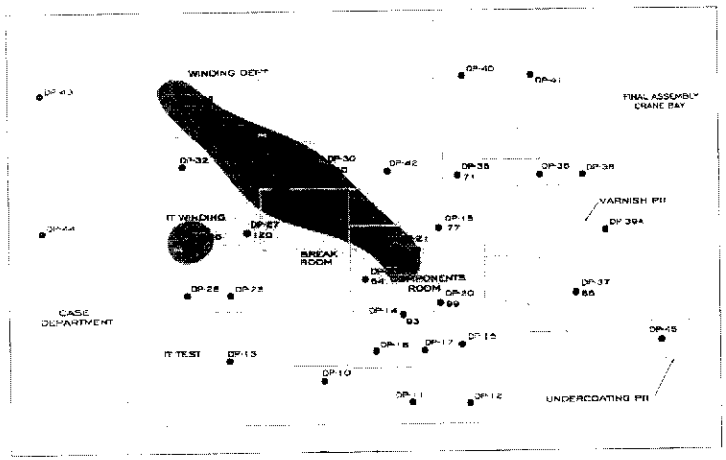
KOHLMAN ELECTRIC CORPORATION
CRYSTAL SPRINGS, MS

SCALE VARIES
DR: DGR
CHK: RLM
REV: 1
DATE: 11/24/2009

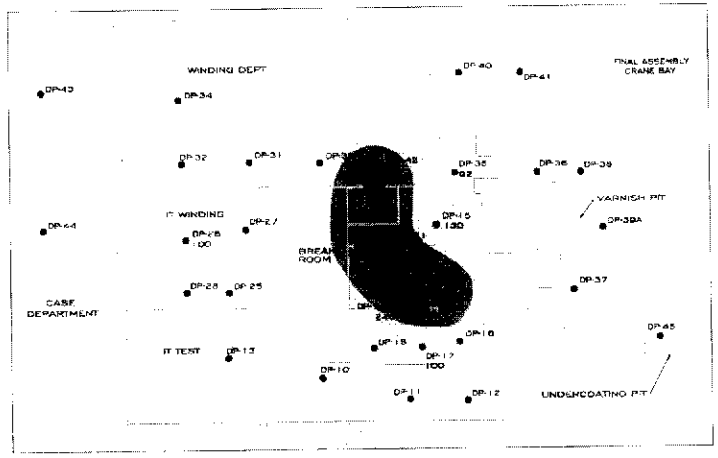
PREPARED FOR:
BorgWarner Inc.

PATH NAME: F:\ROUNDWATER ASSESSMENT REPORT 4-2-09

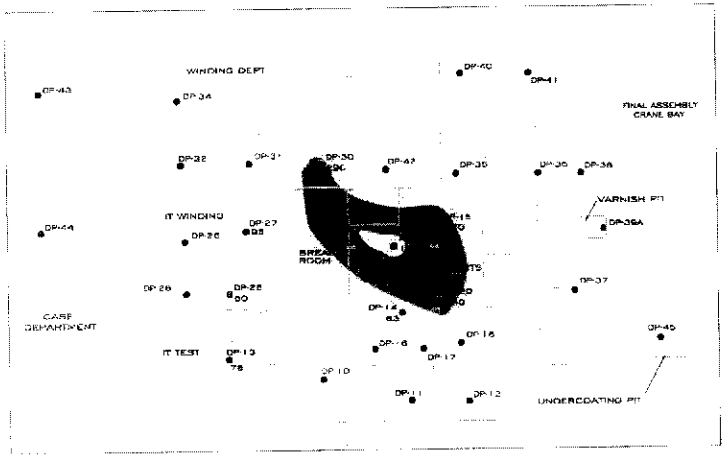
GeoEnvironmental Associates, LLC
MARTIN SLAGLE
PO Box 1023
Black Mountain NC 28711
828.669.3929 828.669.5289



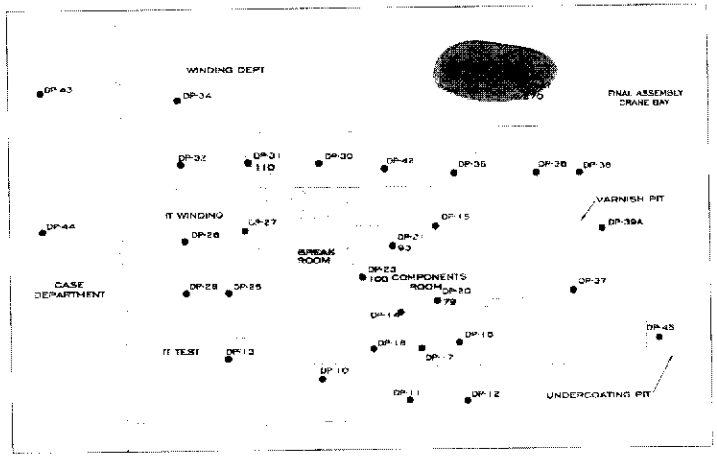
0'-5' DEPTH



10'-15' DEPTH



20'-25' DEPTH



30'-35' DEPTH

LEGEND

DIRECT PUSH SAMPLE LOCATION W/ 1,1-DCE CONCENTRATIONS IN (ug/kg) DP-21 93

1,1-DICHLOROETHENE CONCENTRATION GRADIENTS

200 + µg/kg

100 - 200 µg/kg

>50 - 100 µg/kg

(LABORATORY REPORTING LIMIT - 50 µg/kg)

KEY

FIGURE 2

SOURCE AREA
1,1-DCE PLUME IN SOIL

KUHLMAN ELECTRIC CORPORATION
CRYSTAL SPRINGS, MS

SCALE VARIES
DR: USR
CHK: SLM
REV: 1
DATE: 1/19/2000

PREPARED FOR
BorgWarner Inc.

Leadenvironmental Associates, LLC
MARTIN SLAGLE
PO Box 1023
Black Mountain NC 28711
828.669.3929 828.669.5289

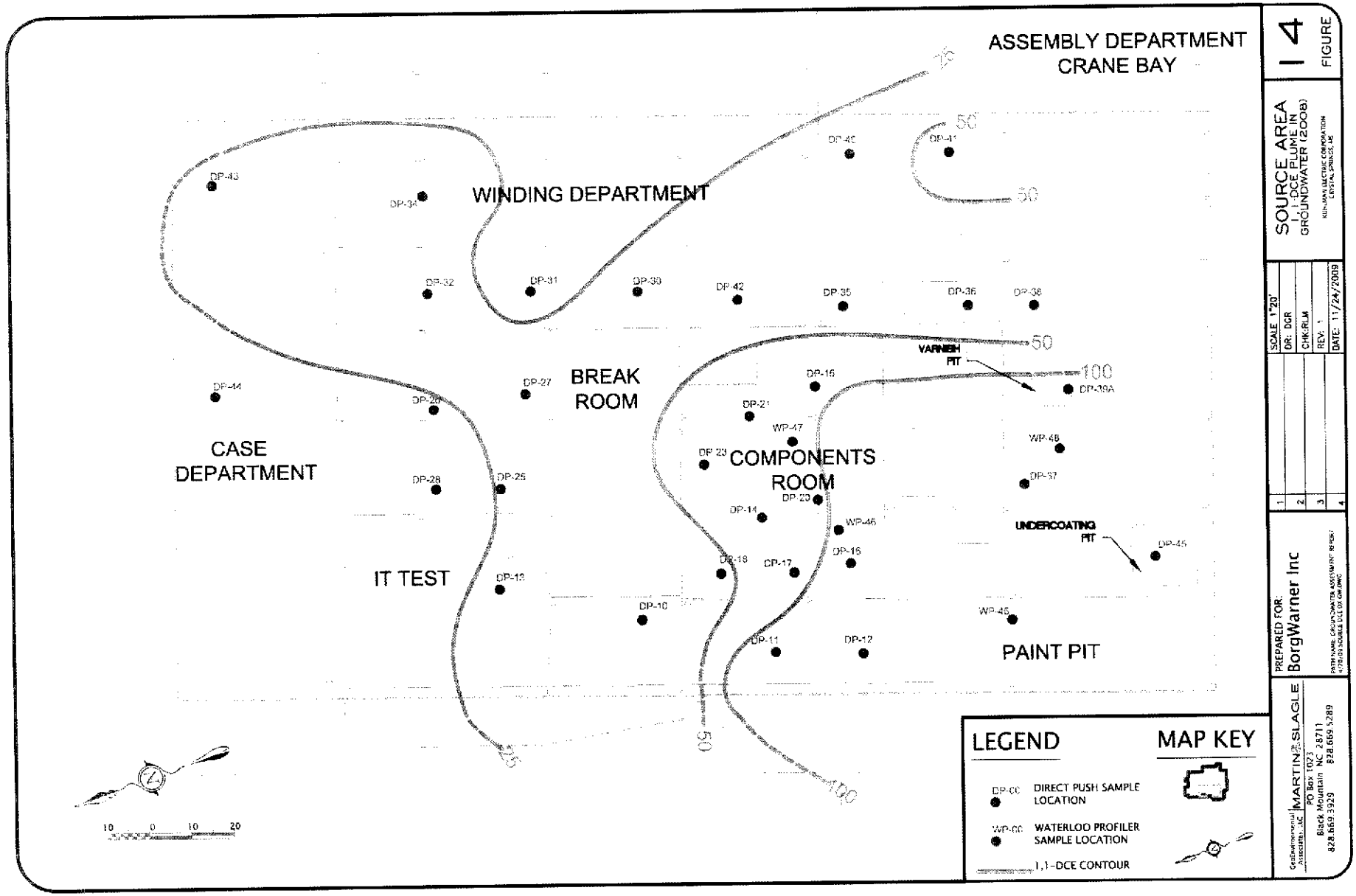


FIGURE 4

SOURCE AREA 1,1-DCE PLUME IN GROUNDWATER (2008)

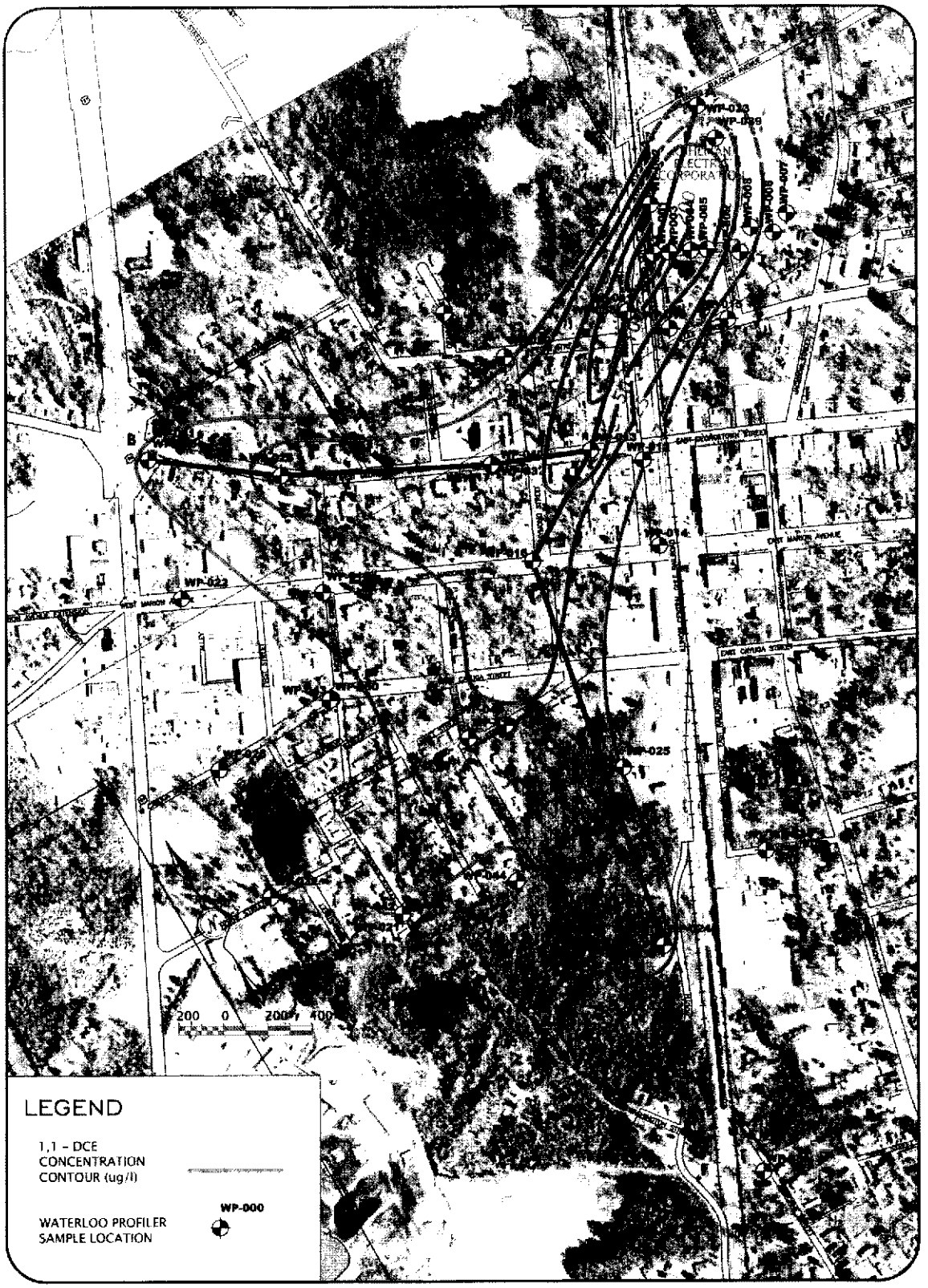
KUHLMAN ELECTRIC CORPORATION CRYSTAL SPRINGS, MS

SCALE	1"=20'
DR:	DGR
CHK:	RLM
REV:	1
DATE:	11/24/2009

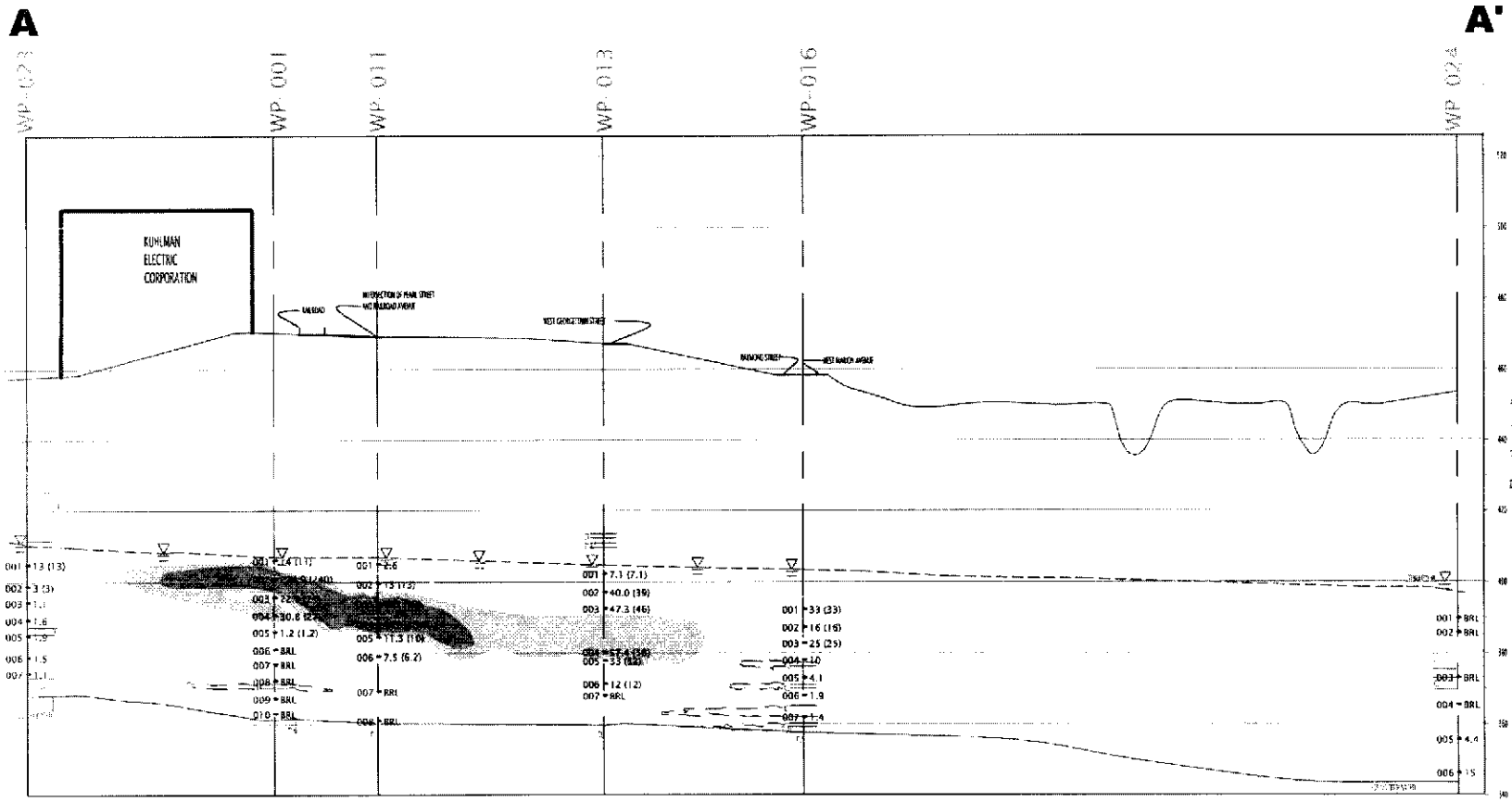
PREPARED FOR: BorgWarner Inc

PATH NAME: GROUNDWATER ASSESSMENT REPORT 4/28/10 SOURCE DLL DS GR.DWG

GeoEnvironmental Associates, LLC
MARTIN & SLAGLE
PO Box 1023
Black Mountain NC 28711
828.669.3929 828.669.3289



GeoEnvironmental Associates, LLC MARTIN SLAGLE PO Box 1023 Black Mountain NC 28711 828.669.3929 828.669.5289	PREPARED FOR: **BorgWarner Inc** DRAWING NAME: GROUNDWATER ASSESSMENT 4-20-2009\F16.DWG	SOURCES: 2005 AERIAL PHOTOGRAPHY COPIAH COUNTY, MS TAX ASSESSOR	WATERLOO PROFILER PLUME MAP - 1,1-DCE PLUME 2005 CROSS-SECTION INTERSECTS KUHLMAN ELECTRIC CORPORATION 101 KUHLMAN DRIVE CRYSTAL SPRINGS, MS	SCALE 1":400' DR: DGR CHK: SML REV: 1 DATE: 11/24/09	16 FIGURE



Total VOC's

(1,1-DCE)

Horiz 1"=100'
Vert 1"=20'

LEGEND

200-
100-200
50-100
25-50
7-25
(ug/l)

001 = 14.5 (13) — 1,1-DCE
SAMPLE NUMBER
Total VOCs

(x) 1,1-DCE unless otherwise noted.

BRL=BELOW REPORTING LIMIT

Clay Layer

FIGURE 17

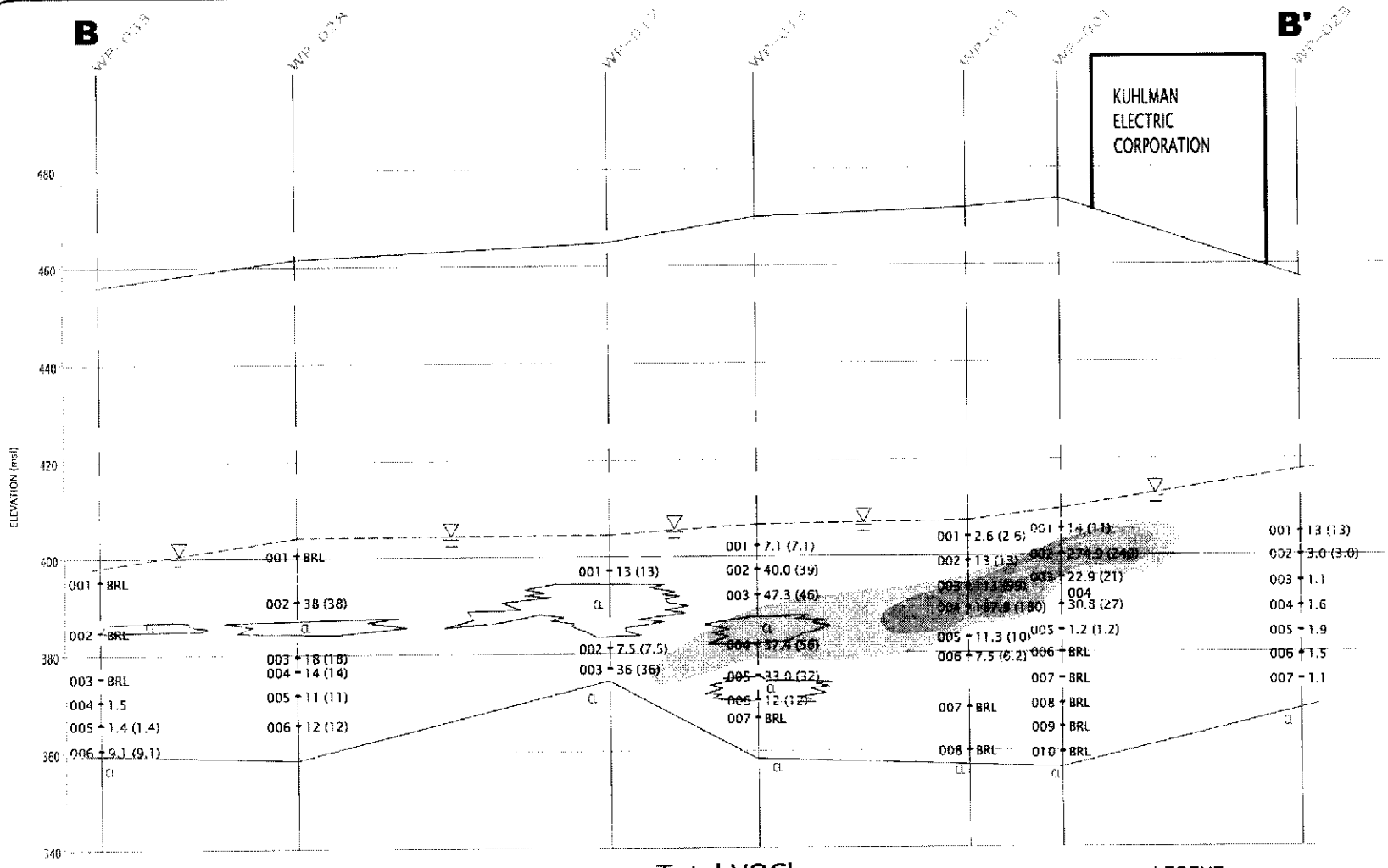
STUDY AREA
WATERLOO PROFILE
CROSS-SECTION A-A'
2005
KUHLMAN ELECTRIC CORPORATION
CRYSTAL SPRINGS, MS

SCALE: AS NOTED
DR: DGR
CHK: RLM
REV: 1
DATE: 11/24/09

PREPARED FOR:
BorgWarner Inc.

FILE NAME: GROUNDWATER ASSESSMENT REPORT (1)
REV1.DWG

GeoEnvironmental Associates LLC
MARTIN SLAGLE
PO Box 1023
Black Mountain NC 28711
828.669.3929 828.669.5289



Total VOC's

(1,1-DCE)

Horiz 1"=300'
Vert 1"=20'

LEGEND

200+
100-200
50-100
25-50
7-25
(ug/l)

001 - 14.5 (13) — 1,1-DCE
SAMPLE NUMBER
Total VOCs

CL = CLAY LAYER

(x) = 1,1-DCE unless otherwise noted.
BRL = BELOW REPORTABLE LIMITS

FIGURE 8

STUDY AREA
WATERLOO PROFILE
CROSS-SECTION B-B'
2005
KUHLMAN ELECTRIC CORPORATION
CRYSTAL SPRINGS, MS

SCALE: AS NOTED
DR.: DGR
CHK.: RLM
REV.: 1
DATE: 11/24/09

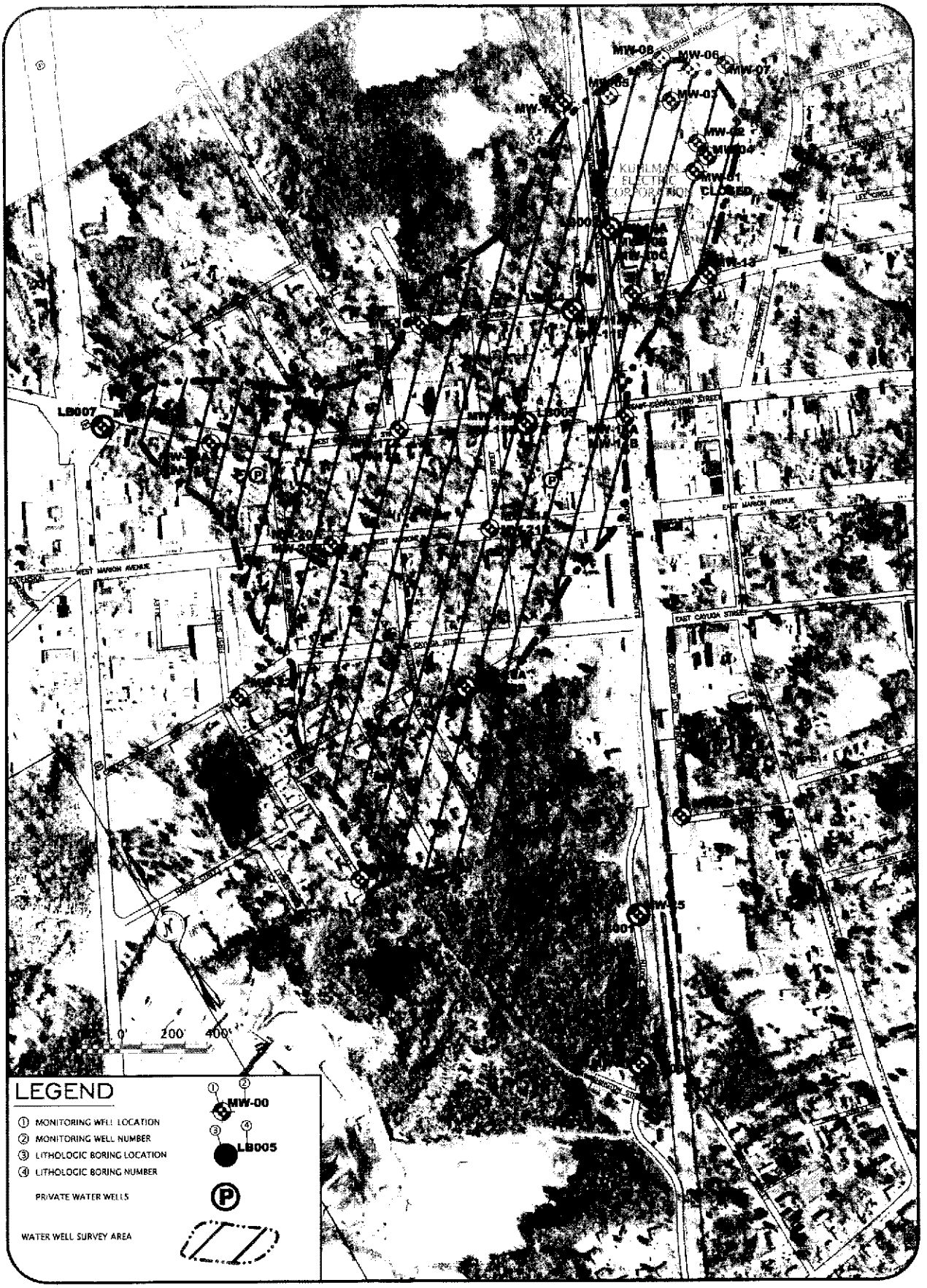
1
2
3
4

PREPARED FOR:
BORGWARNER INC.

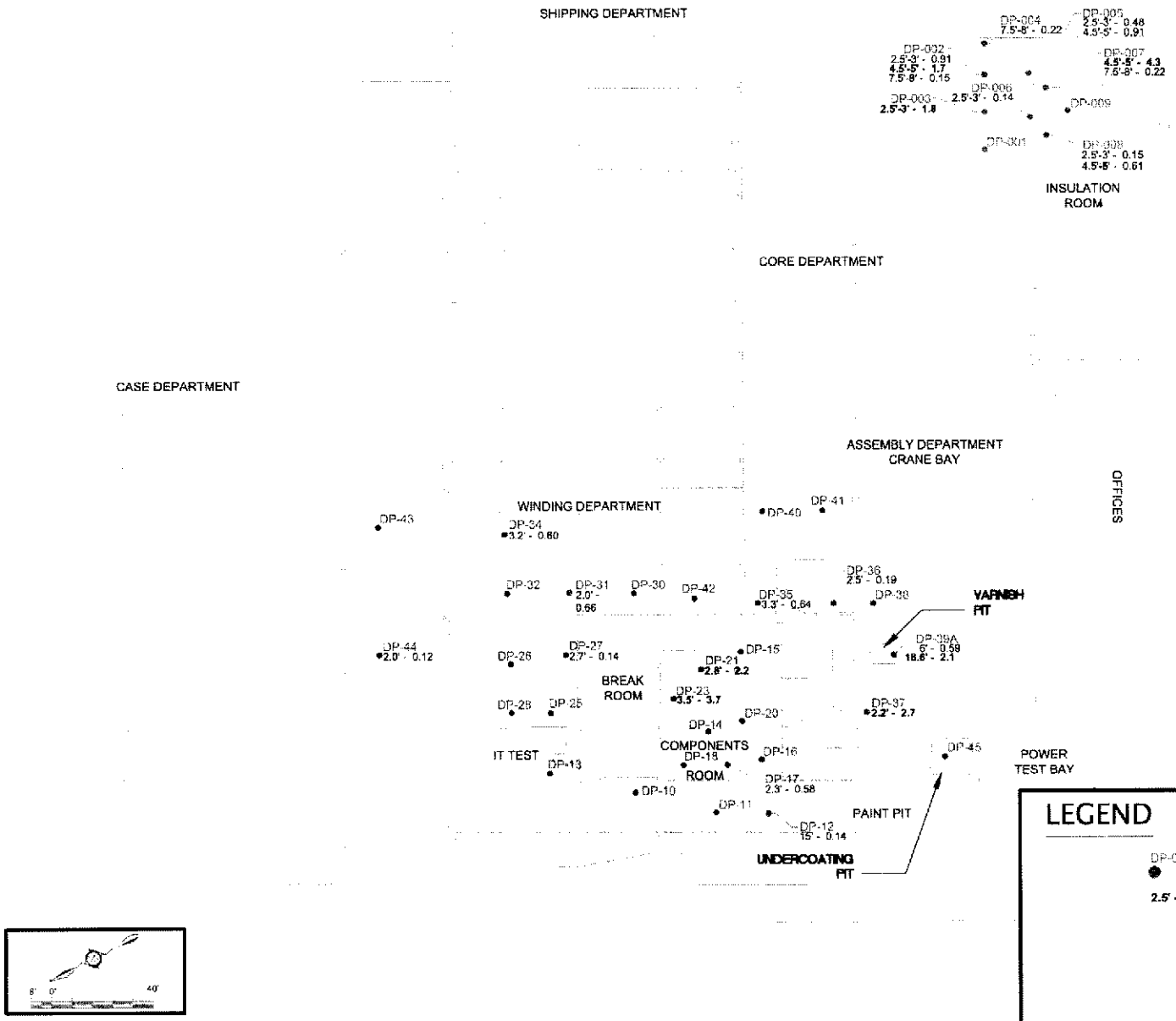
DATA MAPS, GROUNDWATER ASSESSMENT REPORTS IN DWG

GeoEnvironmental Associates, LLC
MARTIN SLAGLE
PO Box 1023
Black Mountain NC 28711
828.669.5289
828.669.3929

GeoEnvironmental Associates, LLC MARTIN & SLAGLE PO Box 1023 Black Mountain NC 28711 828 669 3929 828.669.5289	PREPARED FOR: **BorgWarner Inc.** PATH NAME: GROUNDWATER ASSESSMENT RP1 4-20-09 F18 REV0.DWG	SOURCES: 2005 AERIAL PHOTOGRAPHY COPIAH COUNTY, MS TAX ASSESSOR	STUDY AREA PLUME MAP 1,1-DICHLOROETHENE MARCH 2009 KUHLMAN ELECTRIC CORPORATION 101 KUHLMAN DRIVE CRYSTAL SPRINGS, MS	SCALE 1":400' DR: DGR CHK: RLM REV: 1 DATE: 11/24/09	19 FIGURE



GeoEnvironmental Associates, LLC MARTIN SLAGLE PO Box 1023 Black Mountain NC 28711 828.669.3929 828.669.5289	PREPARED FOR: **BorgWarner, Inc.** DRAWING NAME: GROUNDWATER ASSESMENT REPORT\ REPONSE TO COMMENTS\ FIG21_FINAL.DWG	SOURCES: 2005 AERIAL PHOTOGRAPHY COPIAH COUNTY, MS TAX ASSESSOR	WATER WELL SURVEY MAP KUHLMAN ELECTRIC CORPORATION 101 KUHLMAN DRIVE CRYSTAL SPRINGS, MS	SCALE 1":400' DR: KH CHK: RLM REV: 0 DATE: 11/30/09	**21** **FIGURE**



22 FIGURE

SOURCE AREA
PCB CONCENTRATIONS IN SOIL

BORGWARNER ELECTRIC CORPORATION
CRYSTAL SPRINGS, MS

SCALE 1" = 40'
DR: DGR
CHK:RLM
REV: 0
DATE 11/24/2009

PREPARED FOR:
BorgWarner Inc.

FILE NAME: E:\DESIGN\FIELD ASSESSMENT
PLOT DATE: 11/24/09 3:14 TIME

Environmental Associates, LLC
MARTIN SLAGLE
PO Box 1023
Black Mountain NC 28711
828.669.3929 828.669.5289

Log of Borehole: KEP-DP-010

Project No.: BW05-01

Project: Source Area Sampling

Project Manager: Robert Martin

Client: BorgWarner Inc.

Location: Crystal Springs, MS

Geologist: Robert Martin

Martin & Slagle GeoEnvironmental Associates, LLC
118F Cherry Street
Black Mountain, NC 28711

SUBSURFACE PROFILE

GW Depth	Depth	Lithology	Description	Depth/Elev.	USCS Class	Sample	PID (ppm)	Comments
			Ground Surface	469.4				
	0		**Brown silty clay (fill)**	0.0	CL	KEP-DP-010-001	20	
	2							
	4							
	6					KEP-DP-010-002	1.5	
	8			461.4				
			Brown clayey fine sandy gravel	8.0	GP	KEP-DP-010-003	24	
	10							
	12							
	14			455.0		KEP-DP-010-004	186	
			Brown clayey fine sandy gravel becomes clayey fine sand	14.4	SC			
	16			453.4				
			Light brown clayey fine sandy gravel	16.0	GP	KEP-DP-010-005	52	
	18							
	20			449.4				
				20.0				

Drilled By: Walker-Hill Environmental, Inc.

Hole Size: 2.25"

Drill Method: Direct Push

Drill Date: 4/26/2007

Sheet: 1 of 4

Log of Borehole: KEP-DP-010

Project No.: BW05-01

Project: Source Area Sampling

Project Manager: Robert Martin

Client: BorgWarner Inc.

Location: Crystal Springs, MS

Geologist: Robert Martin

Martin & Slagle GeoEnvironmental Associates, LLC
118F Cherry Street
Black Mountain, NC 28711

SUBSURFACE PROFILE

GW Depth	Depth	Lithology	Description	Depth/Elev.	USCS Class	Sample	PID (ppm)	Comments
	22		**Light brown silty fine sand with gravel**	446.9	SM			
			Red plastic clay	22.5	CH			
	24		**Light brown, orange silty fine sand**	444.7	SM	KEP-DP-010-006	49	
			Red, orange plastic clay	24.7	CH			
	26			442.9				
			Orange, yellow fine sandy gravel	26.5	GP	KEP-DP-010-007	76	
	28			441.4				
			Tan slightly silty fine sand	28.0				
	30							
	32				SM	KEP-DP-010-008	5.9	
	34					KEP-DP-010-009	38	
	36			433.4				
			Gray to beige sand with gravel at 39.2"	36.0				
	38				SP			
						KEP-DP-010-010		
	40			429.4			11.6	
				40.0				

Drilled By: Walker-Hill Environmental, Inc.

Hole Size: 2.25"

Drill Method: Direct Push

Drill Date: 4/26/2007

Sheet: 2 of 4

Log of Borehole: KEP-DP-010

Project No.: BW05-01

Project: Source Area Sampling

Project Manager: Robert Martin

Client: BorgWarner Inc.

Location: Crystal Springs, MS

Geologist: Robert Martin

Martin & Slagle GeoEnvironmental Associates, LLC
118F Cherry Street
Black Mountain, NC 28711

SUBSURFACE PROFILE

GW Depth	Depth	Lithology	Description	Depth/Elev.	USCS Class	Sample	PID (ppm)	Comments
			Gray, orange mottled silty fine sand	427.4	SM	KEP-DP-010-011	23.7	
	42		**Gray, orange gravelly fine sand**	42.0 / 425.4	SP			
	44		**Gray, pink slightly silty fine sand**	44.0	SM	KEP-DP-010-012	6.3	Some iron staining
	46							
	48							
	50							Some iron staining
	52					KEP-DP-010-013	34	
	54			414.4				
			Pink clayey fine sand	55.0 / 413.4	SC	KEP-DP-010-014	12.7	
	56		**Pink to tan fine sand**	56.0	SP			
	58					KEP-DP-010-015	6.7	
	60			409.4 / 60.0				

Drilled By: Walker-Hill Environmental, Inc.

Hole Size: 2.25"

Drill Method: Direct Push

Drill Date: 4/26/2007

Sheet: 3 of 4

Log of Borehole: KEP-DP-010

Project No.: BW05-01

Project: Source Area Sampling

Project Manager: Robert Martin

Client: BorgWarner Inc.

Location: Crystal Springs, MS

Geologist: Robert Martin

Martin & Slagle GeoEnvironmental Associates, LLC
118F Cherry Street
Black Mountain, NC 28711

SUBSURFACE PROFILE

GW Depth	Depth	Lithology	Description	Depth/Elev.	USCS Class	Sample	PID (ppm)	Comments
			Pink fine to medium sand with gravel		SP	KEP-DP-010-016	3.9	
	62							
	64							
	66							
	68		**Boring terminated**	401.4 68.0				
	70							
	72							
	74							
	76							
	78							
	80							

Drilled By: Walker-Hill Environmental, Inc.

Hole Size: 2.25"

Drill Method: Direct Push

Drill Date: 4/26/2007

Sheet: 4 of 4

Log of Borehole: KEP-DP-020

Project No.: BW05-01

Project: Groundwater Assessment **Project Manager:** Robert Martin

Client: BorgWarner Inc

Location: Kuhlman Electric Plant **Geologist:** Robert Martin

Martin & Slagle GeoEnvironmental Associates, LLC
118F Cherry Street
Black Mountain, NC 28711

SUBSURFACE PROFILE

GW Depth	Depth	Lithology	Description	Depth/Elev.	USCS Class	Sample	PID (ppm)	Comments
			Ground Surface	469.4				
	0		**Brown, red silty fine sand**	0.0	SM	KEP-DP-020-001	101	
	2							
	4		**Brown silty clay**	465.4 / 4.0	CL	KEP-DP-020-002	42	
	6							
	8		**Red, brown to brown clayey fine sandy gravel**	461.4 / 8.0	GP	KEP-DP-020-003	121	Strong acetic acid odor
	10							
	12							Strong acetic acid odor
	14		**Brown fine sand**	455.4 / 14.0	SP	KEP-DP-020-004	191	
	16							Strong acetic acid odor
	18					KEP-DP-020-005	426	
			Brown, red fine sand with gravel	450.9 / 18.5	SP			
	20			449.9 / 19.5				Strong acetic acid odor

Drilled By: Walker-Hill Environmental, Inc. **Hole Size:** 2.25"

Drill Method: Direct Push

Drill Date: 4/23/2007 & 4/24/2007 **Sheet:** 1 of 4

Log of Borehole: KEP-DP-020

Project No.: BW05-01

Project: Groundwater Assessment **Project Manager:** Robert Martin

Client: BorgWarner Inc

Location: Kuhlman Electric Plant **Geologist:** Robert Martin

Martin & Slagle GeoEnvironmental Associates, LLC
118F Cherry Street
Black Mountain, NC 28711

SUBSURFACE PROFILE

GW Depth	Depth	Lithology	Description	Depth/Elev.	USCS Class	Sample	PID (ppm)	Comments
			Brown fine sand					
	22		**Yellow, brown silty fine sand with gravel**	446.1	SM	KEP-DP-020-006	250	
	24		**Yellow, brown fine sandy gravel**	23.3 / 443.6	GP	KEP-DP-020-007	178	Strong acetic acid odor
	26		**Yellow, brown slightly silty fine sand**	25.8	SM			
	28							Strong acetic acid odor
	30					KEP-DP-020-008	63	
	32		**Brown and white silty and clayey fine sand**	437.4 / 32.0	SM			Strong acetic acid odor
	34					KEP-DP-020-009	189	
	36		**Gray, white to light brown silty fine Sand; grades to gray, white to light brown, silty fine Sand w/gravel**	433.4 / 36.0	SM			Slight odor
	38							
	40			429.4 / 40.0		KEP-DP-020-010	61	Slight odor

Drilled By: Walker-Hill Environmental, Inc. **Hole Size:** 2.25"

Drill Method: Direct Push

Drill Date: 4/23/2007 & 4/24/2007 **Sheet:** 2 of 4

Log of Borehole: KEP-DP-020

Project No.: BW05-01

Project: Groundwater Assessment **Project Manager:** Robert Martin

Client: BorgWarner Inc

Location: Kuhlman Electric Plant **Geologist:** Robert Martin

Martin & Slagle GeoEnvironmental Associates, LLC
118F Cherry Street
Black Mountain, NC 28711

SUBSURFACE PROFILE

GW Depth	Depth	Lithology	Description	Depth/Elev.	USCS Class	Sample	PID (ppm)	Comments
	42		**Orange to pink gravelly fine sand**		SP	KEP-DP-020-011	67	
	44		**Pink to white silty fine sand**	425.4 44.0	SM			Slight odor
	46					KEP-DP-020-012	54	
	48					KEP-DP-020-013	59	Slight odor
	50							Iron staining
	52		**Gray, white pink clayey fine sand, moist**	417.4 52.0	SC			Slight odor
	54					KEP-DP-020-014	50	
	56		**Pink to tan slightly silty fine sand, moist**	413.4 56.0	SM			
	58					KEP-DP-020-015	59	
	60			409.2 60.2				

Drilled By: Walker-Hill Environmental, Inc. **Hole Size:** 2.25"

Drill Method: Direct Push

Drill Date: 4/23/2007 & 4/24/2007 **Sheet:** 3 of 4

Log of Borehole: KEP-DP-020

Martin & Slagle GeoEnvironmental Associates, LLC
118F Cherry Street
Black Mountain, NC 28711

Project No.: BW06-01

Project: Groundwater Assessment

Project Manager: Robert Martin

Client: BorgWarner Inc

Location: Kuhlman Electric Plant

Geologist: Robert Martin

SUBSURFACE PROFILE

GW Depth	Depth	Lithology	Description	Depth/Elev.	USCS Class	Sample	PID (ppm)	Comments
			Pink and tan silty fine sand with some gravel			KEP-DP-020-016	57	
	62							
	64				SM			
	66							
				401.4		KEP-GWP-020-001		
	68		**Boring terminated**	68.0				
	70							
	72							
	74							
	76							
	78							
	80							

Drilled By: Walker-Hill Environmental, Inc.

Hole Size: 2.25"

Drill Method: Direct Push

Drill Date: 4/23/2007 & 4/24/2007

Sheet: 4 of 4

Log of Borehole: KEP-DP-023

Project No.: BW05-01

Project: Groundwater Assessment **Project Manager:** Robert Martin

Client: BorgWarner Inc

Location: Kuhlman Electric Plant **Geologist:** Robert Martin

Martin & Slagle GeoEnvironmental Associates, LLC
118F Cherry Street
Black Mountain, NC 28711

SUBSURFACE PROFILE

GW Depth	Depth	Lithology	Description	Depth/Elev.	USCS Class	Sample	PID (ppm)	Comments
			Ground Surface	469.4				
	0		**Brown silty clay**	0.0				
	2							Visible dark staining
	4				CL	KEP-DP-023-001	54.7	
	6					KEP-DP-023-002	140	
	8			461.4				
			Tan, brown fine sandy gravel	8.0				
	10					KEP-DP-023-003	246	
	12				GP			
	14			454.4				
			Brown to fine medium sand	15.0		KEP-DP-023-004	419	
	16			452.6	SP			
			Red clay lense	16.8 / 451.6	CH			
	18		**Brown Coarse gravel**	17.8	GP	KEP-DP-023-005	298	
			Brown fine sand with gravel	449.4	SP			
	20			20.0				

Drilled By: Walker-Hill Environmental, Inc. **Hole Size:** 2.25"

Drill Method: Direct Push

Drill Date: 4/20/2007 **Sheet:** 1 of 4

Log of Borehole: KEP-DP-023

Project No.: BW05-01

Project: Groundwater Assessment **Project Manager:** Robert Martin

Client: BorgWarner Inc

Location: Kuhlman Electric Plant **Geologist:** Robert Martin

Martin & Slagle GeoEnvironmental Associates, LLC
118F Cherry Street
Black Mountain, NC 28711

SUBSURFACE PROFILE

GW Depth	Depth	Lithology	Description	Depth/Elev.	USCS Class	Sample	PID (ppm)	Comments
			Tan fine sandy gravel	447.8	GP	KEP-DP-023-006	770	
	22		**Red clay**	21.6 / 446.9	CH			
			Tan fine sand to red, brown fine to medium sand	22.5 / 444.9	SP			
	24		**Red, brown clay**	24.5	CH	KEP-DP-023-007	6.8	
	26		**Brown to tan medium sand**	441.4	SP	KEP-DP-023-008	236	
	28		**Tan to beige fine sand with gravel**	28.0				
	30					KEP-DP-023-009	111	
	32		**Beige to tan fine sand**	437.4 / 32.0				
	34					KEP-DP-023-010	108	
	36				SP			
	38					KEP-DP-023-011	9	
	40			429.6 / 39.8				

Drilled By: Walker-Hill Environmental, Inc. **Hole Size:** 2.25"

Drill Method: Direct Push

Drill Date: 4/20/2007 **Sheet:** 2 of 4

Log of Borehole: KEP-DP-023

Project No.: BW05-01

Project: Groundwater Assessment **Project Manager:** Robert Martin

Client: BorgWarner Inc

Location: Kuhlman Electric Plant **Geologist:** Robert Martin

Martin & Slagle GeoEnvironmental Associates, LLC
118F Cherry Street
Black Mountain, NC 28711

SUBSURFACE PROFILE

GW Depth	Depth	Lithology	Description	Depth/Elev.	USCS Class	Sample	PID (ppm)	Comments
			Tan, pink, gray, white fine sand with gravel					
	42				SP			
						KEP-DP-023-012	57	
	44			425.4 / 44.0				
			Pink fine sand, moist					
						KEP-DP-023-013	74	
	46							
	48							Iron staining
	50							
						KEP-DP-023-014	40	
	52				SP			
	54							
						KEP-DP-023-015	53	
	56							
	58							
						KEP-DP-023-016	24	
	60			409.4 / 60.0				

Drilled By: Walker-Hill Environmental, Inc. **Hole Size:** 2.25"

Drill Method: Direct Push

Drill Date: 4/20/2007 **Sheet:** 3 of 4

Log of Borehole: KEP-DP-023

Project No.: BW05-01

Project: Groundwater Assessment **Project Manager:** Robert Martin

Client: BorgWarner Inc

Location: Kuhlman Electric Plant **Geologist:** Robert Martin

Martin & Slagle GeoEnvironmental Associates, LLC
118F Cherry Street
Black Mountain, NC 28711

SUBSURFACE PROFILE

GW Depth	Depth	Lithology	Description	Depth/Elev.	USCS Class	Sample	PID (ppm)	Comments
▼			**Pink to tan fine sand with gravel**					
	62							
	64				SP			
	66							
				401.4		KEP-GW-023-001		
	68		**Boring terminated**	68.0				
	70							
	72							
	74							
	76							
	78							
	80							

Drilled By: Walker-Hill Environmental, Inc. **Hole Size:** 2.25"

Drill Method: Direct Push

Drill Date: 4/20/2007 **Sheet:** 4 of 4

Log of Borehole: KEP-DP-031

Project No.: BW05-01

Project: Groundwater Assessment

Project Manager: Robert Martin

Client: BorgWarner Inc

Location: Kuhlman Electric Plant

Geologist: Robert Martin

Martin & Slagle GeoEnvironmental Associates, LLC
118F Cherry Street
Black Mountain, NC 28711

SUBSURFACE PROFILE

GW Depth	Depth	Lithology	Description	Depth/Elev.	USCS Class	Sample	PID (ppm)	Comments
	0		**Ground Surface**	469.4				
			Brown fine sandy silty clay (fill)	0.0				
	2					KEP-DP-031-001	17	
	4		**Red, brown sandy silty clay**	465.4 / 4.0	CL			
	6							
	8			461.4		KEP-DP-031-002	2.5	
			Light brown fine sandy clay gravel	8.0				
	10					KEP-DP-031-003	8.4	
	12		**Light brown clayey fine sandy gravel**	457.4 / 12.0	GC			
	14			454.4				
			Red, brown fine sand becomes brown fine sand at 16'	15.0	SP			
	16					KEP-DP-031-004	4.7	
	18			451.1		KEP-DP-031-005	47	
			Brown gravel	18.3 / 450.0	GP			
	20		**Orange, brown fine sand**	19.4	SP			

Drilled By: Walker-Hill Environmental, Inc.

Hole Size: 2.25"

Drill Method: Direct Push

Drill Date: 04/22/2007

Sheet: 1 of 4

Log of Borehole: KEP-DP-031

Project No.: BW05-01

Project: Groundwater Assessment **Project Manager:** Robert Martin

Client: BorgWarner Inc

Location: Kuhlman Electric Plant **Geologist:** Robert Martin

Martin & Slagle GeoEnvironmental Associates, LLC
118F Cherry Street
Black Mountain, NC 28711

SUBSURFACE PROFILE

GW Depth	Depth	Lithology	Description	Depth/Elev.	USCS Class	Sample	PID (ppm)	Comments
			Orange, brown slightly silty fine sand	447.4	SM			
	22		**Red plastic clay**	22.0	CH			
			Orange, brown slightly silty fine sand	445.4	SM	KEP-DP-031-006	226	
	24		**Orange, brown fine sand**	24.0 444.4	SP			
			Red plastic clay	25.0 442.4	CH			
	26							
			Tan, white gravelly fine sand becomes orange, tan fine to medium sand at 28'	27.0 437.4	SP	KEP-DP-031-007	52	
	28							
	30							
	32		**Tan fine to coarse sand with gravel at 35.5', moist**	32.0 433.4	SP	KEP-DP-031-008	62	
	34					KEP-DP-031-009	143	
	36		**Beige, tan slightly silty fine sand, moist**	36.0 431.4	SM			
	38		**Beige, tan fine sandy gravel, moist**	38.0 429.4	GP	KEP-DP-031-010	64	
	40			40.0				

Drilled By: Walker-Hill Environmental, Inc. **Hole Size:** 2.25"

Drill Method: Direct Push

Drill Date: 04/22/2007 **Sheet:** 2 of 4

Log of Borehole: KEP-DP-031

Project No.: BW05-01

Project: Groundwater Assessment **Project Manager:** Robert Martin

Client: BorgWarner Inc

Location: Kuhlman Electric Plant **Geologist:** Robert Martin

Martin & Slagle GeoEnvironmental Associates, LLC
118F Cherry Street
Black Mountain, NC 28711

SUBSURFACE PROFILE

GW Depth	Depth	Lithology	Description	Depth/Elev.	USCS Class	Sample	PID (ppm)	Comments
			Orange, tan fine sand	428.4	SP			
			Pink, orange sandy gravel	41.0	GP	KEP-DP-031-011	27	
	42			426.4				
			Beige slightly silty fine sand	43.0	SM			
	44							
	46					KEP-DP-031-012	36	
	48							
						KEP-DP-031-013	27	
	50							
	52			417.4				
			White, pink fine sand with gravel	52.0	SP			
	54					KEP-DP-031-014	38	
	56			413.4				
			Brown, orange fine sandy gravel	56.0	GP			
	58			411.4				
			Pink, orange fine sand	58.0	SP			
			Brown gravel		GP	KEP-DP-031-015	54	
	60			409.4				
				60.0				

Drilled By: Walker-Hill Environmental, Inc. **Hole Size:** 2.25"

Drill Method: Direct Push

Drill Date: 04/22/2007 **Sheet:** 3 of 4

Log of Borehole: KEP-DP-031

Project No.: BW05-01

Project: Groundwater Assessment

Project Manager: Robert Martin

Client: BorgWarner Inc

Location: Kuhlman Electric Plant

Geologist: Robert Martin

Martin & Slagle GeoEnvironmental Associates, LLC
118F Cherry Street
Black Mountain, NC 28711

SUBSURFACE PROFILE

GW Depth	Depth	Lithology	Description	Depth/Elev.	USCS Class	Sample	PID (ppm)	Comments
	62		**Tan, white, pink silty fine sand**		SM	KEP-DP-031-016	26	
	64		**No Recovery**	405.4 64.0				
	66							
	68		**Boring terminated**	401.4 68.0		KEP-GWP-031-001		
	70							
	72							
	74							
	76							
	78							
	80							

Drilled By: Walker-Hill Environmental, Inc.

Hole Size: 2.25"

Drill Method: Direct Push

Drill Date: 04/22/2007

Sheet: 4 of 4

Log of Borehole: KEP-DP-034

Project No.: BW05-01

Project: Groundwater Assessment **Project Manager:** Robert Martin

Client: BorgWarner Inc

Location: Kuhlman Electric Plant **Geologist:** Robert Martin

Martin & Slagle GeoEnvironmental Associates, LLC
118F Cherry Street
Black Mountain, NC 28711

SUBSURFACE PROFILE

GW Depth	Depth	Lithology	Description	Depth/Elev.	USCS Class	Sample	PID (ppm)	Comments
			Ground Surface	469.4				
	0		**Brown, black silty clay with coal and debris (fill)**	0.0	CL			
	2							
						KEP-DP-034-001	7.3	
	4							
	6					KEP-DP-034-002	1.5	
	8							
	10			458.7				
			Tan fine sandy gravel	10.7	GP	KEP-DP-034-003	14	
				457.4				
	12		**Dense, light brown clayey fine sandy gravel**	12.0	GC			
	14					KEP-DP-034-004	2.5	
				453.4				
	16		**Dense, brown hard silty fine sand with gravel**	16.0	SM			
	18					KEP-DP-034-005	72.9	
	20							

Drilled By: Walker-Hill Environmental, Inc. **Hole Size:** 2.25"

Drill Method: Direct Push

Drill Date: 4/21/07 **Sheet:** 1 of 4

Log of Borehole: KEP-DP-034

Project No.: BW05-01

Project: Groundwater Assessment **Project Manager:** Robert Martin

Client: BorgWarner Inc

Location: Kuhlman Electric Plant **Geologist:** Robert Martin

Martin & Slagle GeoEnvironmental Associates, LLC
118F Cherry Street
Black Mountain, NC 28711

SUBSURFACE PROFILE

GW Depth	Depth	Lithology	Description	Depth/Elev.	USCS Class	Sample	PID (ppm)	Comments
	22				SM	KEP-DP-034-006	65.9	
				445.4				
	24		**Light brown fine sand**	24.0	SP			
				443.4				
	26		**Red clay**	26.0	CH	KEP-DP-034-007	10.2	
				442.1				
			Brown fine sandy gravel	27.3	GP			
	28		**Red plastic clay**		CH			
				439.6				
	30		**Light brown clayey fine sand**	29.8	SC	KEP-DP-034-008	71	
				438.6				
			Tan very fine sandy gravel	30.8	GP			
				437.4				
	32		**Beige to tan slightly silty fine sand with gravel**	32.0	SM			
	34					KEP-DP-034-009	198	
	36							
	38							
				430.4				
			Tan silty fine sand, moist	39.0				
				429.4				
	40			40.0		KEP-DP-034-010	9.3	

Drilled By: Walker-Hill Environmental, Inc. **Hole Size:** 2.25"

Drill Method: Direct Push

Drill Date: 4/21/07 **Sheet:** 2 of 4

Log of Borehole: KEP-DP-034

Project No.: BW05-01

Project: Groundwater Assessment

Project Manager: Robert Martin

Client: BorgWarner Inc

Location: Kuhlman Electric Plant

Geologist: Robert Martin

Martin & Slagle GeoEnvironmental Associates, LLC
118F Cherry Street
Black Mountain, NC 28711

SUBSURFACE PROFILE

GW Depth	Depth	Lithology	Description	Depth/Elev.	USCS Class	Sample	PID (ppm)	Comments
			White, tan fine sand with gravel		SP	KEP-DP-034-010		
	42							
	44			425.4		KEP-DP-034-011	27.5	Iron Staining
			White, tan, orange slightly silty fine sand	44.0	SM			
	46							
	48					KEP-DP-034-012	13.7	
	50					KEP-DP-034-013	37	
	52			417.4				
			White, gray fine sand with gravel	52.0	SP			Iron Staining
	54					KEP-DP-034-014	48	
	56			413.4				
			White, pink orange fine sandy gravel and gravelly fine sand	56.0	GP/ SP			
	58					KEP-DP-034-015	10	
	60			409.4				
				60.0				

Drilled By: Walker-Hill Environmental, Inc.

Hole Size: 2.25"

Drill Method: Direct Push

Drill Date: 4/21/07

Sheet: 3 of 4

Log of Borehole: KEP-DP-034

Project No.: BW05-01

Project: Groundwater Assessment

Project Manager: Robert Martin

Client: BorgWarner Inc

Location: Kuhlman Electric Plant

Geologist: Robert Martin

Martin & Slagle GeoEnvironmental Associates, LLC
118F Cherry Street
Black Mountain, NC 28711

SUBSURFACE PROFILE

GW Depth	Depth	Lithology	Description	Depth/Elev.	USCS Class	Sample	PID (ppm)	Comments
			No recovery					No recovery from 60' to 68'. Depth of Groundwater could not be determined.
	62							
	64							
	66							
				401.4		KEP-GWP-032-001		
	68		Boring terminated	68.0				
	70							
	72							
	74							
	76							
	78							
	80							

Drilled By: Walker-Hill Environmental, Inc.

Hole Size: 2.25"

Drill Method: Direct Push

Drill Date: 4/21/07

Sheet: 4 of 4

Log of Borehole: LB001

Project No.: BW05-01

Project: Groundwater Assessment

Project Manager: Robert Martin

Client: BorgWarner Inc.

Location: Crystal Springs, MS

Boring Logged By: LB001

Martin & Slagle
GeoEnvironmental Associates, LLC
118F Cherry Street

SUBSURFACE PROFILE

GW Depth	Depth	Lithology	Description	Depth/Elev.	Unified Soil Class.	Comments
			Ground Surface	451.4		
	0			0.0		
			Light brown Sand, silty with orange streaks and some subangular gravel		SM	
	2			448.9 / 2.5		
				447.4		
	4		**Light orange Clay, sandy, soft**	4.0	CL	
			Light brown, light orange Sand, clayey, silty with fine subangular gravel	445.6 / 5.8	SM	
	6					
				443.4		
	8		**Orange sandy Clay w/few fine gravels**	8.0	CL	
			Reddish orange, clayey Gravel		GC	
	10					
				439.4		
	12		**No recovery**	12.0		
	14					
				435.4		
	16		**Orange to reddish sand, silty; few small subrounded to subangular gravel, moist**	16.0	SM	
	18					
	20					

Drilled By: Walker-Hill Environmental, Inc.

Hole Size: 2.25"

Drill Method: Direct Push

Drill Date: 9/4/2007

Sheet: 1 of 6

Log of Borehole: LB001

Project No.: BW05-01

Project: Groundwater Assessment

Project Manager: Robert Martin

Client: BorgWarner Inc.

Location: Crystal Springs, MS

Boring Logged By: LB001

Martin & Slagle
GeoEnvironmental Associates, LLC
118F Cherry Street

SUBSURFACE PROFILE

GW Depth	Depth	Lithology	Description	Depth/Elev.	Unified Soil Class.	Comments
				430.6	SM	
	22		Purple, red-brown mottling, silty, sandy Clay; soft	20.8	CL	
				427.7	SP	
	24		Purplish red, fine Sand	23.7	CH	
			Tan clay, soft			
	26		Purple and light brown, silty fine Sand with a few thin clay streaks (<1')		SM	
	28			423.2		
			Purple and brown clay	28.2	CH	
				421.6		
	30		Light yellowish brown sand with yellow streaks; Fine grain, silty clayey	29.8	SM	
	32			418.4		
			Purple clay, soft	33.0	CH	
	34		No recovery			
				415.4		
	36		Light brown and orange sand; fine grain, silty	36.0	SM	
	38					
				411.4		
	40			40.0		

Drilled By: Walker-Hill Environmental, Inc.

Hole Size: 2.25"

Drill Method: Direct Push

Drill Date: 9/4/2007

Sheet: 2 of 6

Log of Borehole: LB001

Project No.: BW05-01

Project: Groundwater Assessment

Project Manager: Robert Martin

Client: BorgWarner Inc.

Location: Crystal Springs, MS

Boring Logged By: LB001

Martin & Slagle
GeoEnvironmental Associates, LLC
118F Cherry Street

SUBSURFACE PROFILE

GW Depth	Depth	Lithology	Description	Depth/Elev.	Unified Soil Class.	Comments
	42		**Light yellowish brown to white sand. Yellowish brown sand is medium grain and white sand is coarse with a few subangular gravel, well graded**			
	44				SW	
	46					
	48			403.4 48.0	SP	
			Yellowish, light brown and white sand, medium grain; White sand has few subangular fine gravel		CH	
	50		**Yellow clay, soft**			
	52		**Yellowish, light brown and white sand, medium grain; White sand has few subangular fine gravel**	399.4 52.0	SP	
	54		**Light brown to yellowish sand; Wet with abundant angular fine gravel**			
	56		**Light brown sand; Fine grain**	395.4 56.0		
	58					
	60			391.4 60.0		

Drilled By: Walker-Hill Environmental, Inc.

Hole Size: 2.25"

Drill Method: Direct Push

Drill Date: 9/4/2007

Sheet: 3 of 6

Log of Borehole: LB001

Project No.: BW05-01

Project: Groundwater Assessment **Project Manager:** Robert Martin

Client: BorgWarner Inc.

Location: Crystal Springs, MS **Boring Logged By:** LB001

Martin & Slagle GeoEnvironmental Associates, LLC
118F Cherry Street

SUBSURFACE PROFILE

GW Depth	Depth	Lithology	Description	Depth/Elev.	Unified Soil Class.	Comments
	62		**Light brown to orange medium grain sand with a few small dark brown rounded gravels**			Small amount recovered
	64					
	66				SP	Wet
	68					
	70					
	72			379.4		
			Purple and brown clay, soft; Sandy	72.0 / 378.0	CL	
	74		**Light brown to yellow sand, clayey, silty**	73.4 / 375.4	SM	
	76		**Yellow, brown sand; Fine, abundant gravel**	76.0		
	78				SP	50% recovery
	80			371.4 / 80.0		No recovery

Drilled By: Walker-Hill Environmental, Inc. **Hole Size:** 2.25"

Drill Method: Direct Push

Drill Date: 9/4/2007 **Sheet:** 4 of 6

Log of Borehole: LB001

Project No.: BW05-01

Project: Groundwater Assessment

Project Manager: Robert Martin

Client: BorgWarner Inc.

Location: Crystal Springs, MS

Boring Logged By: LB001

Martin & Slagle
GeoEnvironmental Associates, LLC
118F Cherry Street

SUBSURFACE PROFILE

GW Depth	Depth	Lithology	Description	Depth/Elev.	Unified Soil Class.	Comments
			Multicolor, coarse sand	369.7	SP	
	82		**Yellow and pink clay, soft**	81.7	CH	
			Yellowish orange fine sand, silty	367.4	SM	
	84		**Yellowish orange well graded medium to fine sand**	84.0	SW	
	86					
				363.4		Dark brown streaks
	88		**Yellowish orange fine sand**	88.0	SP	
	90					
	92					
	94					
				355.4		
	96		**Light brown medium to coarse well graded sand with abundant subangular gravel**	96.0	SW	
	98			352.9		
			Coarse subangular gravel with coarse light brown sand	98.5	GP	
	100			351.4		
				100.0		

Drilled By: Walker-Hill Environmental, Inc.

Hole Size: 2.25"

Drill Method: Direct Push

Drill Date: 9/4/2007

Log of Borehole: LB001

Project No.: BW05-01

Project: Groundwater Assessment

Project Manager: Robert Martin

Client: BorgWarner Inc.

Location: Crystal Springs, MS

Boring Logged By: LB001

Martin & Slagle
GeoEnvironmental Associates, LLC
118F Cherry Street

SUBSURFACE PROFILE

GW Depth	Depth	Lithology	Description	Depth/Elev.	Unified Soil Class.	Comments
			Multicolor coarse graded sand with few med grain, well graded	350.4	SW	
				101.0		
	102		**Fine grain Sand**		SP	
	104			347.0		
			Light brown and purple Clay, soft	104.4 / 346.0	CH	
				105.4	SC	
	106		**Dark brown sand, fine, clayey**			
			Light gray clay, stiff		CH	
	108			343.4		
			Boring Terminated	108.0		
	110					
	112					
	114					
	116					
	118					
	120					

Drilled By: Walker-Hill Environmental, Inc.

Hole Size: 2.25"

Drill Method: Direct Push

Drill Date: 9/4/2007

Sheet: 6 of 6

Log of Borehole: LB002

Project No.: BW05-01

Project: Groundwater Assessment

Project Manager: Robert Martin

Client: BorgWarner Inc.

Location: Crystal Springs, MS

Boring Logged By: LB002

Martin & Slagle
GeoEnvironmental Associates, LLC
118F Cherry Street

SUBSURFACE PROFILE

GW Depth	Depth	Lithology	Description	Depth/Elev.	Unified Soil Class.	Comments
			Ground Surface	471.2		
	0		**Asphalt**	0.0		
	2		**Light brown to yellowish clay; silty, slightly sandy**	468.7	CL	
			Reddish orange gravel	2.5	GP	
	4		**Light brown clay; silty, sandy, few angular to subangular fine gravel**			
	6				CL	
	8			461.6		
	10		**Light brown and light gray Clay, stiff**	9.6	CH	
	12		**Yellowish orange to light brown to reddish brown to yellowish orange sand; silty, clayey with abundant subangular fine gravel; poorly graded**			
	14				SM	
	16			454.0		
	18		**Light gray and light brown Sand grading to orange to white and light gray, med. grain w/fine to course subangular gravel**	17.2	SP	
	20					

Drilled By: Walker-Hill Environmental, Inc.

Hole Size: 2.25"

Drill Method: Direct Push

Drill Date: 9/6/2007

Sheet: 1 of 5

Log of Borehole: LB002

Project No.: BW05-01

Project: Groundwater Assessment

Project Manager: Robert Martin

Client: BorgWarner Inc.

Location: Crystal Springs, MS

Boring Logged By: LB002

Martin & Slagle GeoEnvironmental Associates, LLC
118F Cherry Street

SUBSURFACE PROFILE

GW Depth	Depth	Lithology	Description	Depth/Elev.	Unified Soil Class.	Comments
	22				SP	
	24					
	26					
	28					
	30				SP	
	32					
	34					
	36			435.2		
			Light gray to white Sand, fine to med. grain, well graded	36.0	SW	
	38			433.0		
			Light gray to white Sand, silty w/fine subangular gravel	38.2	SM	
	40			431.2		
				40.0		

Drilled By: Walker-Hill Environmental, Inc.

Hole Size: 2.25"

Drill Method: Direct Push

Drill Date: 9/6/2007

Sheet: 2 of 5

Log of Borehole: LB002

Project No.: BW05-01

Project: Groundwater Assessment

Project Manager: Robert Martin

Client: BorgWarner Inc.

Location: Crystal Springs, MS

Boring Logged By: LB002

Martin & Slagle
GeoEnvironmental Associates, LLC
118F Cherry Street

SUBSURFACE PROFILE

GW Depth	Depth	Lithology	Description	Depth/Elev.	Unified Soil Class.	Comments
			Dark brown gravel, coarse, angular	430.5	GP	
				40.7		
	42		**Light gray to white Sand, silty, med. grain w/few subrounded gravel**		SM	
				427.2		
	44		**Light gray to white Sand, fine grain, poorly graded w/few fine subrounded gravel**	44.0		
	46				SP	
	48					
	50					
	52					
	54				SP	
				415.2		
	56		**Light gray to white Sand, silty**	56.0	SM	
	58			412.5		
				58.7	SP	
	60					

Drilled By: Walker-Hill Environmental, Inc.

Hole Size: 2.25"

Drill Method: Direct Push

Drill Date: 9/6/2007

Sheet: 3 of 5

Log of Borehole: LB002

Project No.: BW05-01

Project: Groundwater Assessment **Project Manager:** Robert Martin

Client: BorgWarner Inc.

Location: Crystal Springs, MS **Boring Logged By:** LB002

Martin & Slagle
GeoEnvironmental Associates, LLC
118F Cherry Street

SUBSURFACE PROFILE						
GW Depth	Depth	Lithology	Description	Depth/Elev.	Unified Soil Class.	Comments
	62		**Yellowish orange Sand, med. to fine grain w/few subrounded gravels, fine to coarse**			
	64					
	66					
	68					
	70				SP	
	72					
	74					
	76					
	78					
	80					

Drilled By: Walker-Hill Environmental, Inc. **Hole Size:** 2.25"

Drill Method: Direct Push

Drill Date: 9/6/2007 **Sheet:** 4 of 5

Log of Borehole: LB002

Project No.: BW05-01

Project: Groundwater Assessment

Project Manager: Robert Martin

Client: BorgWarner Inc.

Location: Crystal Springs, MS

Boring Logged By: LB002

Martin & Slagle
GeoEnvironmental Associates, LLC
118F Cherry Street

SUBSURFACE PROFILE

GW Depth	Depth	Lithology	Description	Depth/Elev.	Unified Soil Class.	Comments
	82		**Yellowish orange Sand, med. to fine grain w/few subrounded gravels, fine to coarse**	388.2	SP	
			Light gray to white sand w/fine to med. grain, few coarse grains, well graded	83.0 387.2	SW	
	84		**White Sand, fine grain, poorly graded**	84.0	SP	
	86					
	88					
	90					
	92					
	94					
	96		**No recovery**	375.2 96.0		
	98			372.2		
	100		**Boring terminated**	99.0		

Drilled By: Walker-Hill Environmental, Inc.

Hole Size: 2.25"

Drill Method: Direct Push

Drill Date: 9/6/2007

Sheet: 5 of 5

Log of Borehole: LB003

Project No.: BW05-01

Project: Groundwater Assessment

Project Manager: Robert Martin

Client: BorgWarner Inc.

Location: Crystal Springs, MS

Boring Logged By: LB003

Martin & Slagle
GeoEnvironmental Associates, LLC
118F Cherry Street

SUBSURFACE PROFILE

GW Depth	Depth	Lithology	Description	Depth/Elev.	Unified Soil Class.	Comments
			Ground Surface	440.4		
	0		**Asphalt, clayey gravel base material**	0.0 / 439.4		
			Dark brown Clay, silty, few gravel grading to light brown silty, sandy Clay	1.0 / 433.4	CL	
	2, 4, 6					
			Light brown Sand, silty, clayey grading to reddish orange Sand, med. grain, clayey	7.0 / 428.9	SM	
	8, 10					
			Reddish purple Clay, stiff	11.5	CH	
	12		**Reddish orange Sand, fine grained, poorly graded, few subangular fine grain, clayey**	424.4	SM	
	14					
	16		**Light gray Clay, soft**	16.0	CH	
			Reddish orange Sand, fine, silty clay, abundant fine subangular gravels	423.2 / 17.2	SM / CH	
	18		**Light gray Clay, soft**	420.4 / 20.0	SP	
	20					

Drilled By: Walker-Hill Environmental, Inc.

Hole Size: 2.25"

Drill Method: Direct Push

Drill Date: 9/7/2007

Sheet: 1 of 5

Log of Borehole: LB003

Project No.: BW05-01

Project: Groundwater Assessment

Project Manager: Robert Martin

Client: BorgWarner Inc.

Location: Crystal Springs, MS

Boring Logged By: LB003

Martin & Slagle
GeoEnvironmental Associates, LLC
118F Cherry Street

SUBSURFACE PROFILE

GW Depth	Depth	Lithology	Description	Depth/Elev.	Unified Soil Class.	Comments
	22, 24, 26		**Light brown to reddish orange to white fine Sand, poorly graded** **Reddish orange Sand, fine grain, silty, poorly graded**	414.4	SM	
			Reddish orange Sand, fine grain, subangular gravels, poorly graded	26.0 412.4	SP	
	28, 30, 32		**Light gray Sand, fine grain, silty, clayey**	28.0 408.0	SM	
	34, 36		**Light brown Clay grading to reddish orange Clay w/purple streaks, soft**	32.4 404.4	CH	
			Light gray Clay w/purple streaks, sandy, soft	36.0 403.1	CL	
	38, 40		**Yellowish orange to light brown gray to white Sand, fine grained, poorly graded**	37.3	SP	

Drilled By: Walker-Hill Environmental, Inc.

Hole Size: 2.25"

Drill Method: Direct Push

Drill Date: 9/7/2007

Sheet: 2 of 5

Log of Borehole: LB003

Project No.: BW05-01

Project: Groundwater Assessment **Project Manager:** Robert Martin

Client: BorgWarner Inc.

Location: Crystal Springs, MS **Boring Logged By:** LB003

Martin & Slagle
GeoEnvironmental Associates, LLC
118F Cherry Street

SUBSURFACE PROFILE

GW Depth	Depth	Lithology	Description	Depth/Elev.	Unified Soil Class.	Comments
	42					
	44				SP	
	46					
	48			390.8		
	50		**Yellowish orange Sand, silty, clayey**	49.6 / 389.7	SM	
			Purple Clay, soft	50.7 / 388.4	CH	
	52		**Light gray Clay, silty, soft**	52.0	CL / SC	
	54		**Light gray to yellowish orange Sand, fine grain, silty, clayey**			
	56		**Light gray silty, slightly sandy Clay grading to yellowish orange and light gray Clay, silty, sandy, soft**		CL	
	58					
	60					

Drilled By: Walker-Hill Environmental, Inc. **Hole Size:** 2.25"

Drill Method: Direct Push

Drill Date: 9/7/2007 **Sheet:** 3 of 5

Log of Borehole: LB003

Martin & Slagle GeoEnvironmental Associates, LLC
118F Cherry Street

Project No.: BW05-01

Project: Groundwater Assessment

Project Manager: Robert Martin

Client: BorgWarner Inc.

Location: Crystal Springs, MS

Boring Logged By: LB003

SUBSURFACE PROFILE

GW Depth	Depth	Lithology	Description	Depth/Elev.	Unified Soil Class.	Comments
				378.8	CL	
	62		**Light gray Clay grading to purple Clay, soft**	61.6 / 376.4	CH	
	64		**Yellowish orange Sand, fine grain, poorly graded**	64.0 / 372.0	SP	
	66					
	68		**Light brown and purple Clay, soft**	68.4 / 370.7	CH	
	70		**Reddish brown to yellowish orange Sand, fine grain**	69.7 / 367.7	SP	
	72					
			Gray and purple mottled Clay, soft	72.7 / 366.4	CH	
	74		**Reddish orange Sand, fine grain, poorly graded**	74.0 / 365.4	SP	
			Reddish orange Sand, med. grain, well graded	75.0 / 364.4	SW	
	76		**No Recovery**	76.0		
	78					
	80			360.4 / 80.0		

Drilled By: Walker-Hill Environmental, Inc.

Hole Size: 2.25"

Drill Method: Direct Push

Drill Date: 9/7/2007

Sheet: 4 of 5

Log of Borehole: LB003

Project No.: BW05-01

Project: Groundwater Assessment

Project Manager: Robert Martin

Client: BorgWarner Inc.

Location: Crystal Springs, MS

Boring Logged By: LB003

Martin & Slagle
GeoEnvironmental Associates, LLC
118F Cherry Street

SUBSURFACE PROFILE

GW Depth	Depth	Lithology	Description	Depth/Elev.	Unified Soil Class.	Comments
	82		**Yellowish orange Sand, med. grain, poorly graded**		SP	
				356.4		
	84		**Boring Terminated**	84.0		
	86					
	88					
	90					
	92					
	94					
	96					
	98					
				340.4		
	100			100.0		

Drilled By: Walker-Hill Environmental, Inc.

Hole Size: 2.25"

Drill Method: Direct Push

Drill Date: 9/7/2007

Sheet: 5 of 5

Log of Borehole: LB004

Project No.: BW05-01

Project: Groundwater Assessment

Project Manager: Robert Martin

Client: BorgWarner Inc.

Location: Crystal Springs, MS

Boring Logged By: Chuck Peel

Martin & Slagle
GeoEnvironmental Associates, LLC
118F Cherry Street

SUBSURFACE PROFILE

GW Depth	Depth	Lithology	Description	Depth/Elev.	Unified Soil Class.	Comments
			Ground Surface	470.2		
	0		**Asphalt**	0.0		
	2		**Light gray and light brown sand, dark brown silty clay specks throughout**	466.2	SM	
	4		**Dark brown to dark reddish orange stiff clay**	4.0	CL	
	6					
	8		**Dark reddish orange Clay, stiff**	462.2 8.0	CH	
	10		**Light gray to purple to pink sand, fine grained silty clay**		SM	
	12					
	14		**Light gray and light brown to reddish orange sand, medium grained, abundant subangular fine, gravel**	456.3 13.9	SP	
	16		**Reddish orange sand, medium grained, silty, clayey, fine grained subangular gravel**	454.2 16.0	SM	
	18		**Light gray Clay, sandy, soft**	452.6 17.6 451.5 18.7	CL CH	
	20					

Drilled By: Walker-Hill Environmental, Inc.

Hole Size: 2.25"

Drill Method: Direct Push

Drill Date: 9/10/2007

Sheet: 1 of 6

Log of Borehole: LB004

Project No.: BW05-01

Project: Groundwater Assessment **Project Manager:** Robert Martin

Client: BorgWarner Inc.

Location: Crystal Springs, MS **Boring Logged By:** Chuck Peel

Martin & Slagle
GeoEnvironmental Associates, LLC
118F Cherry Street

SUBSURFACE PROFILE

GW Depth	Depth	Lithology	Description	Depth/Elev.	Unified Soil Class.	Comments
	22		**Reddish orange Clay w/purple mottling, stiff, grading to reddish orange and gray Clay, soft**	447.2	CH	
	24		**Reddish orange and yellowish orange Sand, grading to light gray to white Sand, med. to fine grain, w/subangular and subrounded fine gravel**	23.0	SP	
	26					
	28					
	30					
	32					
	34					
	36					
	38					
	40					

Drilled By: Walker-Hill Environmental, Inc. **Hole Size:** 2.25"

Drill Method: Direct Push

Drill Date: 9/10/2007 **Sheet:** 2 of 6

Log of Borehole: LB004

Martin & Slagle GeoEnvironmental Associates, LLC
118F Cherry Street

Project No.: BW05-01

Project: Groundwater Assessment

Project Manager: Robert Martin

Client: BorgWarner Inc.

Location: Crystal Springs, MS

Boring Logged By: Chuck Peel

SUBSURFACE PROFILE

GW Depth	Depth	Lithology	Description	Depth/Elev.	Unified Soil Class.	Comments
	42					
	44				SP	
	46					
	48			421.0		
			Abundant subrounded, fine grain gravel	49.2	GP	
	50		**Light gray and white Sand, fine grain, poorly graded**			
	52					
	54				SP	
	56					
	58					
	60					

Drilled By: Walker-Hill Environmental, Inc.

Hole Size: 2.25"

Drill Method: Direct Push

Drill Date: 9/10/2007

Sheet: 3 of 6

Log of Borehole: LB004

Project No.: BW05-01

Project: Groundwater Assessment

Project Manager: Robert Martin

Client: BorgWarner Inc.

Location: Crystal Springs, MS

Boring Logged By: Chuck Peel

Martin & Slagle
GeoEnvironmental Associates, LLC
118F Cherry Street

SUBSURFACE PROFILE

GW Depth	Depth	Lithology	Description	Depth/Elev.	Unified Soil Class.	Comments
	62					
	64				SP	
	66					
	68					
	70					
	72					
	74			396.1		
			Light gray Clay, soft	74.1 395.0	CH	
	76		**Light gray to reddish orange sand, fine to medium grained, poorly graded with few light gray clay nodules and some well rounded gravel**	75.2	SP	
	78					
	80					

Drilled By: Walker-Hill Environmental, Inc.

Hole Size: 2.25"

Drill Method: Direct Push

Drill Date: 9/10/2007

Sheet: 4 of 6

Log of Borehole: LB004

Project No.: BW05-01

Project: Groundwater Assessment

Project Manager: Robert Martin

Client: BorgWarner Inc.

Location: Crystal Springs, MS

Boring Logged By: Chuck Peel

Martin & Slagle
GeoEnvironmental Associates, LLC
118F Cherry Street

SUBSURFACE PROFILE

GW Depth	Depth	Lithology	Description	Depth/Elev.	Unified Soil Class.	Comments
	82					
	84				SP	
	86					
	88					
	90					
				378.4		
	92		**Reddish yellow Clay, silty, stiff; grading to yellowish orange Clay, silty, soft**	91.8	CL	
	94		**Purple and brown mottled Clay, soft**		CH	
				374.2		
	96		**Yellowish orange Sand, med to coarse grain, well graded**	96.0		
	98				SW	
				370.2		
	100			100.0		

Drilled By: Walker-Hill Environmental, Inc.

Hole Size: 2.25"

Drill Method: Direct Push

Drill Date: 9/10/2007

Sheet: 5 of 6

Log of Borehole: LB004

Project No.: BW05-01

Project: Groundwater Assessment

Project Manager: Robert Martin

Client: BorgWarner Inc.

Location: Crystal Springs, MS

Boring Logged By: Chuck Peel

Martin & Slagle
GeoEnvironmental Associates, LLC
118F Cherry Street

SUBSURFACE PROFILE

GW Depth	Depth	Lithology	Description	Depth/Elev.	Unified Soil Class.	Comments
	102		**Yellowish brown to light brown sand, fine grained, poorly graded**		SP	
	104		**Boring Terminated**	366.2 104.0		
	106					
	108					
	110					
	112					
	114					
	116					
	118					
	120					

Drilled By: Walker-Hill Environmental, Inc.

Hole Size: 2.25"

Drill Method: Direct Push

Drill Date: 9/10/2007

Sheet: 6 of 6

Log of Borehole: LB005

Project No.: BW05-01

Project: Groundwater Assessment

Project Manager: Robert Martin

Client: BorgWarner Inc.

Location: Crystal Springs, MS

Boring Logged By: LB005

Martin & Slagle
GeoEnvironmental Associates, LLC
118F Cherry Street

SUBSURFACE PROFILE

GW Depth	Depth	Lithology	Description	Depth/Elev.	Unified Soil Class.	Comments
			Ground Surface	467.6		
	0		**Asphalt**	0.0		
			Fill material- clay, gravel		GP	
	2		**Olive gray Clay grading to light gray Clay, silty, sandy w/some yellow orange streaks**		CL	
	4					
	6					
	8		**Light gray to gray Clay, stiff w/few subangular gravel**	459.6 8.0	CH	
	10		**Light brown to reddish orange Sand, fine to med. grain w/abundant fine to med. subangular gravel, well graded**		SW	
	12					
	14					
	16		**Light gray Sand w/reddish orange streaks, fine grain w/abundant subangular fine gravel**	451.6 16.0	SP	
	18					
	20			447.6 20.0		

Drilled By: Walker-Hill Environmental, Inc.

Hole Size: 2.25"

Drill Method: Direct Push

Drill Date: 9/12/2007

Sheet: 1 of 5

Martin & Slagle
GeoEnvironmental Associates, LLC
118F Cherry Street

Log of Borehole: LB005

Project No.: BW05-01

Project: Groundwater Assessment ***Project Manager:*** Robert Martin

Client: BorgWarner Inc.

Location: Crystal Springs, MS ***Boring Logged By:*** LB005

SUBSURFACE PROFILE						Comments
GW Depth	Depth	Lithology	Description	Depth/Elev.	Unified Soil Class.	
	22		**Light gray to white Sand, fine grain, poorly graded with abundant to minimal subangular gravel. Grades to less gravel with depth**			
	24					
	26					
	28					
	30				SP	
	32					
	34					
	36					
	38					
	40					

Drilled By: Walker-Hill Environmental, Inc. ***Hole Size:*** 2.25"

Drill Method: Direct Push

Drill Date: 9/12/2007 ***Sheet:*** 2 of 5

Log of Borehole: LB005

Martin & Slagle GeoEnvironmental Associates, LLC
118F Cherry Street

Project No.: BW05-01

Project: Groundwater Assessment

Project Manager: Robert Martin

Client: BorgWarner Inc.

Location: Crystal Springs, MS

Boring Logged By: LB005

SUBSURFACE PROFILE

GW Depth	Depth	Lithology	Description	Depth/Elev.	Unified Soil Class.	Comments
	42				SP	
	44			423.6		
			Light gray to white Sand, fine grain, slightly silty grading to silty with fine grain subangular gravel	44.0		
	46					
	48					
	50				SM	
	52					
	54					
	56			410.8		
			Light gray to white Sand, fine grain, poorly sorted	56.8		
	58				SP	
	60					

Drilled By: Walker-Hill Environmental, Inc.

Hole Size: 2.25"

Drill Method: Direct Push

Drill Date: 9/12/2007

Sheet: 3 of 5

Log of Borehole: LB005

Martin & Slagle GeoEnvironmental Associates, LLC
118F Cherry Street

Project No.: BW05-01

Project: Groundwater Assessment

Project Manager: Robert Martin

Client: BorgWarner Inc.

Location: Crystal Springs, MS

Boring Logged By: LB005

SUBSURFACE PROFILE

GW Depth	Depth	Lithology	Description	Depth/Elev.	Unified Soil Class.	Comments
	62					
	64				SP	
	66					
	68					
	70					
	72			394.5		
	74		**Yellowish orange Sand, fine grain, silty, clayey w/bands of light gray, soft, silty Clay; contains abundant subangular gravel**	73.1 / 391.6	SC	
	76		**Yellowish orange to light gray Sand, med. to coarse grain w/abundant, fine grain, subangular gravel; well graded**	76.0	SW	
	78					
	80			387.6 / 80.0		

Drilled By: Walker-Hill Environmental, Inc.

Hole Size: 2.25"

Drill Method: Direct Push

Drill Date: 9/12/2007

Sheet: 4 of 5

Log of Borehole: LB005

Project No.: BW05-01

Project: Groundwater Assessment

Project Manager: Robert Martin

Client: BorgWarner Inc.

Location: Crystal Springs, MS

Boring Logged By: LB005

Martin & Slagle
GeoEnvironmental Associates, LLC
118F Cherry Street

SUBSURFACE PROFILE

GW Depth	Depth	Lithology	Description	Depth/Elev.	Unified Soil Class.	Comments
	82		**Purple, light gray and yellowish orange mottled Clay, silty, sandy, soft**	383.6	CL	
	84		**Yellowish orange to yellowish brown Sand, fine grained, poorly graded**	84.0	SP	
	86			379.8		
	88		**Purple Clay, soft with yellowish orange sandy streaks**	87.8	CL	
	90		**Yellowish orange Sand, fine grain, poorly graded**	376.6	SP	
	92		**Boring Terminated**	91.0		
	94					
	96					
	98					
	100			367.6 100.0		

Drilled By: Walker-Hill Environmental, Inc.

Hole Size: 2.25"

Drill Method: Direct Push

Drill Date: 9/12/2007

Sheet: 5 of 5

Log of Borehole: LB006

Project No.: BW05-01

Project: Groundwater Assessment **Project Manager:** Robert Martin

Client: BorgWarner Inc.

Location: Crystal Springs, MS **Boring Logged By:** LB006

Martin & Slagle
GeoEnvironmental Associates, LLC
118F Cherry Street

SUBSURFACE PROFILE

GW Depth	Depth	Lithology	Description	Depth/Elev.	Unified Soil Class.	Comments
			Ground Surface			
	0		**Topsoil**	0.0		
	2		**Reddish orange Silt, clayey, slightly sandy, few gravels**		ML	
	4		**Reddish orange Clay, silty, grading to silty, sandy Clay**	4.0	CL	
	6					
	8					
	10					
	12					
	14					
	16		**Reddish orange Sand, fine grained, silty, clayey with abundant angular gravel**	16.0	SM	
	18					
	20					

Drilled By: Walker-Hill Environmental, Inc. **Hole Size:** 2.25"

Drill Method: Direct Push

Drill Date: 9/13/07 **Sheet:** 1 of 5

Log of Borehole: LB006

Project No.: BW05-01

Project: Groundwater Assessment

Project Manager: Robert Martin

Client: BorgWarner Inc.

Location: Crystal Springs, MS

Boring Logged By: LB006

Martin & Slagle
GeoEnvironmental Associates, LLC
118F Cherry Street

SUBSURFACE PROFILE

GW Depth	Depth	Lithology	Description	Depth/Elev.	Unified Soil Class.	Comments
	22				SM	
	24		**Light gray to yellowish orange Sand, fine grained, poorly graded with some subangular to subrounded gravel**	23.4	SP	
	26					
	28					
	30					
	32					
	34		**Yellow orange Sand, silty, clayey, wet with few gravels**	33.4	SM	
			Light gray and yellowish orange Sand, medium grained, wet, poorly graded	34.4	SP	
	36					
	38		**No recovery**	38.0		
	40					

Drilled By: Walker-Hill Environmental, Inc.

Hole Size: 2.25"

Drill Method: Direct Push

Drill Date: 9/13/07

Sheet: 2 of 5

Log of Borehole: LB006

Project No.: BW05-01

Project: Groundwater Assessment

Project Manager: Robert Martin

Client: BorgWarner Inc.

Location: Crystal Springs, MS

Boring Logged By: LB006

Martin & Slagle
GeoEnvironmental Associates, LLC
118F Cherry Street

SUBSURFACE PROFILE

GW Depth	Depth	Lithology	Description	Depth/Elev.	Unified Soil Class.	Comments
	42					
	44		**Reddish orange sand, fine to medium grained, silty, few well rounded fine gravels, poorly graded**	44.0	SM	
	46					
	48		**Reddish orange to light gray to white Sand, medium to fine grained, poorly sorted**	48.0	SP	
	50					
	52					
	54					
	56					
	58					
	60			60.0		

Drilled By: Walker-Hill Environmental, Inc.

Hole Size: 2.25"

Drill Method: Direct Push

Drill Date: 9/13/07

Sheet: 3 of 5

Log of Borehole: LB006

Project No.: BW05-01

Project: Groundwater Assessment

Project Manager: Robert Martin

Client: BorgWarner Inc.

Location: Crystal Springs, MS

Boring Logged By: LB006

Martin & Slagle
GeoEnvironmental Associates, LLC
118F Cherry Street

SUBSURFACE PROFILE

GW Depth	Depth	Lithology	Description	Depth/Elev.	Unified Soil Class.	Comments
	62		**No recovery**			
	64		**Light gray to white to light brown Sand, fine to medium grained, poorly graded with some well rounded to subrounded fine gravel**	64.0	SP	
	66					
	68					
	70					
	72					
	74					
	76					
	78					
	80					

Drilled By: Walker-Hill Environmental, Inc.

Hole Size: 2.25"

Drill Method: Direct Push

Drill Date: 9/13/07

Sheet: 4 of 5

Log of Borehole: LB006

Project No.: BW05-01

Project: Groundwater Assessment

Project Manager: Robert Martin

Client: BorgWarner Inc.

Location: Crystal Springs, MS

Boring Logged By: LB006

Martin & Slagle
GeoEnvironmental Associates, LLC
118F Cherry Street

SUBSURFACE PROFILE

GW Depth	Depth	Lithology	Description	Depth/Elev.	Unified Soil Class.	Comments
	82					
	84				SP	
	86					
	88					
	90					
	92			92.0	SM	
			Reddish orange Sand, silty, abundant subangular fine gravel		CH	
					SM	
	94		Yellowish orange Clay, medium stiff		CH	
			Reddish orange Sand, fine grain, silty	96.0		
	96		Light gray Clay, soft			
			Refusal - Boring Terminated			
	98					
	100					

Drilled By: Walker-Hill Environmental, Inc.

Hole Size: 2.25"

Drill Method: Direct Push

Drill Date: 9/13/07

Sheet: 5 of 5

Log of Borehole: LB007

Project No.: BW05-01

Project: Groundwater Assessment

Project Manager: Robert Martin

Client: BorgWarner Inc.

Location: Crystal Springs, MS

Boring Logged By: LB007

Martin & Slagle
GeoEnvironmental Associates, LLC
118F Cherry Street

SUBSURFACE PROFILE

GW Depth	Depth	Lithology	Description	Depth/Elev.	Unified Soil Class.	Comments
			Ground Surface	454.4		
	0		**Dark brown to light brown Clay, silty, sandy w/gray specks; grading to reddish brown Clay, silty sandy**	0.0	CL	
	2					
	4					
	6					
	8					
	10					
	12		**Reddish brown Sand, fine grained silty, clayey**	442.4 12.0	SM	
	14					
	16		**Dark brown Clay, silty sandy**	438.4 16.0	CL	
	18					
	20			435.1 19.3		

Drilled By: Walker-Hill Environmental, Inc.

Hole Size: 2.25"

Drill Method: Direct Push

Drill Date: 9/17/07

Sheet: 1 of 5

Log of Borehole: LB007

Project No.: BW05-01

Project: Groundwater Assessment

Project Manager: Robert Martin

Client: BorgWarner Inc.

Location: Crystal Springs, MS

Boring Logged By: LB007

Martin & Slagle
GeoEnvironmental Associates, LLC
118F Cherry Street

SUBSURFACE PROFILE

GW Depth	Depth	Lithology	Description	Depth/Elev.	Unified Soil Class.	Comments
	22		**Yellow and red to purplish Sand, w/small streak of white sand, medium grain, poorly graded with some subrounded fine gravel; grading to yellowish orange Sand, fine grain, w/abundant subangular to subrounded grains**			
	24					
	26					
	28				SP	
	30					
	32					
	34					
	36					
	38					
	40					

Drilled By: Walker-Hill Environmental, Inc.

Hole Size: 2.25"

Drill Method: Direct Push

Drill Date: 9/17/07

Sheet: 2 of 5

Log of Borehole: LB007

Project No.: BW05-01

Project: Groundwater Assessment

Project Manager: Robert Martin

Client: BorgWarner Inc.

Location: Crystal Springs, MS

Boring Logged By: LB007

Martin & Slagle
GeoEnvironmental Associates, LLC
118F Cherry Street

SUBSURFACE PROFILE

GW Depth	Depth	Lithology	Description	Depth/Elev.	Unified Soil Class.	Comments
	42 44 46 48 50 52 54		**Yellow and red to purplish Sand, w/small streak of white sand, medium grain, poorly graded with some subrounded fine gravel; grading to yellowish orange Sand, fine grain, w/abundant subangular to subrounded graines**		SP	
	56		**No recovery**	398.4 56.0		
	58 60			394.4 60.0		

Drilled By: Walker-Hill Environmental, Inc.

Hole Size: 2.25"

Drill Method: Direct Push

Drill Date: 9/17/07

Sheet: 3 of 5

Log of Borehole: LB007

Project No.: BW05-01

Project: Groundwater Assessment

Project Manager: Robert Martin

Client: BorgWarner Inc.

Location: Crystal Springs, MS

Boring Logged By: LB007

Martin & Slagle
GeoEnvironmental Associates, LLC
118F Cherry Street

SUBSURFACE PROFILE

GW Depth	Depth	Lithology	Description	Depth/Elev.	Unified Soil Class.	Comments
	62, 64		**Light brown Sand, medium grain, poorly graded**		SP	
				389.7 / 64.7		
			Reddish purple Clay, silty, sandy, soft		CL	
	66, 68, 70, 72, 74, 76		**Purple to light brown Sand, fine to medium grain, poorly graded with few subangular to subrounded fine gravel**		SP	
				377.6 / 76.8		
			Purple Clay, soft		CH	
	78		**No Recovery**			
				374.4 / 80.0		
	80					

Drilled By: Walker-Hill Environmental, Inc.

Hole Size: 2.25"

Drill Method: Direct Push

Drill Date: 9/17/07

Sheet: 4 of 5

Log of Borehole: LB007

Project No.: BW05-01

Project: Groundwater Assessment

Project Manager: Robert Martin

Client: BorgWarner Inc.

Location: Crystal Springs, MS

Boring Logged By: LB007

Martin & Slagle
GeoEnvironmental Associates, LLC
118F Cherry Street

SUBSURFACE PROFILE

GW Depth	Depth	Lithology	Description	Depth/Elev.	Unified Soil Class.	Comments
			Light brown Sand, fine grain			
	82				SP	
	84			370.1		
			Light brown Clay, stiff	84.3	CH	
			Light reddish brown Sand, fine grain		SP	
	86					
				366.4		
	88			88.0		
			Light brown to yellowish brown Sand, medium to coarse grain, well graded with abundant fine gravel	365.2	SW	
				89.2	CH	
	90				SP	
			Light brown and purple Clay			
			Light brown Sand, med. grain, few gravel			
	92					
	94		No recovery - Boring terminated at 100'			
	96					
	98					
				354.4		
	100			100.0		

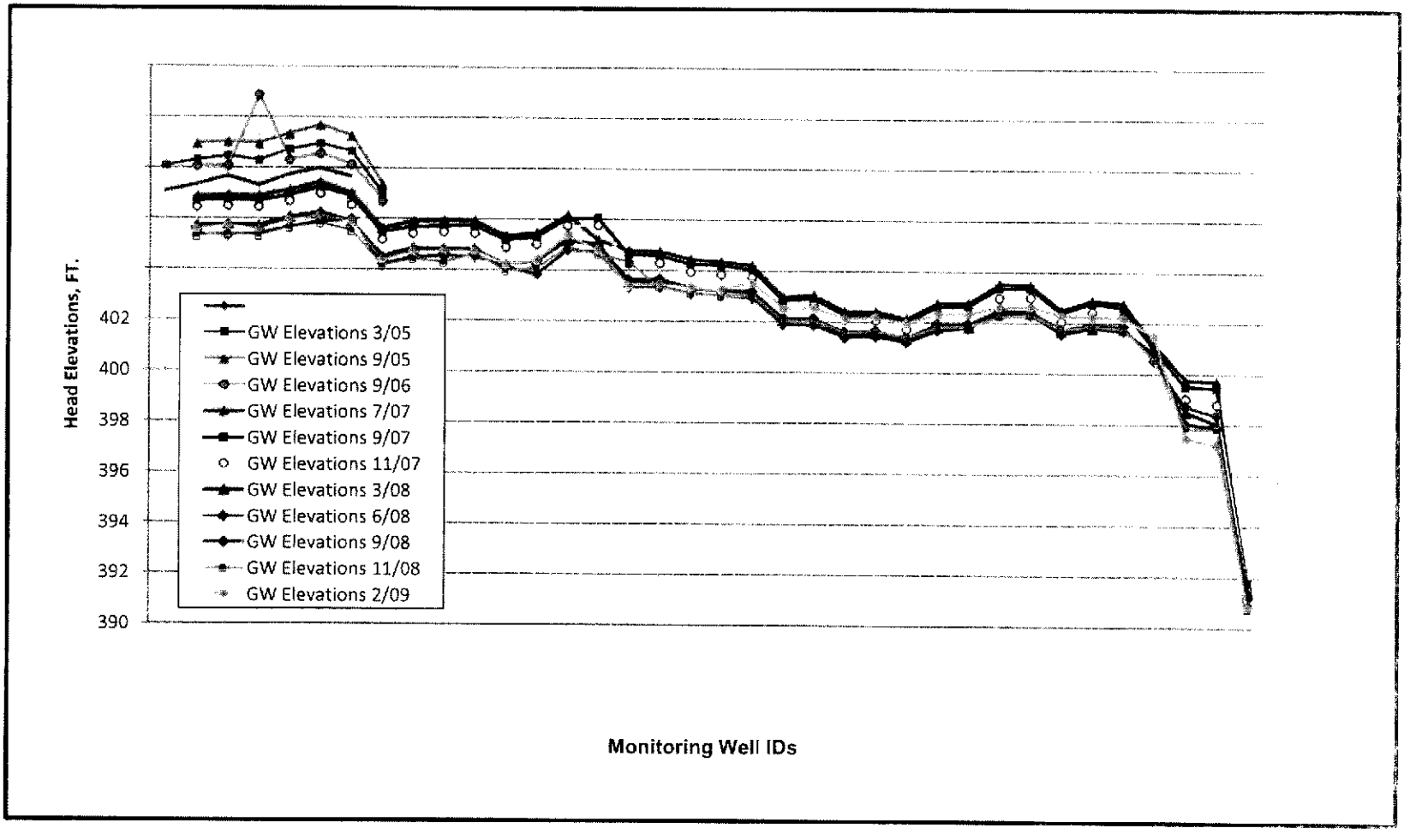
Drilled By: Walker-Hill Environmental, Inc.

Hole Size: 2.25"

Drill Method: Direct Push

Drill Date: 9/17/07

Sheet: 5 of 5



MARTIN & SLAGLE
GeoEnvirionmental Associates, LLC

PO Box 1023
Black Mountain NC 28711
828.669.3929 828.669.5289

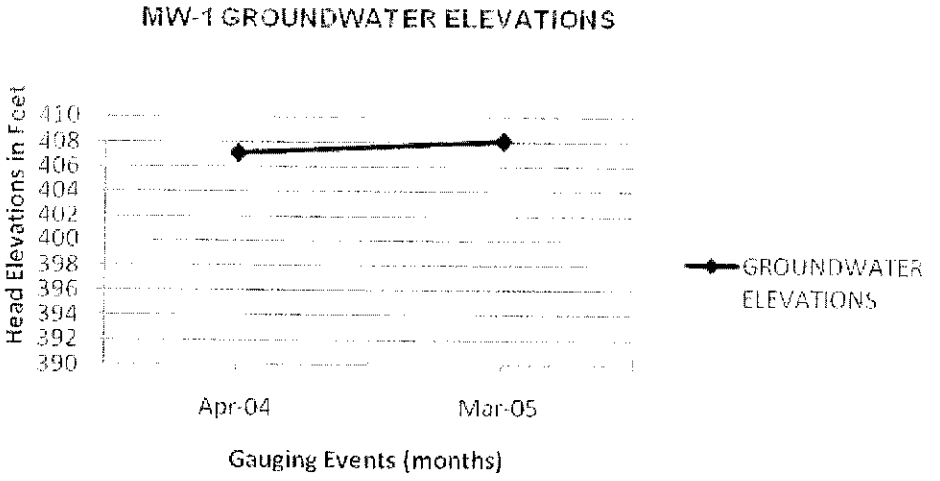
PREPARED FOR:

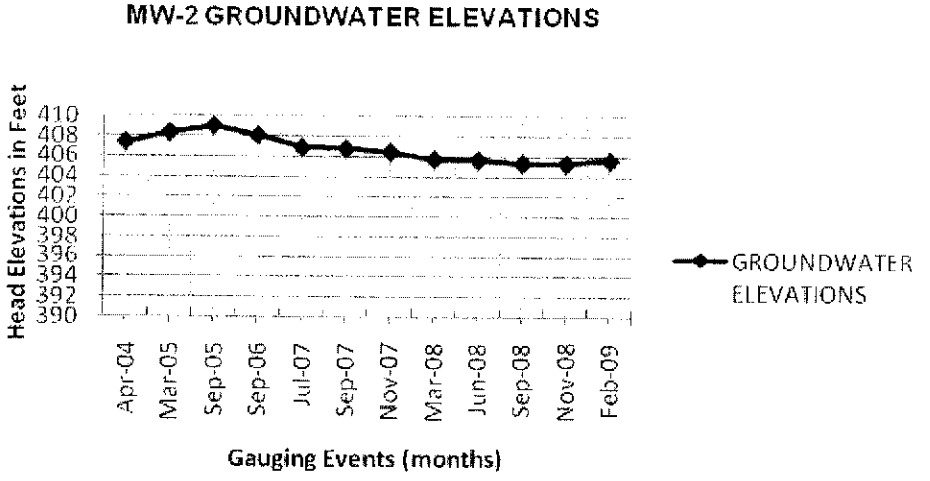
BorgWarner Inc.

SCALE = NA	
REV: 1	
DATE: 12/1/2009	
CHK: RLM	
DR: SML	

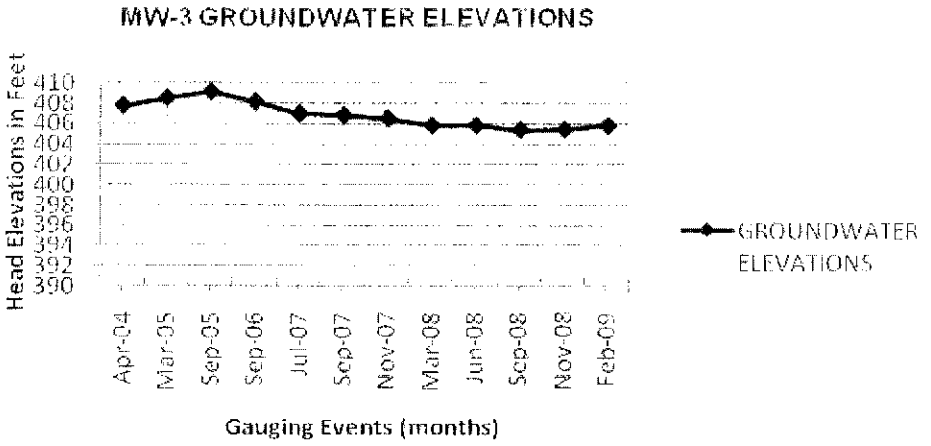
APPENDIX E-1

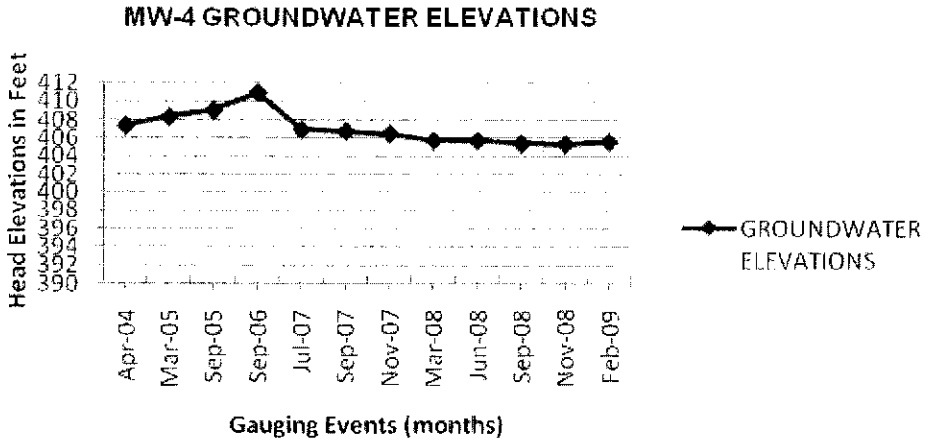
GROUNDWATER ELEVATION TRENDS
Kuhlman Electric Corporation
Crystal Springs, MS



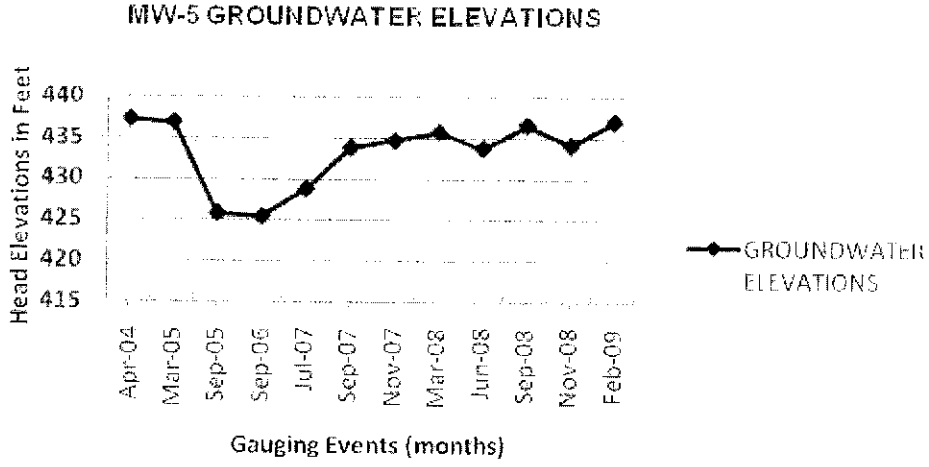


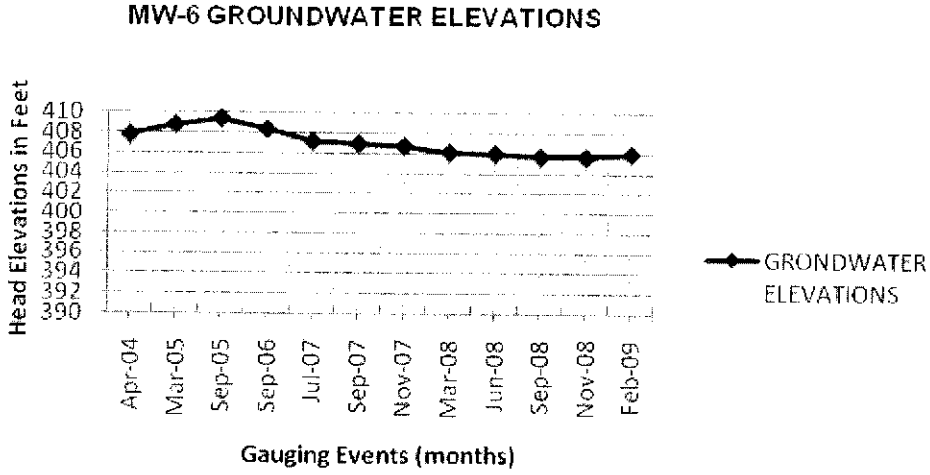
MARTIN SLAGLE GeoEnvironmental Associates, LLC PO Box 1023 Black Mountain, NC 28711 828.669.3929 828.669.5289	SCALE = N/A REV: 1 DATE: 12/1/09 DR: SML CHK: RLM	**HEAD ELEVATIONS PER WELL vs TIME** Kuhlman Electric Corporation Crystal Springs, MS
	PREPARED FOR: BorgWarner Inc.	**APPENDIX E-2**



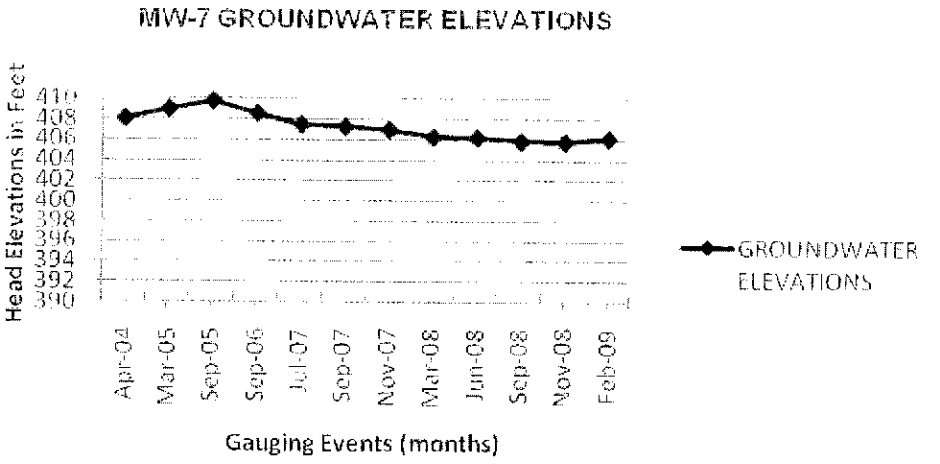


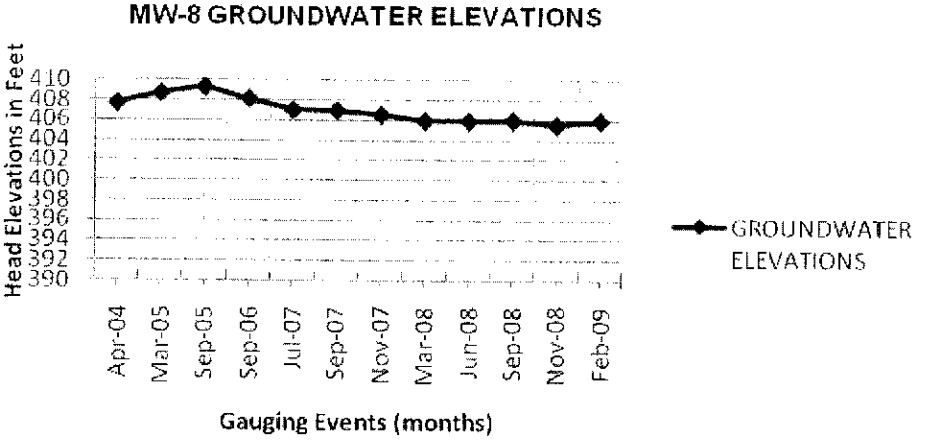
MARTIN & SLAGLE GeoEnvironmental Associates, LLC PO Box 1023 Black Mountain, NC 28711 828.669.3929 828.669.5289	SCALE = N/A REV: 1 DATE: 12/1/09 DR: SML CHK: RLM	**HEAD ELEVATIONS PER WELL vs TIME** Kuhlman Electric Corporation Crystal Springs, MS
	PREPARED FOR: BorgWarner Inc.	**APPENDIX E-3**



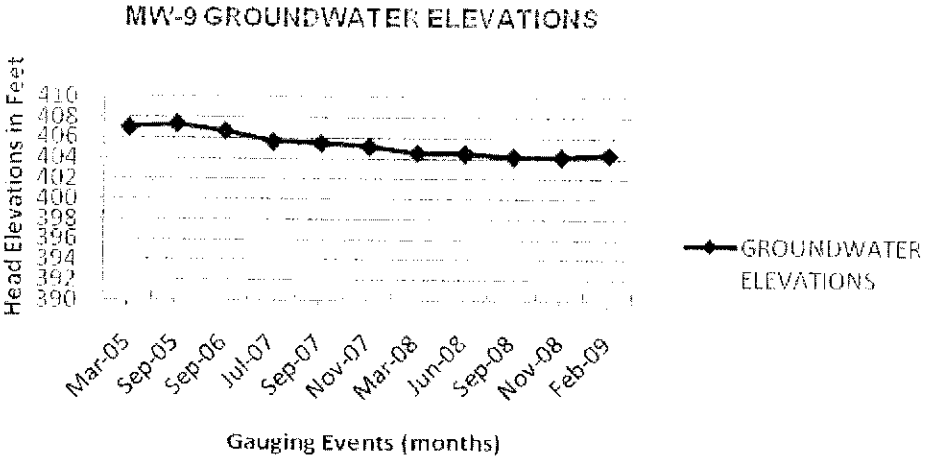


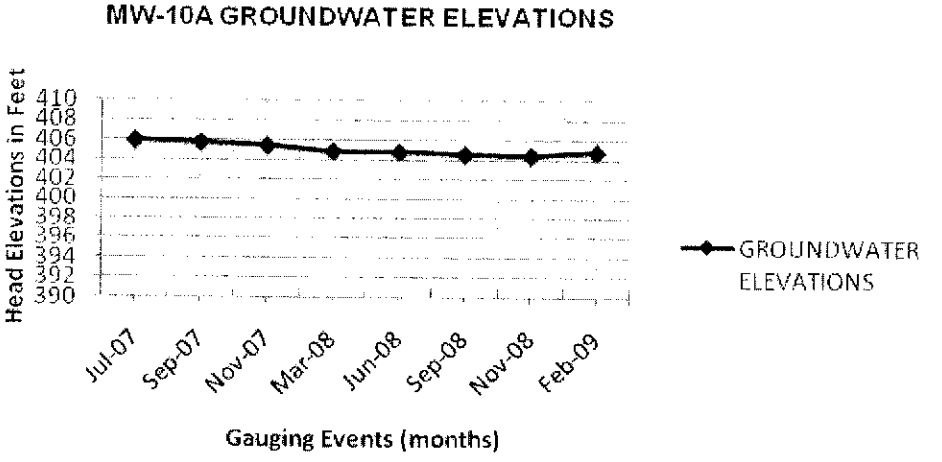
MARTIN & SLAGLE GeoEnvironmental Associates, LLC PO Box 1023 Black Mountain, NC 28711 828.669.3929 828.669.5289	SCALE = N/A REV: 1 DATE: 12/1/09 DR: SML CHK: RLM	**HEAD ELEVATIONS PER WELL vs TIME** Kuhlman Electric Corporation Crystal Springs, MS
	PREPARED FOR: BorgWarner Inc.	**APPENDIX E-4**



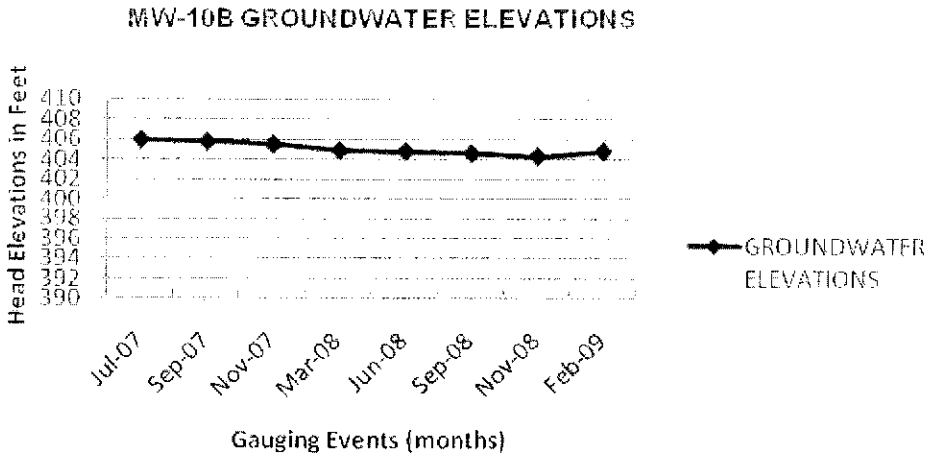


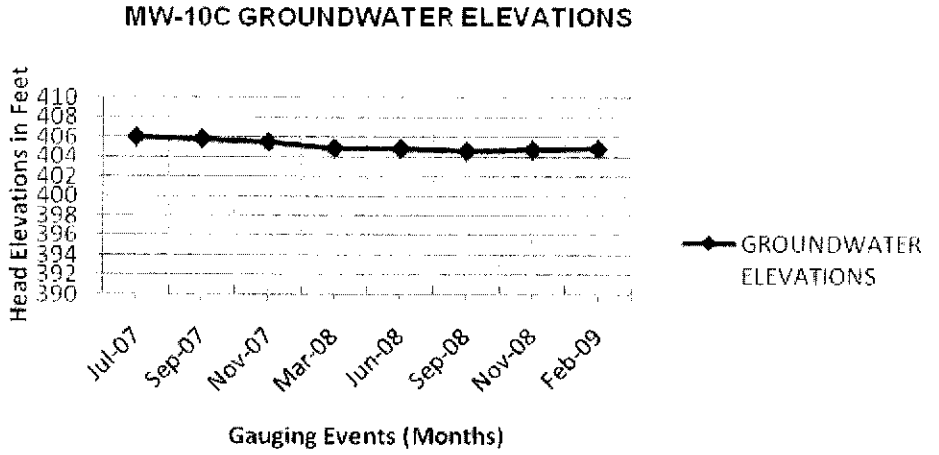
MARTIN & SLAGLE GeoEnvironmental Associates, LLC PO Box 1023 Black Mountain, NC 28711 828.669.3929 828.669.5289	SCALE = N/A REV: 1 DATE: 12/1/09 DR: SML CHK: RLM	**HEAD ELEVATIONS PER WELL vs TIME** Kuhlman Electric Corporation Crystal Springs, MS
	PREPARED FOR: BorgWarner Inc.	**APPENDIX E-5**



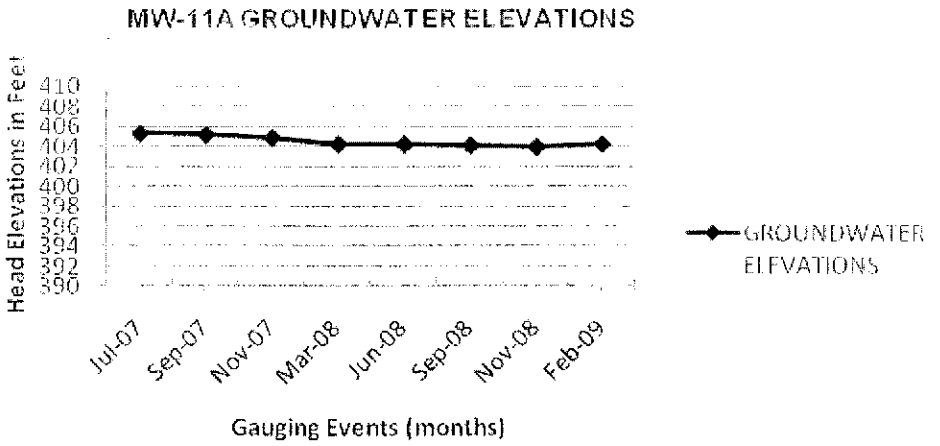


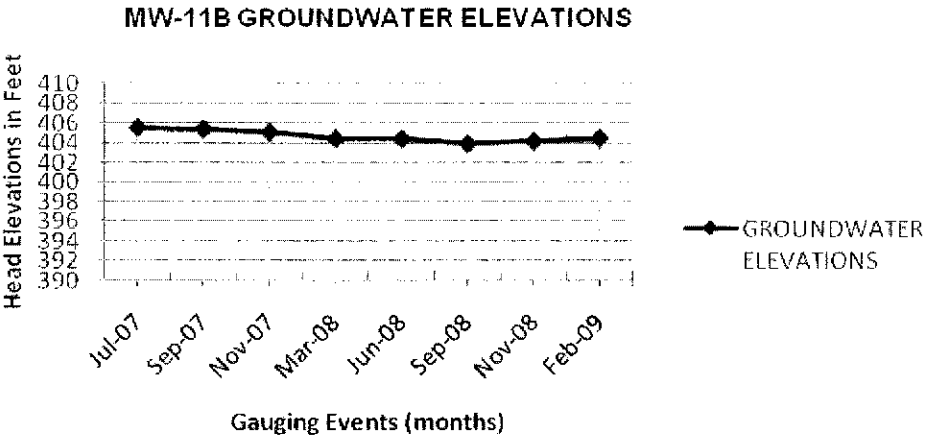
MARTIN & SLAGLE GeoEnvironmental Associates, LLC PO Box 1023 Black Mountain, NC 28711 828.669.3929 828.669.5289	SCALE = N/A REV: 1 DATE: 12/1/09 DR: SML CHK: RLM	**HEAD ELEVATIONS PER WELL vs TIME** Kuhlman Electric Corporation Crystal Springs, MS
	PREPARED FOR: BorgWarner Inc.	**APPENDIX E-6**



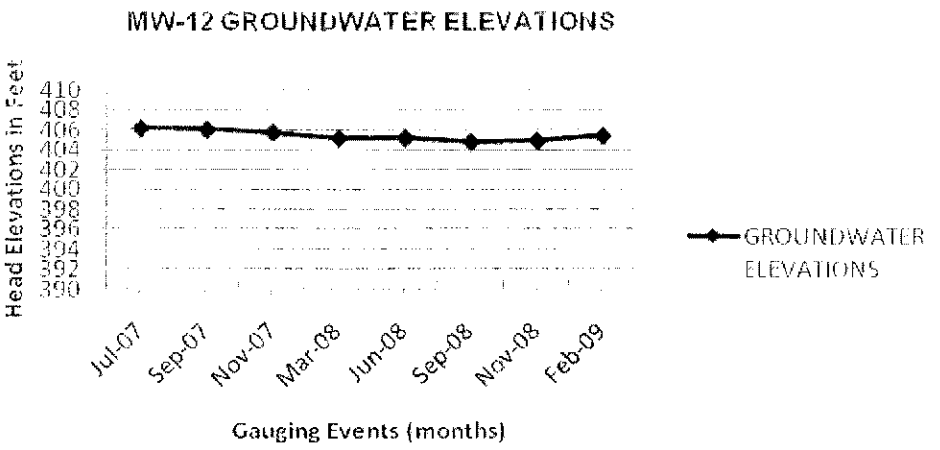


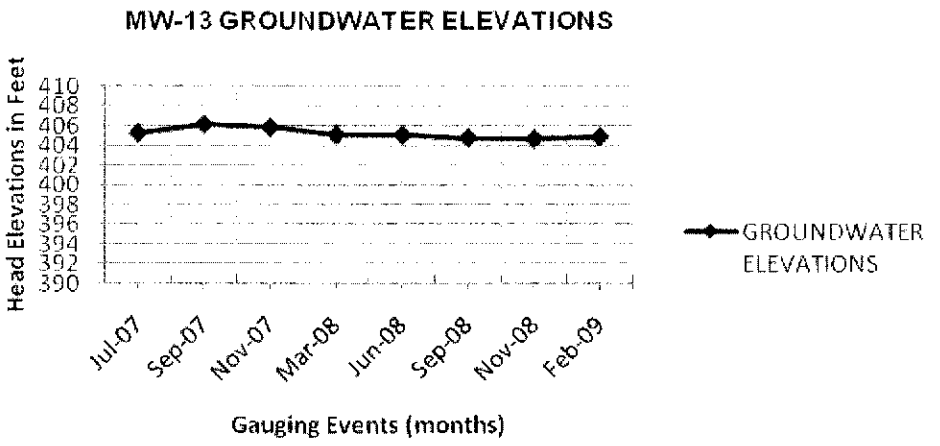
MARTIN SLAGLE GeoEnvironmental Associates, LLC PO Box 1023 Black Mountain, NC 28711 828.669.3929 828.669.5289	SCALE = N/A REV: 1 DATE: 12/1/09 DR: SML CHK: RLM	**HEAD ELEVATIONS PER WELL vs TIME** Kuhlman Electric Corporation Crystal Springs, MS
	PREPARED FOR: BorgWarner Inc.	**APPENDIX E-7**



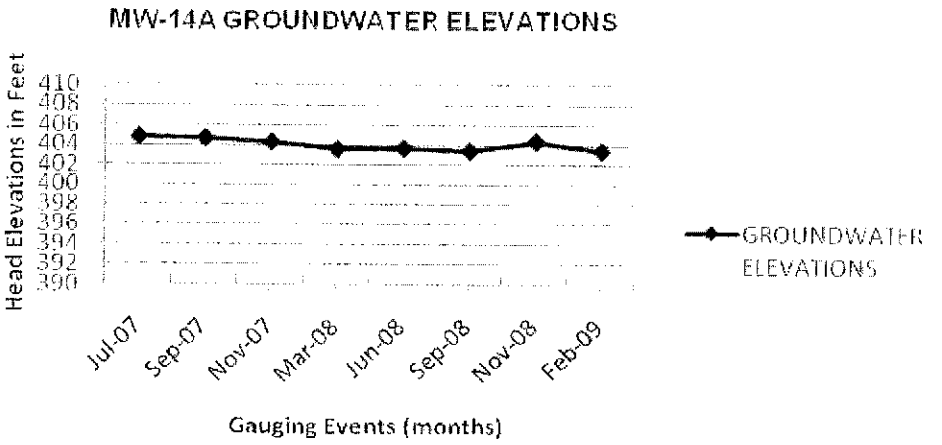


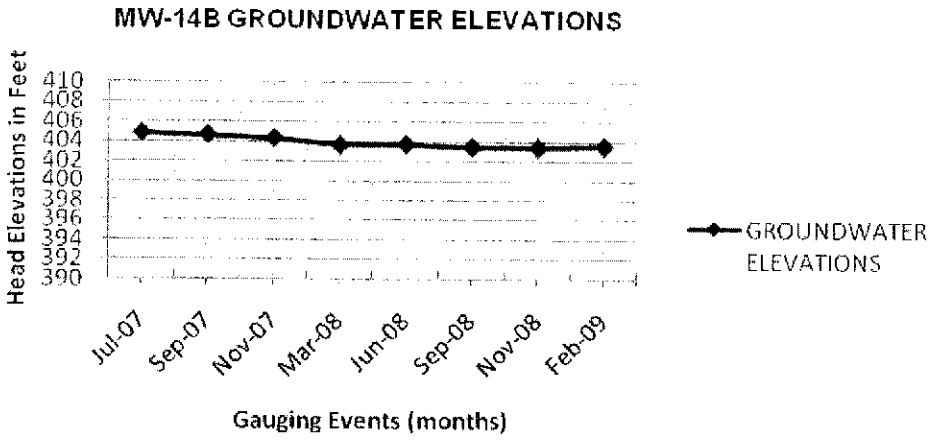
MARTIN & SLAGLE GeoEnvironmental Associates, LLC PO Box 1023 Black Mountain, NC 28711 828.669.3929 828.669.5289	SCALE = N/A REV: 1 DATE: 12/1/09 DR: SML CHK: RLM	**HEAD ELEVATIONS PER WELL vs TIME** Kuhlman Electric Corporation Crystal Springs, MS
	PREPARED FOR: BorgWarner Inc.	**APPENDIX E-8**



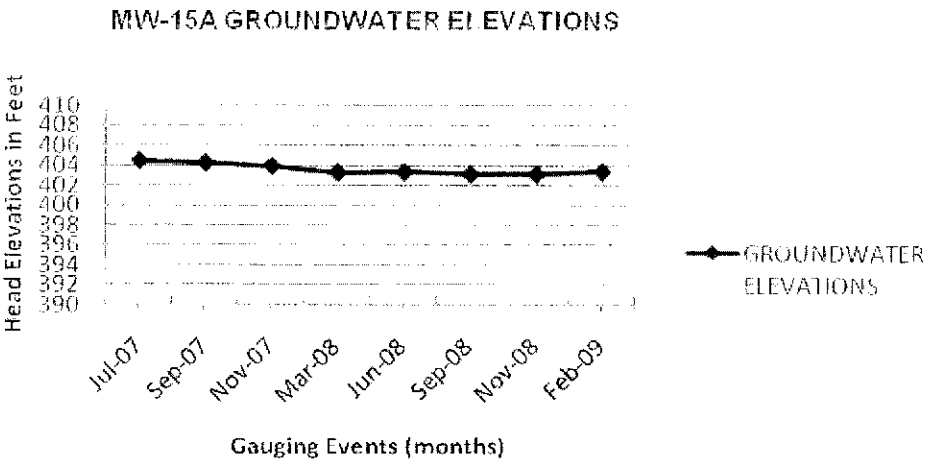


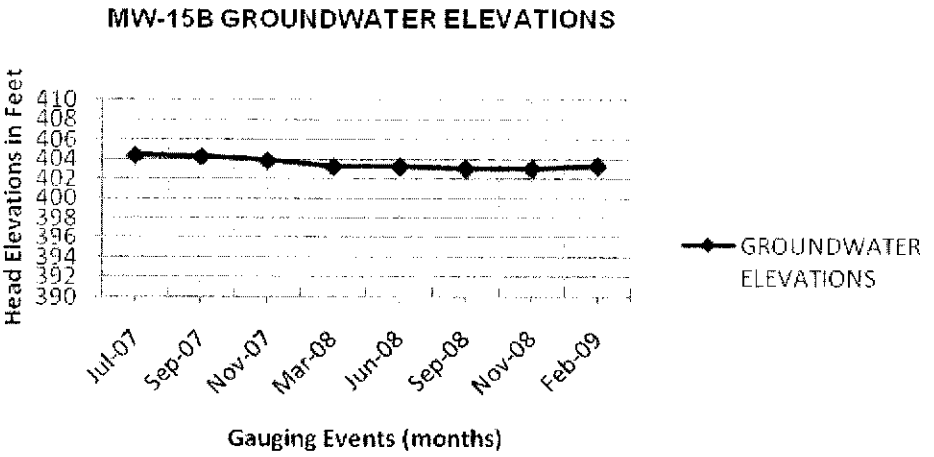
MARTIN SLAGLE GeoEnvironmental Associates, LLC PO Box 1023 Black Mountain, NC 28711 828.669.3929 828.669.5289	SCALE = N/A REV: 1 DATE: 12/1/09 DR: SML CHK: RLM	**HEAD ELEVATIONS PER WELL vs TIME** Kuhlman Electric Corporation Crystal Springs, MS
	PREPARED FOR: BorgWarner Inc.	**APPENDIX E-9**



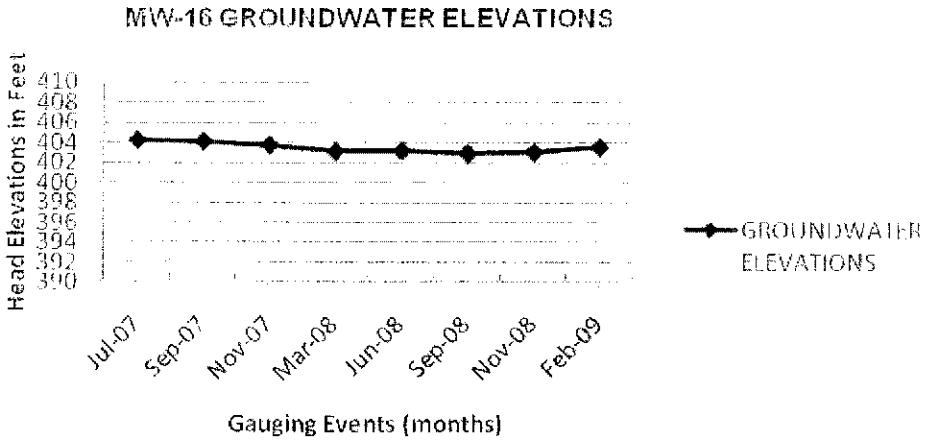


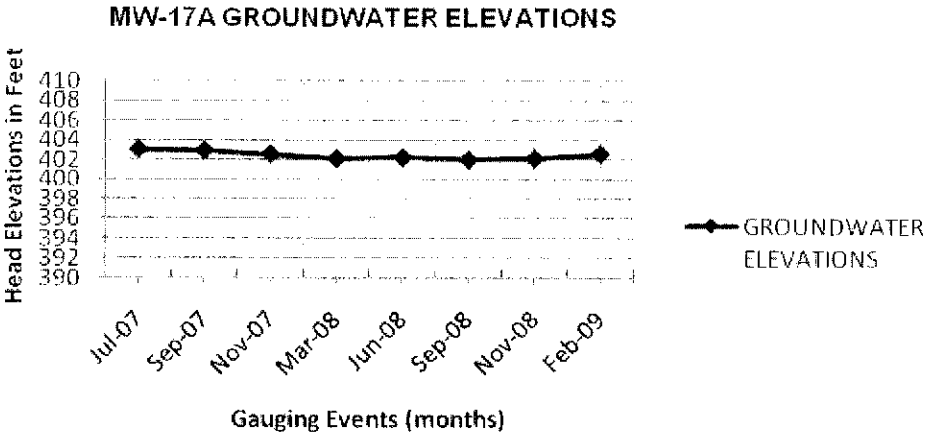
MARTIN & SLAGLE GeoEnvironmental Associates, LLC PO Box 1023 Black Mountain, NC 28711 828.669.3929 828.669.5289	SCALE = N/A REV: 1 DATE: 12/1/09 DR: SML CHK: RLM	**HEAD ELEVATIONS PER WELL vs TIME** Kuhlman Electric Corporation Crystal Springs, MS
	PREPARED FOR: BorgWarner Inc.	**APPENDIX E-10**



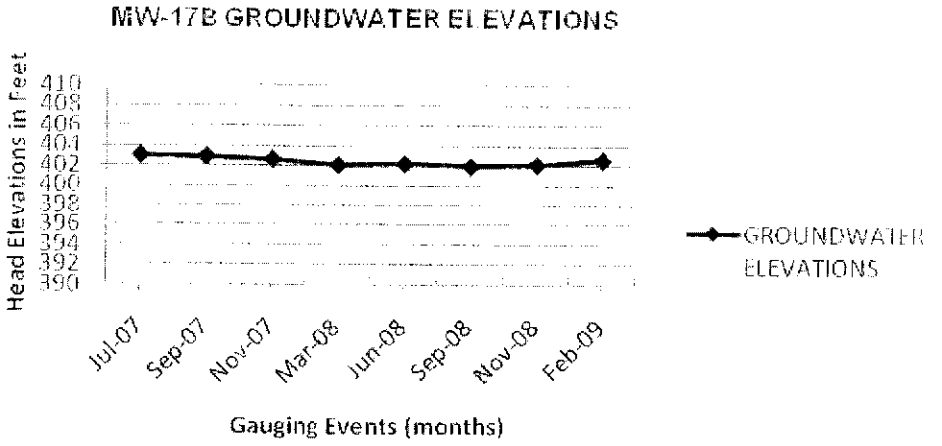


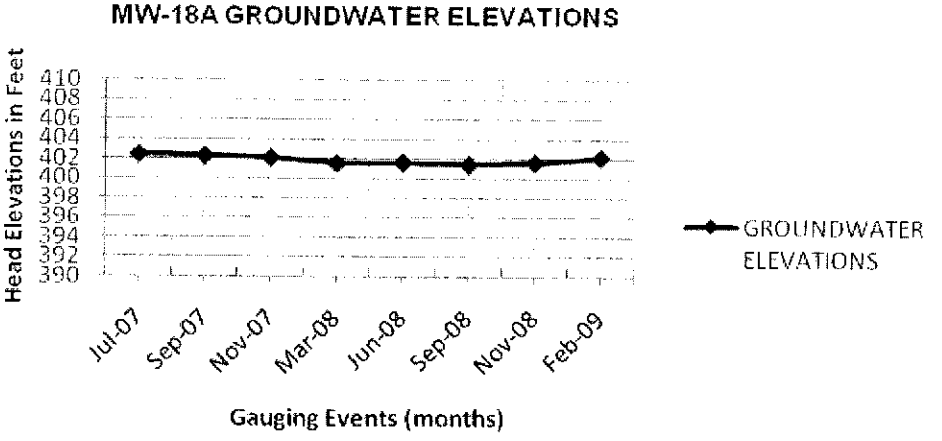
MARTIN & SLAGLE GeoEnvironmental Associates, LLC PO Box 1023 Black Mountain, NC 28711 828.669.3929 828.669.5289	SCALE = N/A REV: 1 DATE: 12/1/09 DR: SML CHK: RLM	**HEAD ELEVATIONS PER WELL vs TIME** Kuhlman Electric Corporation Crystal Springs, MS
	PREPARED FOR: BorgWarner Inc.	**APPENDIX E-11**



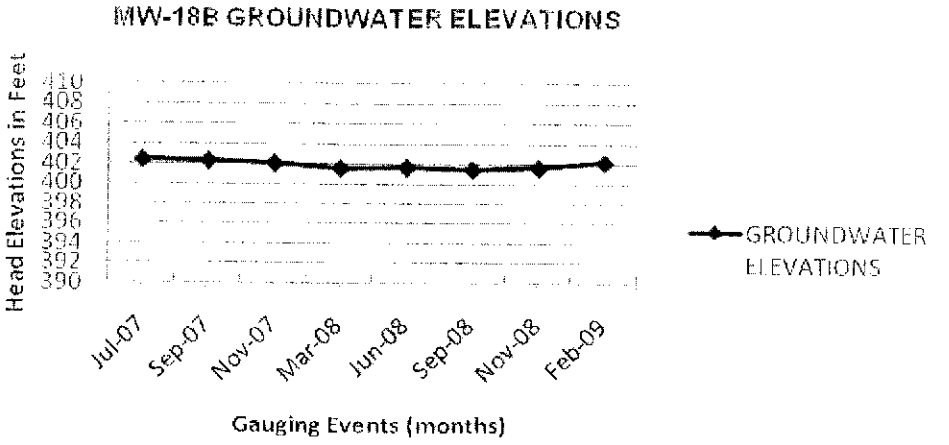


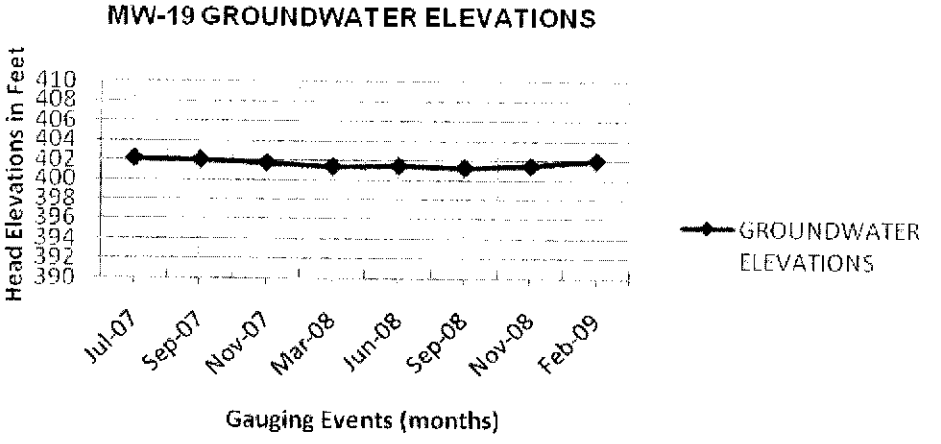
MARTIN & SLAGLE GeoEnvironmental Associates, LLC PO Box 1023 Black Mountain, NC 28711 828.669.3929 828.669.5289	SCALE = N/A REV: 1 DATE: 12/1/09 DR: SML CHK: RLM	**HEAD ELEVATIONS PER WELL vs TIME** Kuhlman Electric Corporation Crystal Springs, MS
	PREPARED FOR: BorgWarner Inc.	**APPENDIX E-12**



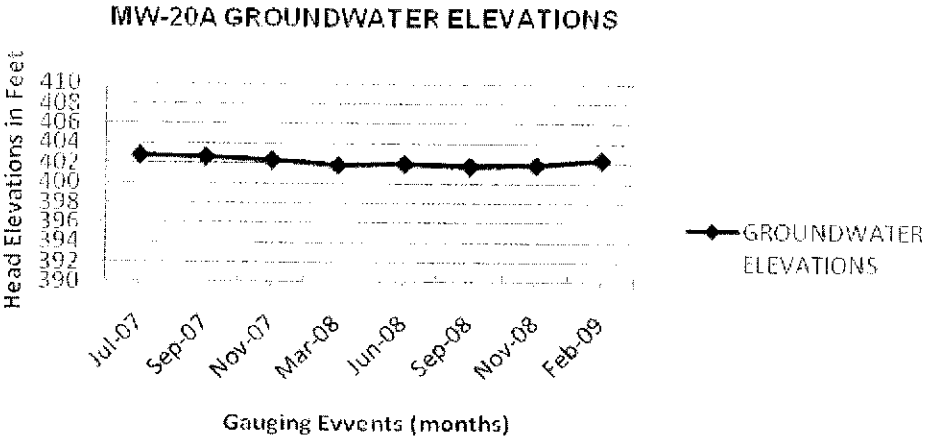


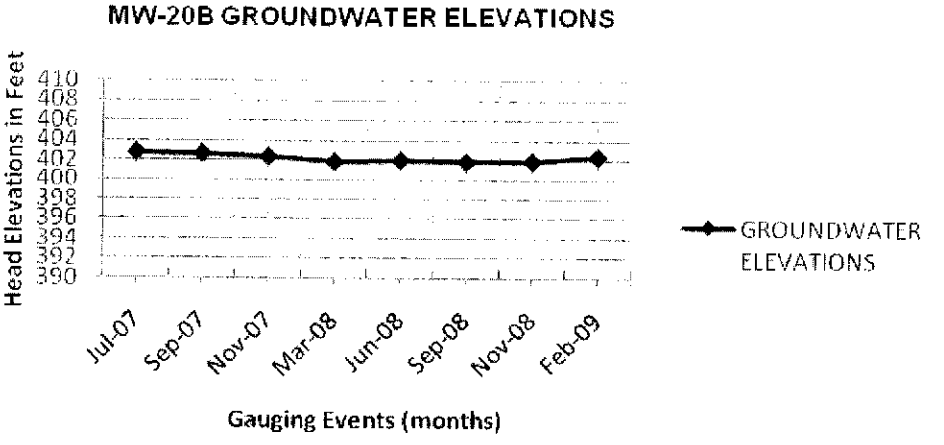
MARTIN SLAGLE GeoEnvironmental Associates, LLC PO Box 1023 Black Mountain, NC 28711 828.669.3929 828.669.5289	SCALE = N/A REV: 1 DATE: 12/1/09 DR: SML CHK: RLM	**HEAD ELEVATIONS PER WELL vs TIME** Kuhlman Electric Corporation Crystal Springs, MS
	PREPARED FOR: BorgWarner Inc.	**APPENDIX E-13**



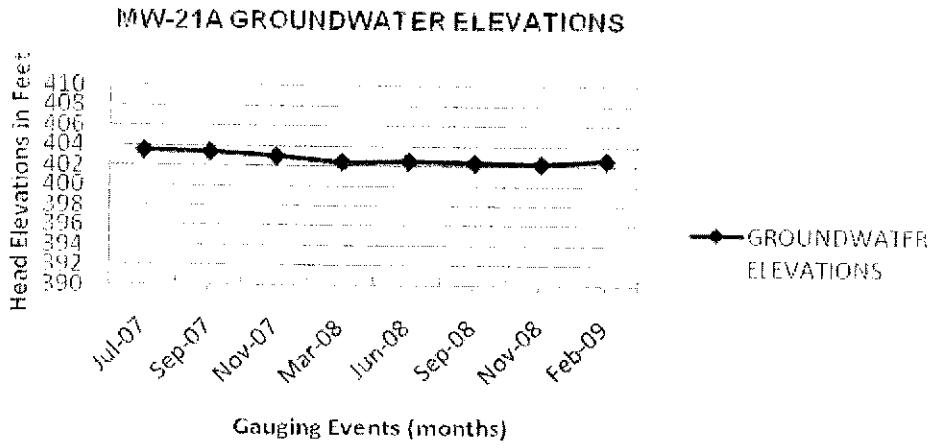


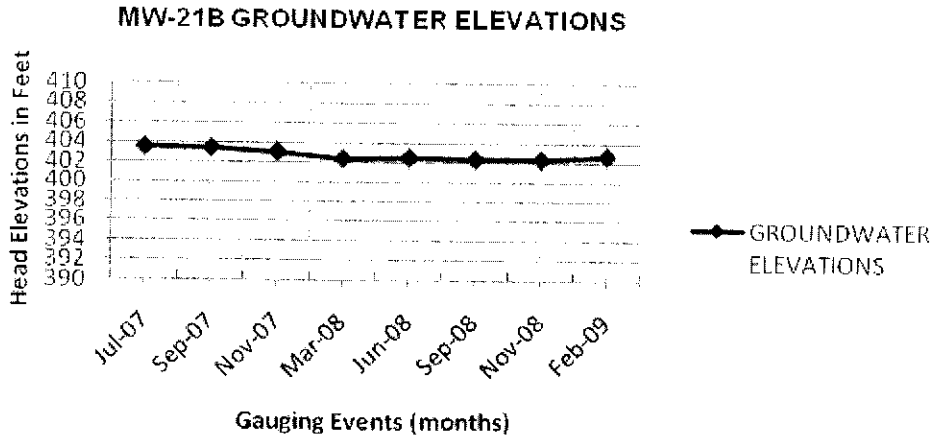
MARTIN SLAGLE GeoEnvironmental Associates, LLC PO Box 1023 Black Mountain, NC 28711 828.669.3929 828.669.5289	SCALE = N/A REV: 1 DATE: 12/1/09 DR: SML CHK: RLM	**HEAD ELEVATIONS PER WELL vs TIME** Kuhlman Electric Corporation Crystal Springs, MS
	PREPARED FOR: BorgWarner Inc.	**APPENDIX E-14**



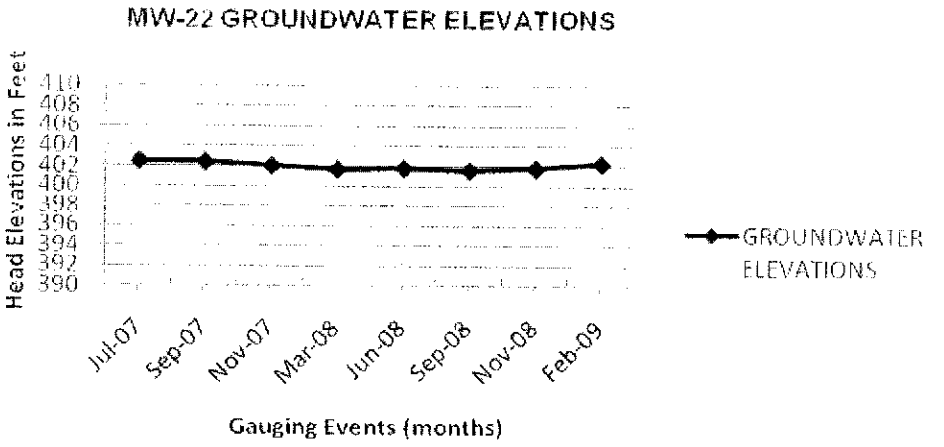


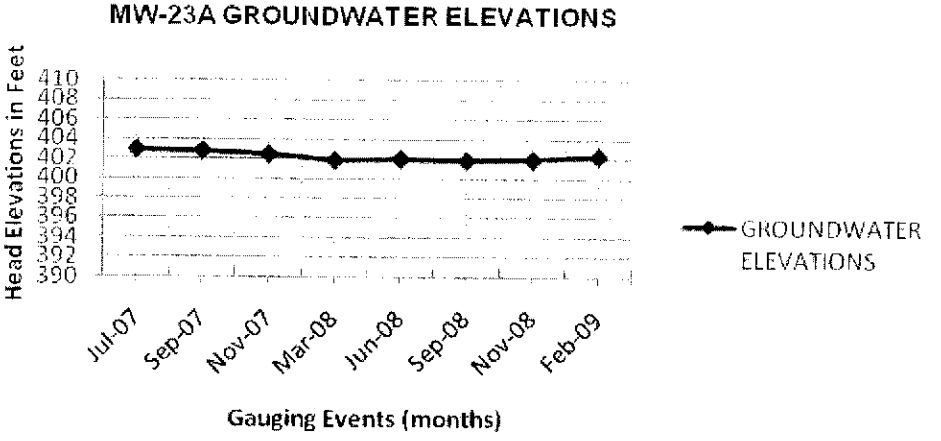
MARTIN & SLAGLE GeoEnvironmental Associates, LLC PO Box 1023 Black Mountain, NC 28711 828.669.3929 828.669.5289	SCALE = N/A REV: 1 DATE: 12/1/09 DR: SML CHK: RLM	**HEAD ELEVATIONS PER WELL vs TIME** Kuhlman Electric Corporation Crystal Springs, MS
	PREPARED FOR: BorgWarner Inc.	**APPENDIX E-15**



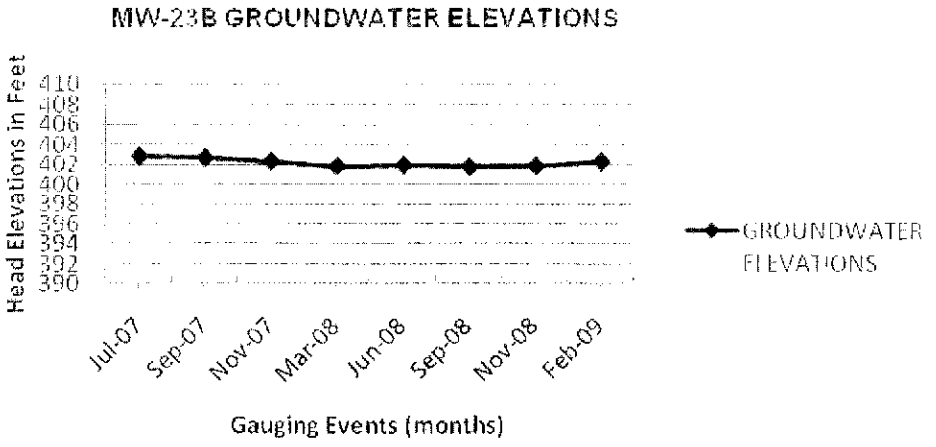


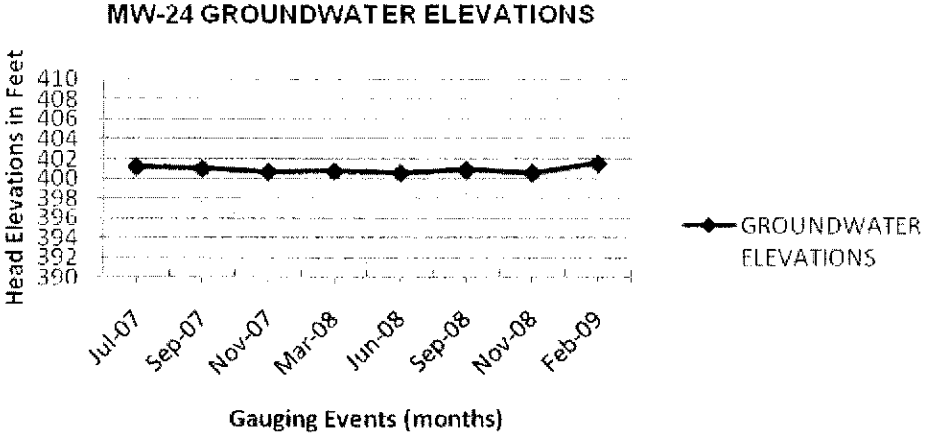
MARTIN SLAGLE GeoEnvironmental Associates, LLC PO Box 1023 Black Mountain, NC 28711 828.669.3929 828.669.5289	SCALE = N/A REV: 1 DATE: 12/1/09 DR: SML CHK: RLM	**HEAD ELEVATIONS PER WELL vs TIME** Kuhlman Electric Corporation Crystal Springs, MS
	PREPARED FOR: BorgWarner Inc.	**APPENDIX E-16**



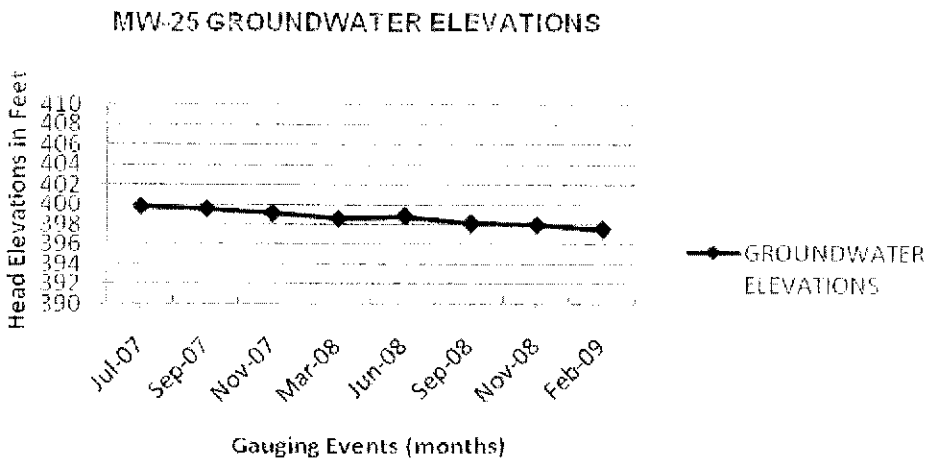


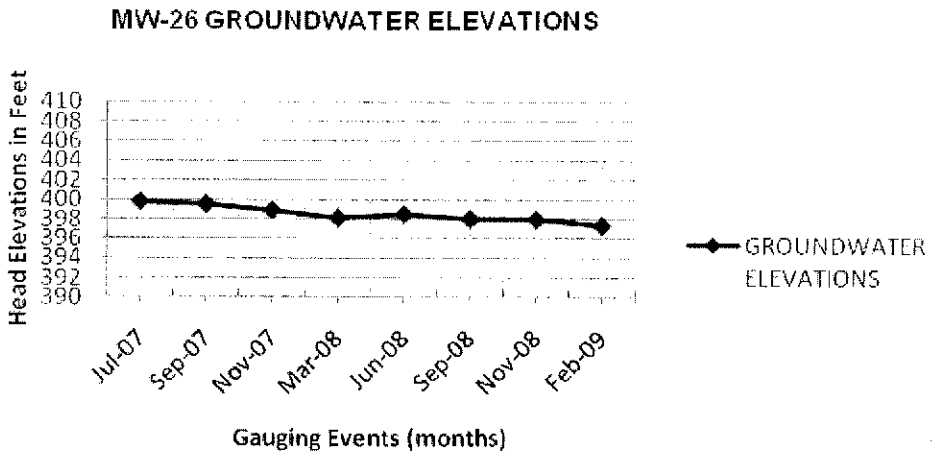
MARTIN SLAGLE GeoEnvironmental Associates, LLC PO Box 1023 Black Mountain, NC 28711 828.669.3929 828.669.5289	SCALE = N/A REV: 1 DATE: 12/1/09 DR: SML CHK: RLM	**HEAD ELEVATIONS PER WELL vs TIME** Kuhlman Electric Corporation Crystal Springs, MS
	PREPARED FOR: BorgWarner Inc.	**APPENDIX E-17**



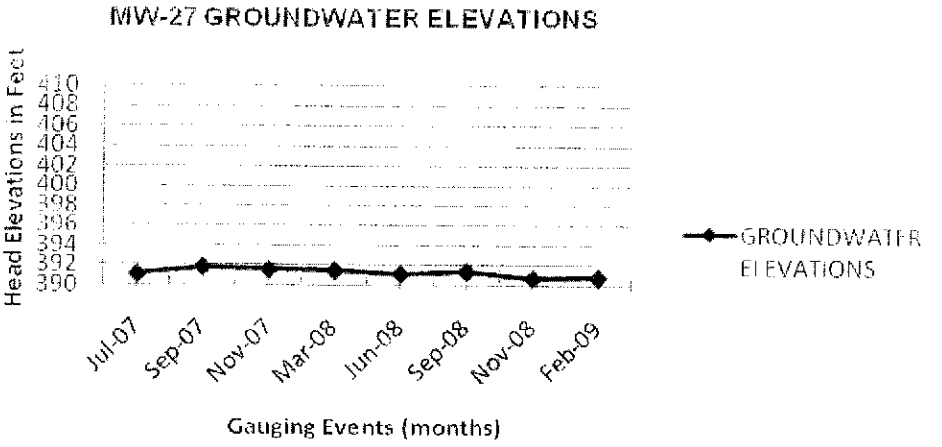


MARTIN & SLAGLE GeoEnvironmental Associates, LLC PO Box 1023 Black Mountain, NC 28711 828.669.3929 828.669.5289	SCALE = N/A REV: 1 DATE: 12/1/09 DR: SML CHK: RLM	**HEAD ELEVATIONS PER WELL vs TIME** Kuhlman Electric Corporation Crystal Springs, MS
	PREPARED FOR: BorgWarner Inc.	**APPENDIX E-18**

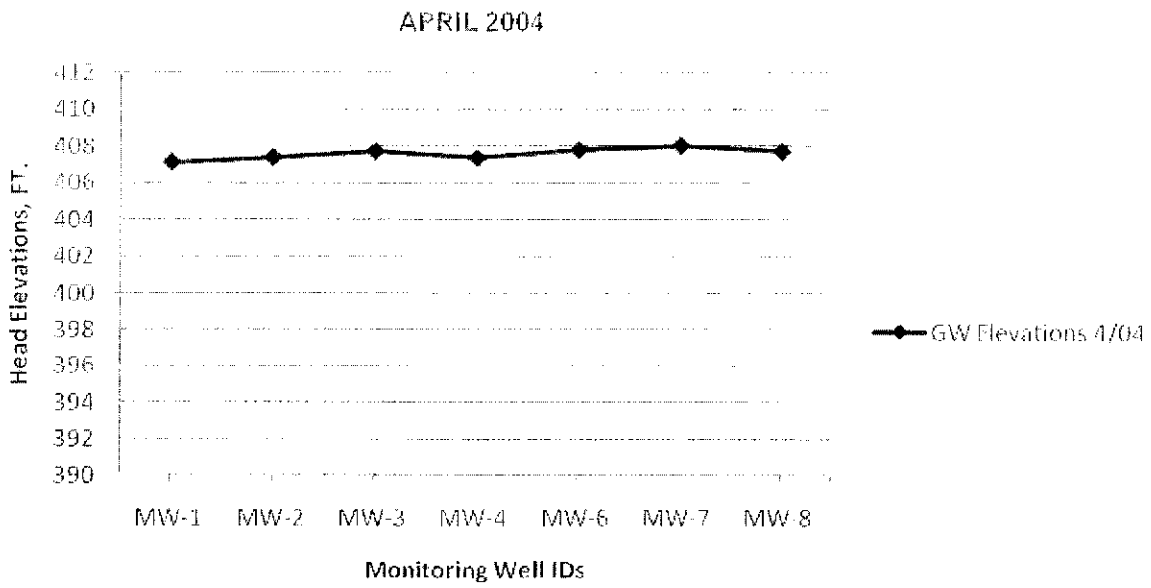


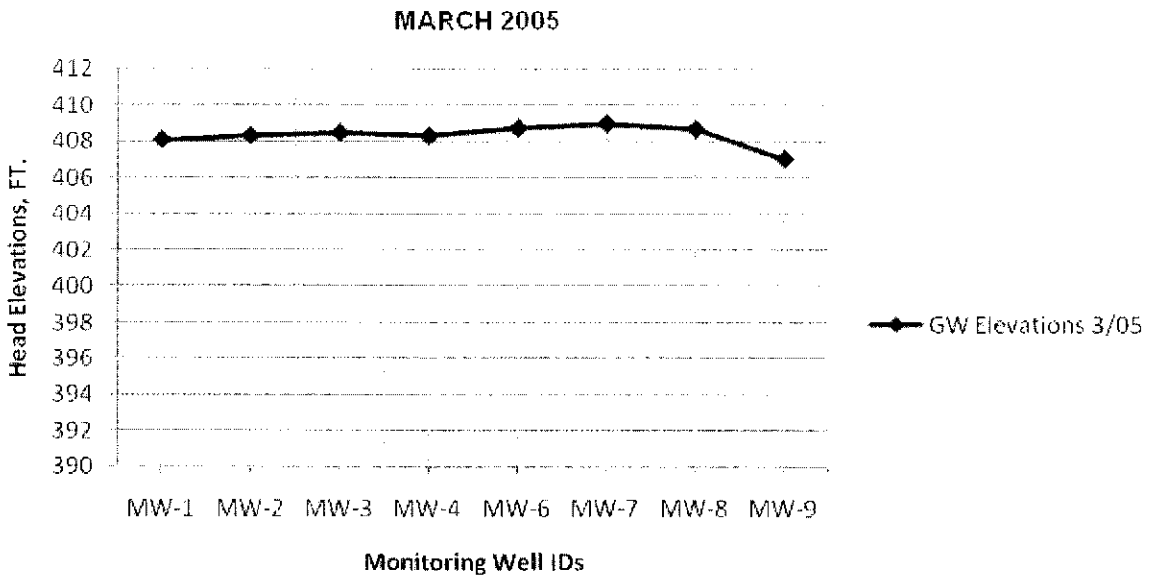


MARTIN & SLAGLE GeoEnvironmental Associates, LLC PO Box 1023 Black Mountain, NC 28711 828.669.3929 828.669.5289	SCALE = N/A REV: 1 DATE: 12/1/09 DR: SML CHK: RLM	**HEAD ELEVATIONS PER WELL vs TIME** Kuhlman Electric Corporation Crystal Springs, MS
	PREPARED FOR: BorgWarner Inc.	**APPENDIX E-19**

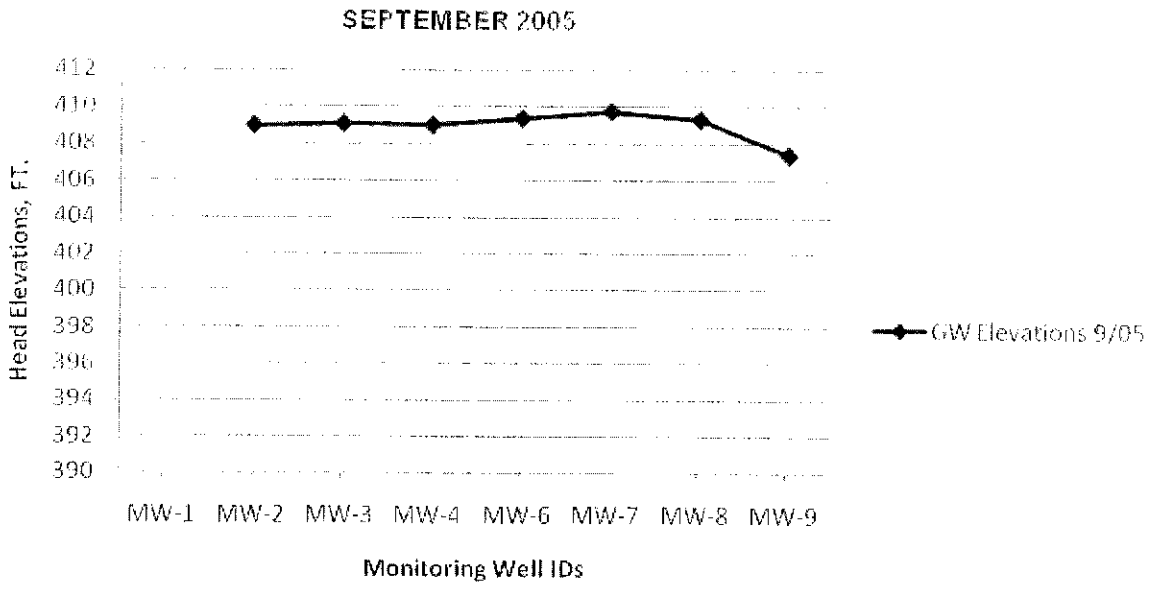


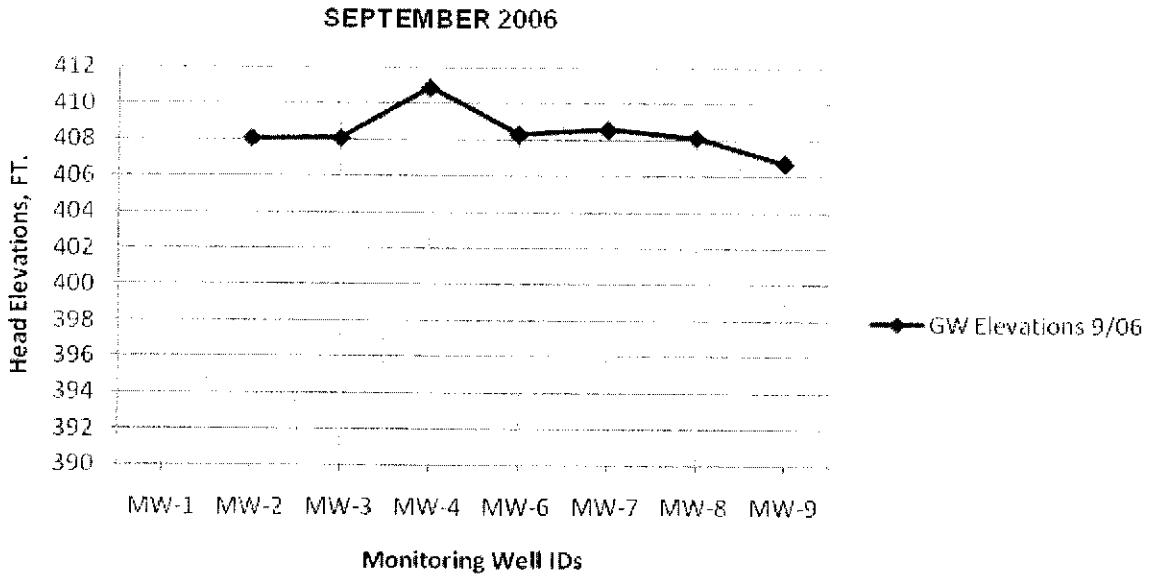
MARTIN & SLAGLE GeoEnvironmental Associates, LLC PO Box 1023 Black Mountain, NC 28711 828.669.3929 828.669.5289	SCALE = N/A REV: 1 DATE: 12/1/09 DR: SML CHK: RLM	**HEAD ELEVATIONS PER WELL vs TIME** Kuhlman Electric Corporation Crystal Springs, MS
	PREPARED FOR: BorgWarner Inc.	**APPENDIX E-20**



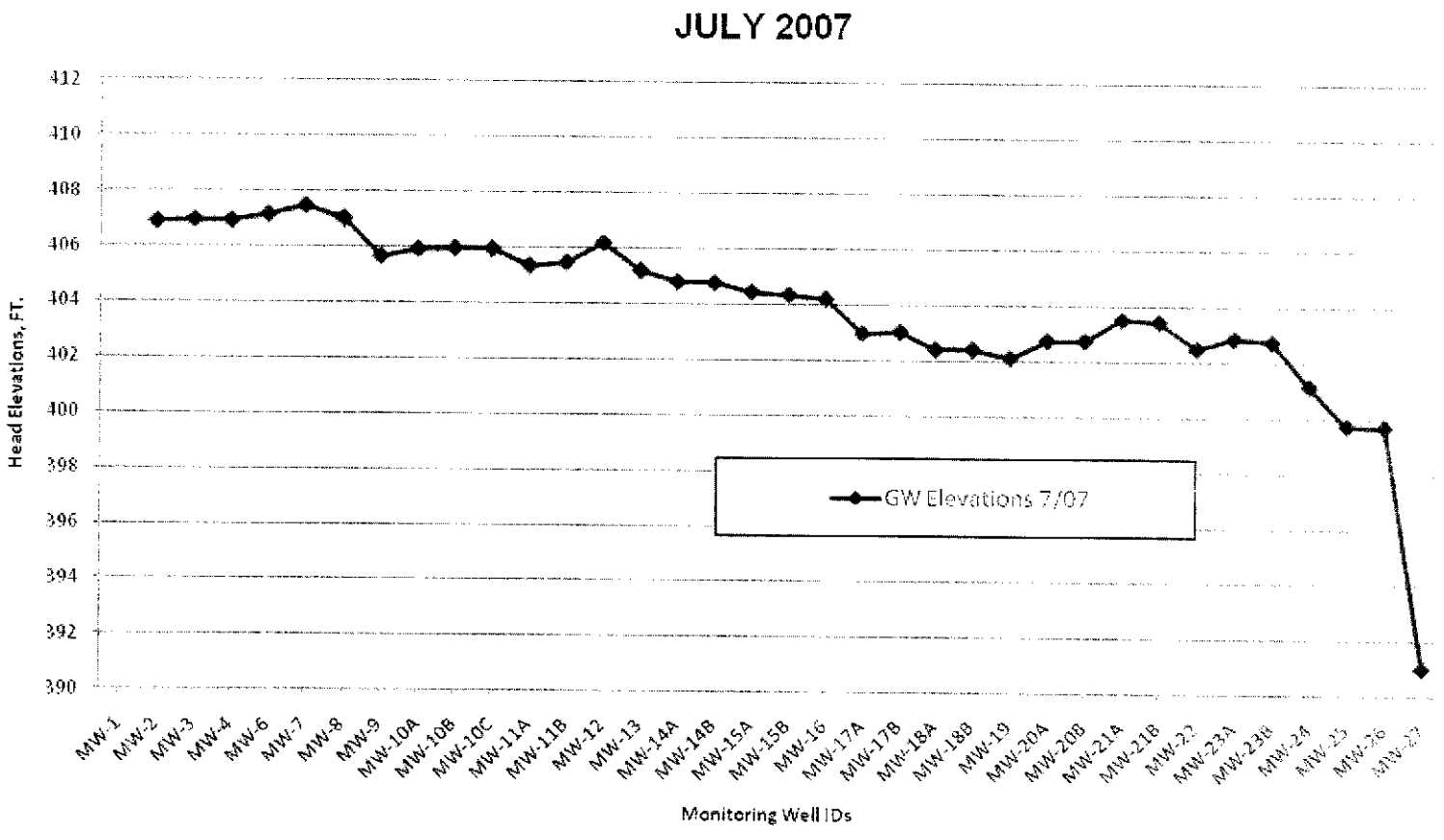


MARTIN SLAGLE GeoEnvironmental Associates, LLC PO Box 1023 Black Mountain, NC 28711 828.669.3929 828.669.5289	SCALE = N/A REV: 1 DATE: 12/1/09 DR: SML CHK: RLM	**HEAD ELEVATIONS PER WELL** Kuhlman Electric Corporation Crystal Springs, MS
	PREPARED FOR: BorgWarner Inc.	**APPENDIX E-21**

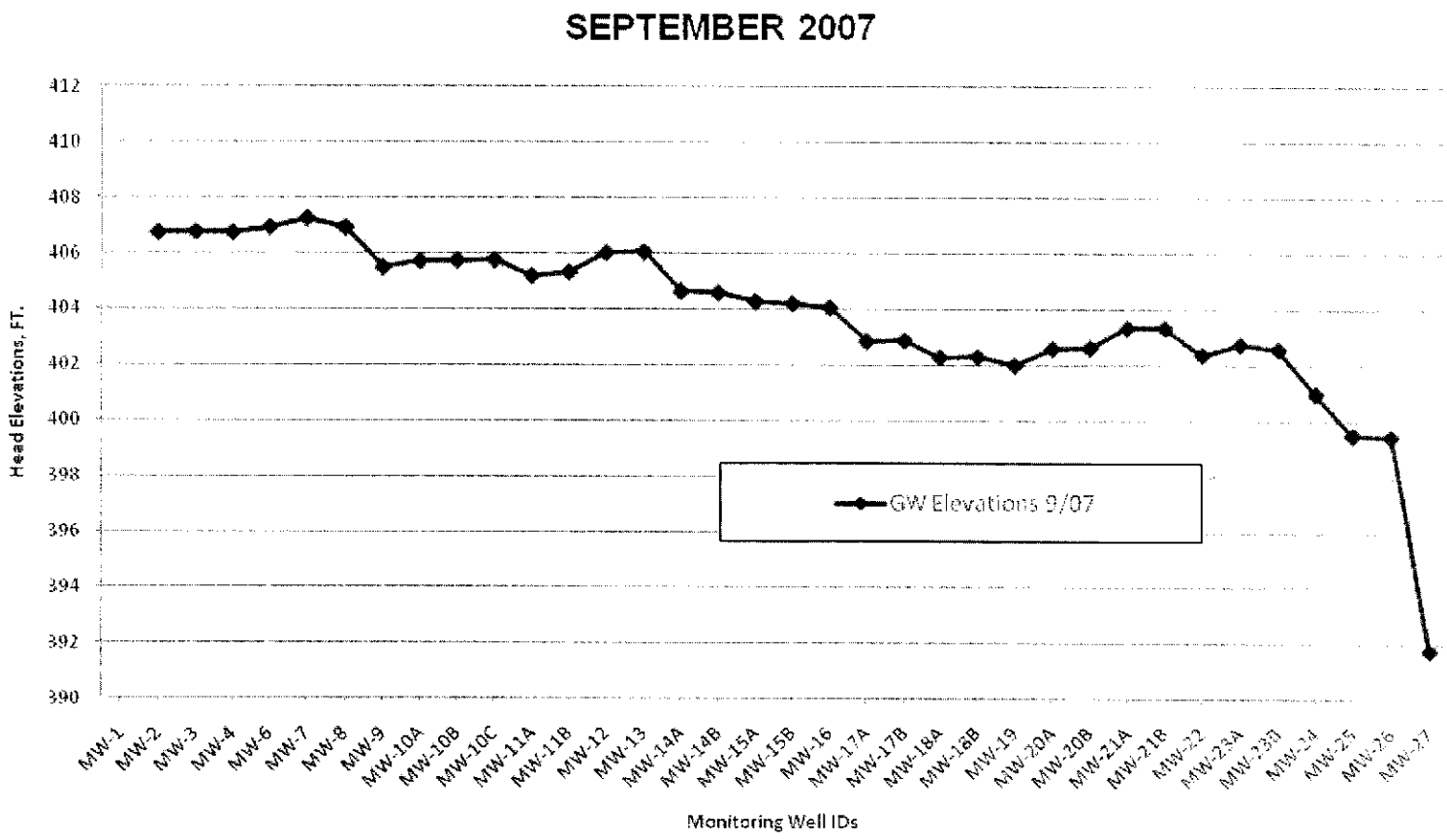




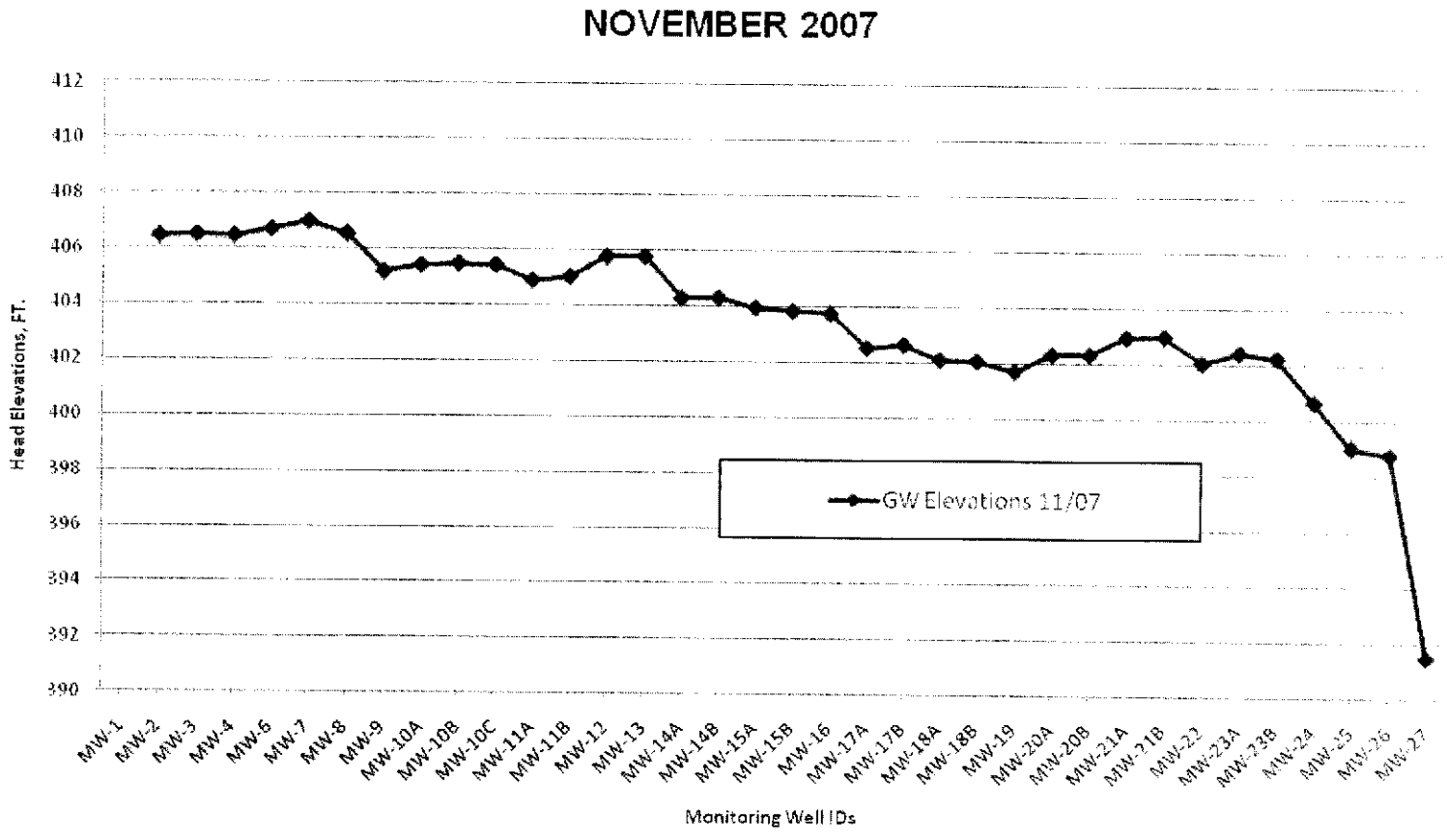
MARTIN SLAGLE GeoEnvironmental Associates, LLC PO Box 1023 Black Mountain, NC 28711 828.669.3929 828.669.5289	SCALE = N/A REV: 1 DATE: 12/1/09 DR: SML CHK: RLM	**HEAD ELEVATIONS PER WELL** Kuhlman Electric Corporation Crystal Springs, MS
	PREPARED FOR: BorgWarner Inc.	**APPENDIX E-22**



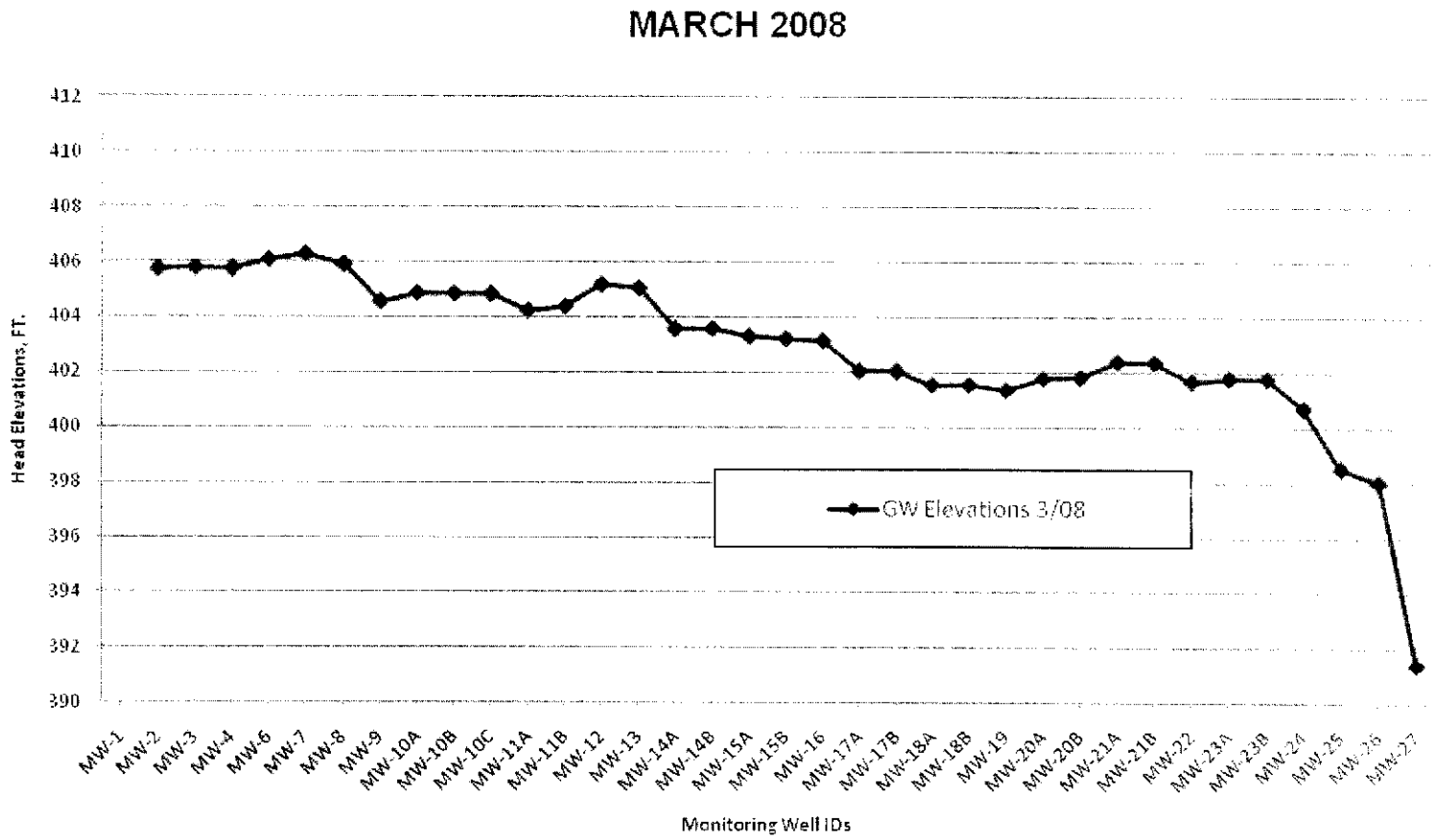
MARTIN & SLAGLE GeoEnvirionmental Associates, LLC PO Box 1023 Black Mountain NC 28711 828.669.3929 828.669.5289	PREPARED FOR: BorgWarner Inc.	SCALE = NA REV: 1 DATE: 12/1/2009 CHK: RLM DR: SML	APPENDIX E-23 HEAD ELEVATIONS PER WELL Kuhlman Electric Corporation Crystal Springs, MS



MARTIN & SLAGLE GeoEnvirionmental Associates, LLC PO Box 1023 Black Mountain NC 28711 828.669.3929 828.669.5289	PREPARED FOR: BorgWarner Inc.	SCALE = NA REV: 1 DATE: 12/1/2009 CHK: RLM DR: SML	**APPENDIX E-24** **HEAD ELEVATIONS PER WELL** Kuhlman Electric Corporation Crystal Springs, MS



MARTIN & SLAGLE GeoEnvirionmental Associates, LLC PO Box 1023 Black Mountain NC 28711 828.669.3929 828.669.5289	PREPARED FOR: BorgWarner Inc.	SCALE = NA REV: 1 DATE: 12/1/2009 CHK: RLM DR: SML	**APPENDIX E-25** **HEAD ELEVATIONS PER WELL** Kuhlman Electric Corporation Crystal Springs, MS



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Black Mountain NC 28711
828.669.3929 828.669.5289

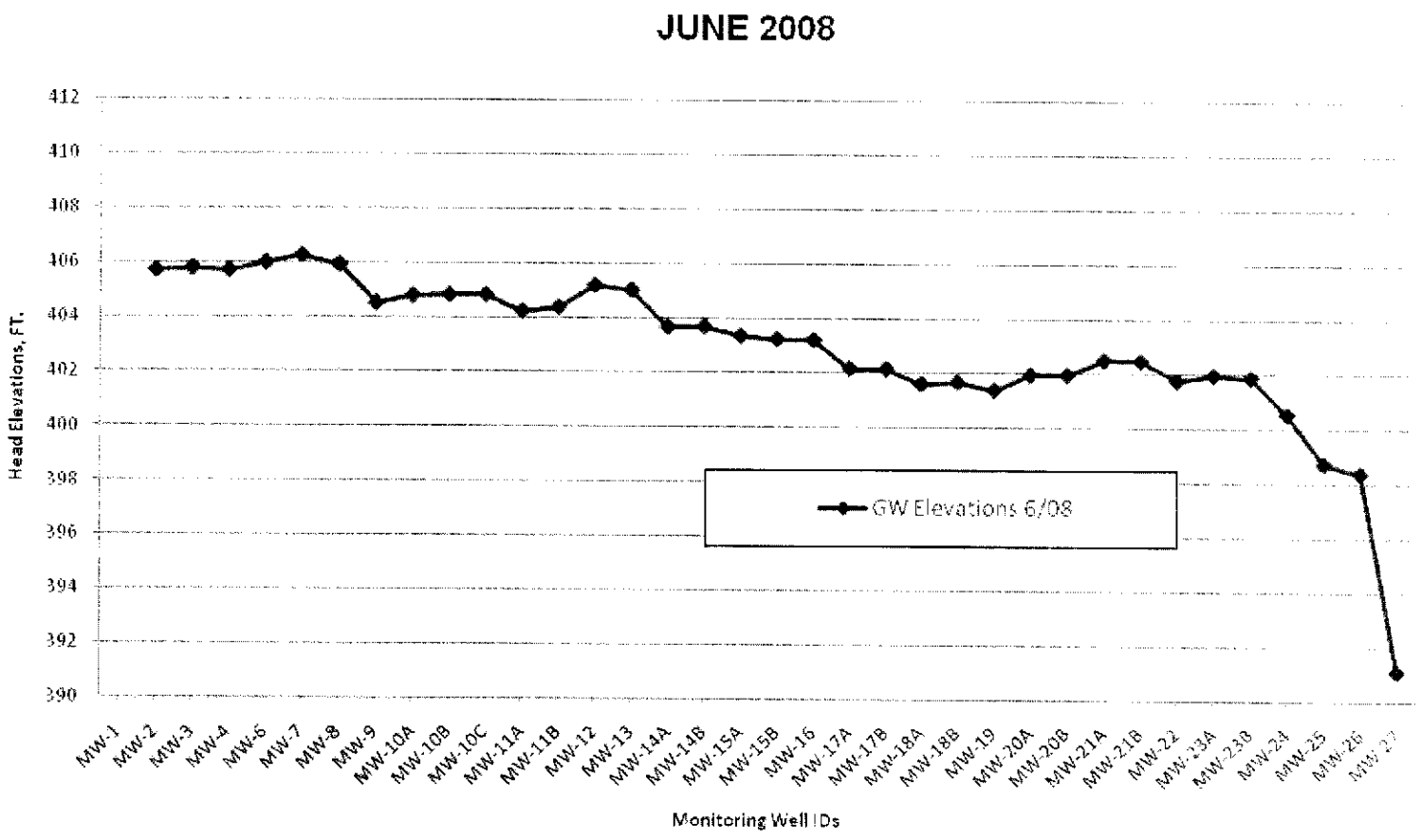
PREPARED FOR:

BorgWarner Inc.

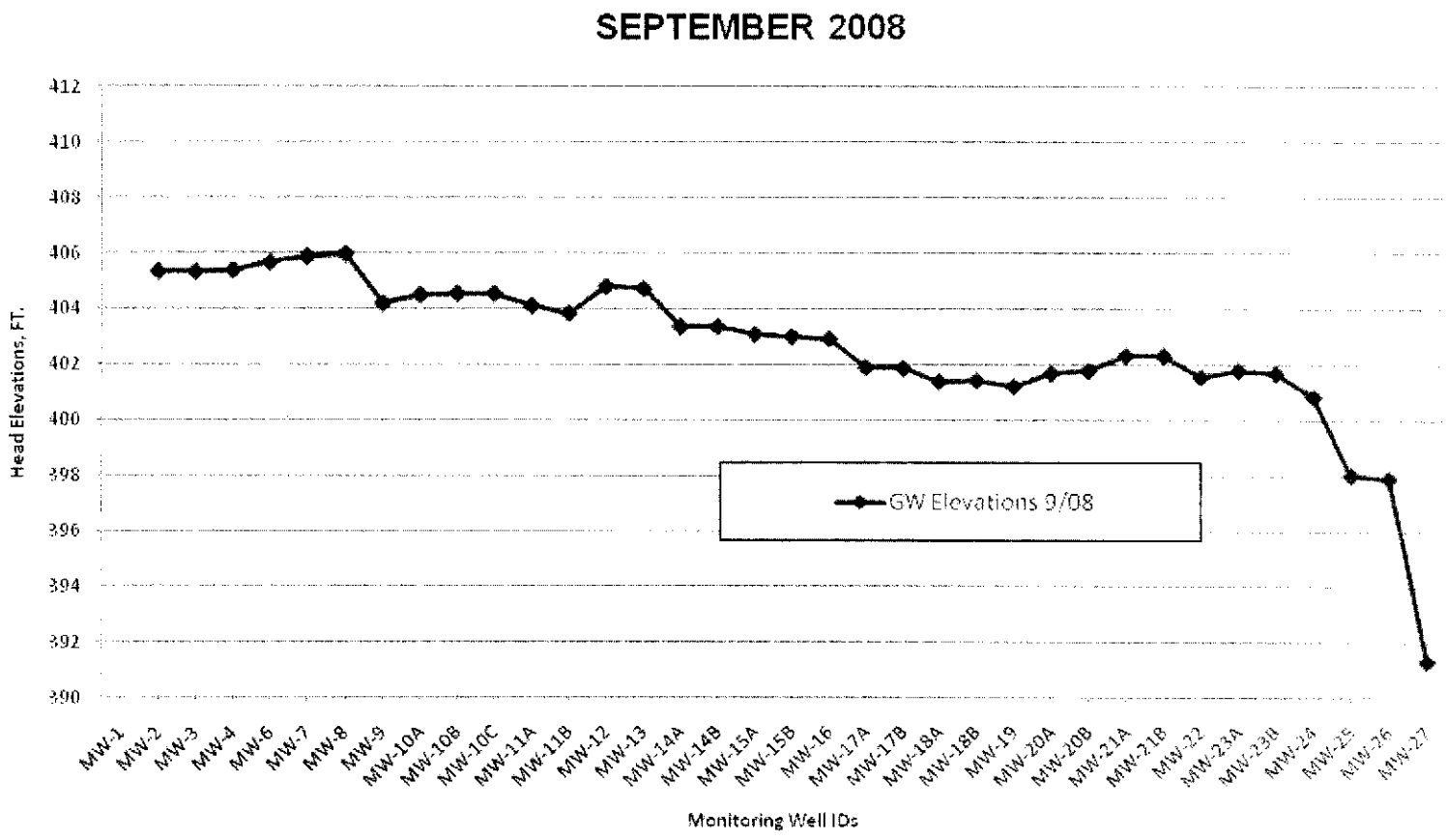
SCALE = NA	
REV: 1	
DATE: 12/1/2009	
CHK: RLM	
DR: SML	

APPENDIX E-26

HEAD ELEVATIONS PER WELL
Kuhlman Electric Corporation
Crystal Springs, MS



MARTIN & SLAGLE GeoEnvirionmental Associates, LLC PO Box 1023 Black Mountain NC 28711 828.669.3929 828.669.5289	PREPARED FOR: BorgWarner Inc.	SCALE = NA REV: 1 DATE: 12/1/2009 CHK: RLM DR: SML	APPENDIX E-27 HEAD ELEVATIONS PER WELL Kuhlman Electric Corporation Crystal Springs, MS



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828.669.3929 828.669.5289

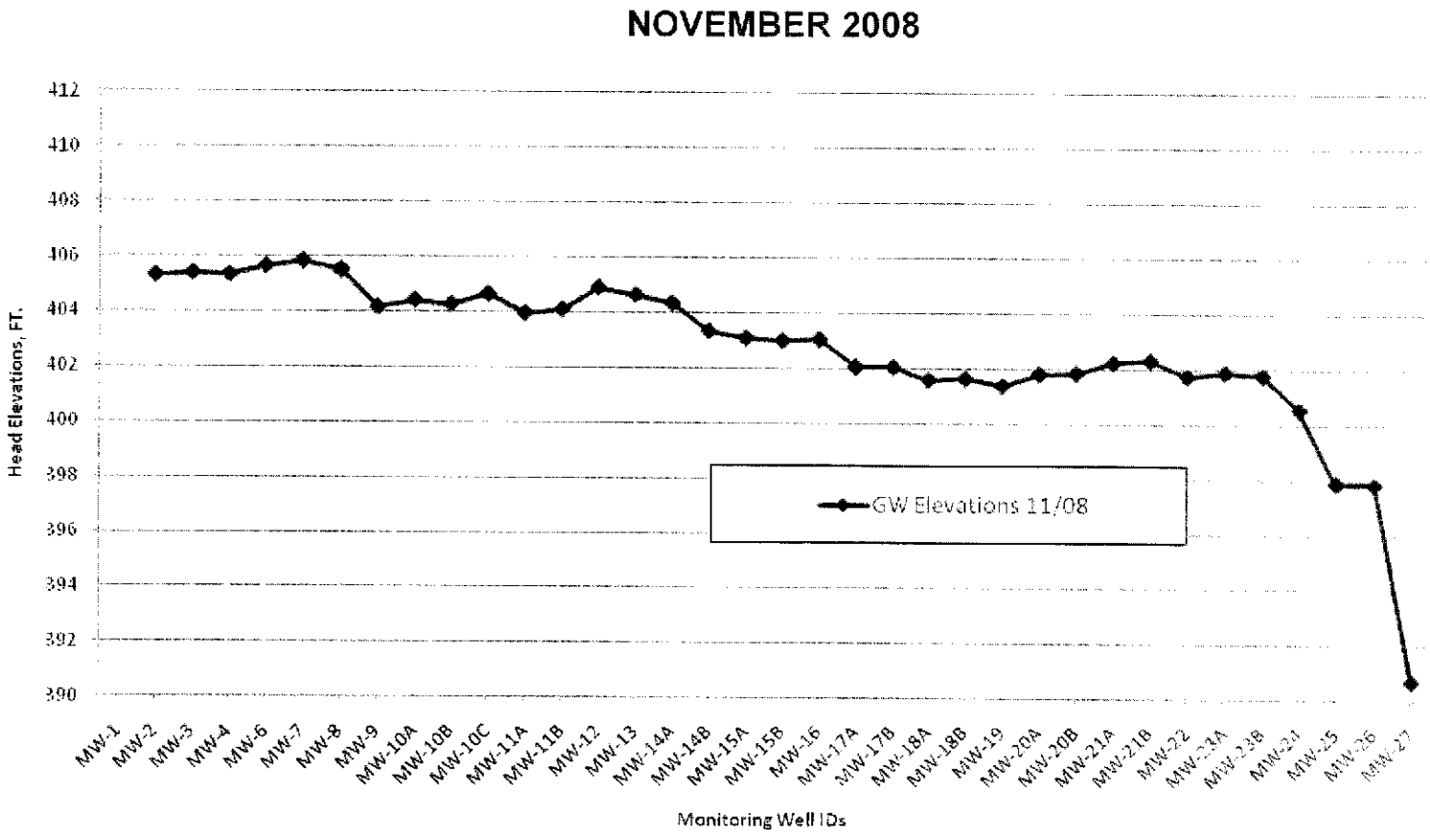
PREPARED FOR:

BorgWarner Inc.

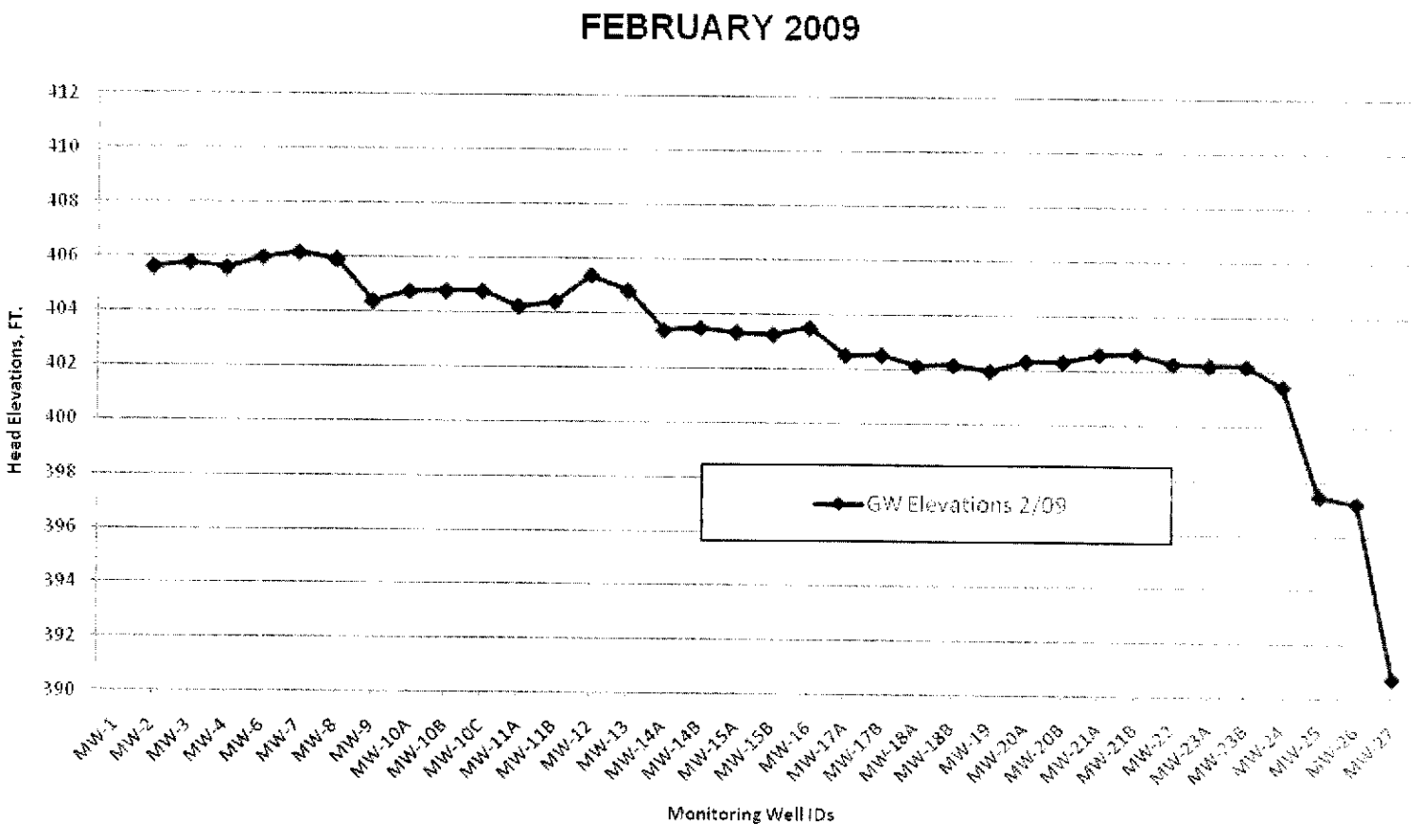
SCALE = NA	
REV: 1	
DATE: 12/1/2009	
CHK: RLM	
DR: SML	

APPENDIX E-28

HEAD ELEVATIONS PER WELL
Kuhlman Electric Corporation
Crystal Springs, MS



MARTIN SLAGLE GeoEnvirionmental Associates, LLC PO Box 1023 Black Mountain NC 28711 828.669.3929 828.669.5289	PREPARED FOR: BorgWarner Inc.	SCALE = NA REV: 1 DATE: 12/1/2009 CHK: RLM DR: SML	APPENDIX E-29 HEAD ELEVATIONS PER WELL Kuhlman Electric Corporation Crystal Springs, MS



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GeoEnvirionmental Associates, LLC

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Black Mountain NC 28711
828.669.3929 828.669.5289

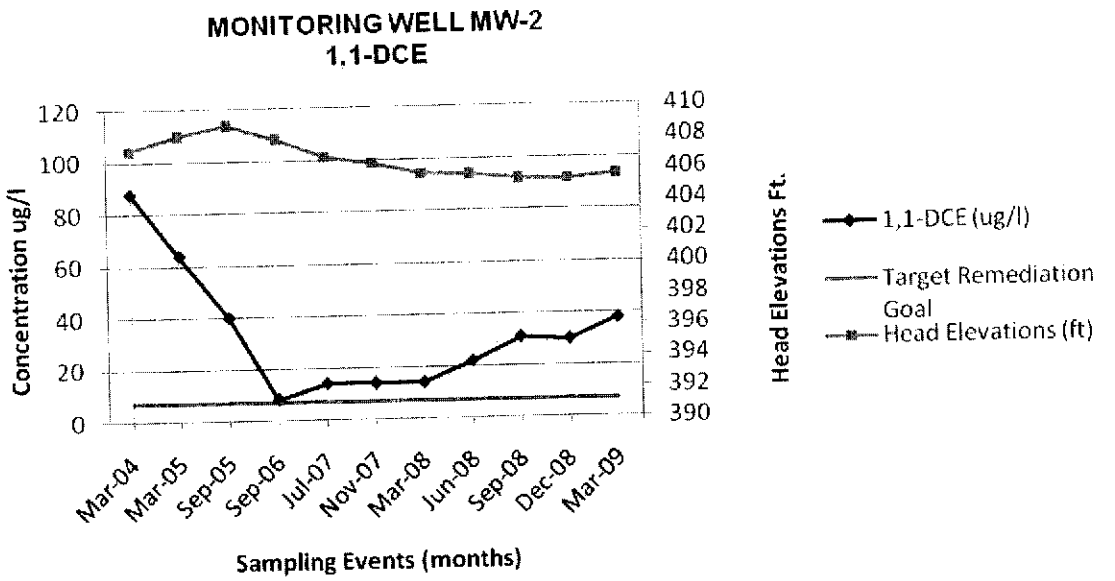
PREPARED FOR:

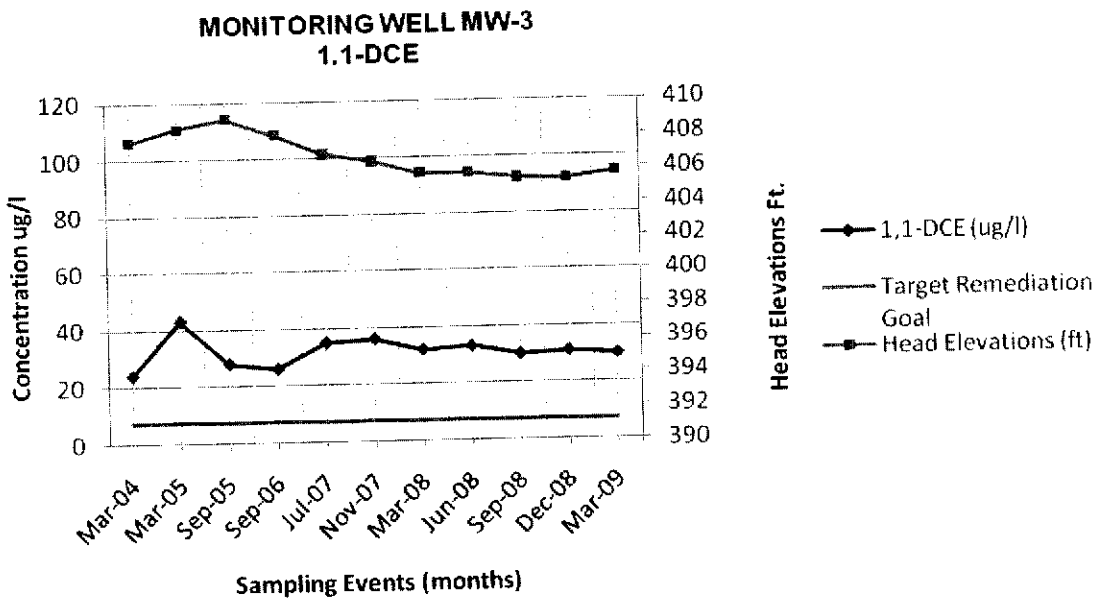
BorgWarner Inc.

SCALE = NA	
REV: 1	
DATE: 12/1/2009	
CHK: RLM	
DR: SML	

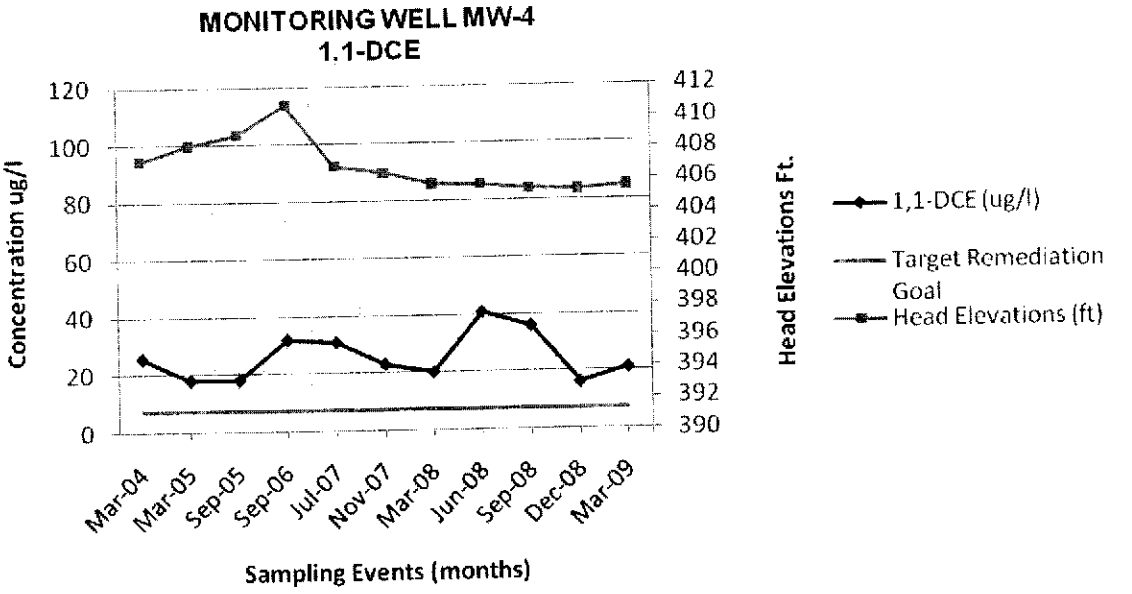
APPENDIX E-30

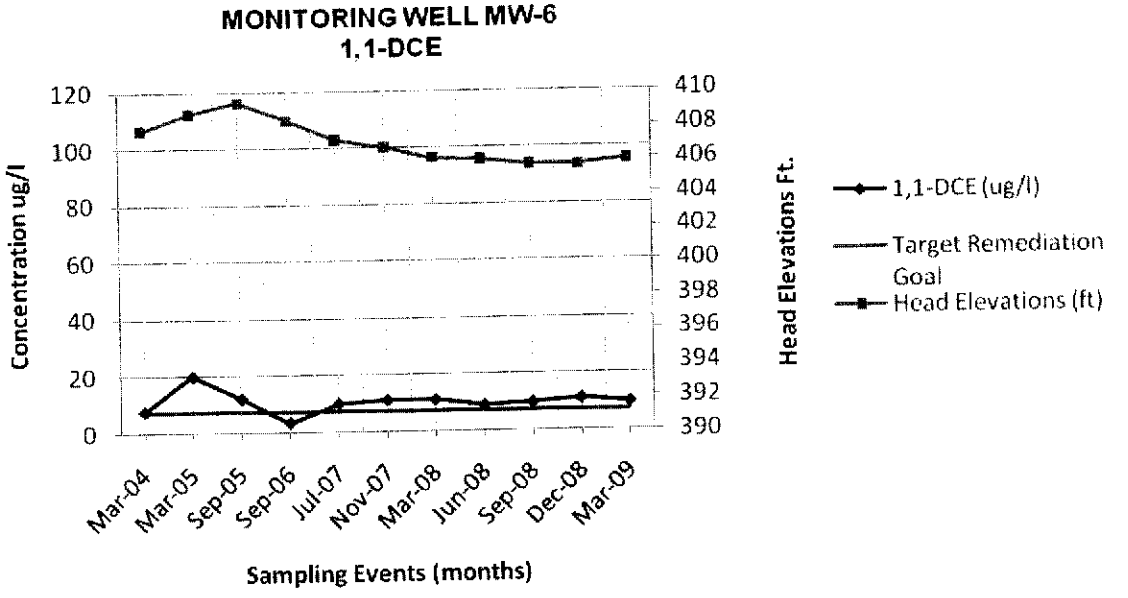
HEAD ELEVATIONS PER WELL
Kuhlman Electric Corporation
Crystal Springs, MS



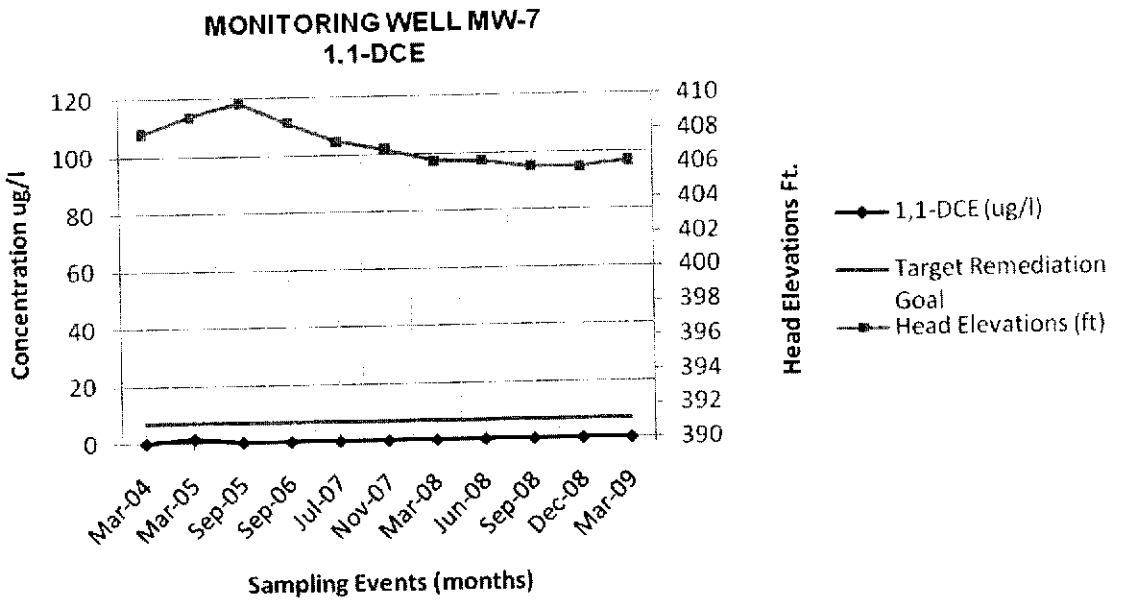


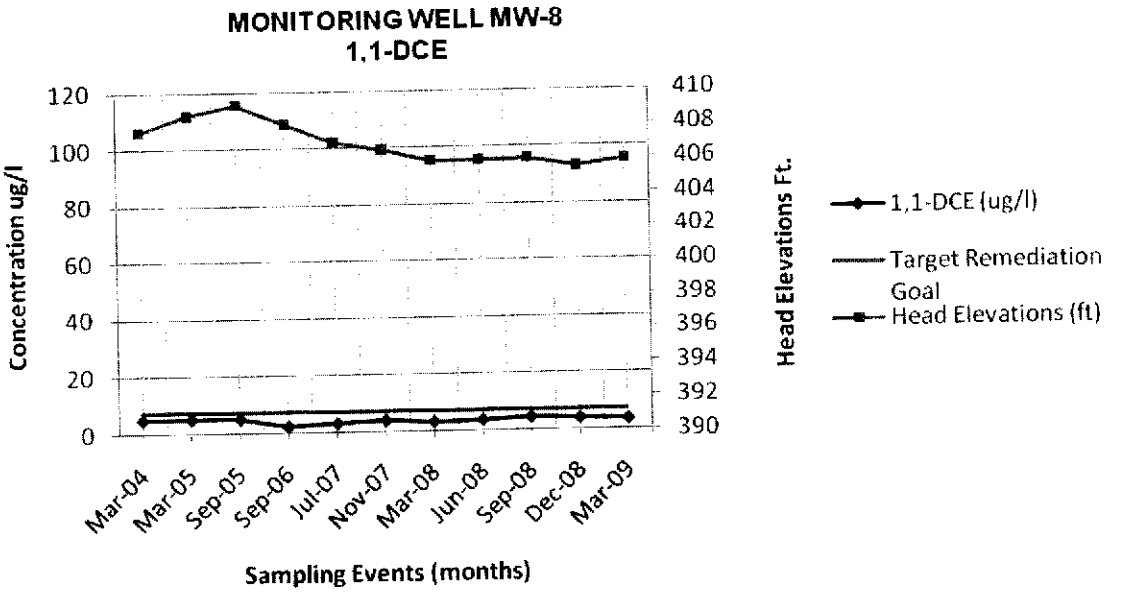
MARTIN & SLAGLE GeoEnvironmental Associates, LLC PO Box 1023 Black Mountain, NC 28711 828.669.3929 828.669.5289	SCALE = N/A REV: 1 DATE: 11/17/09 DR: SML CHK: RLM	**1,1-DCE CONCENTRATIONS vs TIME** Kuhlman Electric Corporation Crystal Springs, MS
	PREPARED FOR: BorgWarner Inc.	**APPENDIX G-1**



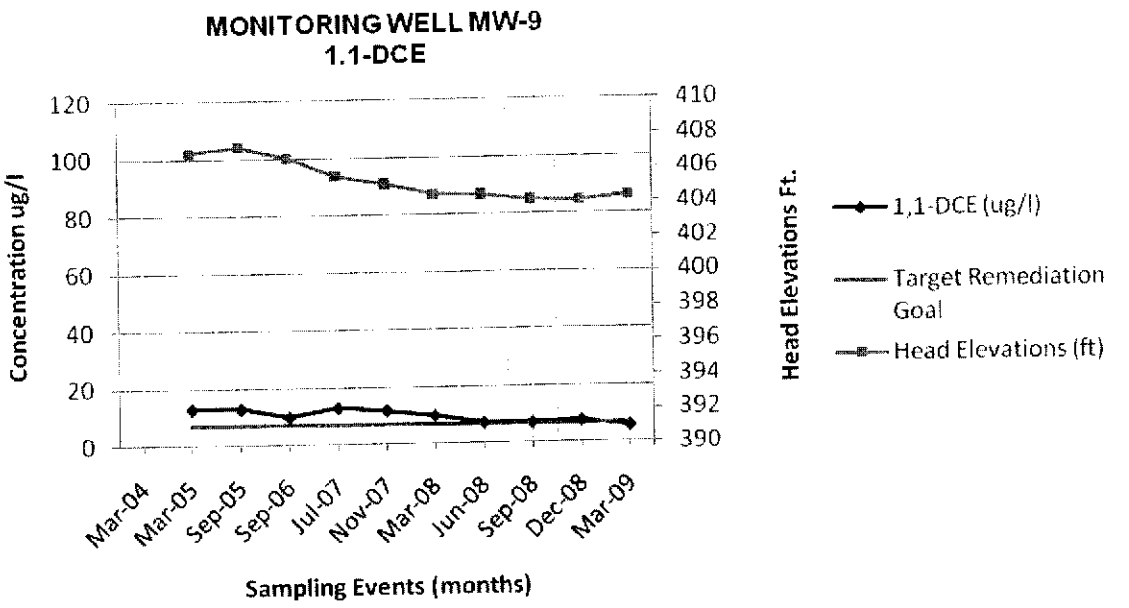


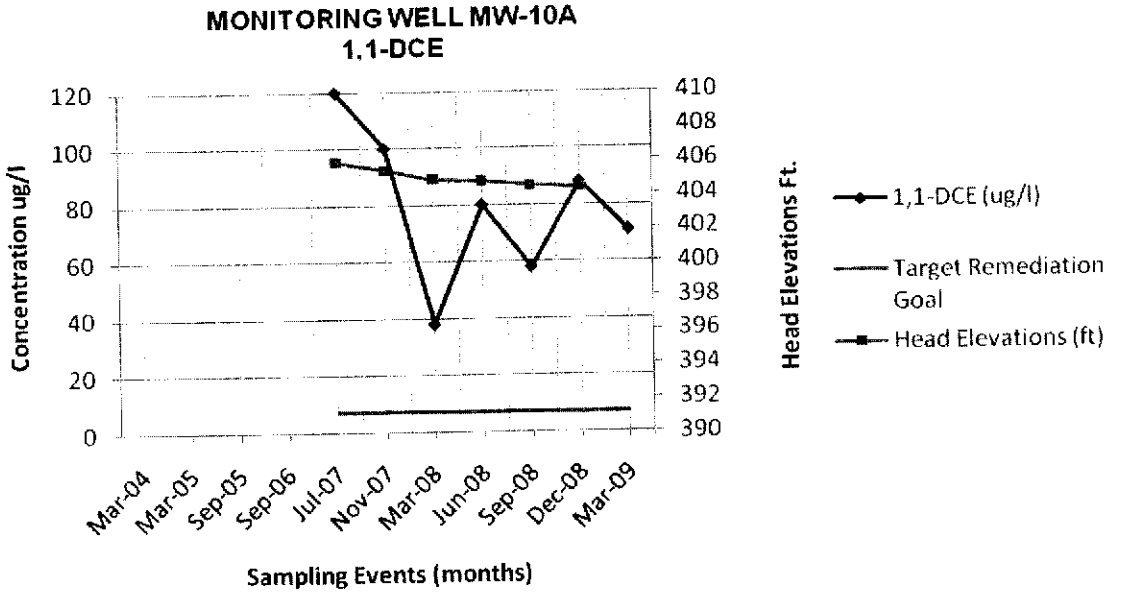
MARTIN & SLAGLE GeoEnvironmental Associates, LLC PO Box 1023 Black Mountain, NC 28711 828.669.3929 828.669.5289	SCALE = N/A REV: 1 DATE: 11/17/09 DR: SML CHK: RLM	**1,1-DCE CONCENTRATIONS vs TIME** Kuhlman Electric Corporation Crystal Springs, MS
	PREPARED FOR: BorgWarner Inc.	**APPENDIX G-2**



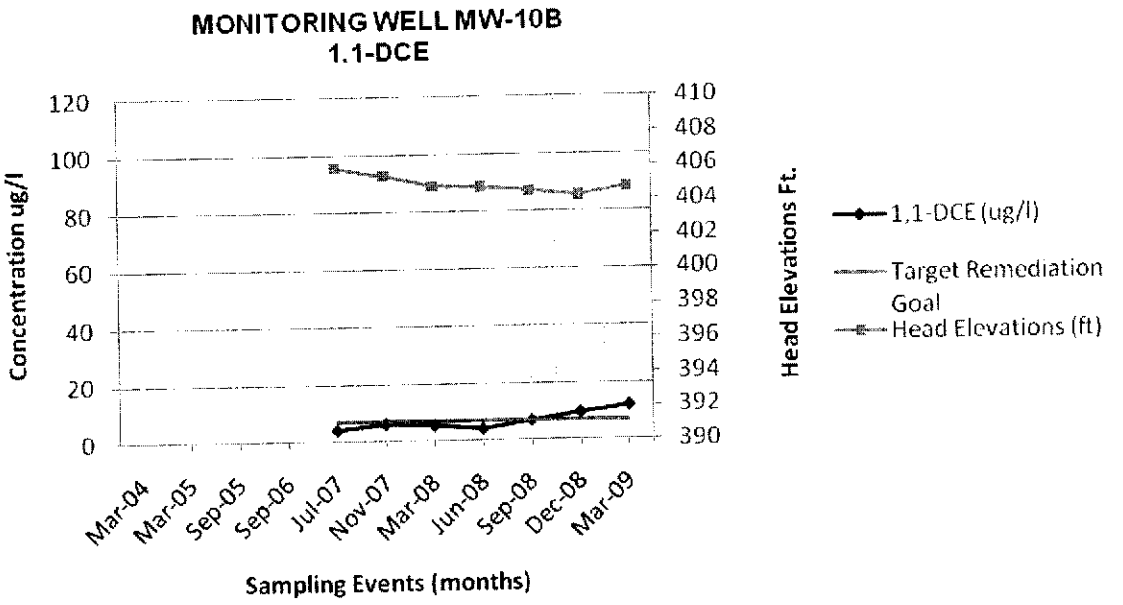


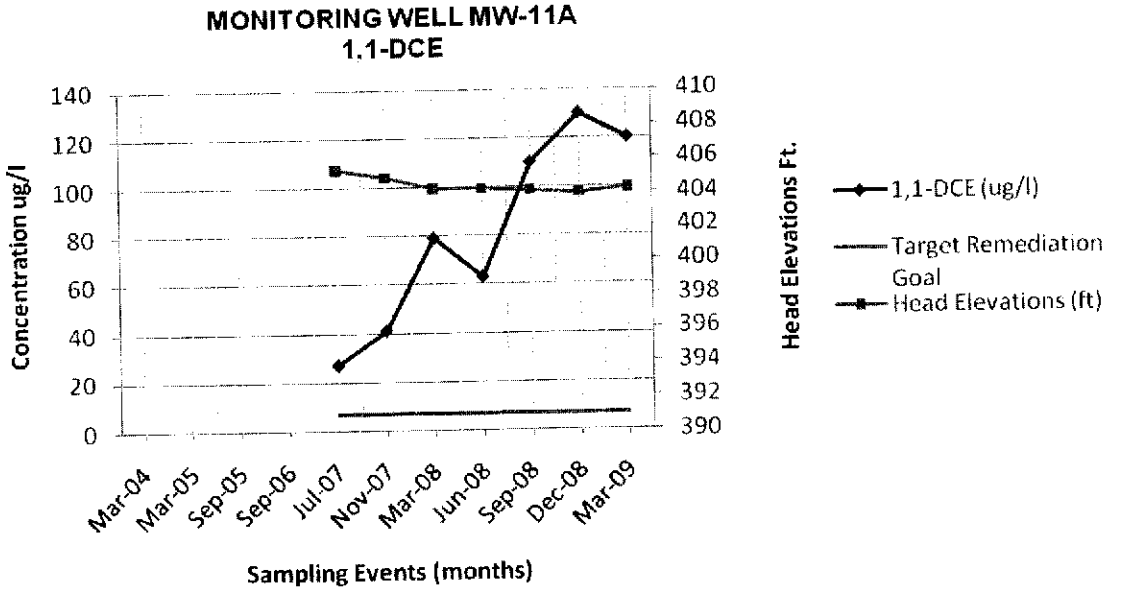
MARTIN & SLAGLE GeoEnvironmental Associates, LLC PO Box 1023 Black Mountain, NC 28711 828.669.3929 828.669.5289	SCALE = N/A REV: 1 DATE: 11/17/09 DR: SML CHK: RLM	**1,1-DCE CONCENTRATIONS vs TIME** Kuhlman Electric Corporation Crystal Springs, MS
	PREPARED FOR: BorgWarner Inc.	**APPENDIX G-3**



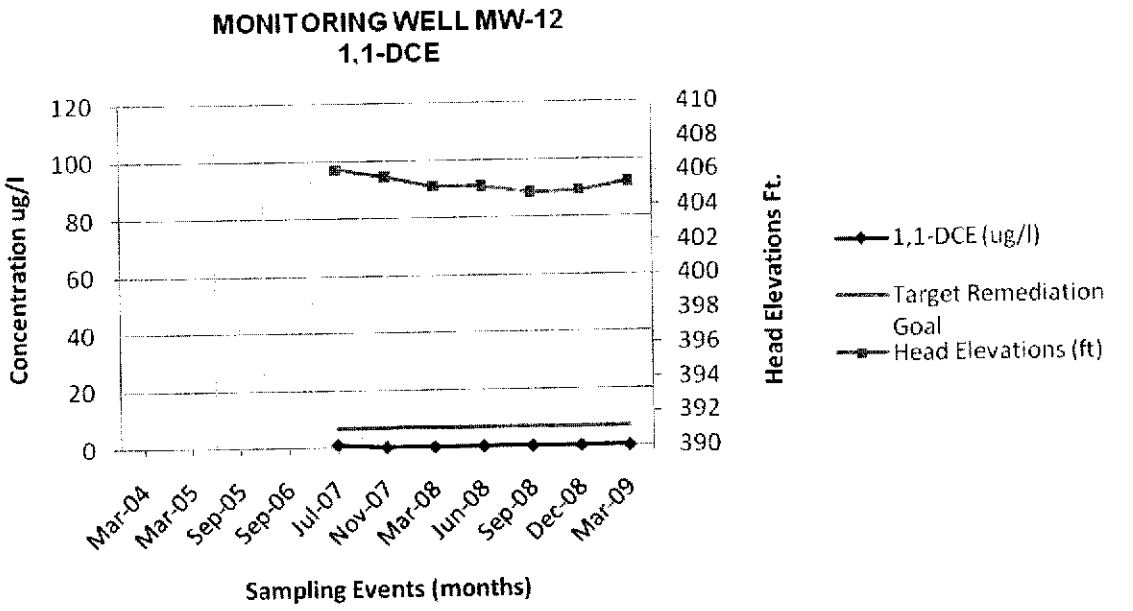


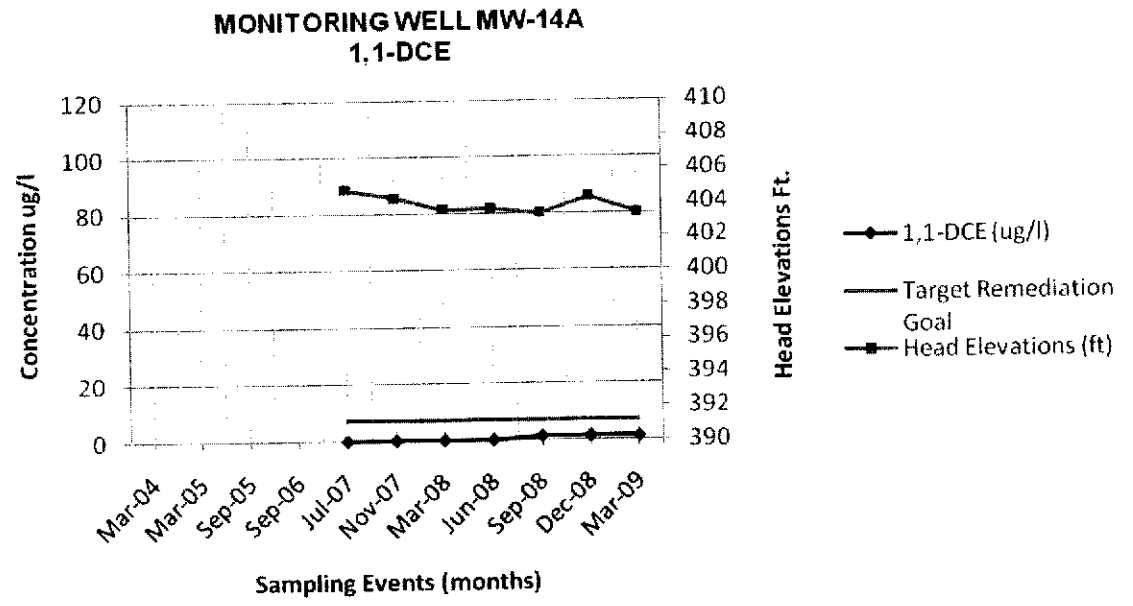
MARTIN & SLAGLE GeoEnvironmental Associates, LLC PO Box 1023 Black Mountain, NC 28711 828.669.3929 828.669.5289	SCALE = N/A REV: 1 DATE: 11/17/09 DR: SML CHK: RLM	**1,1-DCE CONCENTRATIONS vs TIME** Kuhlman Electric Corporation Crystal Springs, MS
	PREPARED FOR: BorgWarner Inc.	**APPENDIX G-4**



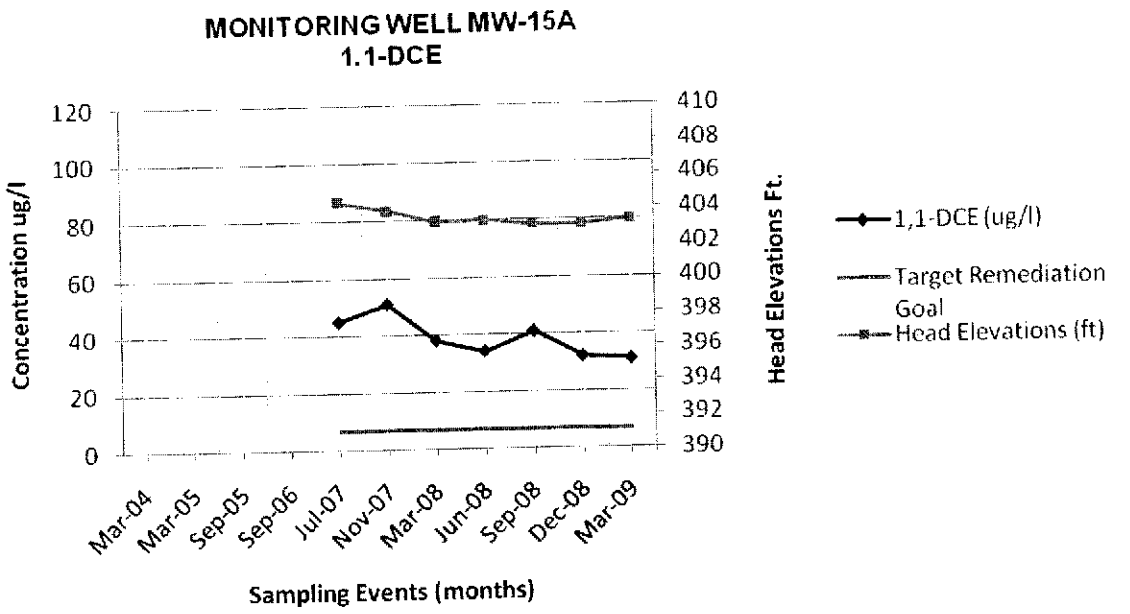


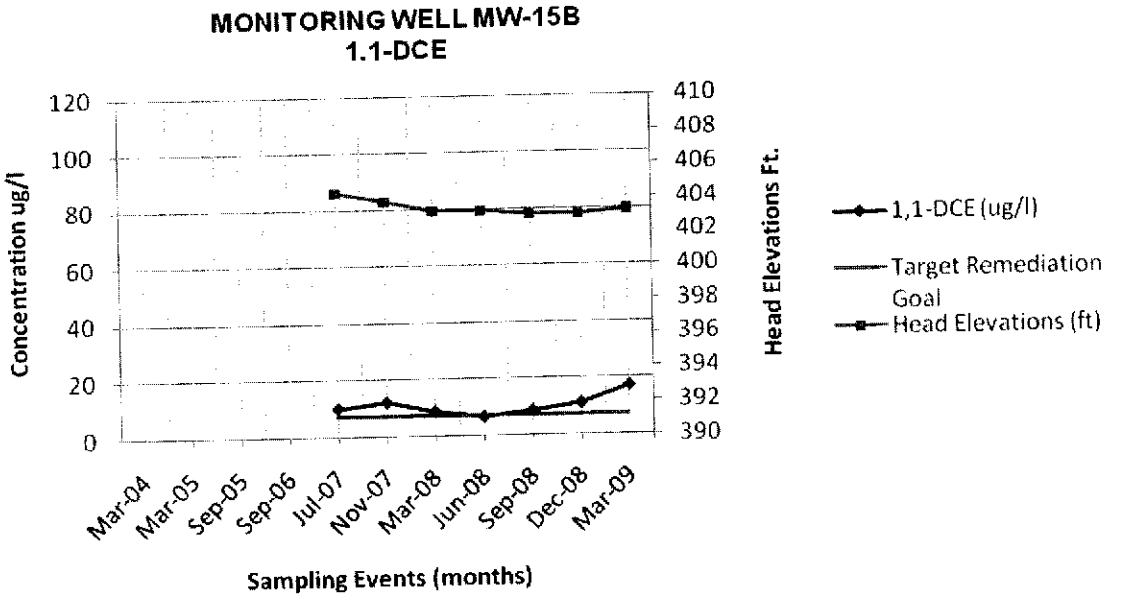
MARTIN & SLAGLE GeoEnvironmental Associates, LLC PO Box 1023 Black Mountain, NC 28711 828.669.3929 828.669.5289	SCALE = N/A REV: 1 DATE: 11/17/09 DR: SML CHK: RLM	**1,1-DCE CONCENTRATIONS vs TIME** Kuhlman Electric Corporation Crystal Springs, MS
	PREPARED FOR: BorgWarner Inc.	**APPENDIX G-5**



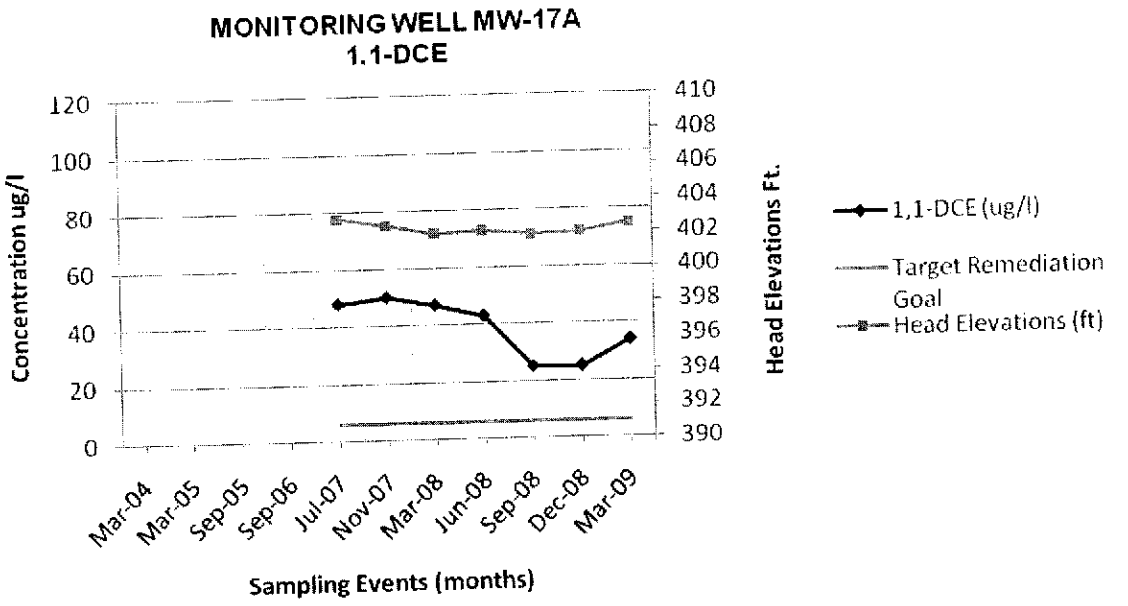


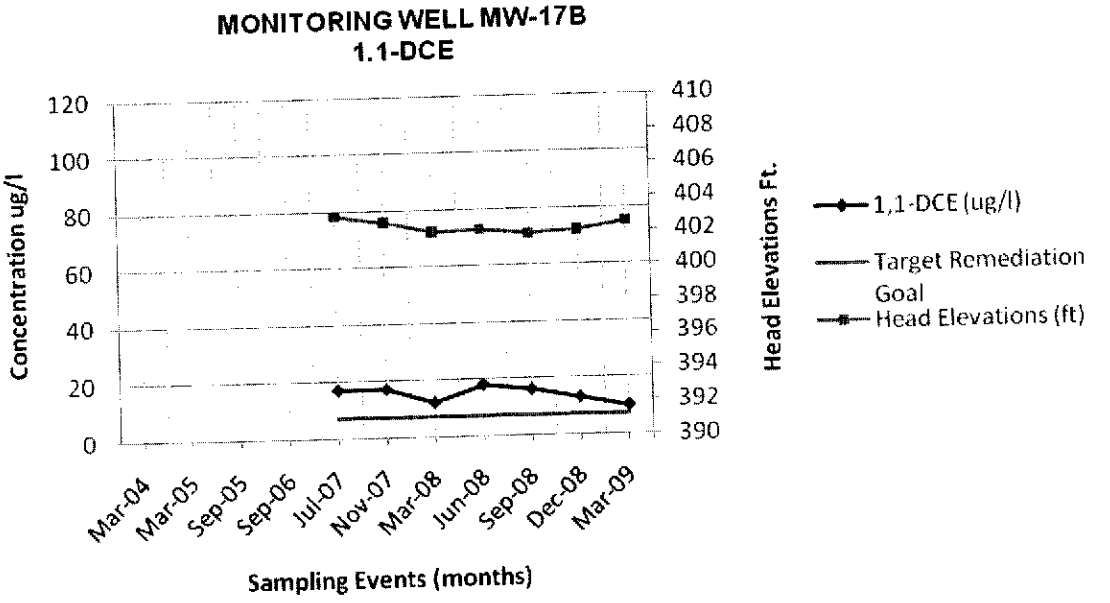
MARTIN SLAGLE GeoEnvironmental Associates, LLC PO Box 1023 Black Mountain, NC 28711 828.669.3929 828.669.5289	SCALE = N/A REV: 1 DATE: 11/17/09 DR: SML CHK: RLM	**1,1-DCE CONCENTRATIONS vs TIME** Kuhlman Electric Corporation Crystal Springs, MS
	PREPARED FOR: BorgWarner Inc.	**APPENDIX G-6**



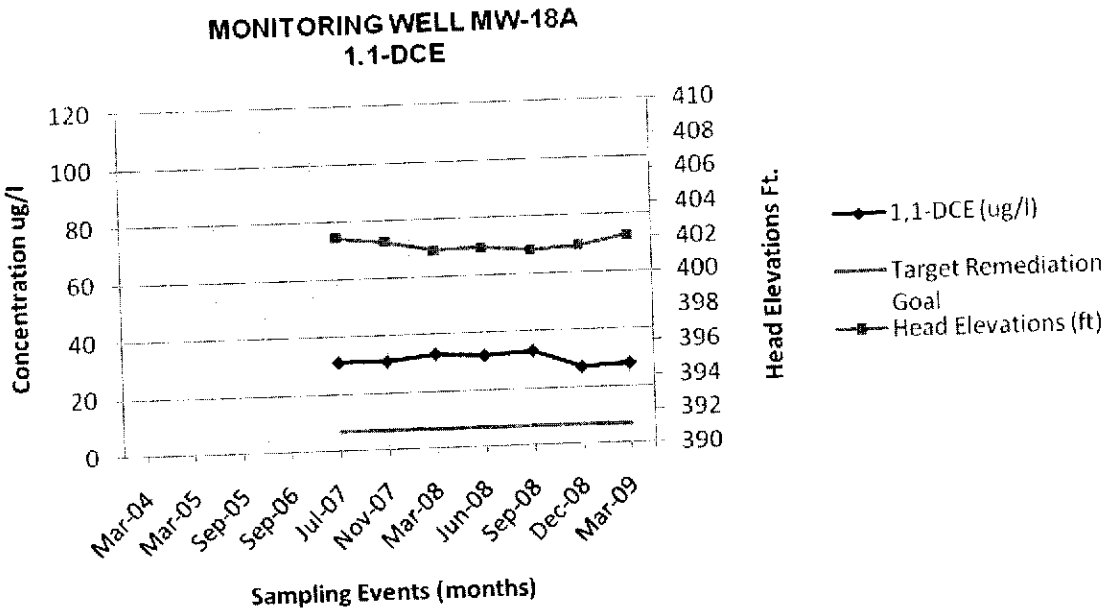


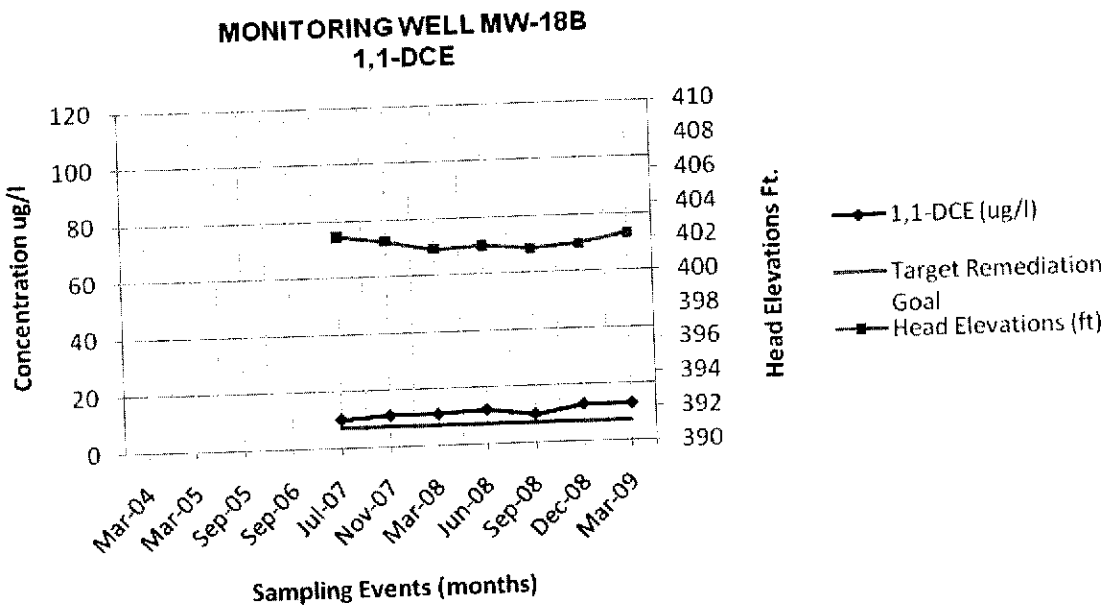
MARTIN SLAGLE GeoEnvironmental Associates, LLC PO Box 1023 Black Mountain, NC 28711 828.669.3929 828.669.5289	SCALE = N/A REV: 1 DATE: 11/17/09 DR: SML CHK: RLM	**1,1-DCE CONCENTRATIONS vs TIME** Kuhlman Electric Corporation Crystal Springs, MS
	PREPARED FOR: BorgWarner Inc.	**APPENDIX G-7**



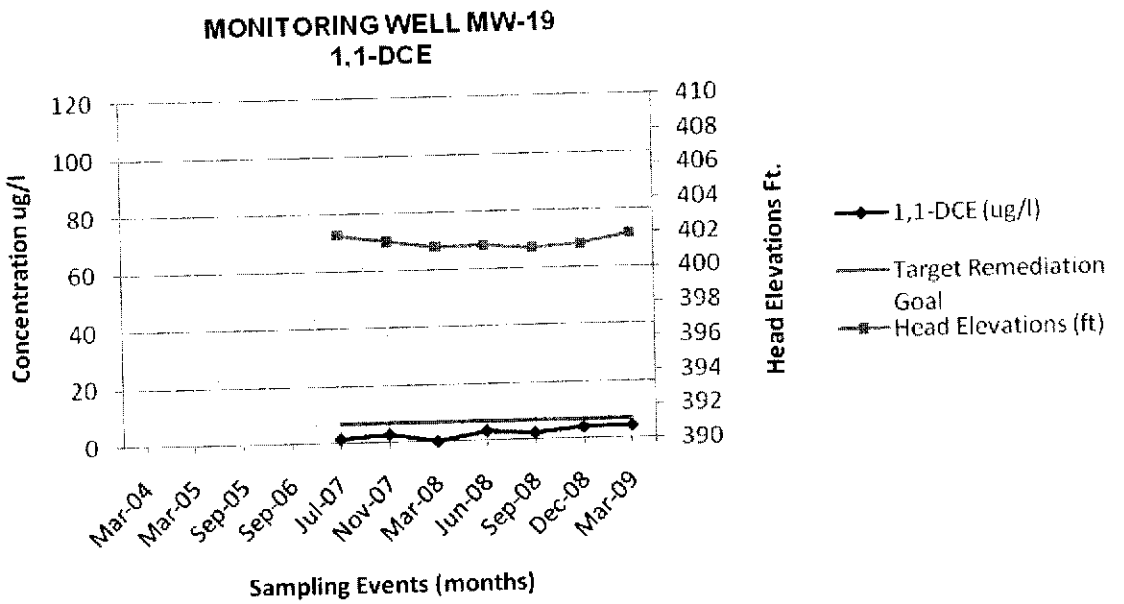


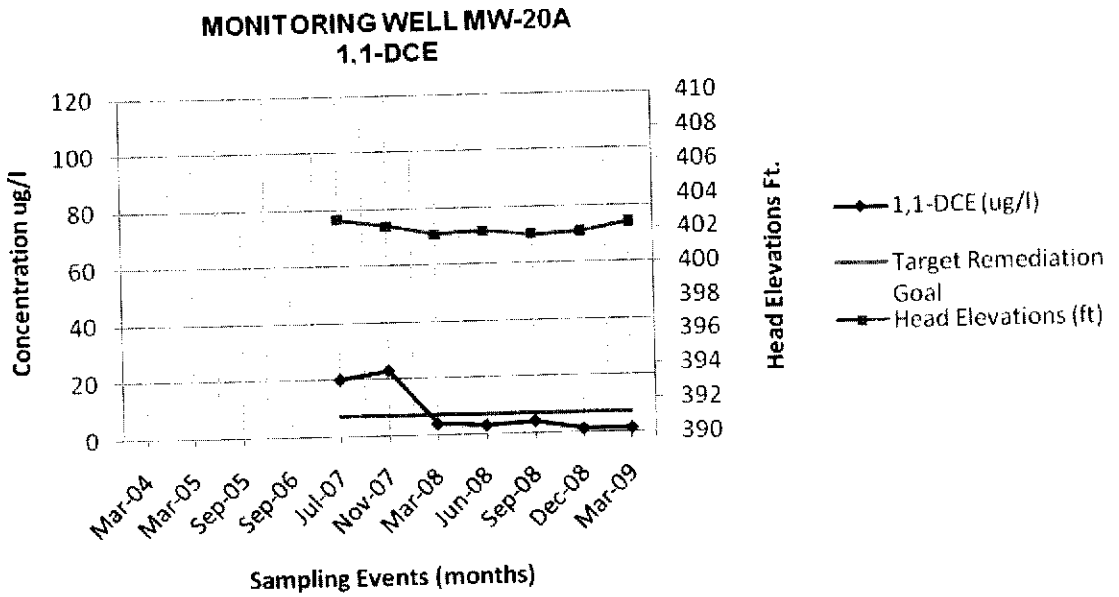
MARTIN & SLAGLE GeoEnvironmental Associates, LLC PO Box 1023 Black Mountain, NC 28711 828.669.3929 828.669.5289	SCALE = N/A REV: 1 DATE: 11/17/09 DR: SML CHK: RLM	**1,1-DCE CONCENTRATIONS vs TIME** Kuhlman Electric Corporation Crystal Springs, MS
	PREPARED FOR: BorgWarner Inc.	**APPENDIX G-8**



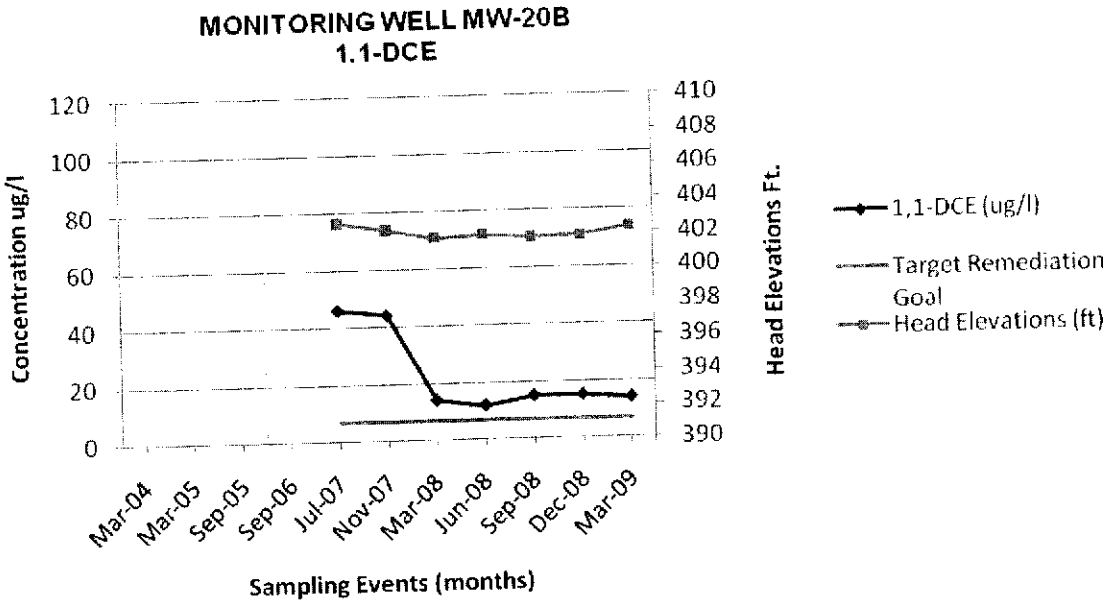


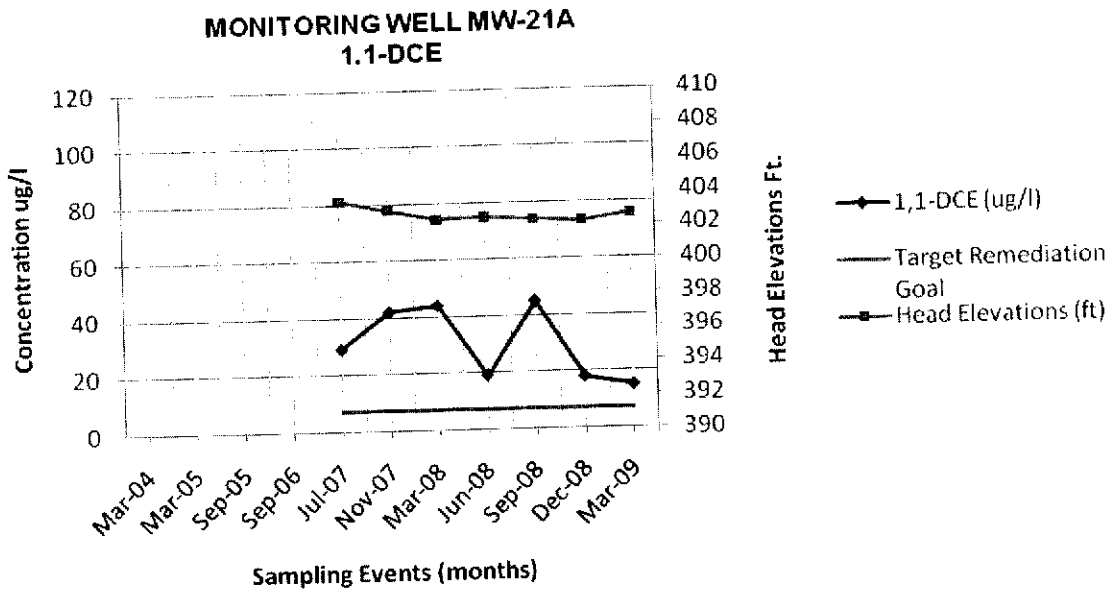
MARTIN SLAGLE GeoEnvironmental Associates, LLC PO Box 1023 Black Mountain, NC 28711 828.669.3929 828.669.5289	SCALE = N/A REV: 1 DATE: 11/17/09 DR: SML CHK: RLM	**1,1-DCE CONCENTRATIONS vs TIME** Kuhlman Electric Corporation Crystal Springs, MS
	PREPARED FOR: BorgWarner Inc.	**APPENDIX G-9**



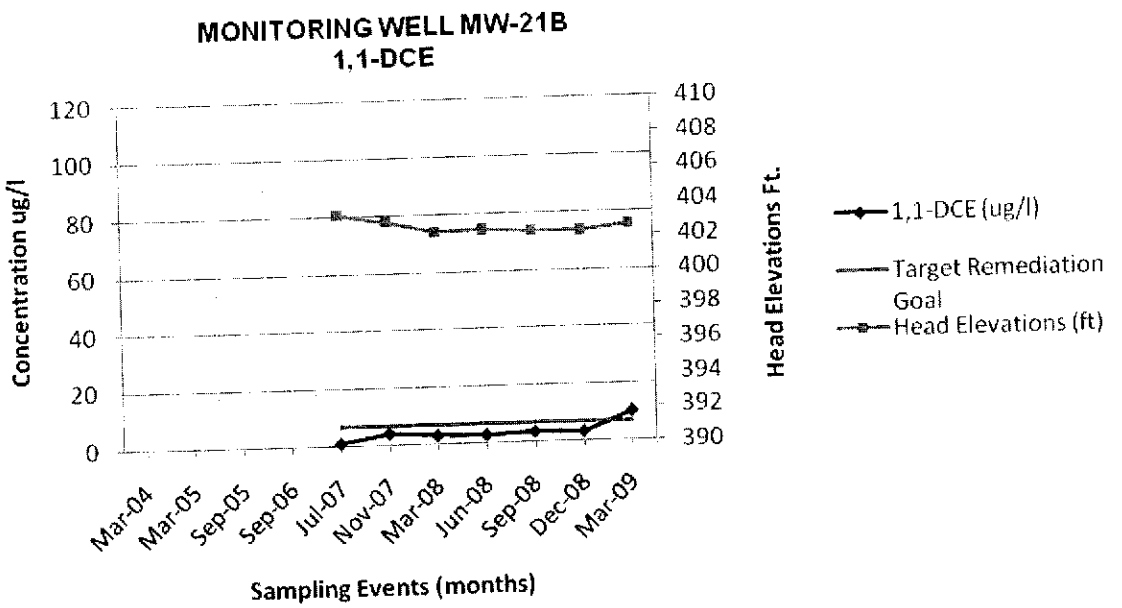


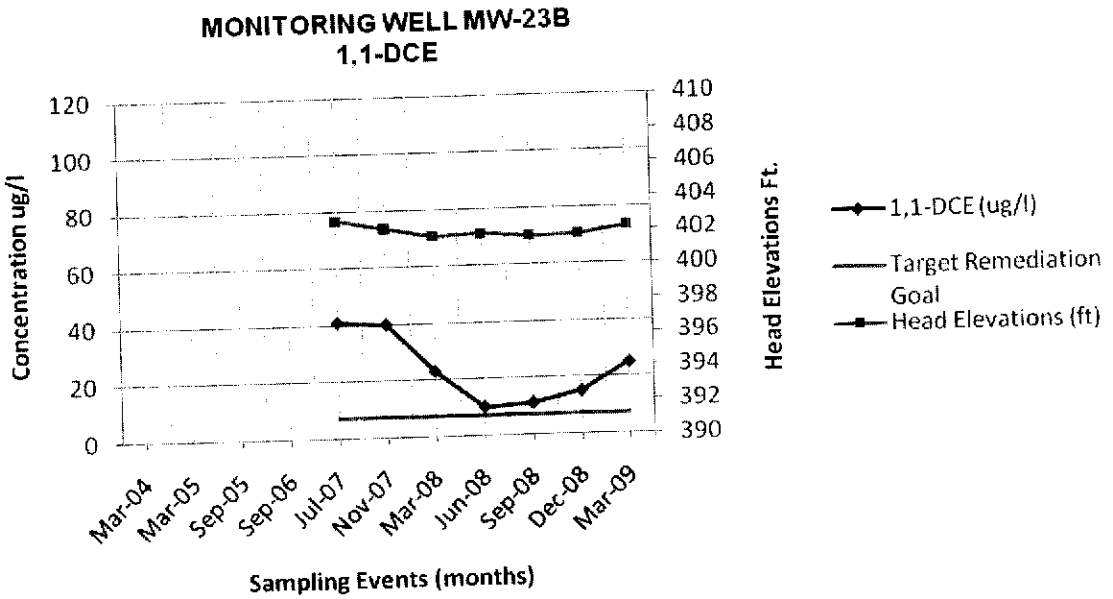
MARTIN SLAGLE GeoEnvironmental Associates, LLC PO Box 1023 Black Mountain, NC 28711 828.669.3929 828.669.5289	SCALE = N/A REV: 1 DATE: 11/17/09 DR: SML CHK: RLM	**1,1-DCE CONCENTRATIONS vs TIME** Kuhlman Electric Corporation Crystal Springs, MS
	PREPARED FOR: BorgWarner Inc.	**APPENDIX G-10**



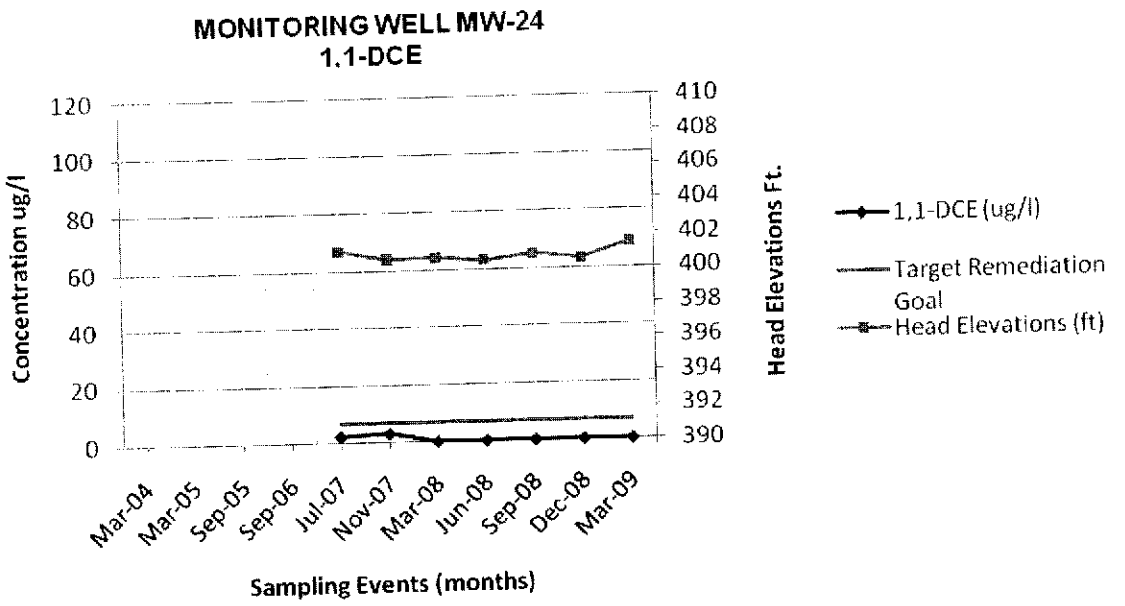


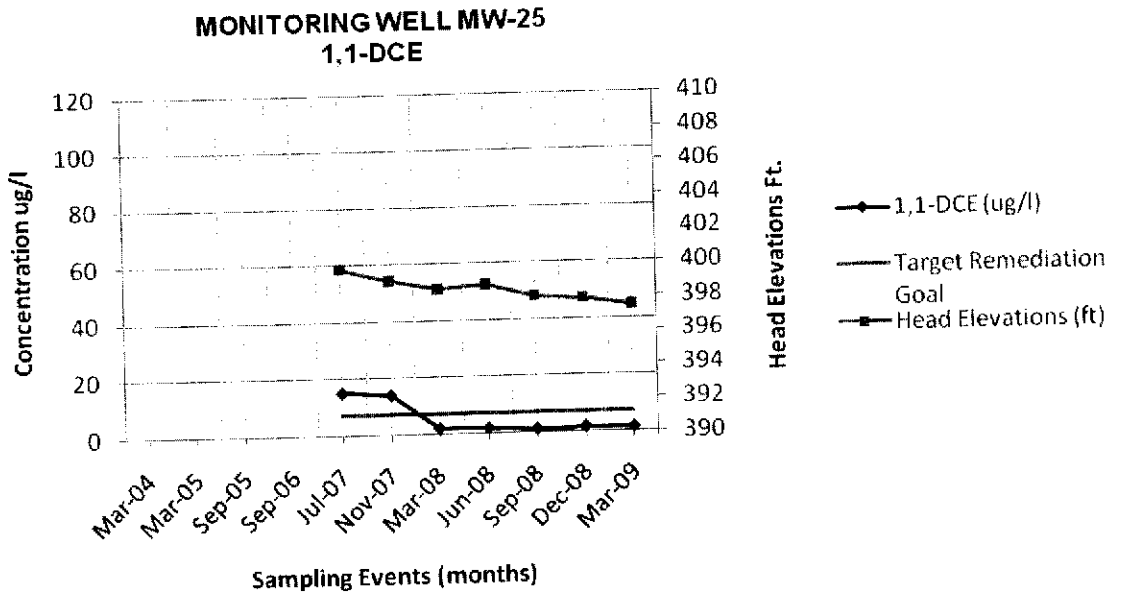
MARTIN & SLAGLE GeoEnvironmental Associates, LLC PO Box 1023 Black Mountain, NC 28711 828.669.3929 828.669.5289	SCALE = N/A REV: 1 DATE: 11/17/09 DR: SML CHK: RLM	**1,1-DCE CONCENTRATIONS vs TIME** Kuhlman Electric Corporation Crystal Springs, MS
	PREPARED FOR: BorgWarner Inc.	**APPENDIX G-11**



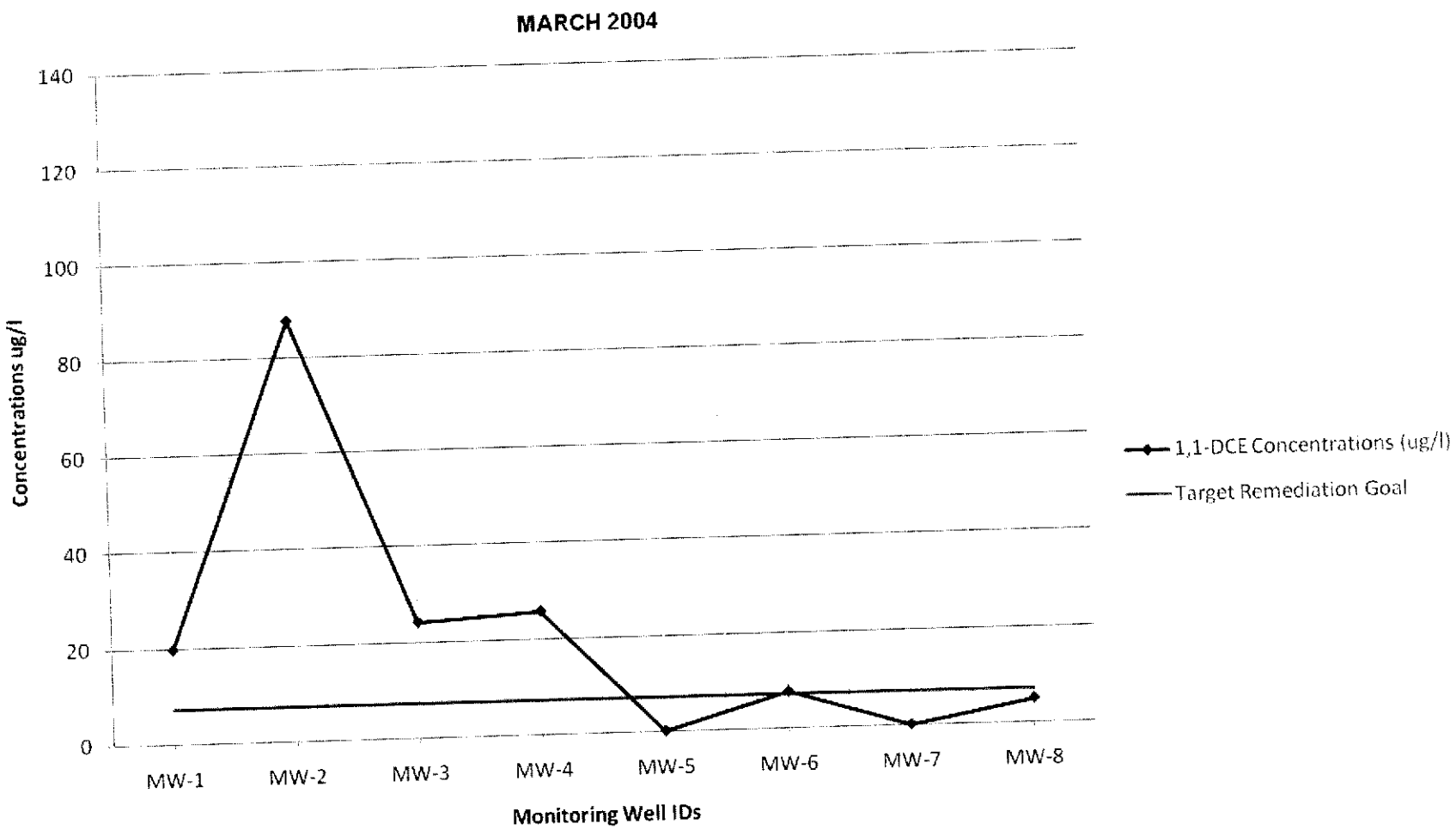


MARTIN & SLAGLE GeoEnvironmental Associates, LLC PO Box 1023 Black Mountain, NC 28711 828.669.3929 828.669.5289	SCALE = N/A REV: 1 DATE: 11/17/09 DR: SML CHK: RLM	**1,1-DCE CONCENTRATIONS vs TIME** Kuhlman Electric Corporation Crystal Springs, MS
	PREPARED FOR: BorgWarner Inc.	**APPENDIX G-12**





MARTIN SLAGLE GeoEnvironmental Associates, LLC PO Box 1023 Black Mountain, NC 28711 828.669.3929 828.669.5289	SCALE = N/A REV: 1 DATE: 11/17/09 DR: SML CHK: RLM	**1,1-DCE CONCENTRATIONS vs TIME** Kuhlman Electric Corporation Crystal Springs, MS
	PREPARED FOR: BorgWarner Inc.	**APPENDIX G-13**



MARTIN SLAGLE
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Black Mountain NC 28711
828.669.3929 828.669.5289

PREPARED FOR:

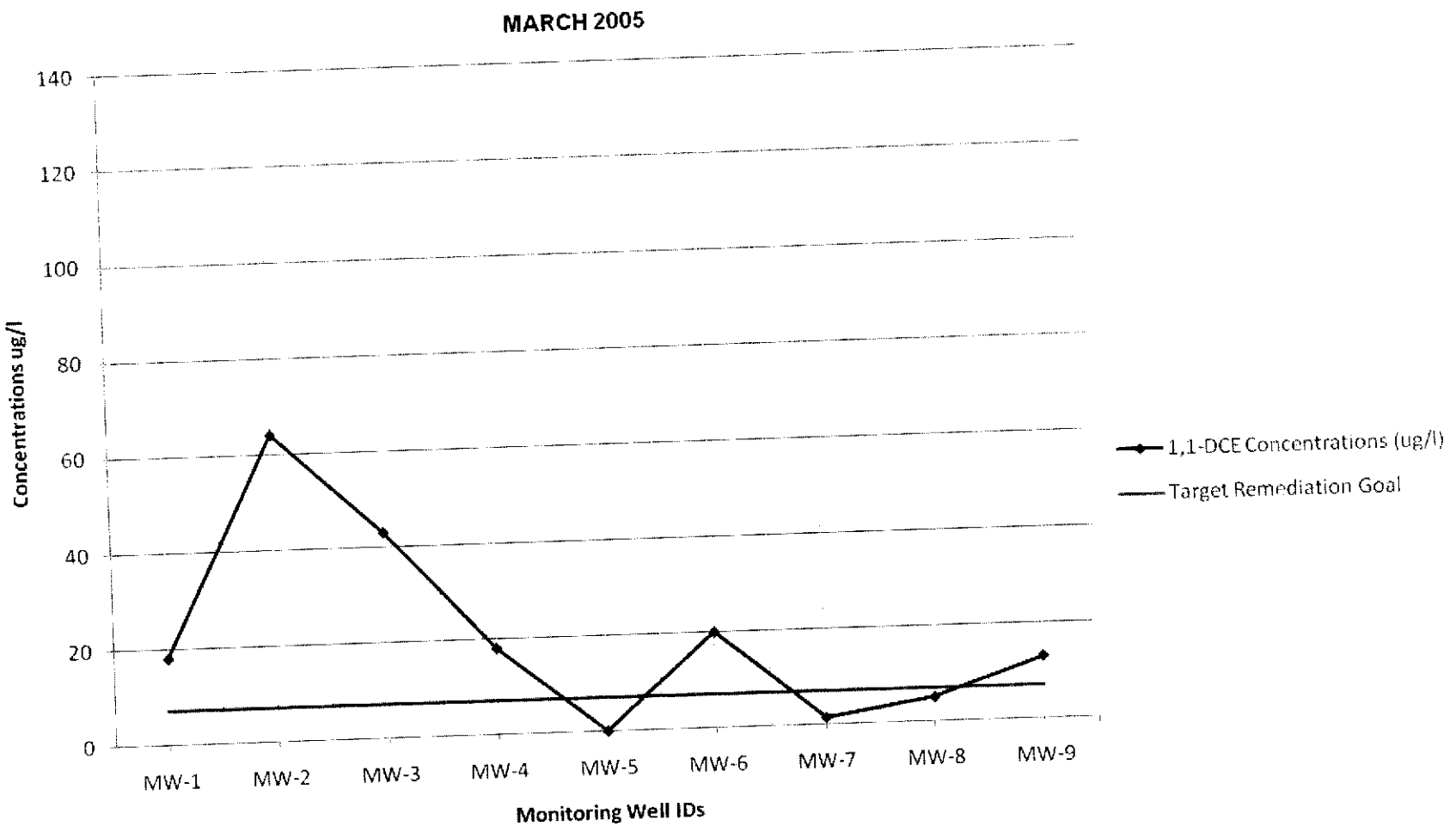
BorgWarner Inc.

SCALE = NA
REV: 1
DATE: 11/17/2009
CHK: RLM
DR: SML

APPENDIX G-14

1,1-DCE CONCENTRATIONS PER WELL

Kuhlman Electric Corporation
Crystal Springs, MS



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Black Mountain NC 28711
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PREPARED FOR:

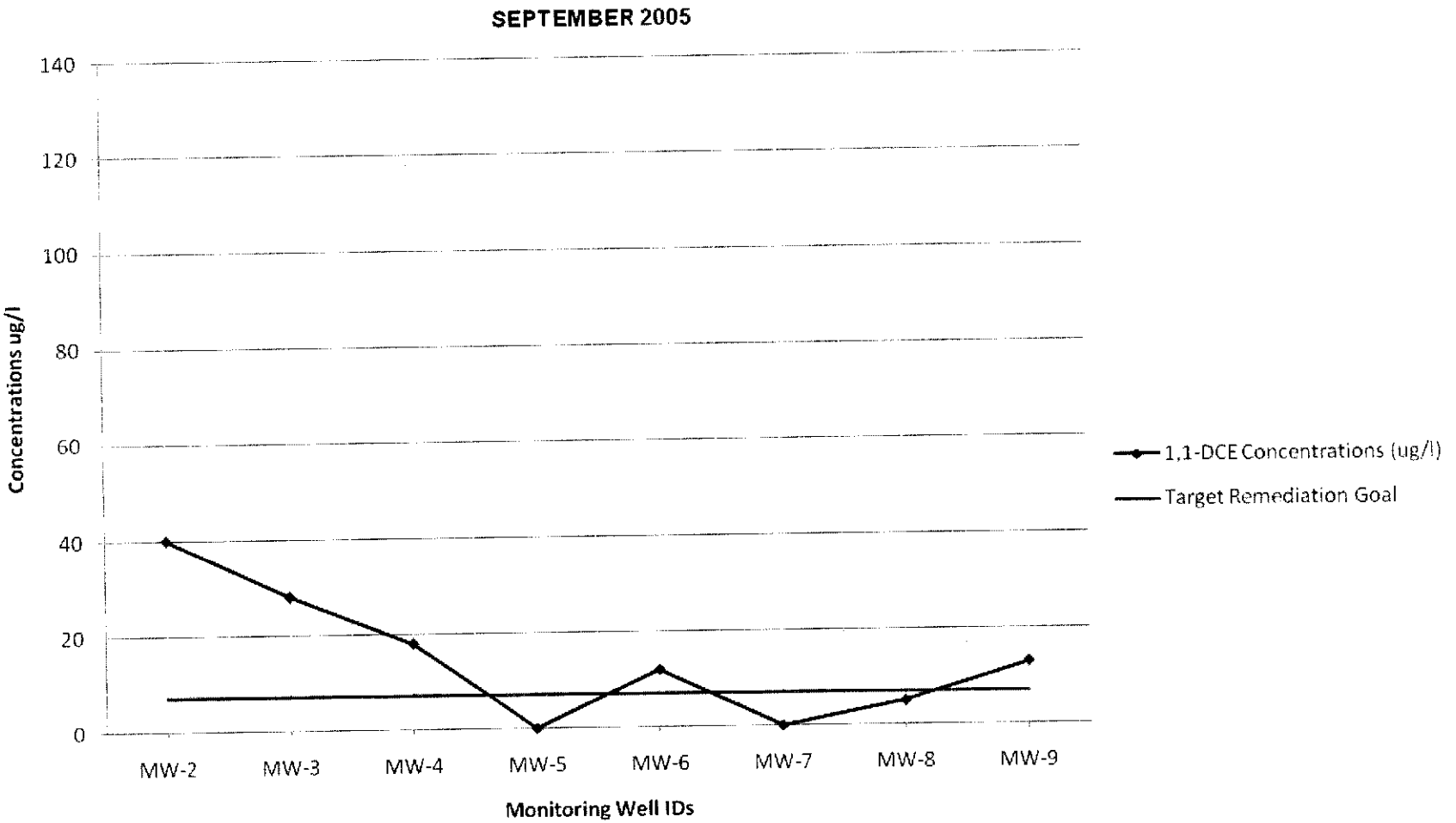
BorgWarner Inc.

SCALE = NA
REV: 1
DATE: 11/17/2009
CHK: RLM
DR: SML

APPENDIX G-15

1,1-DCE CONCENTRATIONS PER WELL

Kuhlman Electric Corporation
Crystal Springs, MS



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Black Mountain NC 28711
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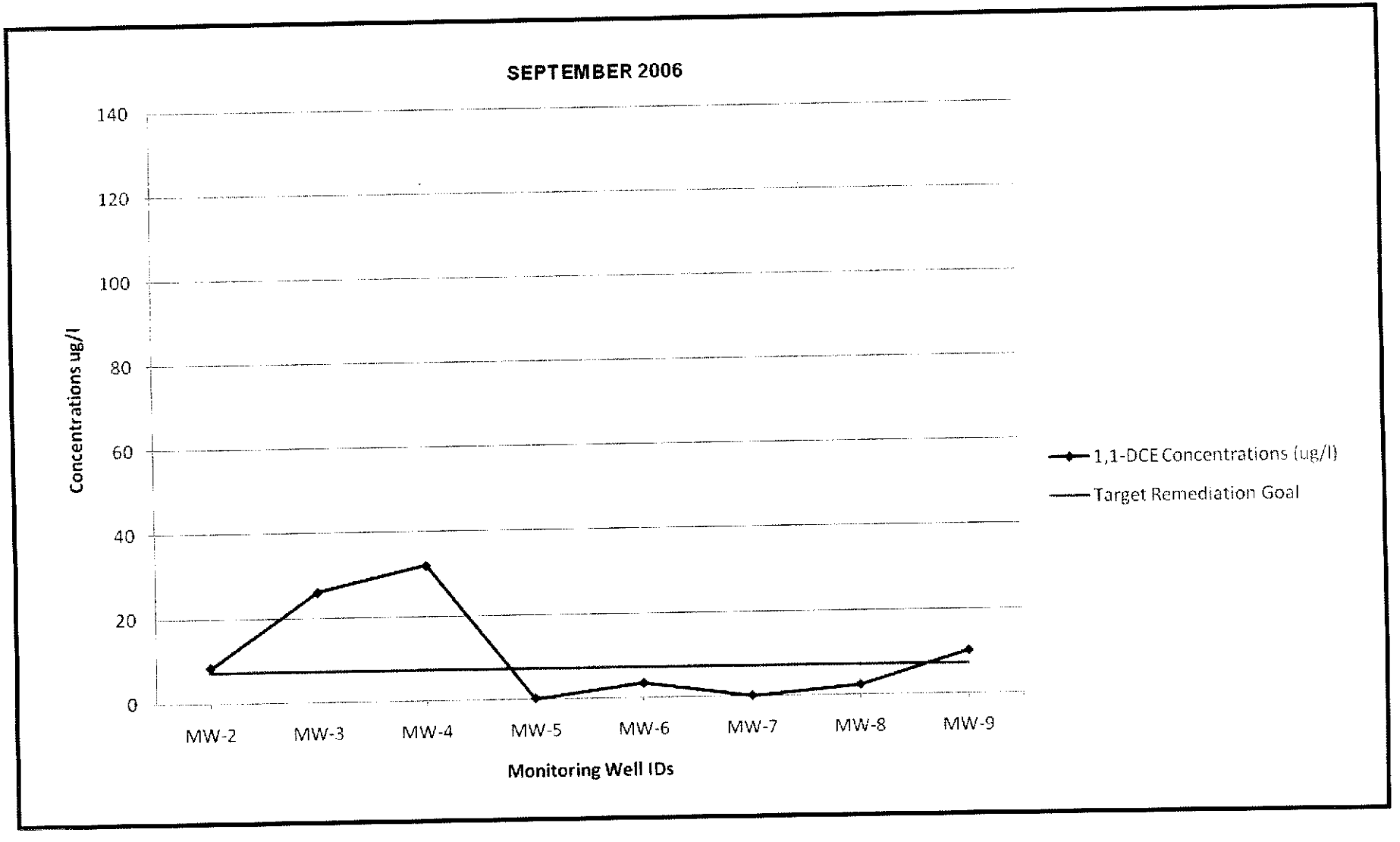
PREPARED FOR:

BorgWarner Inc.

SCALE = NA
REV: 1
DATE: 11/17/2009
CHK: RLM
DR: SML

APPENDIX G-16

1,1-DCE CONCENTRATIONS PER WELL
Kuhlman Electric Corporation
Crystal Springs, MS



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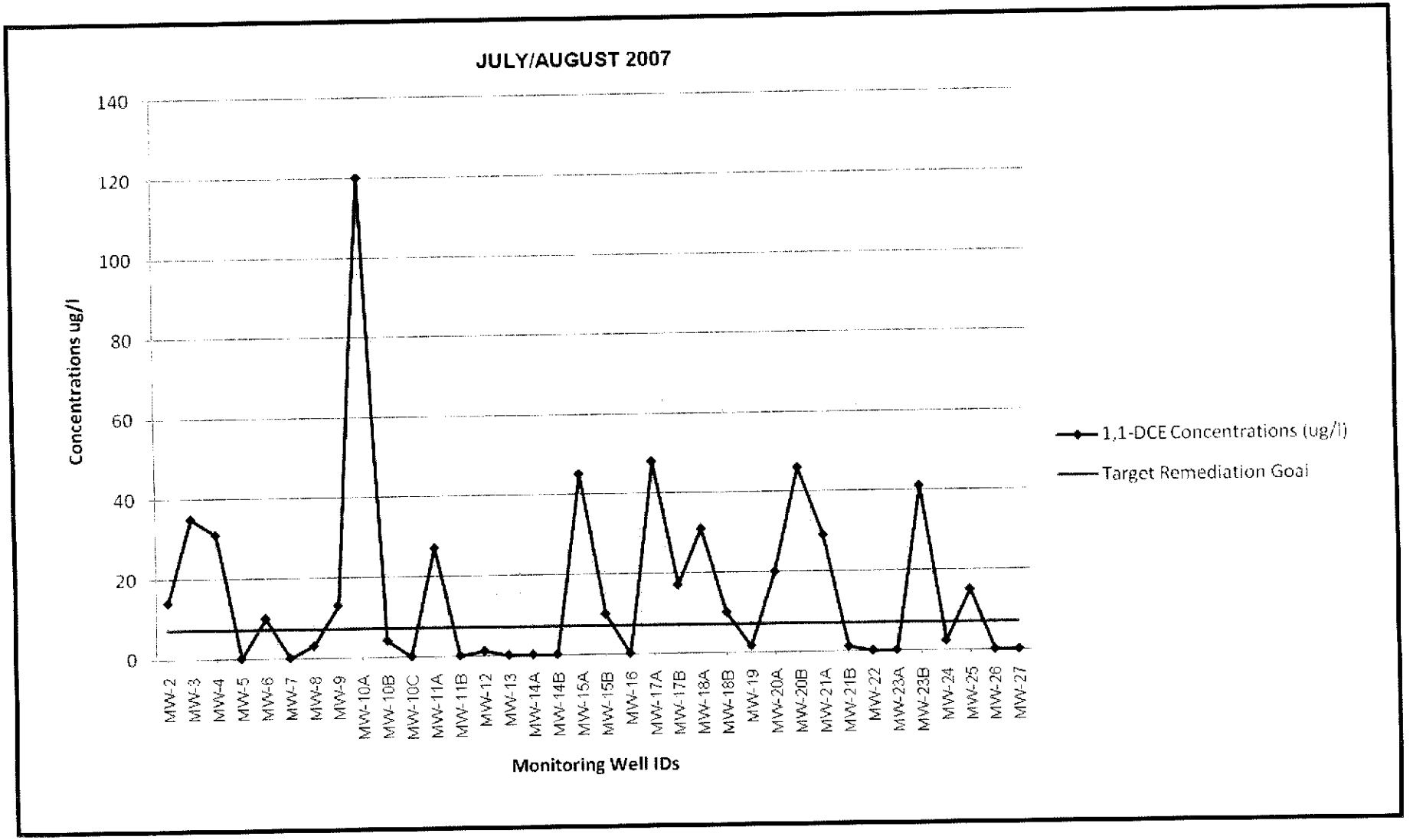
PREPARED FOR:

BorgWarner Inc.

SCALE = NA
REV: 1
DATE: 11/17/2009
CHK: RLM
DR: SML

APPENDIX G-17

1,1-DCE CONCENTRATIONS PER WELL
Kuhlman Electric Corporation
Crystal Springs, MS



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828.669.3929 828.669.5289

PREPARED FOR:

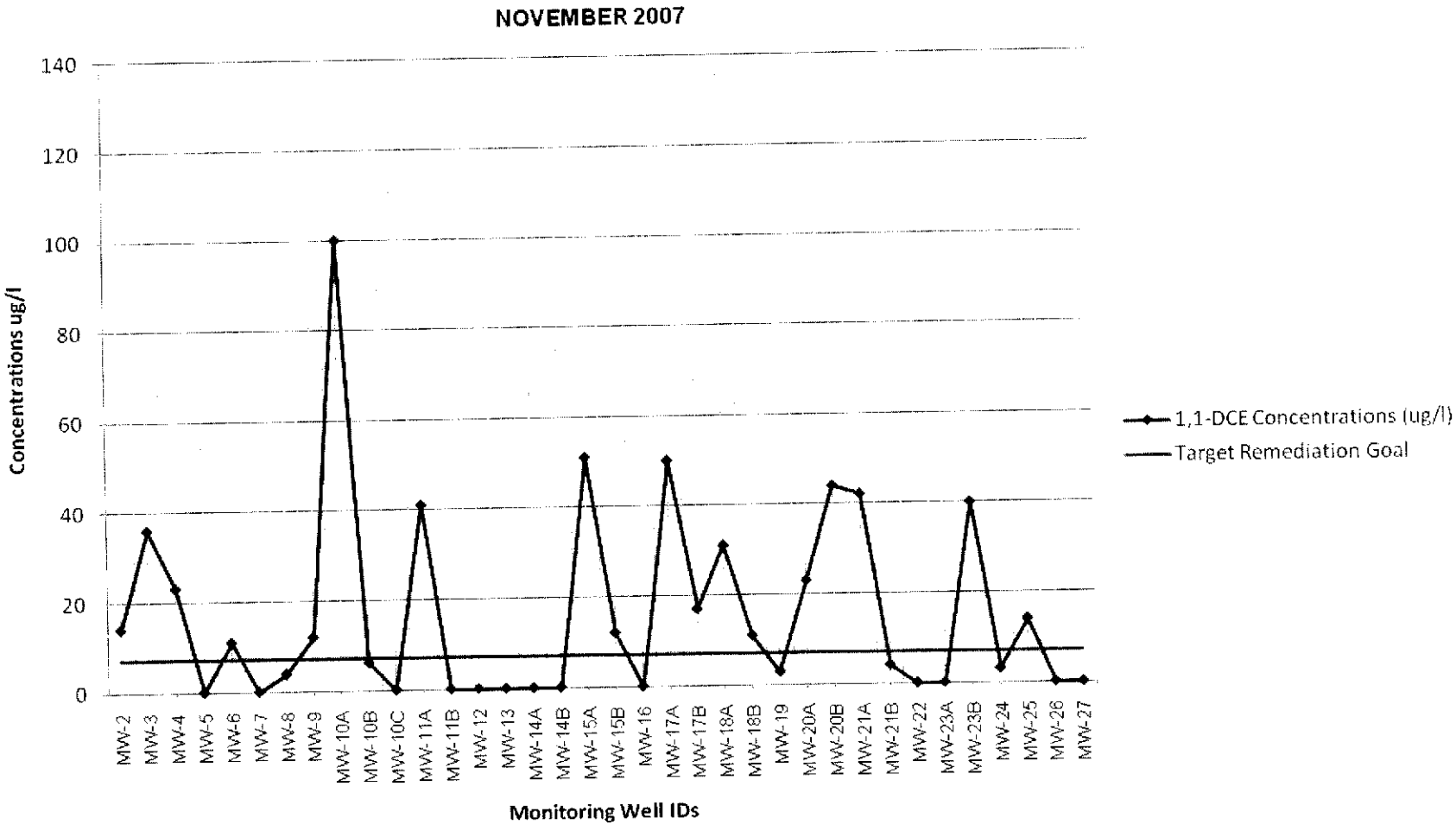
BorgWarner Inc.

SCALE = NA	
REV: 1	
DATE: 11/17/2009	
CHK: RLM	
DR: SML	

APPENDIX G-18

1,1-DCE CONCENTRATIONS PER WELL

Kuhlman Electric Corporation
Crystal Springs, MS



MARTIN SLAGLE
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Black Mountain NC 28711
828.669.3929 828.669.5289

PREPARED FOR:

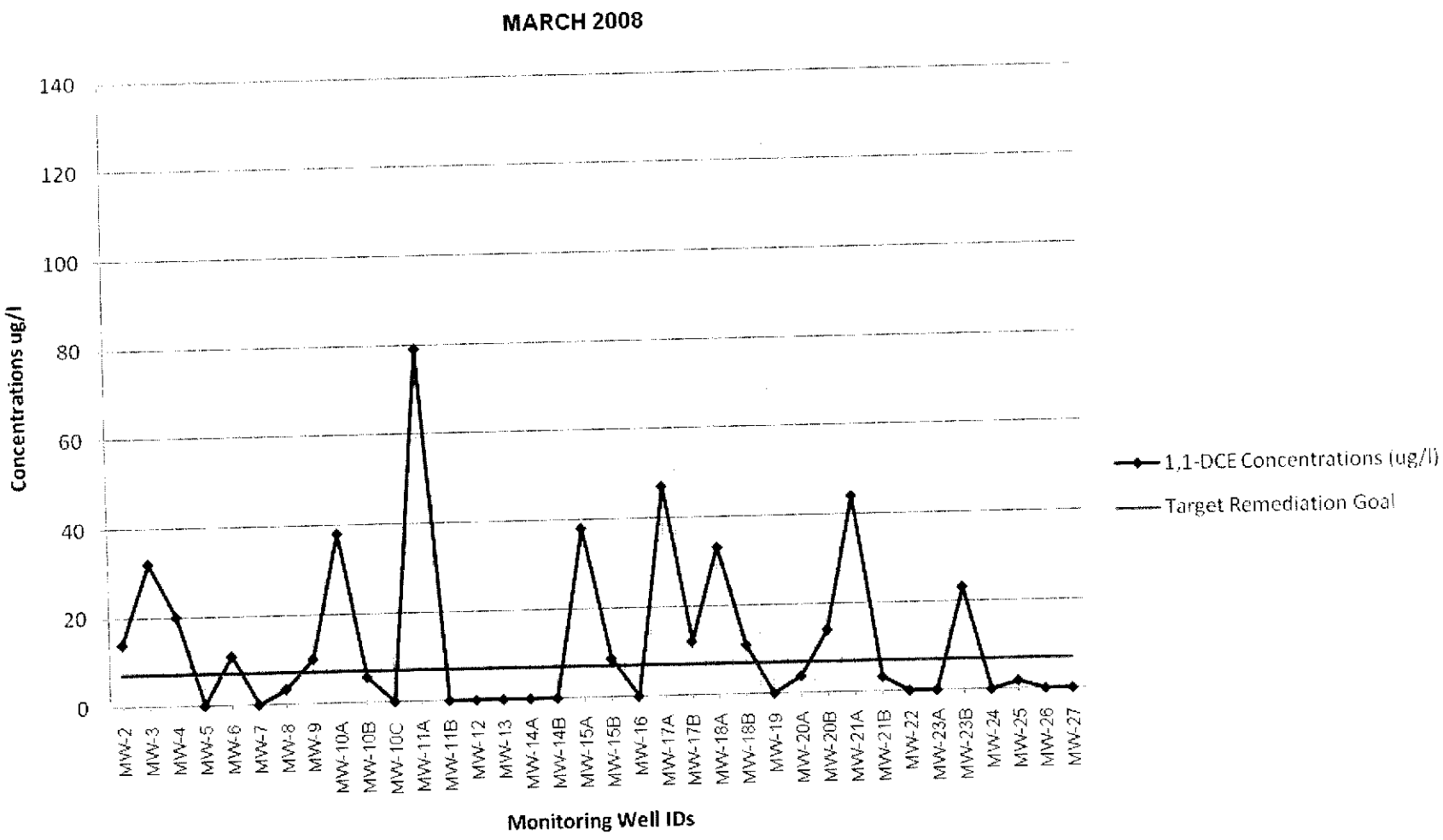
BorgWarner Inc.

SCALE = NA	
REV: 1	
DATE: 11/17/2009	
CHK: RLM	
DR: SML	

APPENDIX G-19

1,1-DCE CONCENTRATIONS PER WELL

Kuhlman Electric Corporation
Crystal Springs, MS



MARTIN SLAGLE
GeoEnvirionmental Associates, LLC

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Black Mountain NC 28711
828.669.3929 828.669.5289

PREPARED FOR:

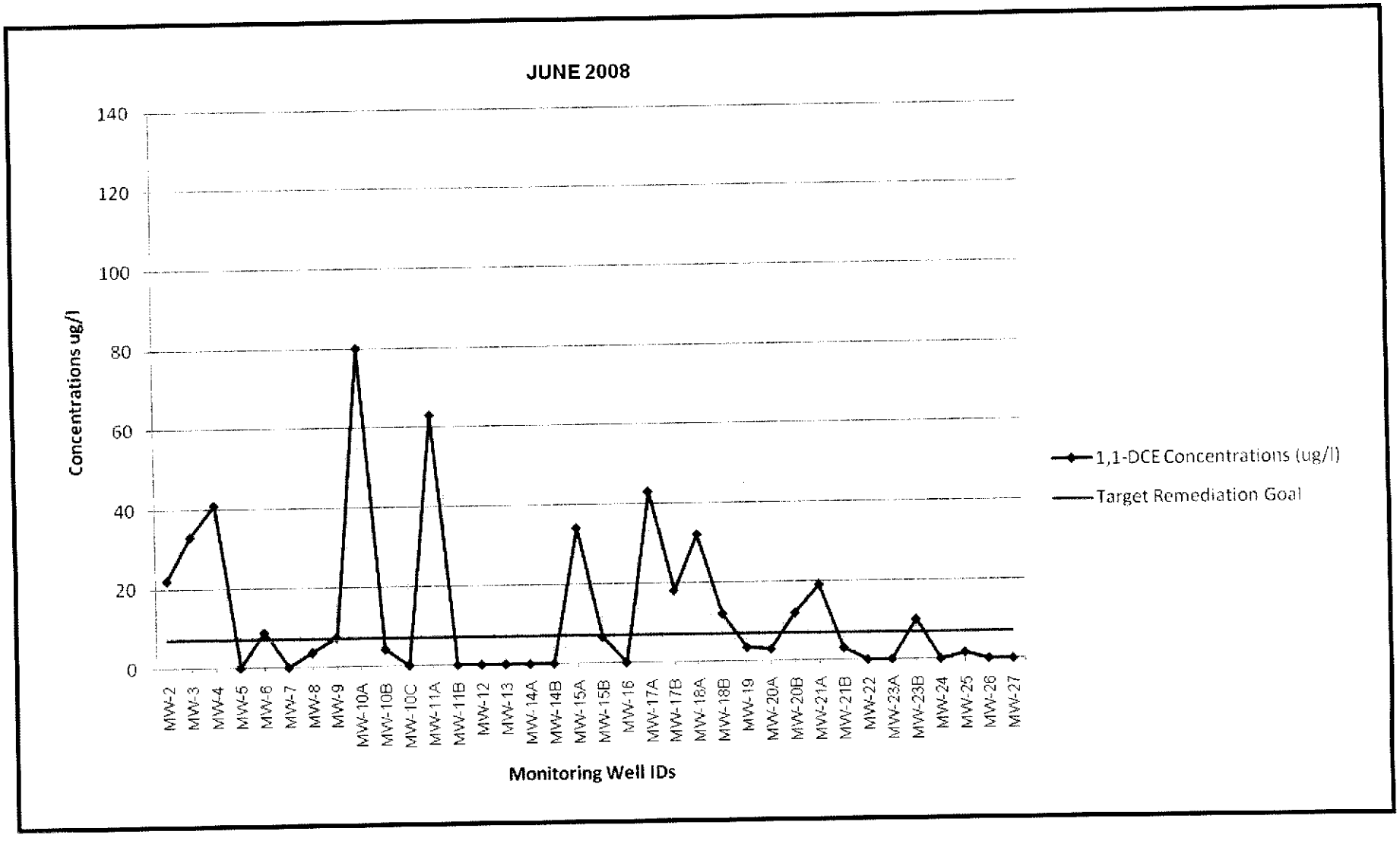
BorgWarner Inc.

SCALE = NA	
REV: 1	
DATE: 11/17/2009	
CHK: RLM	
DR: SML	

APPENDIX G-20

1,1-DCE CONCENTRATIONS PER WELL

Kuhlman Electric Corporation
Crystal Springs, MS



MARTIN SLAGLE
GeoEnvirionmental Associates, LLC

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Black Mountain NC 28711
828.669.3929 828.669.5289

PREPARED FOR:

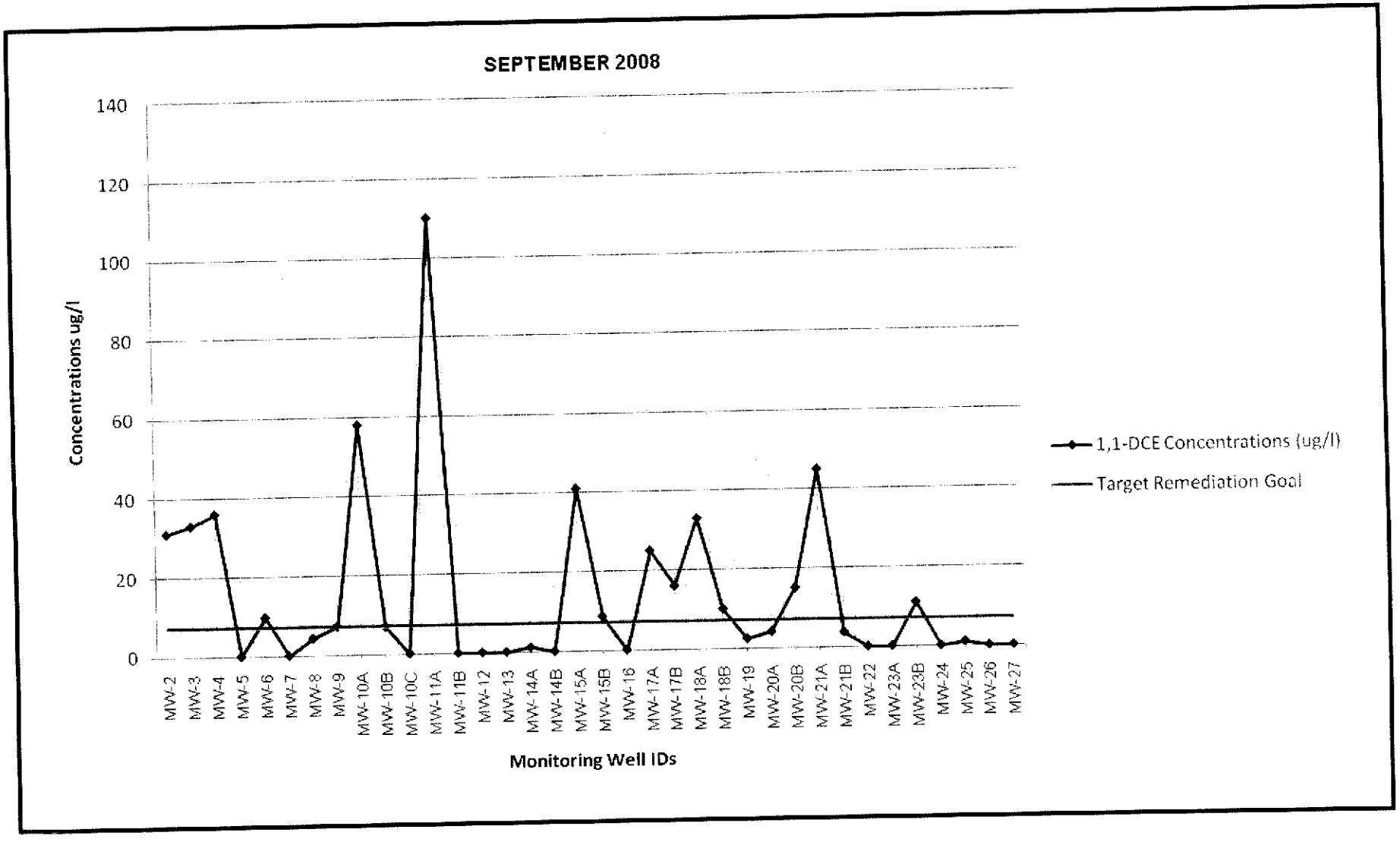
BorgWarner Inc.

SCALE = NA	
REV: 1	
DATE: 11/17/2009	
CHK: RLM	
DR: SML	

APPENDIX G-21

,1-DCE CONCENTRATIONS PER WELL

Kuhlman Electric Corporation
Crystal Springs, MS



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GeoEnvirionmental Associates, LLC

PO Box 1023
Black Mountain NC 28711
828.669.3929 828.669.5289

PREPARED FOR:

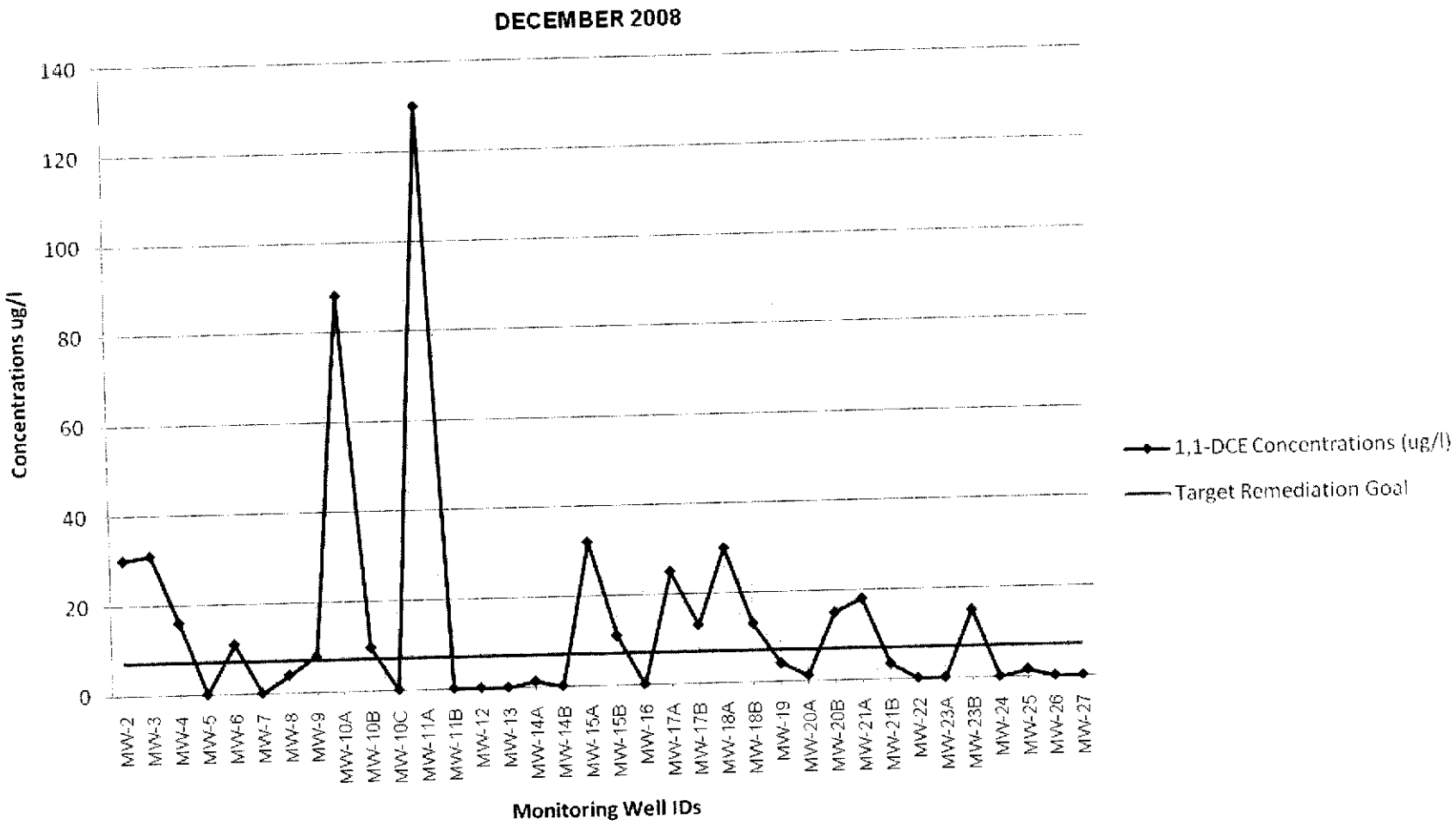
BorgWarner Inc.

SCALE = NA	
REV: 1	
DATE: 11/17/2009	
CHK: RLM	
DR: SML	

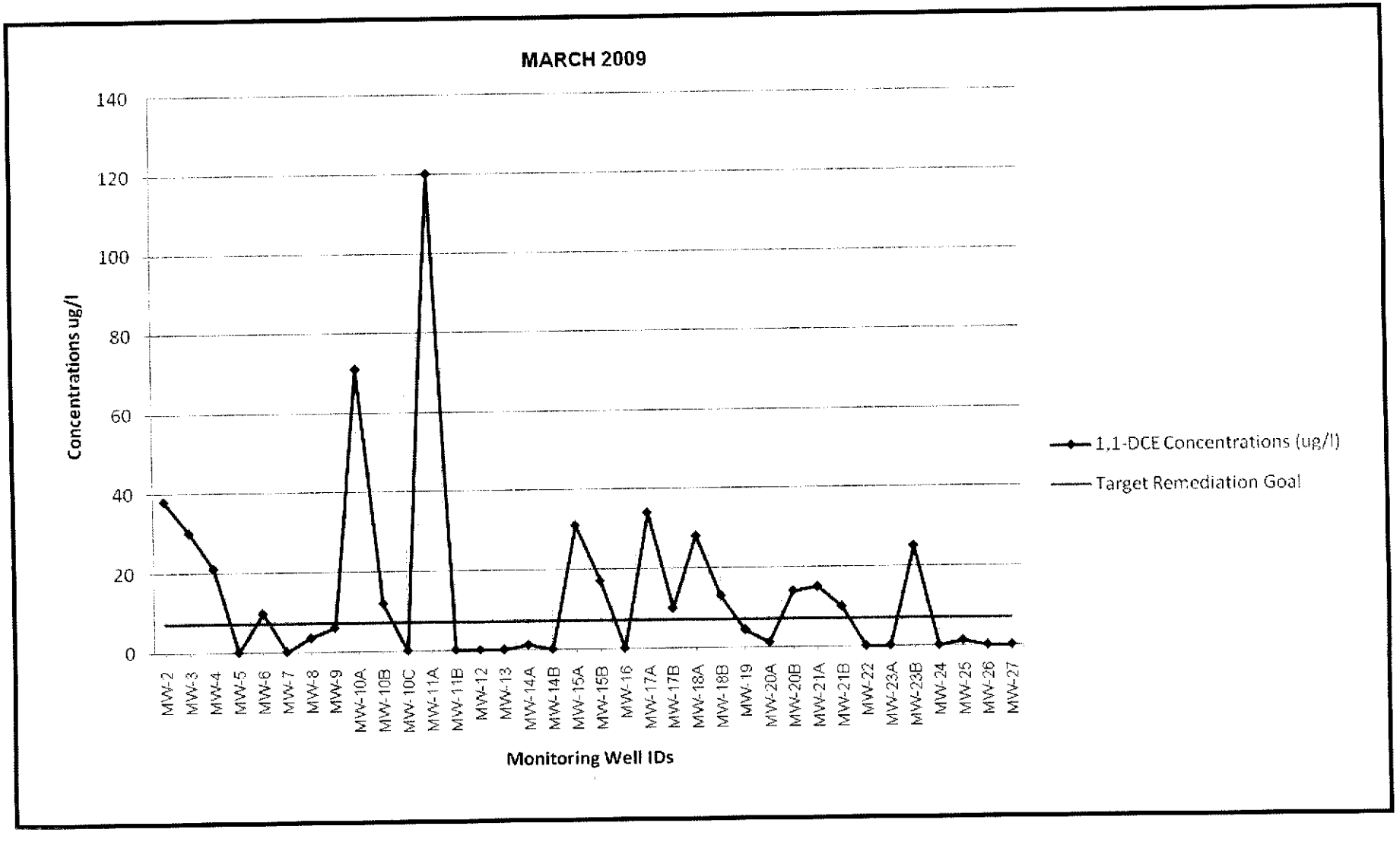
APPENDIX G-22

1,1-DCE CONCENTRATIONS PER WELL

Kuhlman Electric Corporation
Crystal Springs, MS



MARTIN SLAGLE GeoEnvirionmental Associates, LLC PO Box 1023 Black Mountain NC 28711 828.669.3929 828.669.5289	PREPARED FOR: BorgWarner Inc.	SCALE = NA REV: 1 DATE: 11/17/2009 CHK: RLM DR: SML	**APPENDIX G-23** **1,1-DCE CONCENTRATIONS PER WELL** Kuhlman Electric Corporation Crystal Springs, MS



MARTIN SLAGLE
GeoEnvirionmental Associates, LLC

PO Box 1023
Black Mountain NC 28711
828.669.3929 828.669.5289

PREPARED FOR:

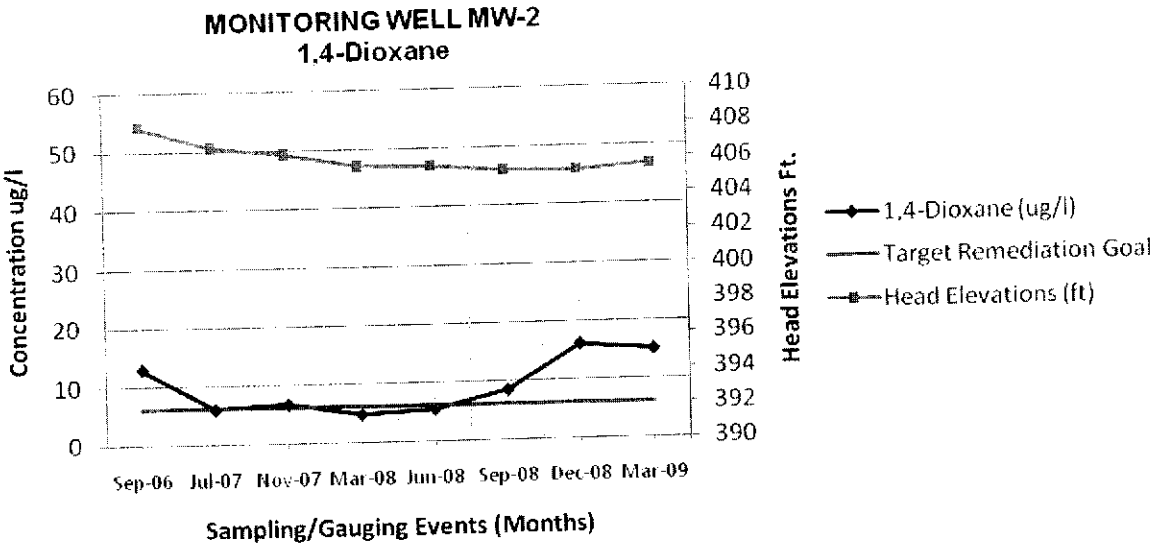
BorgWarner Inc.

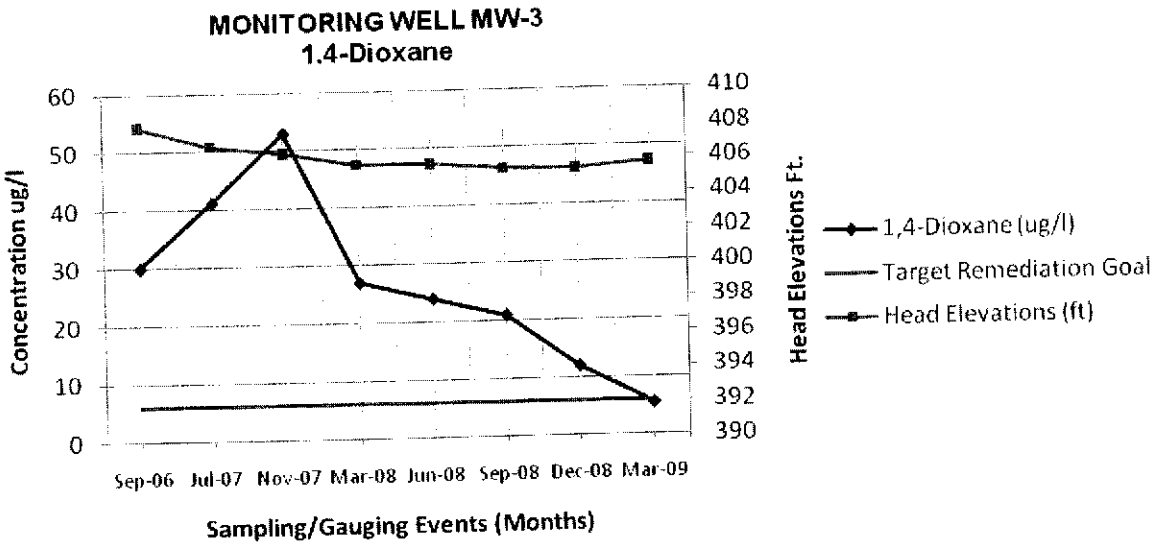
SCALE = NA	
REV: 1	
DATE: 11/17/2009	
CHK: RLM	
DR: SML	

APPENDIX G-24

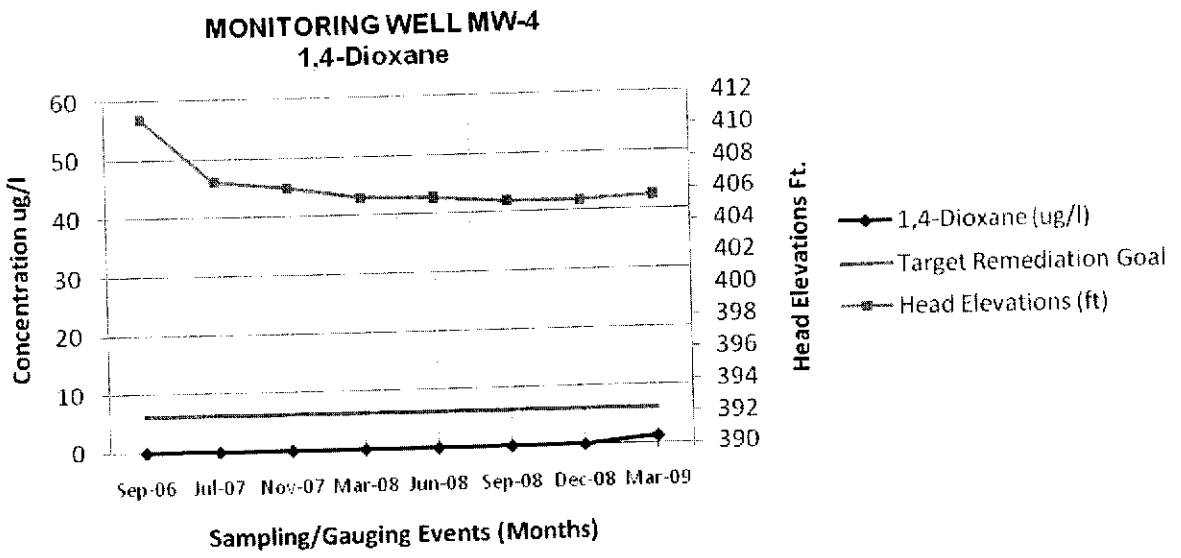
1,1-DCE CONCENTRATIONS PER WELL

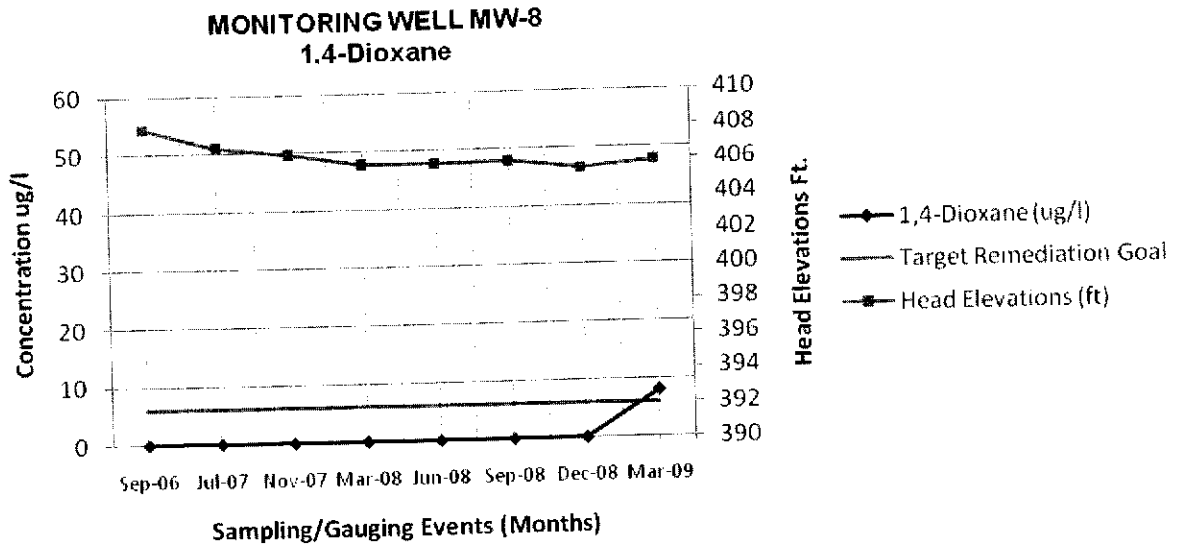
Kuhlman Electric Corporation
Crystal Springs, MS



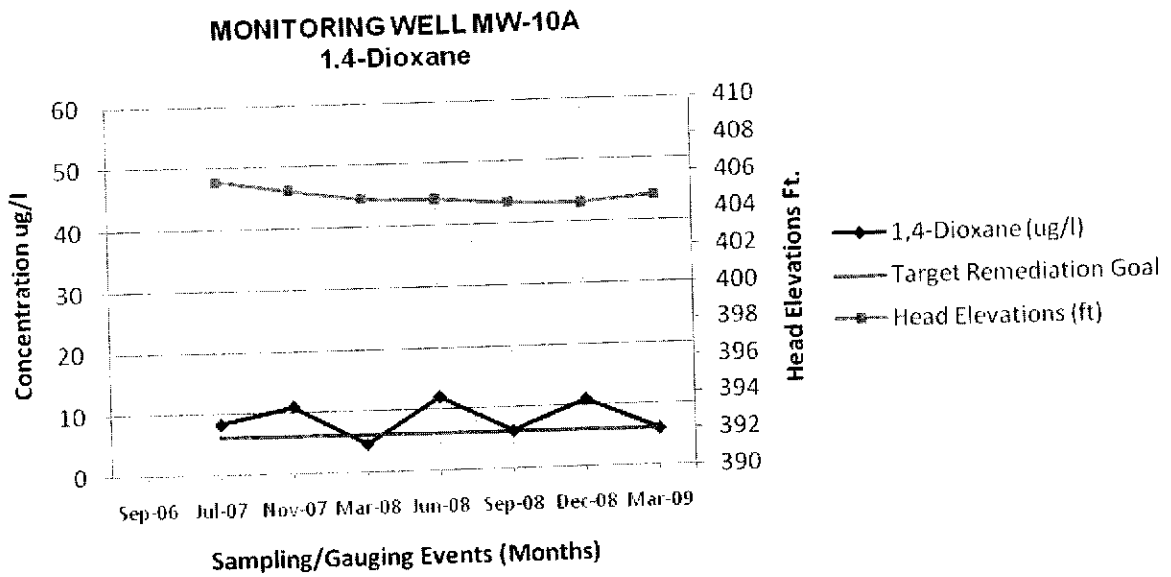


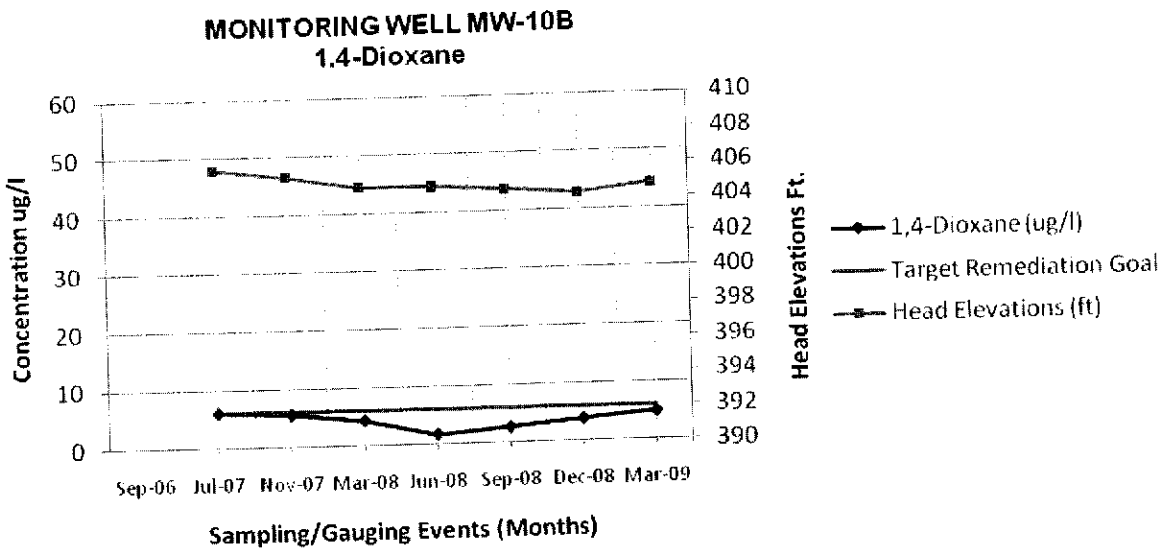
MARTIN SLAGLE GeoEnvironmental Associates, LLC PO Box 1023 Black Mountain, NC 28711 828.669.3929 828.669.5289	SCALE = N/A REV: 1 DATE: 11/17/09 DR: SML CHK: RLM	**1,4-DIOXANE CONCENTRATIONS vs TIME** Kuhlman Electric Corporation Crystal Springs, MS
	PREPARED FOR: BorgWarner Inc.	**APPENDIX G-25**



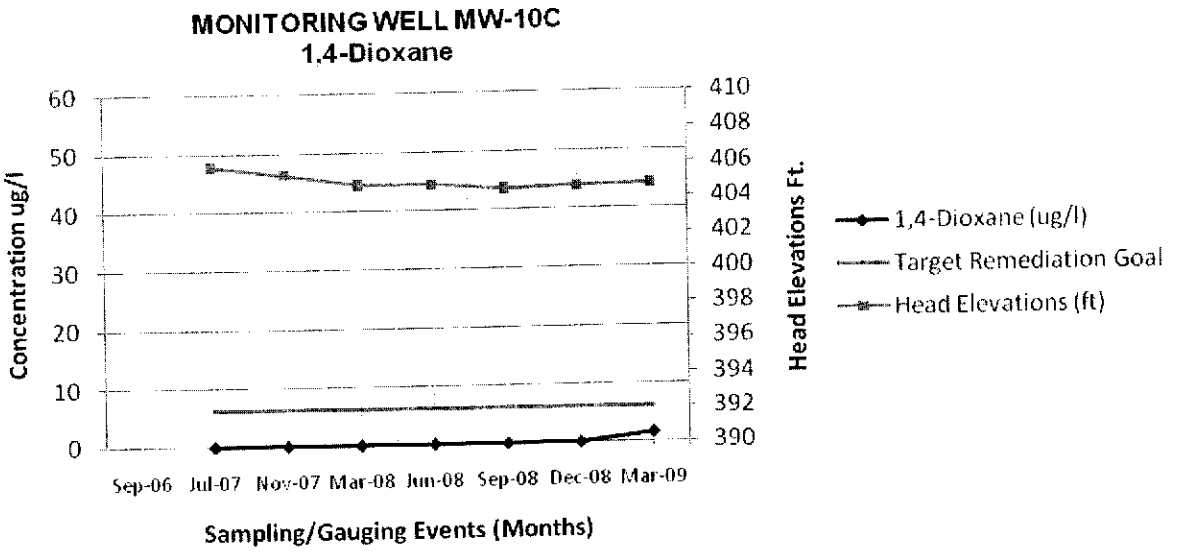


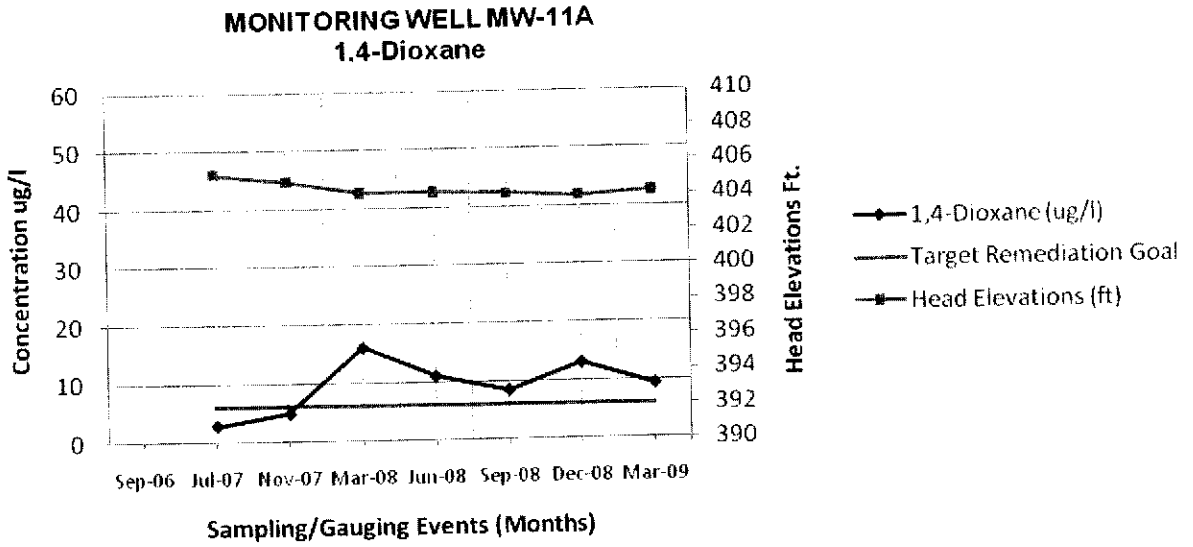
MARTIN SLAGLE GeoEnvironmental Associates, LLC PO Box 1023 Black Mountain, NC 28711 828.669.3929 828.669.5289	SCALE = N/A REV: 1 DATE: 11/17/09 DR: SML CHK: RLM	**1,4-DIOXANE CONCENTRATIONS vs TIME** Kuhlman Electric Corporation Crystal Springs, MS
	PREPARED FOR: BorgWarner Inc.	**APPENDIX G-26**



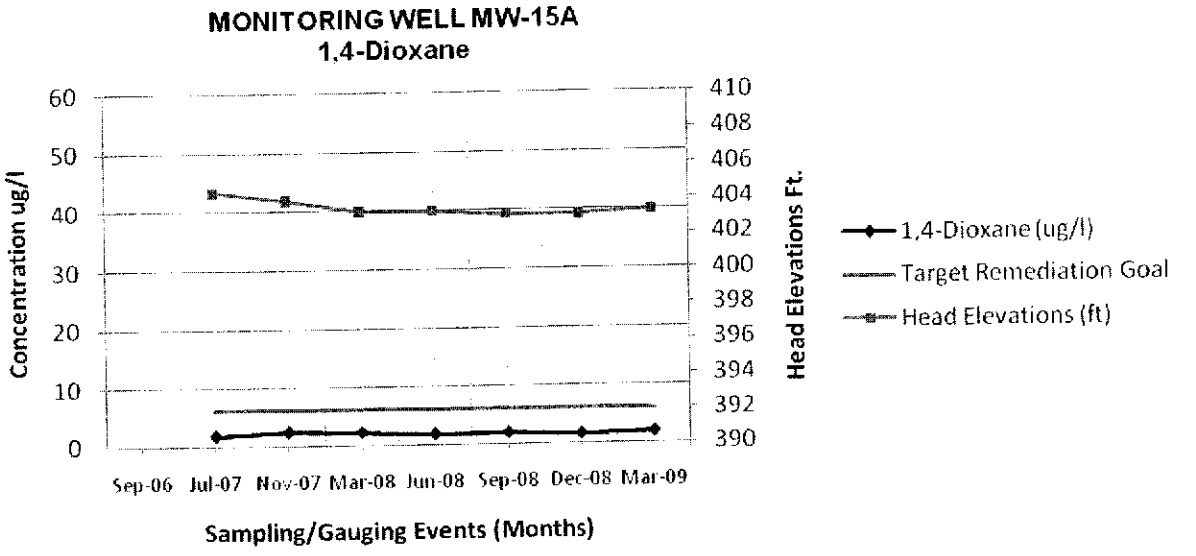


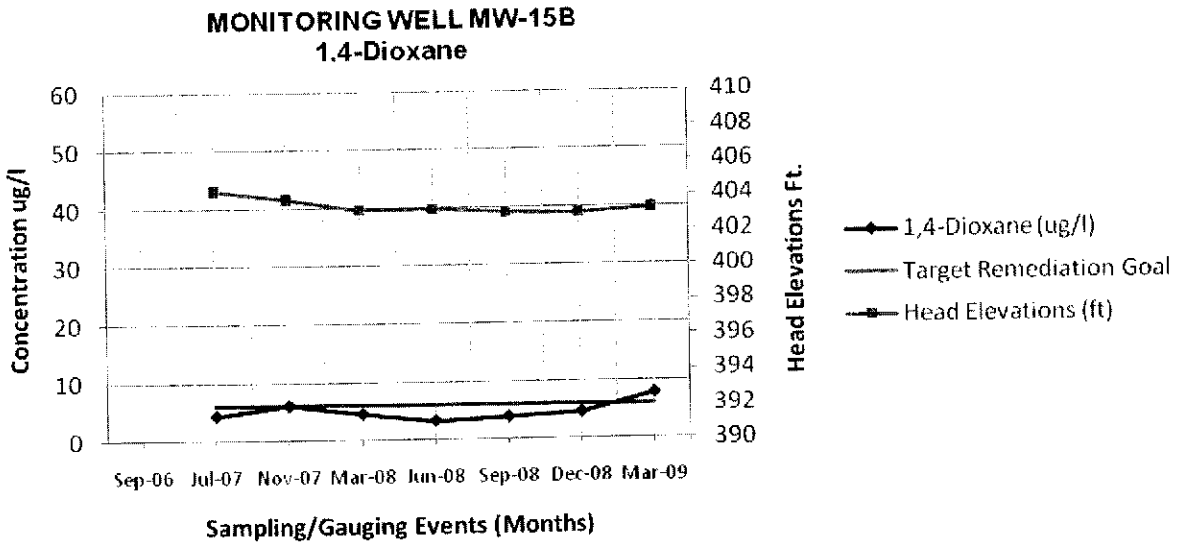
MARTIN L. SLAGLE GeoEnvironmental Associates, LLC PO Box 1023 Black Mountain, NC 28711 828.669.3929 828.669.5289	SCALE = N/A REV: 1 DATE: 11/17/09 DR: SML CHK: RLM	**1,4-DIOXANE CONCENTRATIONS vs TIME** Kuhlman Electric Corporation Crystal Springs, MS
	PREPARED FOR: BorgWarner Inc.	**APPENDIX G-27**



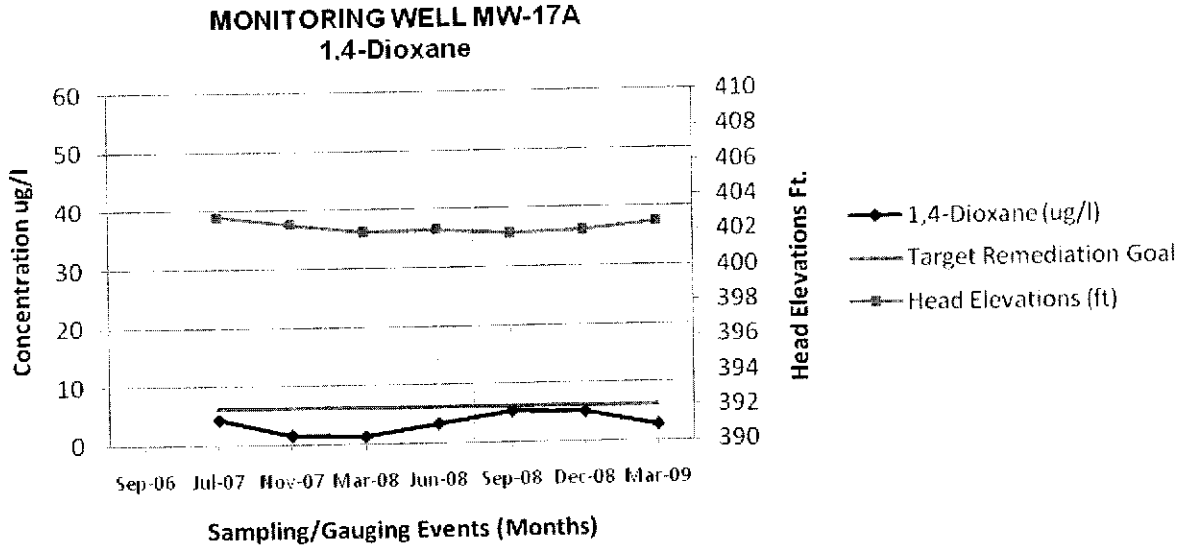


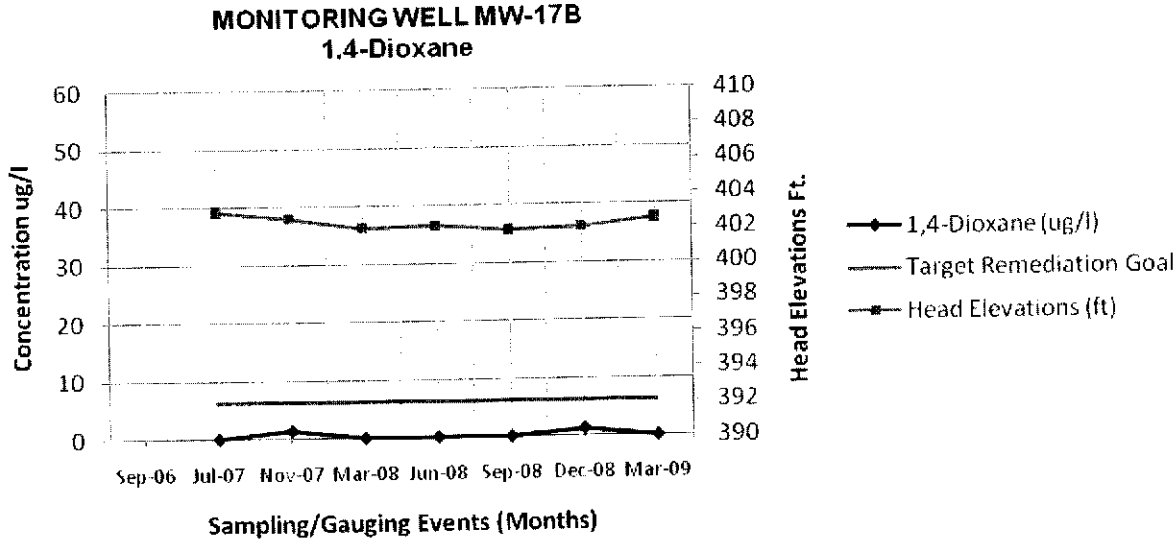
MARTIN SLAGLE GeoEnvironmental Associates, LLC PO Box 1023 Black Mountain, NC 28711 828.669.3929 828.669.5289	SCALE = N/A REV: 1 DATE: 11/17/09 DR: SML CHK: RLM	**1,4-DIOXANE CONCENTRATIONS vs TIME** Kuhlman Electric Corporation Crystal Springs, MS
	PREPARED FOR: BorgWarner Inc.	**APPENDIX G-28**



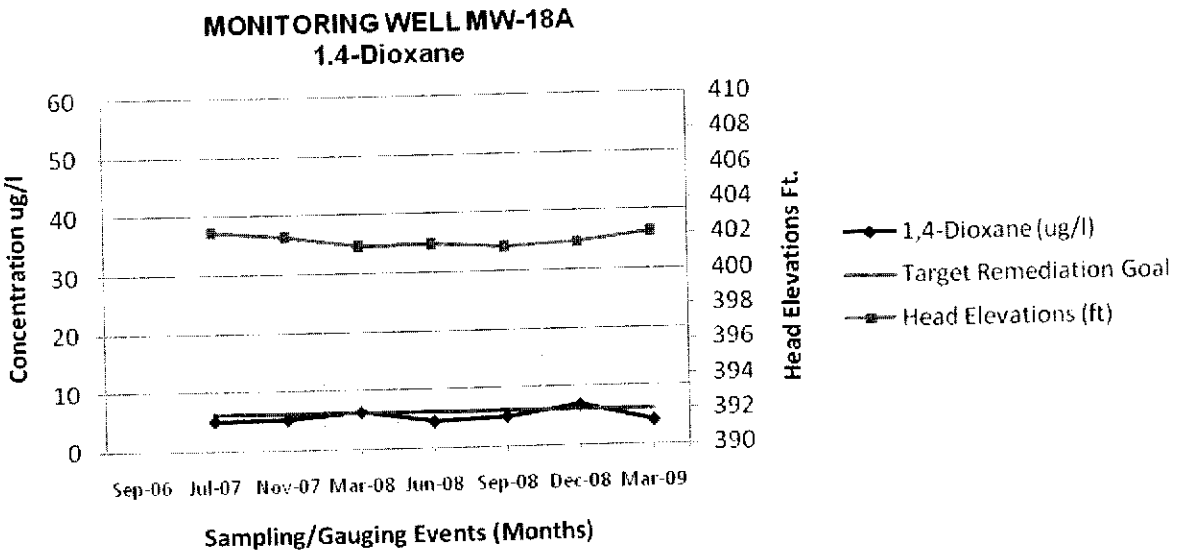


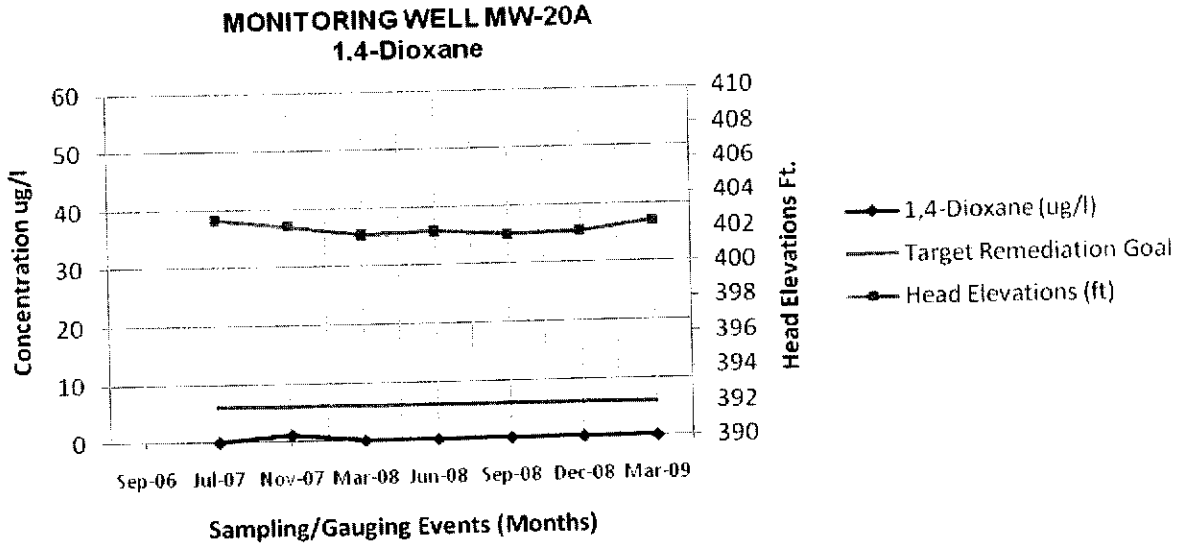
MARTIN SLAGLE GeoEnvironmental Associates, LLC PO Box 1023 Black Mountain, NC 28711 828.669.3929 828.669.5289	SCALE = N/A REV: 1 DATE: 11/17/09 DR: SML CHK: RLM	**1,4-DIOXANE CONCENTRATIONS vs TIME** Kuhlman Electric Corporation Crystal Springs, MS
	PREPARED FOR: BorgWarner Inc.	**APPENDIX G-29**



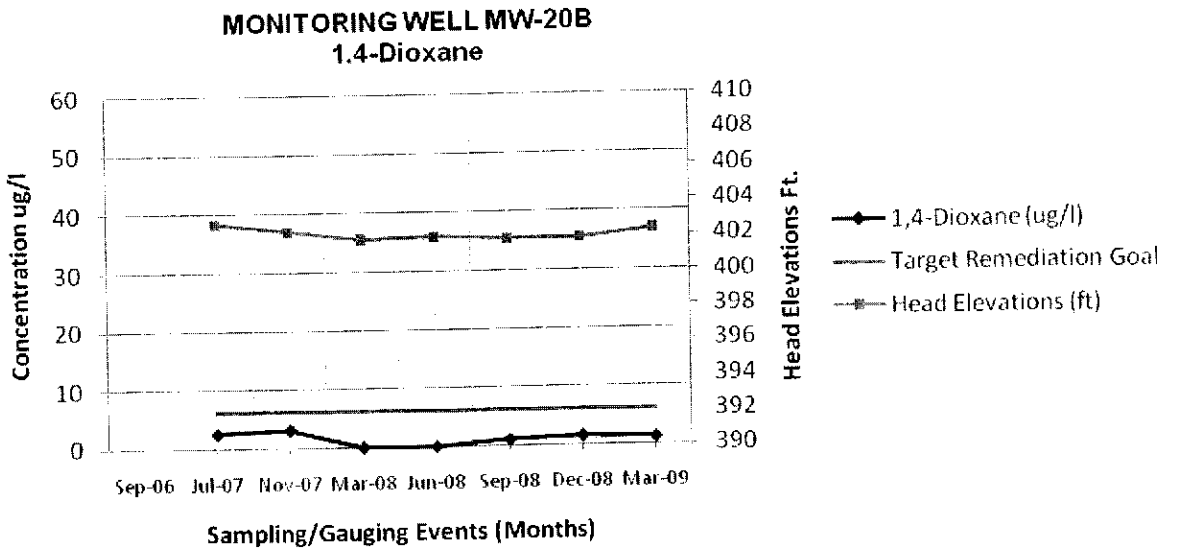


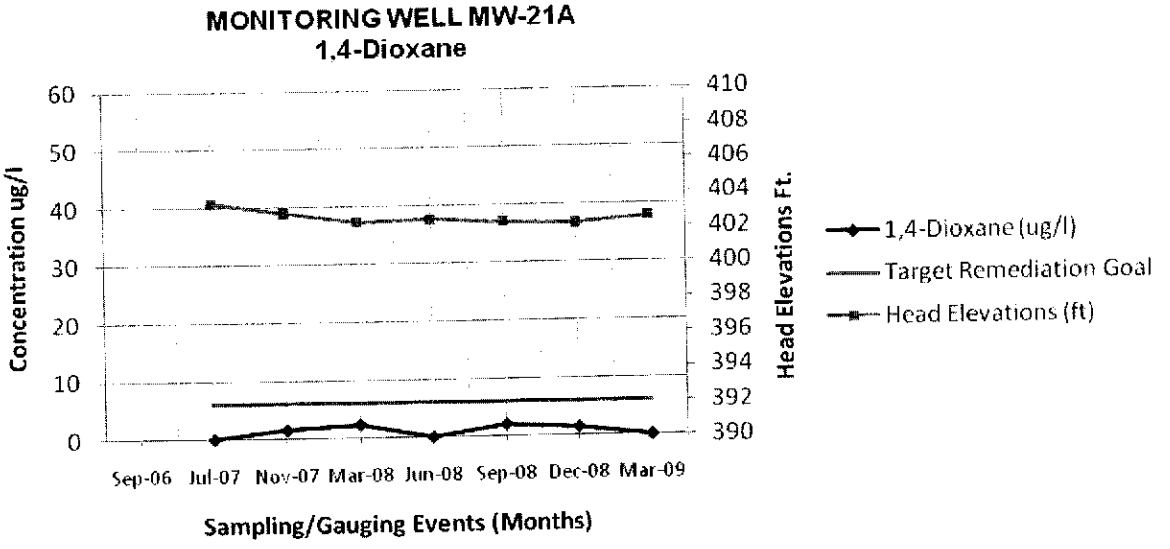
MARTIN SLAGLE GeoEnvironmental Associates, LLC PO Box 1023 Black Mountain, NC 28711 828.669.3929 828.669.5289	SCALE = N/A REV: 1 DATE: 11/17/09 DR: SML CHK: RLM	**1,4-DIOXANE CONCENTRATIONS vs TIME** Kuhlman Electric Corporation Crystal Springs, MS
	PREPARED FOR: BorgWarner Inc.	**APPENDIX G-30**



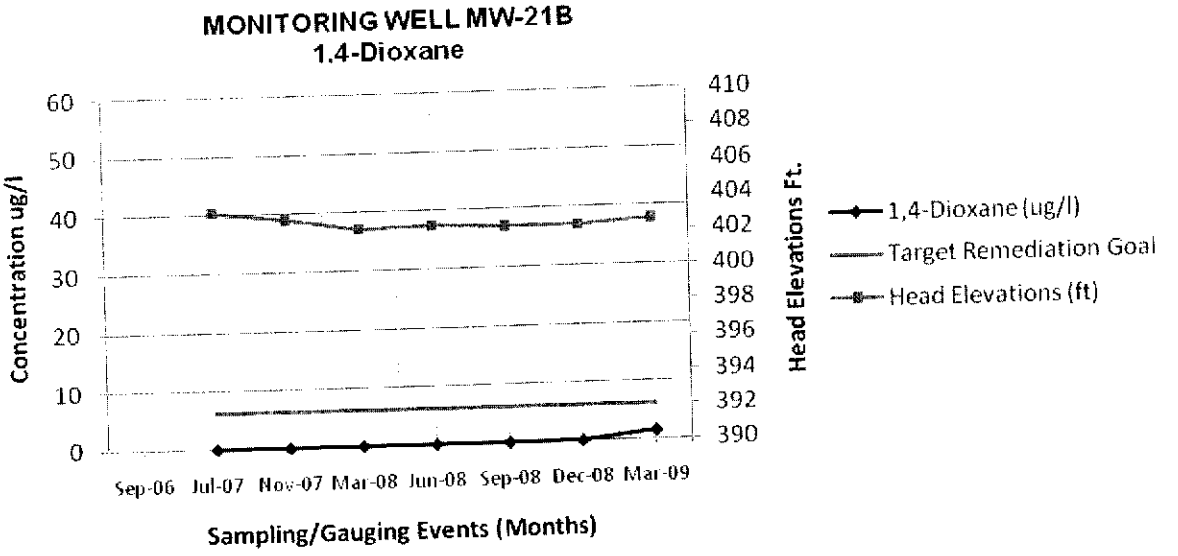


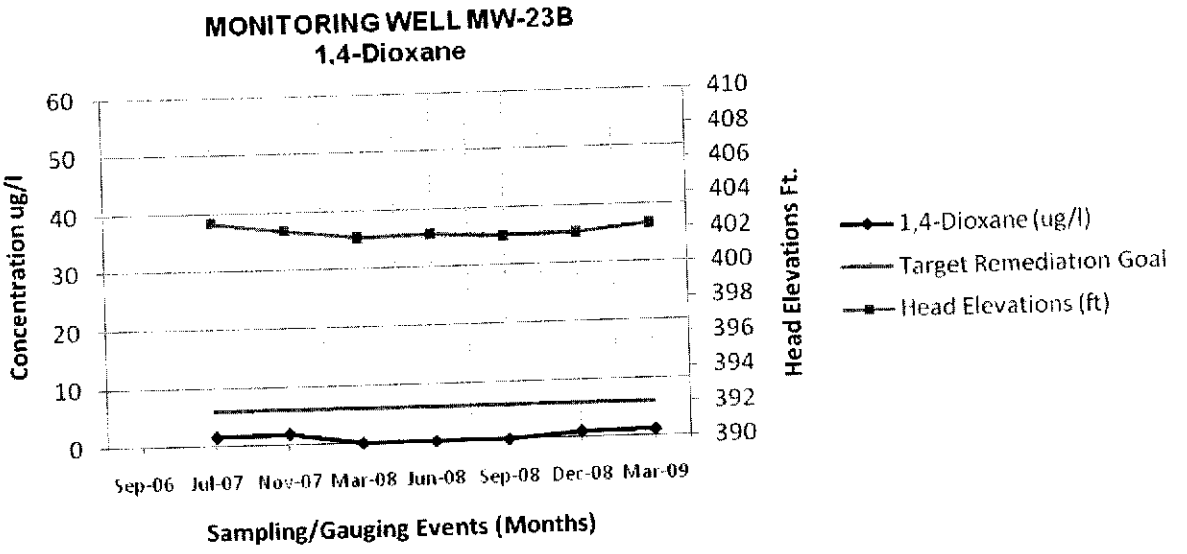
MARTIN & SLAGLE GeoEnvironmental Associates, LLC PO Box 1023 Black Mountain, NC 28711 828.669.3929 828.669.5289	SCALE = N/A REV: 1 DATE: 11/17/09 DR: SML CHK: RLM	**1,4-DIOXANE CONCENTRATIONS vs TIME** Kuhlman Electric Corporation Crystal Springs, MS
	PREPARED FOR: BorgWarner Inc.	**APPENDIX G-31**



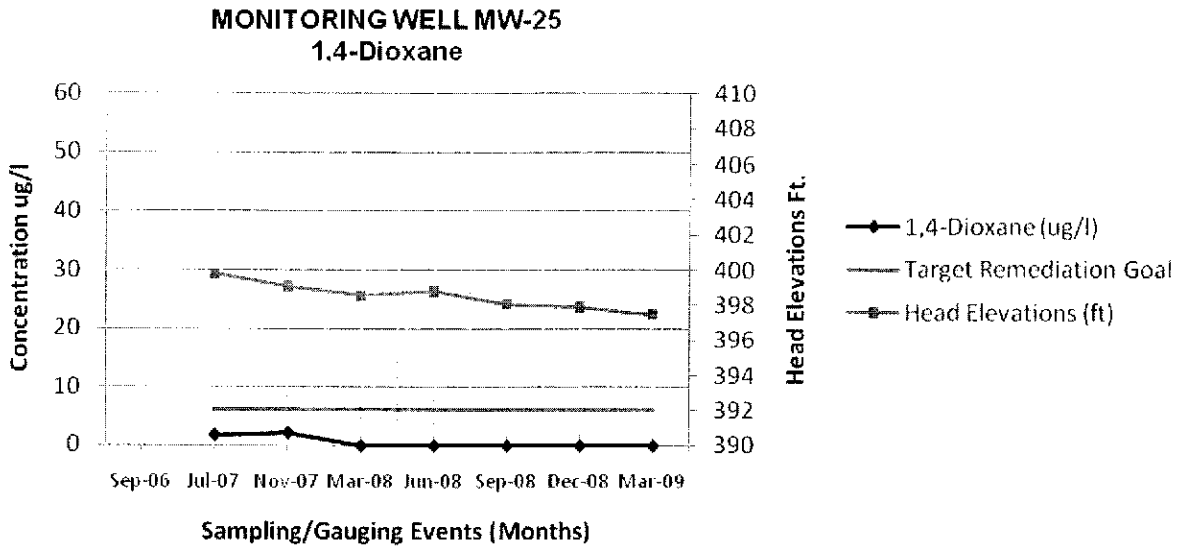


MARTIN SLAGLE GeoEnvironmental Associates, LLC PO Box 1023 Black Mountain, NC 28711 828.669.3929 828.669.5289	SCALE = N/A REV: 1 DATE: 11/17/09 DR: SML CHK: RLM	**1,4-DIOXANE CONCENTRATIONS vs TIME** Kuhlman Electric Corporation Crystal Springs, MS
	PREPARED FOR: BorgWarner Inc.	**APPENDIX G-32**

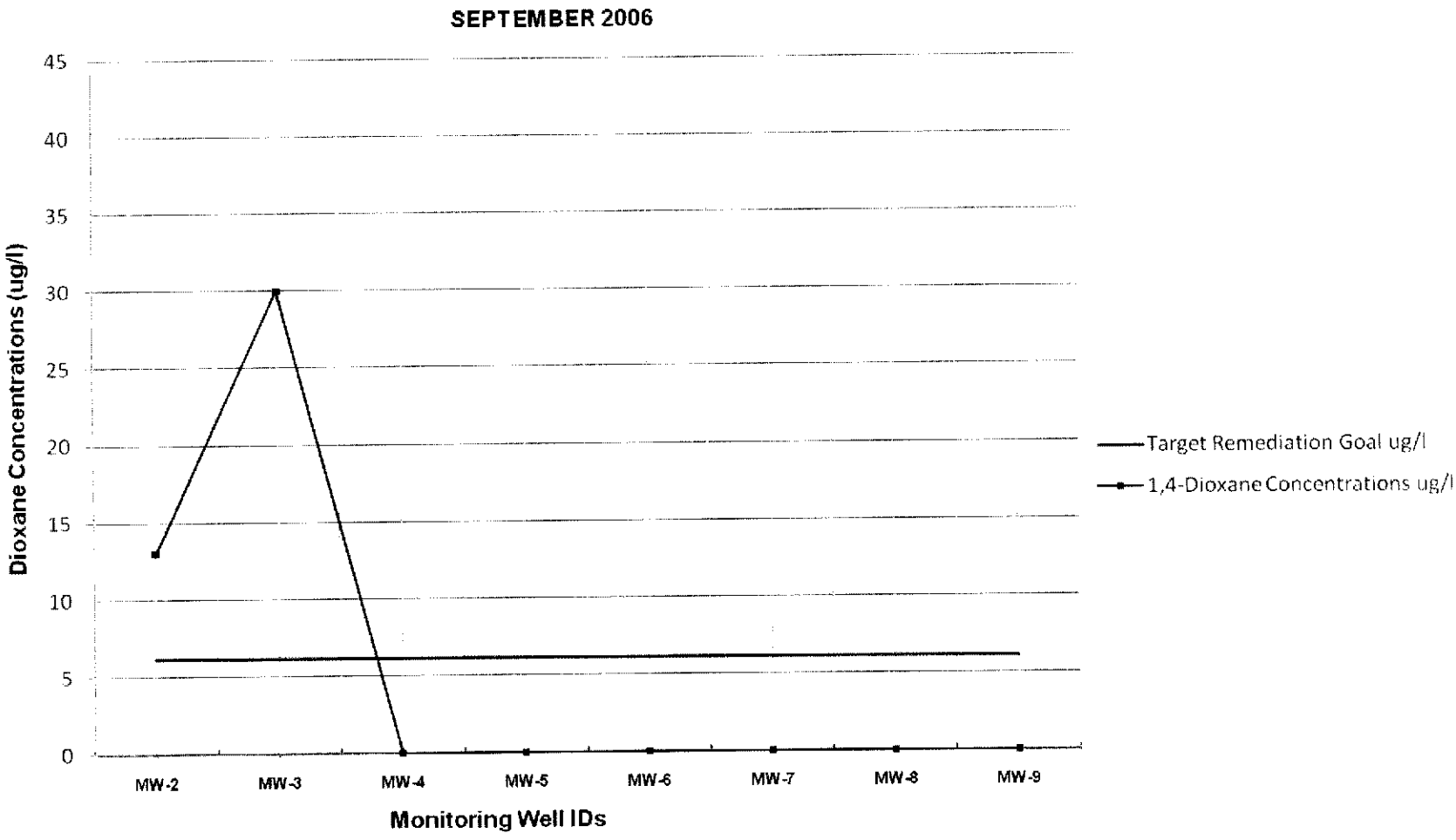




MARTIN & SLAGLE GeoEnvironmental Associates, LLC PO Box 1023 Black Mountain, NC 28711 828.669.3929 828.669.5289	SCALE = N/A REV: 1 DATE: 11/17/09 DR: SML CHK: RLM	**1,4-DIOXANE CONCENTRATIONS vs TIME** Kuhlman Electric Corporation Crystal Springs, MS
	PREPARED FOR: BorgWarner Inc.	**APPENDIX G-33**



MARTIN SLAGLE GeoEnvironmental Associates, LLC PO Box 1023 Black Mountain, NC 28711 828.669.3929 828.669.5289	SCALE = N/A REV: 1 DATE: 11/17/09 DR: SML CHK: RLM	**1.4-DIOXANE CONCENTRATIONS vs TIME** Kuhlman Electric Corporation Crystal Springs, MS
	PREPARED FOR: BorgWarner Inc.	**APPENDIX G-34**



MARTIN SLAGLE
GeoEnvirionmental Associates, LLC

PO Box 1023
Black Mountain NC 28711
828.669.3929 828.669.5289

PREPARED FOR:

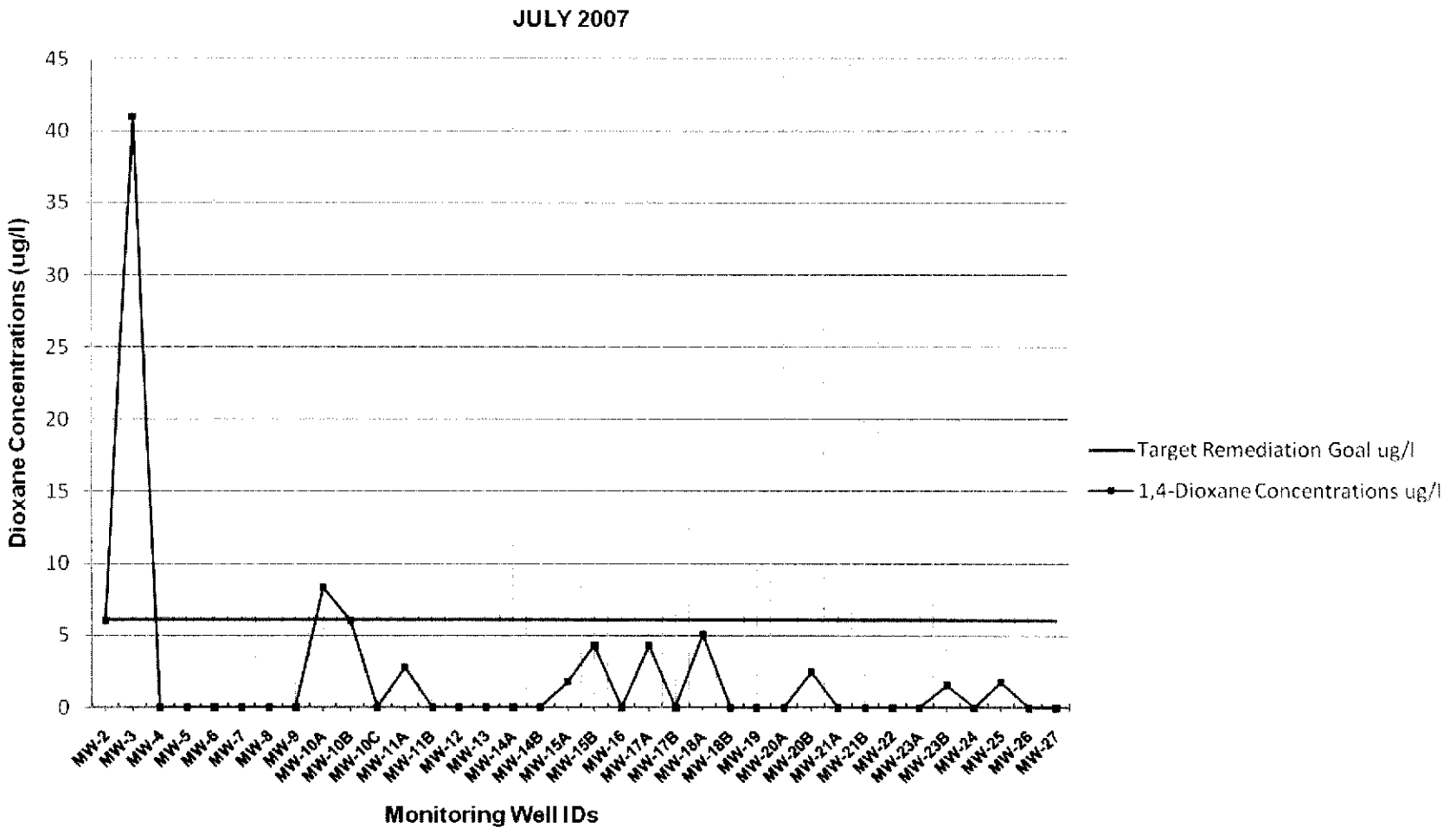
BorgWarner Inc.

SCALE = NA	
REV: 1	
DATE: 11/17/2009	
CHK: RLM	
DR: SML	

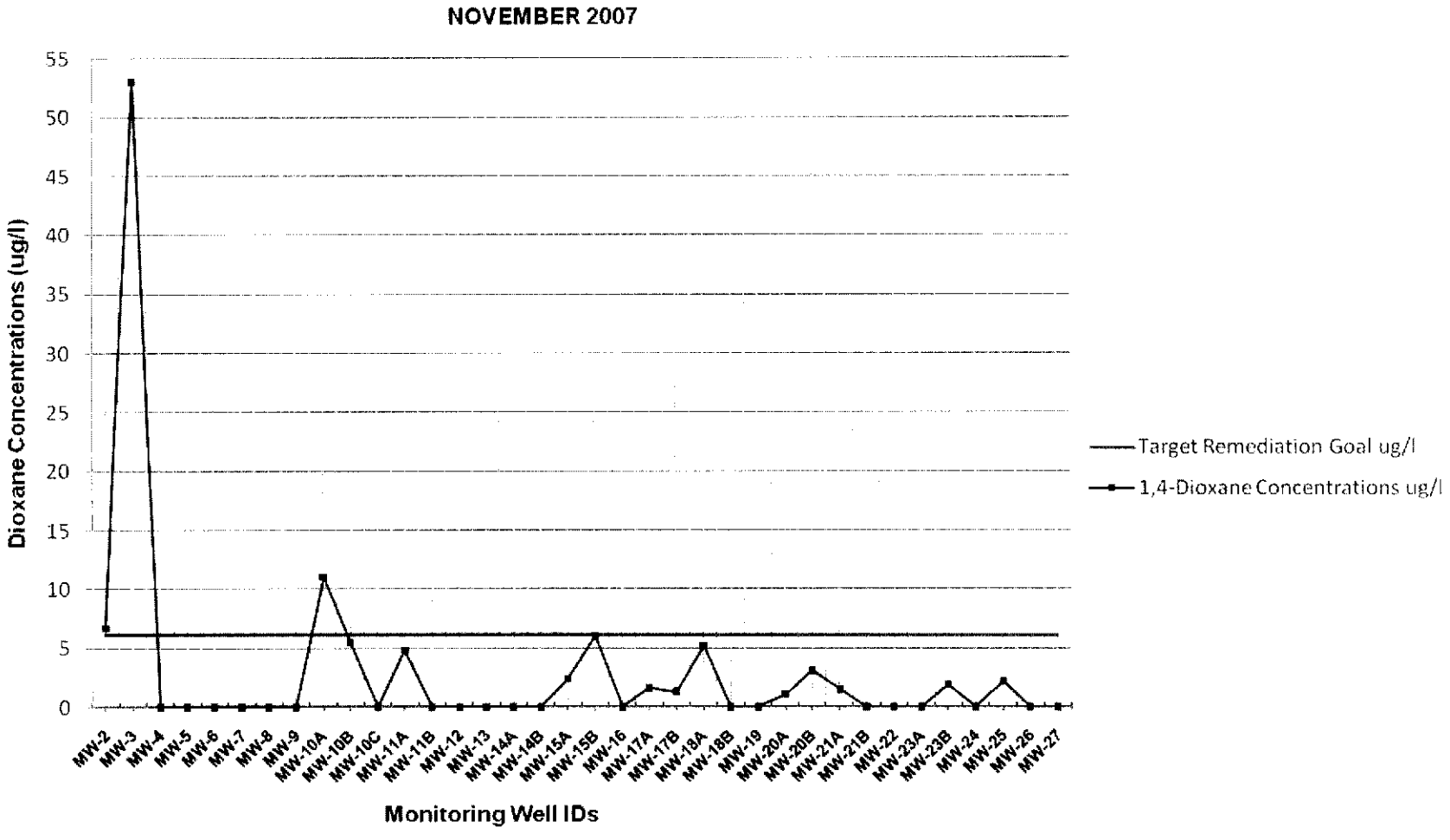
APPENDIX G-35

1,4-DIOXANE CONCENTRATIONS PER WELL

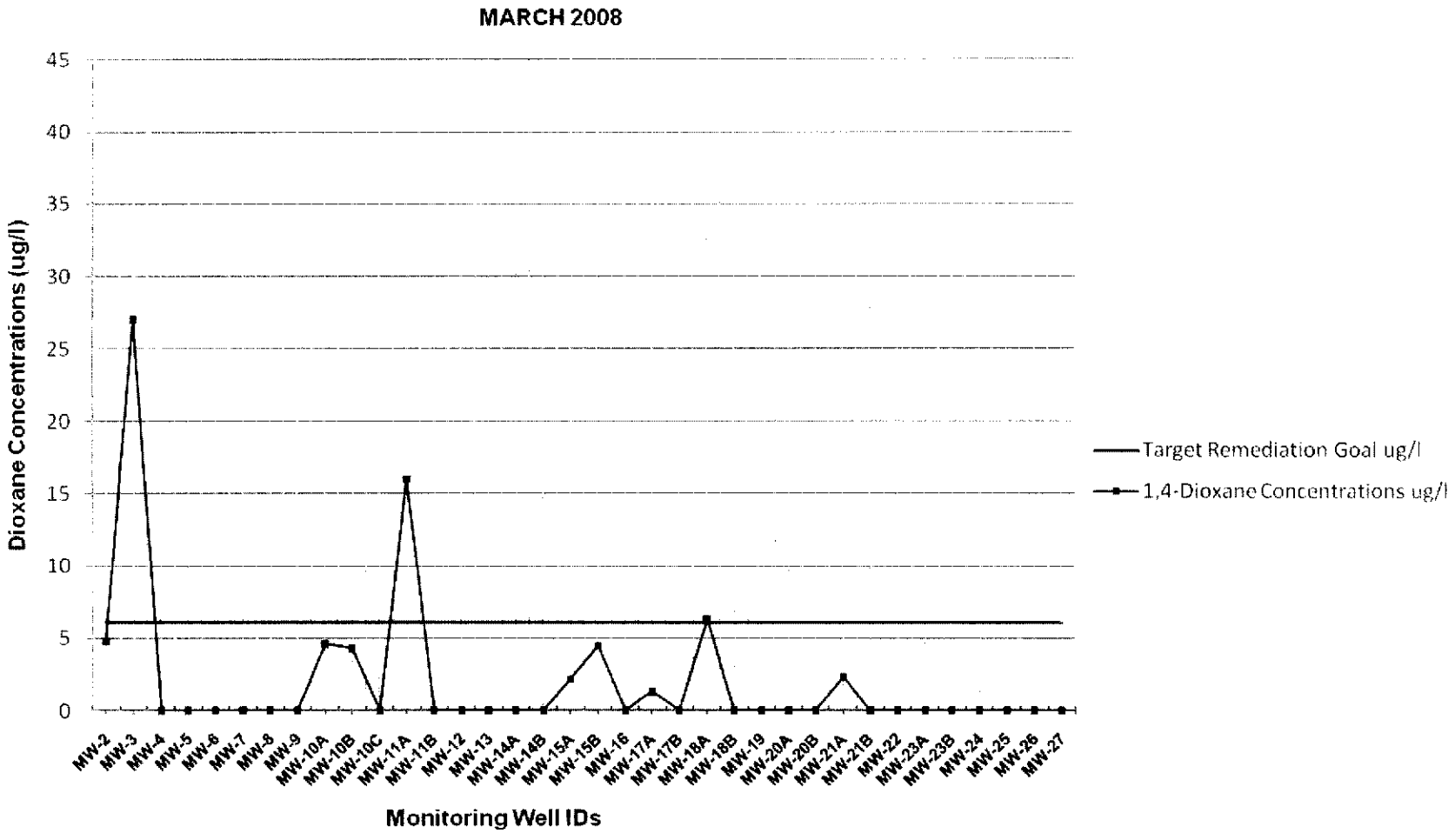
Kuhlman Electric Corporation
Crystal Springs, MS



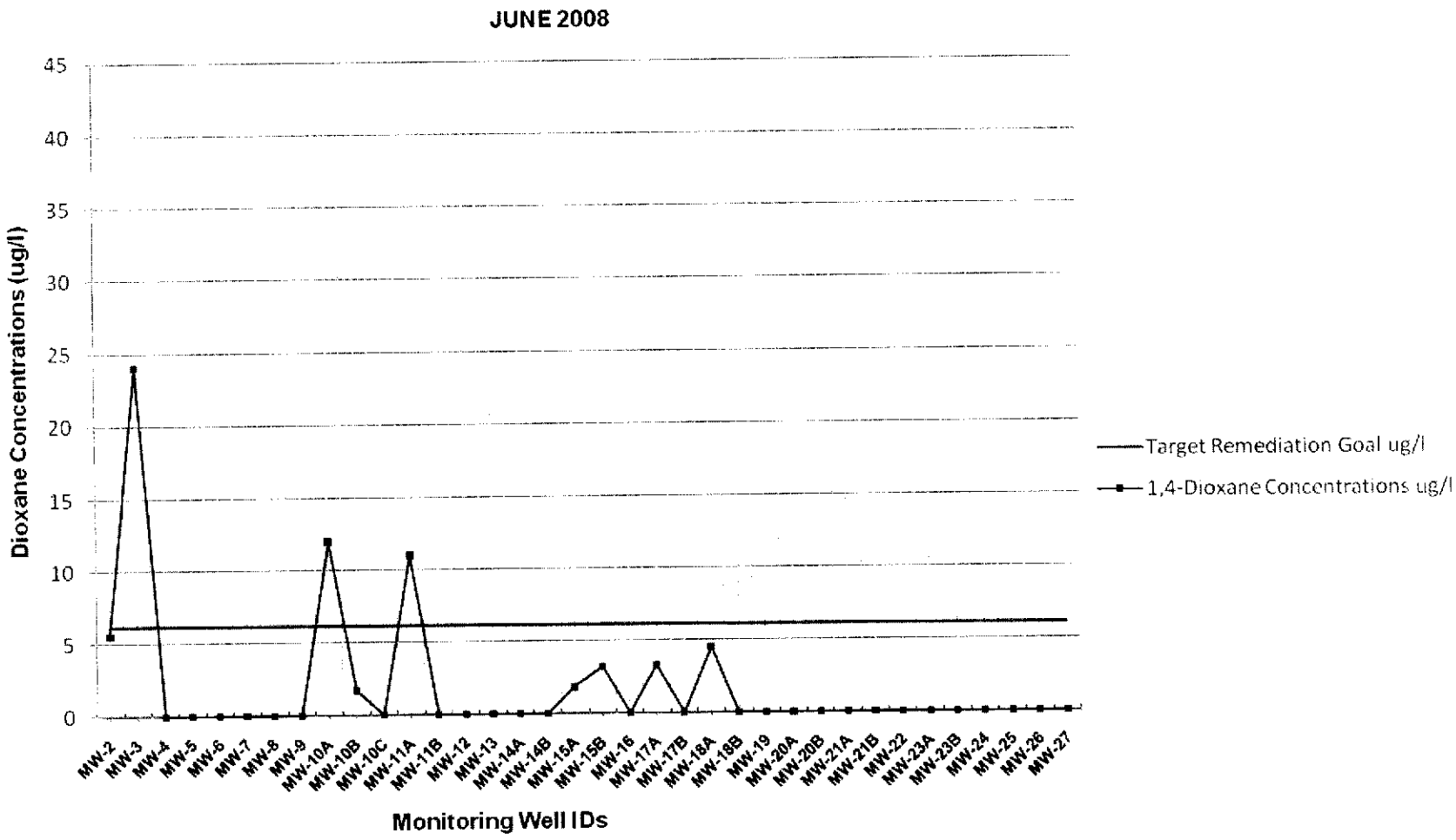
MARTIN & SLAGLE GeoEnvirionmental Associates, LLC PO Box 1023 Black Mountain NC 28711 828.669.3929 828.669.5289	PREPARED FOR: BorgWarner Inc.	SCALE = NA REV: 1 DATE: 11/17/2009 CHK: RLM DR: SML	**APPENDIX G-36** **1,4-DIOXANE CONCENTRATIONS PER WELL** Kuhlman Electric Corporation Crystal Springs, MS



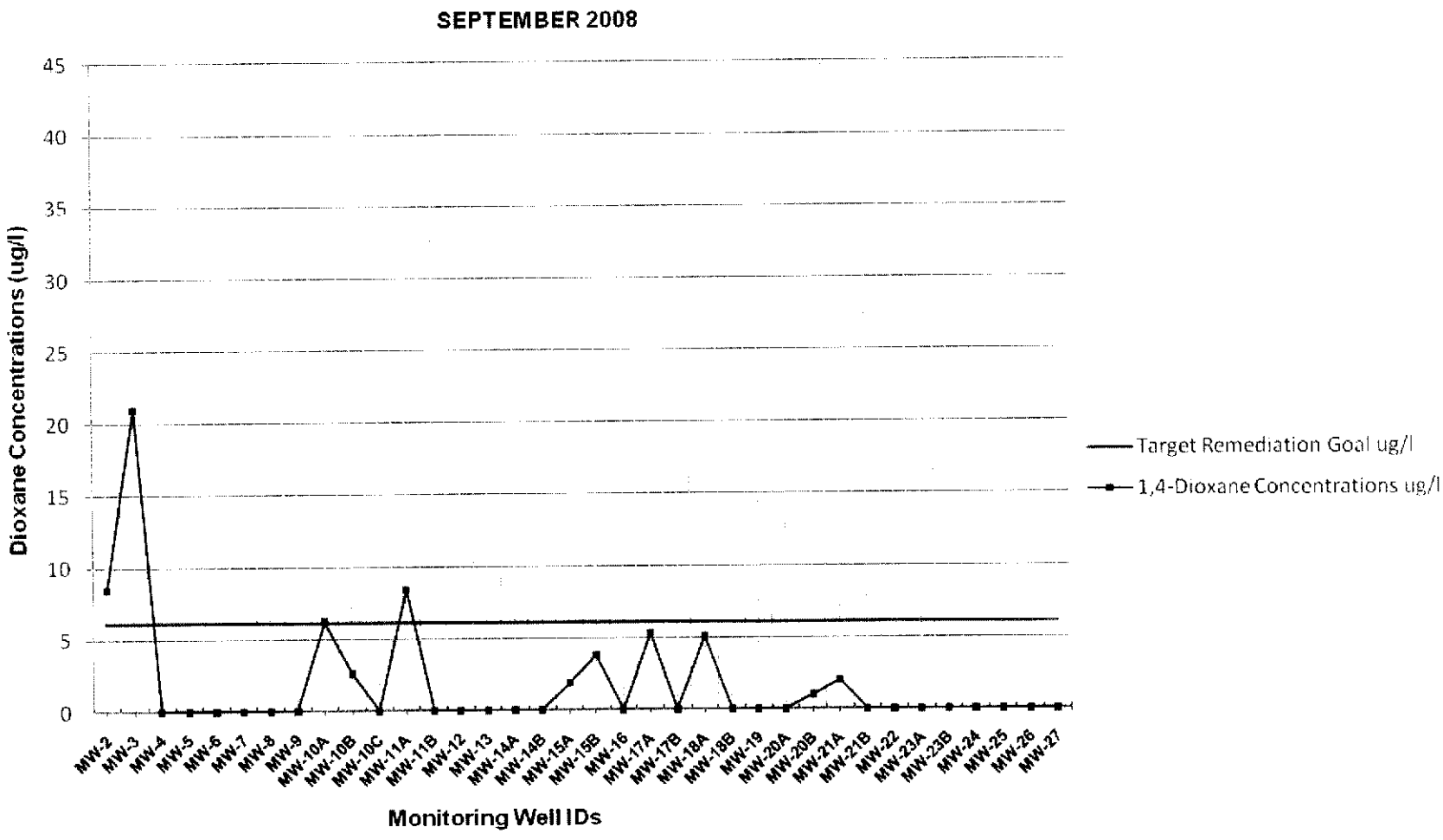
MARTIN SLAGLE GeoEnvirionmental Associates, LLC PO Box 1023 Black Mountain NC 28711 828.669.3929 828.669.5289	PREPARED FOR: BorgWarner Inc.	SCALE = NA REV: 1 DATE: 11/17/2009 CHK: RLM DR: SML	**APPENDIX G-37** **1,4-DIOXANE CONCENTRATIONS PER WELL** Kuhlman Electric Corporation Crystal Springs, MS



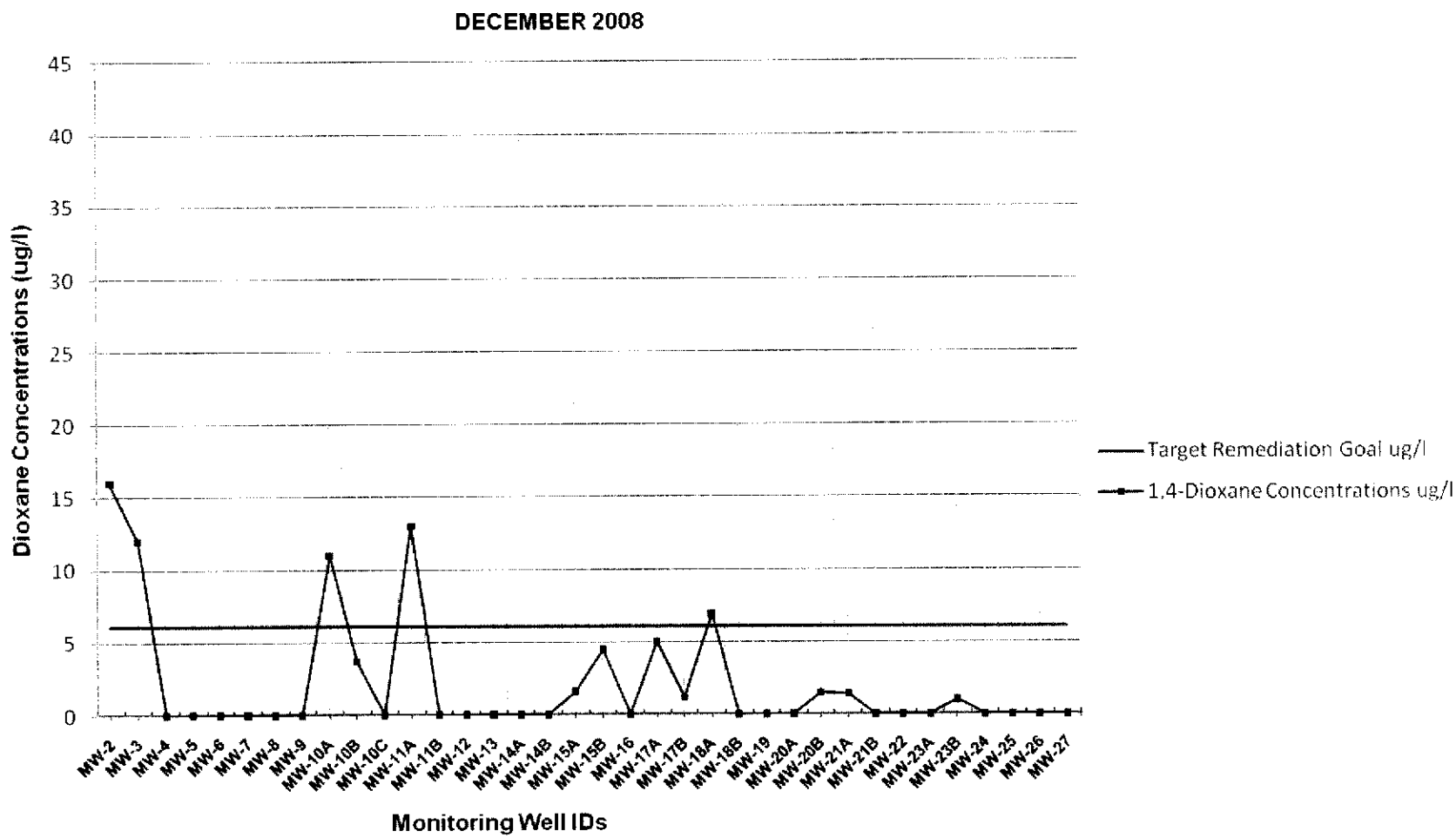
MARTIN SLAGLE GeoEnvirionmental Associates, LLC PO Box 1023 Black Mountain NC 28711 828.669.3929 828.669.5289	PREPARED FOR: BorgWarner Inc.	SCALE = NA REV:1 DATE: 11/17/2009 CHK: RLM DR: SML	**APPENDIX G-38** **1,4-DIOXANE CONCENTRATIONS PER WELL** Kuhlman Electric Corporation Crystal Springs, MS



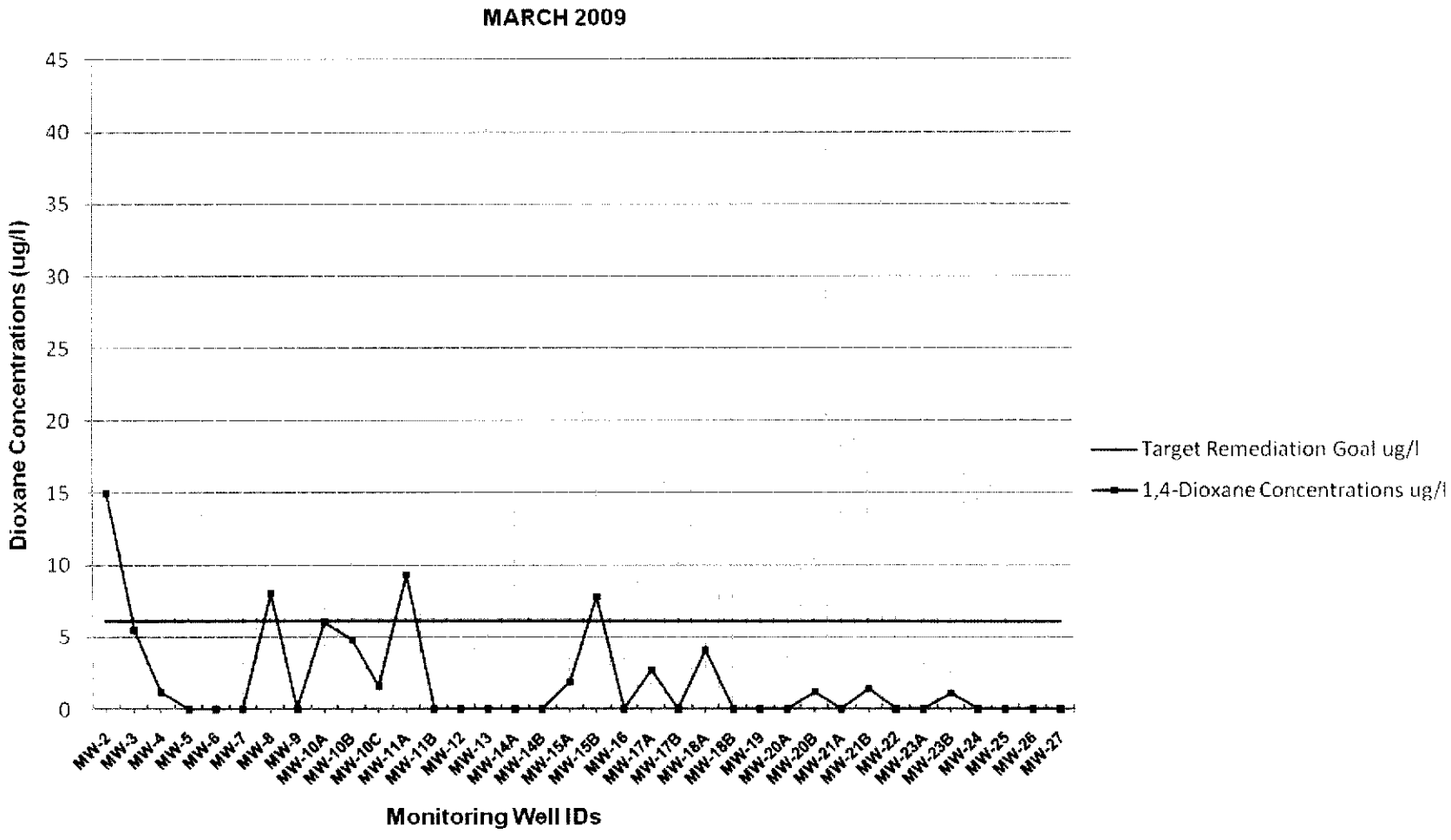
MARTIN SLAGLE GeoEnvirionmental Associates, LLC PO Box 1023 Black Mountain NC 28711 828.669.3929 828.669.5289	PREPARED FOR: BorgWarner Inc.	SCALE = NA REV: 1 DATE: 11/17/2009 CHK: RLM DR: SML	**APPENDIX G-39** **1,4-DIOXANE CONCENTRATIONS PER WELL** Kuhlman Electric Corporation Crystal Springs, MS



MARTIN SLAGLE GeoEnvirionmental Associates, LLC PO Box 1023 Black Mountain NC 28711 828.669.3929 828.669.5289	PREPARED FOR: BorgWarner Inc.	SCALE = NA REV: 1 DATE: 11/17/2009 CHK: RLM DR: SML	**APPENDIX G-40** **1,4-DIOXANE CONCENTRATIONS PER WELL** Kuhlman Electric Corporation Crystal Springs, MS



MARTIN & SLAGLE GeoEnvirionmental Associates, LLC PO Box 1023 Black Mountain NC 28711 828.669.3929 828.669.5289	PREPARED FOR: BorgWarner Inc.	SCALE = NA REV: 1 DATE: 11/17/2009 CHK: RLM DR: SML	**APPENDIX G-41** **1,4-DIOXANE CONCENTRATIONS PER WELL** Kuhlman Electric Corporation Crystal Springs, MS



MARTIN SLAGLE GeoEnvirionmental Associates, LLC PO Box 1023 Black Mountain NC 28711 828.669.3929 828.669.5289	PREPARED FOR: BorgWarner Inc.	SCALE = NA REV: 1 DATE: 11/17/2009 CHK: RLM DR: SML	**APPENDIX G-42** **1,4-DIOXANE CONCENTRATIONS PER WELL** Kuhlman Electric Corporation Crystal Springs, MS