ENVIRONMENTAL BENCHMARK AND

NATURAL ATTENUATION MONITORING REPORT

FOR

FORMER WETSIG YACHTS FACILITY
4022 MARKET STREET
WILMINGTON, NORTH CAROLINA
NEW HANOVER COUNTY

CLARK PROJECT NO. 08102

PREPARED FOR CURRENT PROPERTY OWNER
FERTILE GROUND, LLC
4022 MARKET STREET
WILMINGTON, NORTH CAROLINA

DECEMBER 6, 2013

PREVIOUS PROPERTY OWNER
WETSIG YACHTS
4022 MARKET STREET
WILMINGTON, NC
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RELEASE INFORMATION
RELEASE OF ARSENIC AND CHROMIUM INTO SOILS AND ARSENIC INTO GROUNDWATER OCCURRED APPARENTLY AS A RESULT OF THE LONG-TIME, PREVIOUS OPERATION OF A FERTILIZER BAGGING PLANT ON THE PROPERTY AND/OR ASSOCIATED RAILROAD ACTIVITIES

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FOR

FORMER WETSIG YACHTS FACILITY
WILMINGTON, NORTH CAROLINA

CLARK PROJECT NO. 08102

DECEMBER 6, 2013

1.0 PURPOSE/AUTHORIZATION:

The purpose of this report is to set a current environmental benchmark and to transmit groundwater monitoring data, in accordance with North Carolina Department of Environment and Natural Resources (NCDENR), Division of Waste Management (NCDWM) – Inactive Hazardous Sites Branch (IHSB) requirements. The previous environmental work conducted at this site was under the oversight of the NCDENR Division of Water Resources (NCDWR), Aquifer Protection Section. As of February 20, 2007, this incident was transferred from NCDWR to the NCDWM. The current report is prepared consistent with the site's approved *Corrective Action Plan* (CAP), dated March 21, 2005, prepared by The Clark Group (Clark) on behalf of the previous owner.

The collection of data and preparation of this report were authorized by Mr. Michael Kersting of Fertile Ground, LLC, the current owner of the property, to establish current conditions in association with a financial transaction.

2.0 SITE LOCATION:

The subject facility is located at 4022 Market Street, Wilmington, North Carolina, in New Hanover County. Historically, this site was a fertilizer bagging plant that was situated between a triple junction of railroad lines. A former railroad spur extended immediately behind the building, along a former loading dock, parallel to the existing railroad line. The facility, until very recently, operated as a custom, fiberglass-boat manufacturing plant. The main former fertilizer building has been modified to consist of offices and a carpentry workshop and other commercial uses, as part of the new owner's business. **Figure 1** is a topographic vicinity map and **Figure 2** is a site map showing monitoring wells and other pertinent site features.

3.0 MONITORING COMPONENTS:

3.1 Prior Sampling Activities:

Consistent with the approved CAP and the former monitoring schedule, eight wells (MW3, MW6, MW7, MW11, MW12, MW13, DMW1 and DMW2) have routinely been sampled for arsenic (filtered and unfiltered) since 2006. Over time, it was observed that arsenic was regularly detected, at varying concentrations, at MW7 (filtered samples), and intermittently at trace levels, at several other wells. Back in 2010, with verbal concurrence from NCDENR personnel, Clark implemented a reduced sampling scope of work, to consist of sampling **five** select monitoring wells (MW3, MW6, MW7, MW11, DMW1), given that the "arsenic plume" appears consistently to be isolated to the general vicinity of MW7.

Prior to CAP submittal, various reports were submitted and these recounted the site's historical operations, and included boring logs for all monitoring wells, and other pertinent documentation. Since CAP approval, multiple reports have summarized findings: *Natural Attenuation Quarterly Monitoring Report* (Second Quarter), dated May 12, 2006; *Natural Attenuation Quarterly Monitoring Report* (Third Quarter), dated September 14, 2006; the annual report (as the fourth quarter report), entitled *Natural Attenuation Annual Monitoring Report* (Fourth Quarter), dated December 13, 2006; *Natural Attenuation Semi-Annual Monitoring Report* (Fifth Event), dated May 8, 2007; *Natural Attenuation Semi-Annual Monitoring Report* (Sixth Event), dated July 10, 2008; *Natural Attenuation Semi-Annual Monitoring Report* (Seventh Event), dated January 6, 2009; *Natural Attenuation Semi-Annual Monitoring Report* (Eighth Event), dated August 18, 2009; and, an annual report, *Natural Attenuation Semi-annual Monitoring Report* (Ninth Event), dated July 9, 2010.

4.0 PROJECT STATUS/GROUNDWATER MONITORING RESULTS:

4.1 Groundwater Measurements:

The depth to water was measured in all monitoring wells which could be located and groundwater measurements are summarized in **Table 1**. Depth to water ranged from approximately 7.4 feet to 11.99 feet below grade, depending on location. Several wells could not be located and it is presumed these have been destroyed due to ongoing re-development at the adjacent, formerly wooded tract, which is presently undergoing bulldozing and clearing.

4.2 Groundwater Flow Direction:

Based on measurements taken on November 18, 2013, groundwater flow is oriented in two directions: to the north, which is not consistent with historical groundwater potentiometric contour maps, and to the southwest, which is more typical for the site (**Figure 3**). It is noteworthy that the depth to groundwater is quite low; thus, the depicted hydrologic configuration may be biased somewhat due to limited data and the relatively low water levels observed at most wells.

4.3 Groundwater Samples:

On November 18, 2013, five select monitoring wells (MW3, MW6, MW7, MW9, and DMW1) were sampled for arsenic, using both unfiltered and laboratory-filtered sampling protocols. The well MW11 had been planned for sampling but it could not be located and appears to have been destroyed during offsite clearing of the woods. The current samples were collected using a low flow peristaltic pump, new tubing for each well, placed into laboratory prepared jars, stored on ice, and were taken to the analytical laboratory (Enviro-Chem) within the sample holding times.

One sample from each well was analyzed for arsenic as an "unfiltered, total" (undissolved) sample, which yields a "total arsenic" value. The other sample from each well was filtered at the analytical laboratory, and tested for arsenic, and this yields a solute-only (dissolved) arsenic concentration. It has been generally observed that the unfiltered (total) concentration frequently exceeds the laboratory-filtered result, likely because filtering removes fine mineral particulate sediment, which may contain the target metal in the natural soils (i.e., leaving the particulates in the unfiltered sample can potentially result in "false positive" findings of arsenic or other metals in groundwater). The current laboratory findings are summarized in **Table 2** and laboratory reports are contained in **Appendix I**.

4.4 Contaminant Plume:

For four of the five wells sampled, the analytical results document that a minor amount of arsenic is present, in both the unfiltered and laboratory-filtered samples, at similar concentrations as have been observed before, in excess of the new (2010) 15A NCAC 2L groundwater standard of 10 μg/L. Compared with prior, historical findings, the results are consistent:

MW3, unfiltered 52 μg/L, filtered 54 μg/L, similar to prior results, slightly elevated
MW6, unfiltered 31 μg/L, filtered 24 μg/L, similar to prior results, slightly elevated
MW7, unfiltered <100 μg/L (elevated BQL), filtered 19 μg/L, considerably lower
MW9, unfiltered 29 μg/L, filtered 20 μg/L, similar to prior results, slightly elevated
DMW1 (deeper well), unfiltered <10 μg/L, filtered <10 μg/L, non detect as before

The fact that the two protocols, again, generated such similar concentrations suggests that the arsenic is solute (and not particulate). Based on these results, the extent and configuration of the total arsenic and dissolved (solute) arsenic plume is similar to prior plume configurations (see prior reports on file, and **Figure 4**).

4.5 Discussion of Trends:

The arsenic concentrations are interpreted to be generally consistent with historical analytical results, but do show fluctuations (**Table 2**). **Figure 5** is a graph showing the concentrations of arsenic versus time at MW3, MW6, and MW7. The trend depicted therein indicates that concentrations at MW3 and MW6 have been essentially static, and MW7 has displayed more significant fluctuations.

4.5.1 Depth to Groundwater versus Arsenic Levels:

Figures 6, 7, and **8** display the arsenic concentration data for each of the three wells which consistently have had or currently contain arsenic (MW3, MW6, and MW7, respectively), as compared to the potentiometric elevation of static groundwater at each well.

For MW3 there is no obvious, consistent correlation between arsenic levels and the potentiometric elevation.

For MW6 there seems to be a congruent relationship: high water levels appear to correlate with high(er) arsenic values.

For MW7 there seems to be a fairly consistent incongruent/inverse relationship: high water levels appear to correlate with low(er) arsenic levels.

Despite these general correlations, all of these wells are very close to each other, thus it seems that the relevance of these trends, or lack thereof, does not appear to be significant or readily attributable to any singular cause and effect relationship.

For each of these three wells, a review of historically procured laboratory natural attenuation parameters (**Table 3**), and field parameter measurements (**Table 4**) does not display any observable pattern.

4.6 Potential Receptors:

Available information indicates that there are no nearby potential receptors at risk due to the presence of total arsenic or dissolved (solute) arsenic at the site: no water supply wells, no proximal surface water bodies, or other receptors were within at least 500 feet of the impacted area.

5.0 CONCLUSIONS AND RECOMMENDATIONS:

In summary, total arsenic and dissolved arsenic were both present in groundwater samples collected from four of the five wells sampled this interim, in excess of the new (2010) 15A NCAC 2L groundwater standard of 10 μ/L. The fact that the two protocols, again, generated such similar concentrations suggests that the arsenic is solute (and not particulate). There

have been no recent or current activities at the site that could be construed to be contributing to the arsenic contamination at the site, nor could any activity at the site account for the fluctuations observed in arsenic levels at MW7, over time.

It has been suggested in prior correspondence to NC DENR, that the arsenic impacted wells are positioned immediately adjacent to a former railroad spur (railroad ties/timbers were encountered during drilling in this vicinity, at a depth of about 1 to 4 feet) and it is feasible that the detected arsenic is an artifact of the presence of creosote-treated railroad ties/timbers. A review of historical data confirms that the only wells to have contained the arsenic are those located parallel and immediately adjacent to the buried rail line.

On the basis of current and historical findings for multiple sample events and the lack of potential receptors, and consistent with the monitoring scheme generally outlined in the 2005 CAP, our client requests that select monitoring be continued on a biennial basis, so that the next sampling event will be planned for November 2015. A review of **Table 2** documents that the plume has reached a relatively stable condition, and the range of fluctuations (particularly for MW7) appears predictable, based on documented findings. Nonetheless, the fluctuations in concentration levels demonstrate that the arsenic is not naturally degrading in a consistent downward trend over time, although most levels do show considerable decreases since sampling was initiated.

As before, our client requests that the number of wells to be sampled remain at the current **five**: MW3, MW6, MW7, MW9, and DMW1, and that all wells be accessed and depth to water measured, in order to produce a representative potentiometric surface contour map.

Additional recommendations may be warranted based on the findings of future monitoring events. This report should be submitted to NCDWM – IHSB for review and comment.

Current statutory frameworks provide for the opportunity to evolve a long-term solution to the regulatory stigma associated with the site. It is possible that the reinstallation of select monitoring wells may be necessary.

6.0 LIMITATIONS:

Information obtained and presented as part of this investigation is based on available data in an effort to understand and/or correct an existing or potential problem. The validity of any resulting conclusions is limited by methodological constraints and by the lack of a statistically significant number of data points. There is no warranty, expressed or implied, that additional or new information and/or additional measures will not be required to ultimately solve the problem. Additionally, Clark assumes no responsibility for the validity of subjective or interpolated interpretations, whether or not implied or indicated, although an attempt is made to qualify such.

TABLES

TABLE 1
MONITORING WELL CONSTRUCTION DETAILS AND GROUNDWATER LEVEL DATA
WETSIG YACHTS FACILITY
CLARK PROJECT NO. 08102

WELL ID	DATE INSTALLED	DATE WATER LEVEL MEASURED	TOTAL DEPTH	SCREENED INTERVAL	TOP OF CASING ELEVATION	DEPTH TO WATER FROM TOP OF CASING	FREE PRODUCT THICKNESS	POTENTIOMETRIC HEAD ELEVATION
MW1	09/25/02	10/02/02	11.5	1.5 - 11.5	97.87	5.97	0	91.90
MW1		10/31/02	11.5	1.5 - 11.5	97.87	6.98	0	90.89
MW1		04/30/03	11.5	1.5 - 11.5	97.87	5.42	0	92.45
MW1		08/14/03	11.5	1.5 - 11.5	97.87	5.30	0	92.57
MW1		01/20/04	11.5	1.5 - 11.5	97.87	7.10	0	90.77
MW1		04/16/04	11.5	1.5 - 11.5	97.87	7.28	0	90.59
MW1		08/04/04	11.5	1.5 - 11.5	97.87	6.75	0	91.12
MW1		02/09/05	11.5	1.5 - 11.5	97.87	8.67	0	89.20
MW1		01/06/06	11.5	1.5 - 11.5	97.87	5.76	0	92.11
MW1		04/05/06	11.5	1.5 - 11.5	97.87	7.54	0	90.33
MW1		08/03/06	11.5	1.5 - 11.5	97.87	9.85	0	88.02
MW1		10/24/06	11.5	1.5 - 11.5	97.87	5.85	0	92.02
MW1		04/24/07	11.5	1.5 - 11.5	97.87	8.24	0	89.63
MW1		06/17/08	11.5	1.5 - 11.5	97.87	10.89	0	86.98
MW1		12/04/08	11.5	1.5 - 11.5	97.87	7.79	0	90.08
MW1		06/26/09	11.5	1.5 - 11.5	97.87	10.18	0	87.69
MW1		06/23/10	11.5	1.5 - 11.5	97.87	10.21	0	87.66
MW1		11/18/13	11.5	1.5 - 11.5	97.87	10.76	0	87.11
MW2	09/25/02	10/02/02	12	2 - 12	97.81	6.02	0	91.79
MW2		10/31/02	12	2 - 12	97.81	7.07	0	90.74
MW2		04/30/03	12	2 - 12	97.81	5.43	0	92.38
MW2		08/14/03	12	2 - 12	97.81	5.35	0	92.46
MW2		01/20/04	12	2 - 12	97.81	7.13	0	90.68
MW2		04/16/04	12	2 - 12	97.81	7.31	0	90.50
MW2		08/04/04	12	2 - 12	97.81	6.56	0	91.25
MW2		02/09/05	12	2 - 12	97.81	8.62	0	89.19
MW2		01/06/06	12	2 - 12	97.81	5.80	0	92.01
MW2		04/05/06	12	2 - 12	97.81	7.62	0	90.19
MW2		08/03/06	12	2 - 12	97.81	9.25	0	88.56
MW2		10/24/06	12	2 - 12	97.81	5.82	0	91.99
MW2		04/24/07	12	2 - 12	97.81	8.23	0	89.58
MW2		06/17/08	12	2 - 12	97.81	Not Located	0	Not Located
MW2		12/04/08	12	2 - 12	97.81	7.70	0	90.11
MW2		06/26/09	12	2 - 12	97.81	Not Located	0	Not Located
MW2		06/23/10	12	2 - 12	97.81	Not Located	0	Not Located
MW2		11/18/13	12	2 - 12	97.81	Not Located	0	Not Located
MW3	09/25/02	10/02/02	12	2 - 12	97.03	5.58	0	91.45
MW3		10/31/02	12	2 - 12	97.03	6.58	0	90.45
MW3		04/30/03	12	2 - 12	97.03	4.87	0	92.16
MW3		08/14/03	12	2 - 12	97.03	4.95	0	92.08
MW3		01/20/04	12	2 - 12	97.03	6.59	0	90.44
MW3		04/16/04	12	2 - 12	97.03	6.72	0	90.31
MW3		08/04/04	12	2 - 12	97.03	6.23	0	90.80
MW3		02/09/05	12	2 - 12	97.03	7.99	0	89.04
MW3		01/06/06	12	2 - 12	97.03	6.25	0	90.78
MW3		04/05/06	12	2 - 12	97.03	6.99	0	90.04
MW3		08/03/06	12	2 - 12	97.03	8.41	0	88.62
MW3		10/24/06	12	2 - 12	97.03	5.22	0	91.81
MW3		04/24/07	12	2 - 12	97.03	7.68	0	89.35

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MW3		06/17/08	12	2 - 12	97.03	9.51	0	87.52
MW3		12/04/08	12	2 - 12	97.03	7.18	0	89.85
MW3		06/26/09	12	2 - 12	97.03	8.77	0	88.26
MW3		06/23/10	12	2 - 12	97.03	8.09	0	88.94
MW3		11/18/13	12	2 - 12	97.03	8.40	0	88.63
MW4	09/25/02	10/02/02	12	2 - 12	98.66	6.74	0	91.92
MW4		10/31/02	12	2 - 12	98.66	7.85	0	90.81
MW4		04/30/03	12	2 - 12	98.66	6.31	0	92.35
MW4		08/14/03	12	2 - 12	98.66	9.11	0	89.55
MW4		01/20/04	12	2 - 12	98.66	7.87	0	90.79
MW4		04/16/04	12	2 - 12	98.66	8.13	0	90.53
MW4		08/04/04	12	2 - 12	98.66	8.30	0	90.36
MW4		01/06/06	12	2 - 12	98.66	6.62	0	92.04
MW4		04/05/06	12	2 - 12	98.66	8.48	0	90.18
MW4		08/03/06	12	2 - 12	98.66	10.57	0	88.09
MW4		10/24/06	12	2 - 12	98.66	6.75	0	91.91
MW4		04/24/07	12	2 - 12	98.66	9.14	0	89.52
MW4		06/17/08	12	2 - 12	98.66	11.50	0	87.16
MW4		12/04/08	12	2 - 12	98.66	8.63	0	90.03
MW4		06/26/09	12	2 - 12	98.66	10.48	0	88.18
MW4		06/23/10	12	2 - 12	98.66	10.52	0	88.14
MW4		11/18/13	12	2 - 12	98.66	10.77	0	87.89
MW5	09/25/02	10/02/02	12	2 - 12	100.20	9.18	0	91.02
MW5		10/31/02	12	2 - 12	100.20	10.39	0	89.81
MW5		04/30/03	12	2 - 12	100.20	8.73	0	91.47
MW5		08/14/03	12	2 - 12	100.20	9.05	0	91.15
MW5		01/20/04	12	2 - 12	100.20	10.40	0	89.80
MW5		04/16/04	12	2 - 12	100.20	10.71	0	89.49
MW5		08/04/04	12	2 - 12	100.20	11.69	0	88.51
MW5		01/06/06	12	2 - 12	100.20	9.06	0	91.14
MW5		04/05/06	12	2 - 12	100.20	11.08	0	89.12
MW5		08/03/06	12	2 - 12	100.20	DRY	0	NA
MW5		10/24/06	12	2 - 12	100.20	9.27	0	90.93
MW5		04/24/07	12	2 - 12	100.20	DRY	0	NA
MW5		06/17/08	12	2 - 12	100.20	10.86	0	89.34
MW5		12/04/08	12	2 - 12	100.20	11.79	0	88.41
MW5		06/26/09	12	2 - 12	100.20	11.97	0	88.23
MW5		06/23/10	12	2 - 12	100.20	11.99	0	88.21
MW5		11/18/13	12	2 - 12	100.20	12.00	0	88.20
MW6	08/11/03	08/14/03	11.5	1.5 - 11.5	97.08	5.13	0	91.95
MW6		01/20/04	11.5	1.5 - 11.5	97.08	6.74	0	90.34
MW6		04/16/04	11.5	1.5 - 11.5	97.08	6.91	0	90.17
MW6		08/04/04	11.5	1.5 - 11.5	97.08	6.64	0	90.44
MW6		02/09/05	11.5	1.5 - 11.5	97.08	8.07	0	89.01
MW6		01/06/06	11.5	1.5 - 11.5	97.08	5.38	0	91.70
MW6		04/05/06	11.5	1.5 - 11.5	97.08	7.19	0	89.89
MW6		08/03/06	11.5	1.5 - 11.5	97.08	8.64	0	88.44
MW6		10/24/06	11.5	1.5 - 11.5	97.08	5.34	0	91.74
MW6		04/24/07	11.5	1.5 - 11.5	97.08	7.84	0	89.24

TABLE 1
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MW6		06/17/08	11.5	1.5 - 11.5	97.08	9.52	0	87.56
MW6		12/04/08	11.5	1.5 - 11.5	97.08	7.49	0	89.59
MW6		06/26/09	11.5	1.5 - 11.5	97.08	9.08	0	88.00
MW6		06/23/10	11.5	1.5 - 11.5	97.08	8.98	0	88.10
MW6		11/18/13	11.5	1.5 - 11.5	97.08	8.03	0	89.05
MW7	08/11/03	08/14/03	11.5	1.5 - 11.5	97.00	4.73	0	92.27
MW7		01/20/04	11.5	1.5 - 11.5	97.00	6.45	0	90.55
MW7		04/16/04	11.5	1.5 - 11.5	97.00	6.57	0	90.43
MW7		08/04/04	11.5	1.5 - 11.5	97.00	5.83	0	91.17
MW7		02/09/05	11.5	1.5 - 11.5	97.00	7.77	0	89.23
MW7		01/06/06	11.5	1.5 - 11.5	97.00	6.01	0	90.99
MW7		04/05/06	11.5	1.5 - 11.5	97.00	6.87	0	90.13
MW7		08/03/06	11.5	1.5 - 11.5	97.00	8.20	0	88.80
MW7		10/24/06	11.5	1.5 - 11.5	97.00	5.03	0	91.97
MW7		04/24/07	11.5	1.5 - 11.5	97.00	7.49	0	89.51
MW7		06/17/08	11.5	1.5 - 11.5	97.00	9.31	0	87.69
MW7		12/04/08	11.5	1.5 - 11.5	97.00	6.95	0	90.05
MW7		06/26/09	11.5	1.5 - 11.5	97.00	8.85	0	88.15
MW7		06/23/10	11.5	1.5 - 11.5	97.00	7.95	0	89.05
MW7		11/18/13	11.5	1.5 - 11.5	97.00	8.27	0	88.73
MW8	01/16/04	01/20/04	12	2 - 12	96.99	6.30	0	90.69
MW8		04/16/04	12	2 - 12	96.99	6.42	0	90.57
MW8		08/04/04	12	2 - 12	96.99	5.27	0	91.72
MW8		02/09/05	12	2 - 12	96.99	7.63	0	89.36
MW8		01/06/06	12	2 - 12	96.99	5.01	0	91.98
MW8		04/05/06	12	2 - 12	96.99	6.62	0	90.37
MW8		08/03/06	12	2 - 12	96.99	7.90	0	89.09
MW8		10/24/06	12	2 - 12	96.99	4.98	0	92.01
MW8		04/24/07	12	2 - 12	96.99	7.29	0	89.70
MW8		06/17/08	12	2 - 12	96.99	10.24	0	86.75
MW8		12/04/08	12	2 - 12	96.99	6.80	0	90.19
MW8		06/26/09	12	2 - 12	96.99	8.34	0	88.65
MW8		06/23/10	12	2 - 12	96.99	8.42	0	88.57
MW8		11/18/13	12	2 - 12	96.99	8.63	0	88.36
MW9	01/16/04	01/20/04	12	2 - 12	96.46	6.39	0	90.07
MW9		04/16/04	12	2 - 12	96.46	6.63	0	89.83
MW9		08/04/04	12	2 - 12	96.46	7.04	0	89.42
MW9		02/09/05	12	2 - 12	96.46	8.05	0	88.41
MW9		01/06/06	12	2 - 12	96.46	5.01	0	91.45
MW9		04/05/06	12	2 - 12	96.46	6.95	0	89.51
MW9		08/03/06	12	2 - 12	96.46	8.81	0	87.65
MW9		10/24/06	12	2 - 12	96.46	5.05	0	91.41
MW9		04/24/07	12	2 - 12	96.46	7.65	0	88.81
MW9		06/17/08	12	2 - 12	96.46	10.97	0	85.49
MW9		12/04/08	12	2 - 12	96.46	7.21	0	89.25
MW9		06/26/09	12	2 - 12	96.46	8.83	0	87.63
MW9		06/23/10	12	2 - 12	96.46	8.15	0	88.31
MW9		11/18/13	12	2 - 12	96.46	7.40	0	89.06
MW10	01/16/04	01/20/04	12	2 - 12	99.27	10.29	0	88.98

TABLE 1
MONITORING WELL CONSTRUCTION DETAILS AND GROUNDWATER LEVEL DATA
WETSIG YACHTS FACILITY
CLARK PROJECT NO. 08102

WELL ID	DATE INSTALLED	DATE WATER LEVEL MEASURED	TOTAL DEPTH	SCREENED INTERVAL	TOP OF CASING ELEVATION	DEPTH TO WATER FROM TOP OF CASING	FREE PRODUCT THICKNESS	POTENTIOMETRIC HEAD ELEVATION
MW10		04/16/04	12	2 - 12	99.27	10.65	0	88.62
MW10		08/04/04	12	2 - 12	99.27	11.68	0	87.59
MW10		02/09/05	12	2 - 12	99.27	11.71	0	87.56
MW10		01/06/06	12	2 - 12	99.27	8.93	0	90.34
MW10		04/05/06	12	2 - 12	99.27	11.03	0	88.24
MW10		08/03/06	12	2 - 12	99.27	12.05	0	87.22
MW10		10/24/06	12	2 - 12	99.27	8.97	0	90.30
MW10		04/24/07	12	2 - 12	99.27	DRY	0	NA
MW10		06/17/08	12	2 - 12	99.27	11.99	0	87.28
MW10		12/04/08	12	2 - 12	99.27	11.89	0	87.38
MW10		06/26/09	12	2 - 12	99.27	11.96	0	87.31
MW10		06/23/10	12	2 - 12	99.27	12.01	0	87.26
MW10		11/18/13	12	2 - 12	99.27	11.90	0	87.37
MW11	04/13/04	04/16/04	11.5	1.5 - 11.5	94.80	4.76	0	90.04
MW11		08/04/04	11.5	1.5 - 11.5	94.80	4.61	0	90.19
MW11		02/09/05	11.5	1.5 - 11.5	94.80	5.99	0	88.81
MW11		01/09/06	11.5	1.5 - 11.5	94.80	3.53	0	91.27
MW11		04/05/06	11.5	1.5 - 11.5	94.80	4.93	0	91.27
MW11		08/03/06	11.5	1.5 - 11.5	94.80	6.45	0	88.35
MW11		10/24/06	11.5	1.5 - 11.5	94.80	4.15	0	90.65
MW11		04/24/07	11.5	1.5 - 11.5	94.80	5.70	0	89.10
MW11		06/17/08	11.5	1.5 - 11.5	94.80	7.55	0	87.25
MW11		12/04/08	11.5	1.5 - 11.5	94.80	5.18	0	89.62
MW11		06/26/09	11.5	1.5 - 11.5	94.80	6.85	0	87.95
MW11		06/23/10	11.5	1.5 - 11.5	94.80	6.98	0	87.82
MW11		11/18/13	11.5	1.5 - 11.5	94.80	NA	0	NA
MW12	04/14/04	04/16/04	11.5	1.5 - 11.5	93.15	3.40	0	89.75
MW12		08/04/04	11.5	1.5 - 11.5	93.15	3.74	0	89.41
MW12		02/09/05	11.5	1.5 - 11.5	93.15	4.72	0	88.43
MW12		01/06/06	11.5	1.5 - 11.5	93.15	1.73	0	91.42
MW12		04/05/06	11.5	1.5 - 11.5	93.15	3.68	0	89.47
MW12		08/03/06	11.5	1.5 - 11.5	93.15	5.35	0	87.80
MW12		10/24/06	11.5	1.5 - 11.5	93.15	2.76	0	90.39
MW12		04/24/07	11.5	1.5 - 11.5	93.15	4.48	0	88.67
MW12		06/17/08	11.5	1.5 - 11.5	93.15	6.33	0	86.82
MW12		12/04/08	11.5	1.5 - 11.5	93.15	3.94	0	89.21
MW12		06/26/09	11.5	1.5 - 11.5	93.15	6.38	0	86.77
MW12		06/23/10	11.5	1.5 - 11.5	93.15	4.98	0	88.17
MW12		11/18/13	11.5	1.5 - 11.5	93.15	NA	0	NA
MW13	12/21/05	01/06/06	17	7 - 17	100.26	10.78	0	89.48
MW13		04/05/06	17	7 - 17	100.26	12.37	0	87.89
MW13		08/03/06	17	7 - 17	100.26	14.3	0	85.96
MW13		10/24/06	17	7 - 17	100.26	10.68	0	89.58
MW13		04/24/07	17	7 - 17	100.26	13.12	0	87.14
MW13		06/17/08	17	7 - 17	100.26	15.86	0	84.4
MW13		12/04/08	17	7 - 17	100.26	12.96	0	87.3
MW13		06/26/09	17	7 - 17	100.26	14.37	0	85.89
MW13		06/23/10	17	7 - 17	100.26	14.58	0	85.68
MW13		11/18/13	17	7 - 17	100.26	NA	0	NA

TABLE 1
MONITORING WELL CONSTRUCTION DETAILS AND GROUNDWATER LEVEL DATA
WETSIG YACHTS FACILITY
CLARK PROJECT NO. 08102

WELL ID	DATE INSTALLED	DATE WATER LEVEL MEASURED	TOTAL DEPTH	SCREENED INTERVAL	TOP OF CASING ELEVATION	DEPTH TO WATER FROM TOP OF CASING	FREE PRODUCT THICKNESS	POTENTIOMETRIC HEAD ELEVATION
DMW1	05/19/04	05/24/04	32	22 - 32	97.25	7.50	0	89.75
DMW1		08/04/04	32	22 - 32	97.25	6.21	0	91.04
DMW1		02/09/05	32	22 - 32	97.25	8.12	0	89.13
DMW1		01/06/06	32	22 - 32	97.25	5.41	0	91.84
DMW1		04/05/06	32	22 - 32	97.25	7.15	0	90.10
DMW1		08/03/06	32	22 - 32	97.25	8.49	0	88.76
DMW1		10/24/06	32	22 - 32	97.25	5.38	0	91.87
DMW1		04/24/07	32	22 - 32	97.25	7.81	0	89.44
DMW1		06/17/08	32	22 - 32	97.25	9.57	0	87.68
DMW1		12/04/08	32	22 - 32	97.25	7.29	0	89.96
DMW1		06/26/09	32	22 - 32	97.25	8.91	0	88.34
DMW1		06/23/10	32	22 - 32	97.25	8.21	0	89.04
DMW1		11/18/13	32	22 - 32	97.25	8.55	0	88.70
DMW2	05/19/04	05/24/04	43.5	33.5 - 43.5	93.85	4.97	0	88.88
DMW2		08/04/04	43.5	33.5 - 43.5	93.85	4.53	0	89.32
DMW2		02/09/05	43.5	33.5 - 43.5	93.85	5.45	0	88.40
DMW2		01/06/06	43.5	33.5 - 43.5	93.85	2.60	0	91.25
DMW2		04/05/06	43.5	33.5 - 43.5	93.85	4.42	0	89.43
DMW2		08/03/06	43.5	33.5 - 43.5	93.85	6.08	0	87.77
DMW2		10/24/06	43.5	33.5 - 43.5	93.85	2.82	0	91.03
DMW2		04/24/07	43.5	33.5 - 43.5	93.85	5.12	0	88.73
DMW2		06/17/08	43.5	33.5 - 43.5	93.85	7.08	0	86.77
DMW2		12/04/08	43.5	33.5 - 43.5	93.85	4.74	0	89.11
DMW2		06/26/09	43.5	33.5 - 43.5	93.85	5.64	0	88.21
DMW2		06/23/10	43.5	33.5 - 43.5	93.85	5.65	0	88.20
DMW2		11/18/13	43.5	33.5 - 43.5	93.85	NA	0	NA

Notes:

1. All elevations are based on an arbitrary assumed benchmark elevation of 100.00'
2. Depths are in feet below ground surface as measured from the top of casing
3. All units are in feet unless otherwise indicated

TABLE 2
SUMMARY OF GROUNDWATER SAMPLING RESULTS
WETSIG YACHTS FACILITY
CLARK PROJECT NO. 08102

		CONTAMINANTS OF CONCERN																
ANALYTICAL METHOD		6210D/602								610	6010B							7470
CONTAMINANT OF CONCERN ->																		
WELL ID	DATE COLLECTED	BENZENE	TOLUENE	ETHYLBENZENE	XYLENES	MTBE	DIPE	NAPHTHALENE	TRICHLOROFLUOROMETHANE	NAPHTHALENE	ARSENIC	BARIUM	CADMIUM	CHROMIUM	LEAD	SELENIUM	SILVER	MERCURY
15A NCAC 2L STANDARD		1	1,000	29	530	200	70	21	2,100	21	50.0	2,000	5	50	15	50	18	1.1
2010 15A NCAC 2L STANDARD		1	600	600	500	20	70	6	2,000	6	10.0	700	2	10	15	20	20	1
MW1-unf	10/02/02	<1	<1	<1	<3	69	<1	<1	<1	<10	11.1	<100	<10	<10	<10	<10	<10	<0.3
MW1-unf	11/01/02	NT	NT	NT	NT	NT	NT	NT	NT	NT	<10.0	NT	NT	NT	NT	NT	NT	NT
MW1-f	11/01/02	NT	NT	NT	NT	NT	NT	NT	NT	NT	<10.0	NT	NT	NT	NT	NT	NT	NT
MW1-unf	04/30/03	<1	<1	<1	<4	7.8	<1	NT	NT	<10	NT	NT	NT	NT	<5	NT	NT	NT
MW2-unf	10/02/02	<0.5	<0.5	<0.5	<1.5	<0.5	<0.5	<0.5	0.5	NT	13.4	<100	<10	<10	<10	<10	<10	<0.3
MW2-unf	11/01/02	NT	NT	NT	NT	NT	NT	NT	NT	NT	<10.0	NT	NT	NT	NT	NT	NT	NT
MW2-f	11/01/02	NT	NT	NT	NT	NT	NT	NT	NT	NT	<10.0	NT	NT	NT	NT	NT	NT	NT
MW2-unf	02/09/05	NT	NT	NT	NT	NT	NT	NT	NT	NT	<10.0	NT	NT	NT	NT	NT	NT	NT
MW2-f	02/09/05	NT	NT	NT	NT	NT	NT	NT	NT	NT	<10.0	NT	NT	NT	NT	NT	NT	NT
MW3-unf	10/02/02	<0.5	<0.5	<0.5	<1.5	<0.5	<0.5	<0.5	<0.5	NT	**78.6**	<100	<10	14.5	<10	<10	<10	<0.3
MW3-unf	11/01/02	NT	NT	NT	NT	NT	NT	NT	NT	NT	34.4	NT	NT	NT	NT	NT	NT	NT
MW3-f	11/01/02	NT	NT	NT	NT	NT	NT	NT	NT	NT	37.9	NT	NT	NT	NT	NT	NT	NT
MW3-f	04/30/03	NT	NT	NT	NT	NT	NT	NT	NT	NT	34.4	NT	NT	NT	NT	NT	NT	NT
MW3-unf	02/09/05	NT	NT	NT	NT	NT	NT	NT	NT	NT	42.8	NT	NT	NT	NT	NT	NT	NT
MW3-f	02/09/05	NT	NT	NT	NT	NT	NT	NT	NT	NT	41.2	NT	NT	NT	NT	NT	NT	NT
MW3-unf	01/06/06	NT	NT	NT	NT	NT	NT	NT	NT	NT	44.3	NT	NT	NT	NT	NT	NT	NT
MW3-f	01/06/06	NT	NT	NT	NT	NT	NT	NT	NT	NT	41.6	NT	NT	NT	NT	NT	NT	NT
MW3-unf	04/05/06	NT	NT	NT	NT	NT	NT	NT	NT	NT	**51.3**	NT	NT	NT	NT	NT	NT	NT
MW3-f	04/05/06	NT	NT	NT	NT	NT	NT	NT	NT	NT	21.8	NT	NT	NT	NT	NT	NT	NT
MW3-unf	08/03/06	NT	NT	NT	NT	NT	NT	NT	NT	NT	26.7	NT	NT	NT	NT	NT	NT	NT
MW3-f	08/03/06	NT	NT	NT	NT	NT	NT	NT	NT	NT	25.3	NT	NT	NT	NT	NT	NT	NT
MW3-unf	10/24/06	NT	NT	NT	NT	NT	NT	NT	NT	NT	**55.4**	NT	NT	NT	NT	NT	NT	NT
MW3-f	10/24/06	NT	NT	NT	NT	NT	NT	NT	NT	NT	**54.6**	NT	NT	NT	NT	NT	NT	NT
MW3-unf	04/24/07	NT	NT	NT	NT	NT	NT	NT	NT	NT	30.4	NT	NT	NT	NT	NT	NT	NT
MW3-f	04/24/07	NT	NT	NT	NT	NT	NT	NT	NT	NT	35.7	NT	NT	NT	NT	NT	NT	NT
MW3-unf	06/17/08	NT	NT	NT	NT	NT	NT	NT	NT	NT	15.6	NT	NT	NT	NT	NT	NT	NT
MW3-f	06/17/08	NT	NT	NT	NT	NT	NT	NT	NT	NT	16.4	NT	NT	NT	NT	NT	NT	NT
MW3-unf	12/04/08	NT	NT	NT	NT	NT	NT	NT	NT	NT	<20.0	NT	NT	NT	NT	NT	NT	NT
MW3-f	12/04/08	NT	NT	NT	NT	NT	NT	NT	NT	NT	<20.0	NT	NT	NT	NT	NT	NT	NT
MW3-unf	06/26/09	NT	NT	NT	NT	NT	NT	NT	NT	NT	11.0	NT	NT	NT	NT	NT	NT	NT
MW3-f	06/26/09	NT	NT	NT	NT	NT	NT	NT	NT	NT	12.0	NT	NT	NT	NT	NT	NT	NT
MW3-unf	06/23/10	NT	NT	NT	NT	NT	NT	NT	NT	NT	**15.7**	NT	NT	NT	NT	NT	NT	NT
MW3-f	06/23/10	NT	NT	NT	NT	NT	NT	NT	NT	NT	**17.3**	NT	NT	NT	NT	NT	NT	NT
MW3-unf	11/18/13	NT	NT	NT	NT	NT	NT	NT	NT	NT	**52.0**	NT	NT	NT	NT	NT	NT	NT
MW3-f	11/18/13	NT	NT	NT	NT	NT	NT	NT	NT	NT	**54.0**	NT	NT	NT	NT	NT	NT	NT
MW4-unf	10/02/02	<0.5	<0.5	<0.5	<1.5	2	<0.5	<0.5	<0.5	<10	<10.0	<100	<10	<10	<10	<10	<10	<0.3
MW5-unf	10/02/02	<0.5	<0.5	<0.5	<1.5	<0.5	<0.5	<0.5	<0.5	NT	<10.0	<100	<10	<10	<10	<10	<10	<0.3
MW6-unf	08/14/03	NT	NT	NT	NT	NT	NT	NT	NT	NT	**50.2**	NT	NT	NT	NT	NT	NT	NT

THE CLARK GROUP

TABLE 2
SUMMARY OF GROUNDWATER SAMPLING RESULTS
WETSIG YACHTS FACILITY
CLARK PROJECT NO. 08102

CONTAMINANTS OF CONCERN																	
ANALYTICAL METHOD		6210D/602								610	6010B						7470
CONTAMINANT OF CONCERN ->																	
WELL ID	DATE COLLECTED	BENZENE	TOLUENE	ETHYLBENZENE	XYLENES	MTBE	DIPE	NAPHTHALENE	TRICHLOROFLUOROMETHANE	NAPHTHALENE	ARSENIC	BARIUM	CADMIUM	CHROMIUM	LEAD	SELENIUM	SILVER	MERCURY
15A NCAC 2L STANDARD		1	1,000	29	530	200	70	21	2,100	21	50.0	2,000	5	50	15	50	18	1.1
2010 15A NCAC 2L STANDARD		1	600	600	500	20	70	6	2,000	6	10.0	700	2	10	15	20	20	1
MW6-f	08/14/03	NT	NT	NT	NT	NT	NT	NT	NT	NT	45.7	NT	NT	NT	NT	NT	NT	NT
MW6-unf	02/09/05	NT	NT	NT	NT	NT	NT	NT	NT	NT	26.4	NT	NT	NT	NT	NT	NT	NT
MW6-f	02/09/05	NT	NT	NT	NT	NT	NT	NT	NT	NT	28.4	NT	NT	NT	NT	NT	NT	NT
MW6-unf	01/06/06	NT	NT	NT	NT	NT	NT	NT	NT	NT	**50.0**	NT	NT	NT	NT	NT	NT	NT
MW6-f	01/06/06	NT	NT	NT	NT	NT	NT	NT	NT	NT	**54.9**	NT	NT	NT	NT	NT	NT	NT
MW6-unf	04/05/06	NT	NT	NT	NT	NT	NT	NT	NT	NT	28.6	NT	NT	NT	NT	NT	NT	NT
MW6-f	04/05/06	NT	NT	NT	NT	NT	NT	NT	NT	NT	22.0	NT	NT	NT	NT	NT	NT	NT
MW6-unf	08/03/06	NT	NT	NT	NT	NT	NT	NT	NT	NT	24.2	NT	NT	NT	NT	NT	NT	NT
MW6-f	08/03/06	NT	NT	NT	NT	NT	NT	NT	NT	NT	23.1	NT	NT	NT	NT	NT	NT	NT
MW6-unf	10/24/06	NT	NT	NT	NT	NT	NT	NT	NT	NT	**62.4**	NT	NT	NT	NT	NT	NT	NT
MW6-f	10/24/06	NT	NT	NT	NT	NT	NT	NT	NT	NT	**62.3**	NT	NT	NT	NT	NT	NT	NT
MW6-unf	04/24/07	NT	NT	NT	NT	NT	NT	NT	NT	NT	30.7	NT	NT	NT	NT	NT	NT	NT
MW6-f	04/24/07	NT	NT	NT	NT	NT	NT	NT	NT	NT	27.3	NT	NT	NT	NT	NT	NT	NT
MW6-unf	06/18/08	NT	NT	NT	NT	NT	NT	NT	NT	NT	17.0	NT	NT	NT	NT	NT	NT	NT
MW6-f	06/18/08	NT	NT	NT	NT	NT	NT	NT	NT	NT	10.3	NT	NT	NT	NT	NT	NT	NT
MW6-unf	12/04/08	NT	NT	NT	NT	NT	NT	NT	NT	NT	<20.0	NT	NT	NT	NT	NT	NT	NT
MW6-f	12/04/08	NT	NT	NT	NT	NT	NT	NT	NT	NT	28.0	NT	NT	NT	NT	NT	NT	NT
MW6-unf	06/26/09	NT	NT	NT	NT	NT	NT	NT	NT	NT	16.0	NT	NT	NT	NT	NT	NT	NT
MW6-f	06/26/09	NT	NT	NT	NT	NT	NT	NT	NT	NT	15.0	NT	NT	NT	NT	NT	NT	NT
MW6-unf	06/23/10	NT	NT	NT	NT	NT	NT	NT	NT	NT	**21.3**	NT	NT	NT	NT	NT	NT	NT
MW6-f	06/23/10	NT	NT	NT	NT	NT	NT	NT	NT	NT	**15.8**	NT	NT	NT	NT	NT	NT	NT
MW6-unf	11/18/13	NT	NT	NT	NT	NT	NT	NT	NT	NT	**31.0**	NT	NT	NT	NT	NT	NT	NT
MW6-f	11/18/13	NT	NT	NT	NT	NT	NT	NT	NT	NT	**24.0**	NT	NT	NT	NT	NT	NT	NT
MW7-unf	08/14/03	NT	NT	NT	NT	NT	NT	NT	NT	NT	**173.0**	NT	NT	NT	NT	NT	NT	NT
MW7-f	08/14/03	NT	NT	NT	NT	NT	NT	NT	NT	NT	**140.0**	NT	NT	NT	NT	NT	NT	NT
MW7-unf	02/09/05	NT	NT	NT	NT	NT	NT	NT	NT	NT	**152.0**	NT	NT	NT	NT	NT	NT	NT
MW7-f	02/09/05	NT	NT	NT	NT	NT	NT	NT	NT	NT	**155.0**	NT	NT	NT	NT	NT	NT	NT
MW7-unf	01/06/06	NT	NT	NT	NT	NT	NT	NT	NT	NT	**62.0**	NT	NT	NT	NT	NT	NT	NT
MW7-f	01/06/06	NT	NT	NT	NT	NT	NT	NT	NT	NT	**53.3**	NT	NT	NT	NT	NT	NT	NT
MW7-unf	04/05/06	NT	NT	NT	NT	NT	NT	NT	NT	NT	**197.0**	NT	NT	NT	NT	NT	NT	NT
MW7-f	04/05/06	NT	NT	NT	NT	NT	NT	NT	NT	NT	**187.0**	NT	NT	NT	NT	NT	NT	NT
MW7-unf	08/03/06	NT	NT	NT	NT	NT	NT	NT	NT	NT	**141.0**	NT	NT	NT	NT	NT	NT	NT
MW7-f	08/03/06	NT	NT	NT	NT	NT	NT	NT	NT	NT	**138.0**	NT	NT	NT	NT	NT	NT	NT
MW7-unf	10/24/06	NT	NT	NT	NT	NT	NT	NT	NT	NT	**137.0**	NT	NT	NT	NT	NT	NT	NT
MW7-f	10/24/06	NT	NT	NT	NT	NT	NT	NT	NT	NT	**136.0**	NT	NT	NT	NT	NT	NT	NT
MW7-unf	04/24/07	NT	NT	NT	NT	NT	NT	NT	NT	NT	**221.0**	NT	NT	NT	NT	NT	NT	NT
MW7-f	04/24/07	NT	NT	NT	NT	NT	NT	NT	NT	NT	**218.0**	NT	NT	NT	NT	NT	NT	NT
MW7-unf	06/17/08	NT	NT	NT	NT	NT	NT	NT	NT	NT	**226.0**	NT	NT	NT	NT	NT	NT	NT

TABLE 2
SUMMARY OF GROUNDWATER SAMPLING RESULTS
WETSIG YACHTS FACILITY
CLARK PROJECT NO. 08102

CONTAMINANTS OF CONCERN																		
ANALYTICAL METHOD		6210D/602								610	6010B							7470
CONTAMINANT OF CONCERN ->																		
WELL ID	DATE COLLECTED	BENZENE	TOLUENE	ETHYLBENZENE	XYLENES	MTBE	DIPE	NAPHTHALENE	TRICHLOROFLUOROMETHANE	NAPHTHALENE	ARSENIC	BARIUM	CADMIUM	CHROMIUM	LEAD	SELENIUM	SILVER	MERCURY
15A NCAC 2L STANDARD		1	1,000	29	530	200	70	21	2,100	21	50.0	2,000	5	50	15	50	18	1.1
2010 15A NCAC 2L STANDARD		1	600	600	500	20	70	6	2,000	6	10.0	700	2	10	15	20	20	1
MW7-f	06/17/08	NT	NT	NT	NT	NT	NT	NT	NT	NT	**163.0**	NT	NT	NT	NT	NT	NT	NT
MW7-unf	12/04/08	NT	NT	NT	NT	NT	NT	NT	NT	NT	**79.0**	NT	NT	NT	NT	NT	NT	NT
MW7-f	12/04/08	NT	NT	NT	NT	NT	NT	NT	NT	NT	**81.0**	NT	NT	NT	NT	NT	NT	NT
MW7-unf	06/26/09	NT	NT	NT	NT	NT	NT	NT	NT	NT	**63.0**	NT	NT	NT	NT	NT	NT	NT
MW7-f	06/26/09	NT	NT	NT	NT	NT	NT	NT	NT	NT	**61.0**	NT	NT	NT	NT	NT	NT	NT
MW7-unf	06/23/10	NT	NT	NT	NT	NT	NT	NT	NT	NT	**118.0**	NT	NT	NT	NT	NT	NT	NT
MW7-f	06/23/10	NT	NT	NT	NT	NT	NT	NT	NT	NT	**116.0**	NT	NT	NT	NT	NT	NT	NT
MW7-unf	11/18/13	NT	NT	NT	NT	NT	NT	NT	NT	NT	**<100**	NT	NT	NT	NT	NT	NT	NT
MW7-f	11/18/13	NT	NT	NT	NT	NT	NT	NT	NT	NT	**19.0**	NT	NT	NT	NT	NT	NT	NT
MW8-f	01/20/04	NT	NT	NT	NT	NT	NT	NT	NT	NT	<10.0	NT	NT	<10	NT	NT	NT	NT
MW8-unf	02/09/05	NT	NT	NT	NT	NT	NT	NT	NT	NT	<10.0	NT	NT	NT	NT	NT	NT	NT
MW8-f	02/09/05	NT	NT	NT	NT	NT	NT	NT	NT	NT	<10.0	NT	NT	NT	NT	NT	NT	NT
MW9-f	01/20/04	NT	NT	NT	NT	NT	NT	NT	NT	NT	<10.0	NT	NT	<10	NT	NT	NT	NT
MW9-unf	02/09/05	NT	NT	NT	NT	NT	NT	NT	NT	NT	11.4	NT	NT	NT	NT	NT	NT	NT
MW9-f	02/09/05	NT	NT	NT	NT	NT	NT	NT	NT	NT	10.1	NT	NT	NT	NT	NT	NT	NT
MW9-unf	11/18/13	NT	NT	NT	NT	NT	NT	NT	NT	NT	**29.0**	NT	NT	NT	NT	NT	NT	NT
MW9-f	11/18/13	NT	NT	NT	NT	NT	NT	NT	NT	NT	**20.0**	NT	NT	NT	NT	NT	NT	NT
MW10-f	01/20/04	NT	NT	NT	NT	NT	NT	NT	NT	NT	<10.0	NT	NT	<10	NT	NT	NT	NT
MW11-unf	04/16/04	NT	NT	NT	NT	NT	NT	NT	NT	NT	<10.0	NT	NT	5.54	NT	NT	NT	NT
MW11-f	04/16/04	NT	NT	NT	NT	NT	NT	NT	NT	NT	<10.0	NT	NT	<10	NT	NT	NT	NT
MW11-unf	02/09/05	NT	NT	NT	NT	NT	NT	NT	NT	NT	<10.0	NT	NT	NT	NT	NT	NT	NT
MW11-f	02/09/05	NT	NT	NT	NT	NT	NT	NT	NT	NT	<10.0	NT	NT	NT	NT	NT	NT	NT
MW11-unf	01/09/06	NT	NT	NT	NT	NT	NT	NT	NT	NT	<10.0	NT	NT	NT	NT	NT	NT	NT
MW11-f	01/09/06	NT	NT	NT	NT	NT	NT	NT	NT	NT	<10.0	NT	NT	NT	NT	NT	NT	NT
MW11-unf	04/05/06	NT	NT	NT	NT	NT	NT	NT	NT	NT	<10.0	NT	NT	NT	NT	NT	NT	NT
MW11-f	04/05/06	NT	NT	NT	NT	NT	NT	NT	NT	NT	<10.0	NT	NT	NT	NT	NT	NT	NT
MW11-unf	08/03/06	NT	NT	NT	NT	NT	NT	NT	NT	NT	<10.0	NT	NT	NT	NT	NT	NT	NT
MW11-f	08/03/06	NT	NT	NT	NT	NT	NT	NT	NT	NT	<10.0	NT	NT	NT	NT	NT	NT	NT
MW11-unf	10/24/06	NT	NT	NT	NT	NT	NT	NT	NT	NT	<10.0	NT	NT	NT	NT	NT	NT	NT
MW11-f	10/24/06	NT	NT	NT	NT	NT	NT	NT	NT	NT	<10.0	NT	NT	NT	NT	NT	NT	NT
MW11-unf	04/24/07	NT	NT	NT	NT	NT	NT	NT	NT	NT	<10.0	NT	NT	NT	NT	NT	NT	NT
MW11-f	04/24/07	NT	NT	NT	NT	NT	NT	NT	NT	NT	<10.0	NT	NT	NT	NT	NT	NT	NT
MW11-unf	06/18/08	NT	NT	NT	NT	NT	NT	NT	NT	NT	<10.0	NT	NT	NT	NT	NT	NT	NT
MW11-f	06/18/08	NT	NT	NT	NT	NT	NT	NT	NT	NT	<10.0	NT	NT	NT	NT	NT	NT	NT
MW11-unf	12/04/08	NT	NT	NT	NT	NT	NT	NT	NT	NT	<20.0	NT	NT	NT	NT	NT	NT	NT
MW11-f	12/04/08	NT	NT	NT	NT	NT	NT	NT	NT	NT	<20.0	NT	NT	NT	NT	NT	NT	NT
MW11-unf	06/26/09	NT	NT	NT	NT	NT	NT	NT	NT	NT	3.0	NT	NT	NT	NT	NT	NT	NT
MW11-f	06/26/09	NT	NT	NT	NT	NT	NT	NT	NT	NT	2.0	NT	NT	NT	NT	NT	NT	NT

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TABLE 2
SUMMARY OF GROUNDWATER SAMPLING RESULTS
WETSIG YACHTS FACILITY
CLARK PROJECT NO. 08102

CONTAMINANTS OF CONCERN																		
ANALYTICAL METHOD		6210D/602								610	6010B							7470
CONTAMINANT OF CONCERN ->																		
WELL ID	DATE COLLECTED	BENZENE	TOLUENE	ETHYLBENZENE	XYLENES	MTBE	DIPE	NAPHTHALENE	TRICHLOROFLUOROMETHANE	NAPHTHALENE	ARSENIC	BARIUM	CADMIUM	CHROMIUM	LEAD	SELENIUM	SILVER	MERCURY
15A NCAC 2L STANDARD		1	1,000	29	530	200	70	21	2,100	21	50.0	2,000	5	50	15	50	18	1.1
2010 15A NCAC 2L STANDARD		1	600	600	500	20	70	6	2,000	6	10.0	700	2	10	15	20	20	1
MW11-unf	06/23/10	NT	NT	NT	NT	NT	NT	NT	NT	NT	<5.0	NT	NT	NT	NT	NT	NT	NT
MW11-f	06/23/10	NT	NT	NT	NT	NT	NT	NT	NT	NT	<5.0	NT	NT	NT	NT	NT	NT	NT
MW11-unf	11/18/13	NT	NT	NT	NT	NT	NT	NT	NT	NT	NA	NT	NT	NT	NT	NT	NT	NT
MW11-f	11/18/13	NT	NT	NT	NT	NT	NT	NT	NT	NT	NA	NT	NT	NT	NT	NT	NT	NT
MW12-unf	04/16/04	NT	NT	NT	NT	NT	NT	NT	NT	NT	<10.0	NT	NT	1.96	NT	NT	NT	NT
MW12-f	04/16/04	NT	NT	NT	NT	NT	NT	NT	NT	NT	<10.0	NT	NT	<10	NT	NT	NT	NT
MW12-unf	02/09/05	NT	NT	NT	NT	NT	NT	NT	NT	NT	<10.0	NT	NT	NT	NT	NT	NT	NT
MW12-f	02/09/05	NT	NT	NT	NT	NT	NT	NT	NT	NT	<10.0	NT	NT	NT	NT	NT	NT	NT
MW12-unf	01/06/06	NT	NT	NT	NT	NT	NT	NT	NT	NT	<10.0	NT	NT	NT	NT	NT	NT	NT
MW12-f	01/06/06	NT	NT	NT	NT	NT	NT	NT	NT	NT	<10.0	NT	NT	NT	NT	NT	NT	NT
MW12-unf	04/05/06	NT	NT	NT	NT	NT	NT	NT	NT	NT	<10.0	NT	NT	NT	NT	NT	NT	NT
MW12-f	04/05/06	NT	NT	NT	NT	NT	NT	NT	NT	NT	<10.0	NT	NT	NT	NT	NT	NT	NT
MW12-unf	08/03/06	NT	NT	NT	NT	NT	NT	NT	NT	NT	<10.0	NT	NT	NT	NT	NT	NT	NT
MW12-f	08/03/06	NT	NT	NT	NT	NT	NT	NT	NT	NT	<10.0	NT	NT	NT	NT	NT	NT	NT
MW12-unf	10/24/06	NT	NT	NT	NT	NT	NT	NT	NT	NT	<10.0	NT	NT	NT	NT	NT	NT	NT
MW12-f	10/24/06	NT	NT	NT	NT	NT	NT	NT	NT	NT	<10.0	NT	NT	NT	NT	NT	NT	NT
MW12-unf	04/24/07	NT	NT	NT	NT	NT	NT	NT	NT	NT	<10.0	NT	NT	NT	NT	NT	NT	NT
MW12-f	04/24/07	NT	NT	NT	NT	NT	NT	NT	NT	NT	<10.0	NT	NT	NT	NT	NT	NT	NT
MW12-unf	06/18/08	NT	NT	NT	NT	NT	NT	NT	NT	NT	<10.0	NT	NT	NT	NT	NT	NT	NT
MW12-f	06/18/08	NT	NT	NT	NT	NT	NT	NT	NT	NT	<10.0	NT	NT	NT	NT	NT	NT	NT
MW12-unf	12/04/08	NT	NT	NT	NT	NT	NT	NT	NT	NT	<20.0	NT	NT	NT	NT	NT	NT	NT
MW12-f	12/04/08	NT	NT	NT	NT	NT	NT	NT	NT	NT	<20.0	NT	NT	NT	NT	NT	NT	NT
MW12-unf	06/26/09	NT	NT	NT	NT	NT	NT	NT	NT	NT	<2	NT	NT	NT	NT	NT	NT	NT
MW12-f	06/26/09	NT	NT	NT	NT	NT	NT	NT	NT	NT	<2	NT	NT	NT	NT	NT	NT	NT
MW13-unf	01/06/06	NT	NT	NT	NT	NT	NT	NT	NT	NT	<10.0	NT	NT	<10	NT	NT	NT	NT
MW13-f	01/06/06	NT	NT	NT	NT	NT	NT	NT	NT	NT	<10.0	NT	NT	<10	NT	NT	NT	NT
MW13-unf	04/05/06	NT	NT	NT	NT	NT	NT	NT	NT	NT	20.8	NT	NT	<10	NT	NT	NT	NT
MW13-f	04/05/06	NT	NT	NT	NT	NT	NT	NT	NT	NT	<10.0	NT	NT	<10	NT	NT	NT	NT
MW13-unf	08/03/06	NT	NT	NT	NT	NT	NT	NT	NT	NT	<10.0	NT	NT	NT	NT	NT	NT	NT
MW13-f	08/03/06	NT	NT	NT	NT	NT	NT	NT	NT	NT	<10.0	NT	NT	NT	NT	NT	NT	NT
MW13-unf	10/24/06	NT	NT	NT	NT	NT	NT	NT	NT	NT	<10.0	NT	NT	NT	NT	NT	NT	NT
MW13-f	10/24/06	NT	NT	NT	NT	NT	NT	NT	NT	NT	<10.0	NT	NT	NT	NT	NT	NT	NT
MW13-unf	04/24/07	NT	NT	NT	NT	NT	NT	NT	NT	NT	<10.0	NT	NT	NT	NT	NT	NT	NT
MW13-f	04/24/07	NT	NT	NT	NT	NT	NT	NT	NT	NT	<10.0	NT	NT	NT	NT	NT	NT	NT
MW13-unf	06/18/08	NT	NT	NT	NT	NT	NT	NT	NT	NT	<10.0	NT	NT	NT	NT	NT	NT	NT
MW13-f	06/18/08	NT	NT	NT	NT	NT	NT	NT	NT	NT	<10.0	NT	NT	NT	NT	NT	NT	NT
MW13-unf	12/04/08	NT	NT	NT	NT	NT	NT	NT	NT	NT	<20.0	NT	NT	NT	NT	NT	NT	NT
MW13-f	12/04/08	NT	NT	NT	NT	NT	NT	NT	NT	NT	<20.0	NT	NT	NT	NT	NT	NT	NT

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TABLE 2
SUMMARY OF GROUNDWATER SAMPLING RESULTS
WETSIG YACHTS FACILITY
CLARK PROJECT NO. 08102

		CONTAMINANTS OF CONCERN																
ANALYTICAL METHOD		6210D/602								610	6010B							7470
CONTAMINANT OF CONCERN ->																		
WELL ID	DATE COLLECTED	BENZENE	TOLUENE	ETHYLBENZENE	XYLENES	MTBE	DIPE	NAPHTHALENE	TRICHLOROFLUOROMETHANE	NAPHTHALENE	ARSENIC	BARIUM	CADMIUM	CHROMIUM	LEAD	SELENIUM	SILVER	MERCURY
15A NCAC 2L STANDARD		1	1,000	29	530	200	70	21	2,100	21	50.0	2,000	5	50	15	50	18	1.1
2010 15A NCAC 2L STANDARD		1	600	600	500	20	70	6	2,000	6	10.0	700	2	10	15	20	20	1
MW13-unf	06/26/09	NT	NT	NT	NT	NT	NT	NT	NT	NT	<2	NT	NT	NT	NT	NT	NT	NT
MW13-f	06/26/09	NT	NT	NT	NT	NT	NT	NT	NT	NT	<2	NT	NT	NT	NT	NT	NT	NT
DMW1-unf	05/24/04	NT	NT	NT	NT	NT	NT	NT	NT	NT	<10.0	NT	NT	<10	NT	NT	NT	NT
DMW1-f	05/24/04	NT	NT	NT	NT	NT	NT	NT	NT	NT	<10.0	NT	NT	<10	NT	NT	NT	NT
DMW1-unf	02/09/05	NT	NT	NT	NT	NT	NT	NT	NT	NT	<10.0	NT	NT	NT	NT	NT	NT	NT
DMW1-f	02/09/05	NT	NT	NT	NT	NT	NT	NT	NT	NT	<10.0	NT	NT	NT	NT	NT	NT	NT
DMW1-unf	01/06/06	NT	NT	NT	NT	NT	NT	NT	NT	NT	<10.0	NT	NT	NT	NT	NT	NT	NT
DMW1-f	01/06/06	NT	NT	NT	NT	NT	NT	NT	NT	NT	<10.0	NT	NT	NT	NT	NT	NT	NT
DMW1-unf	04/05/06	NT	NT	NT	NT	NT	NT	NT	NT	NT	<10.0	NT	NT	NT	NT	NT	NT	NT
DMW1-f	04/05/06	NT	NT	NT	NT	NT	NT	NT	NT	NT	<10.0	NT	NT	NT	NT	NT	NT	NT
DMW1-unf	08/03/06	NT	NT	NT	NT	NT	NT	NT	NT	NT	<10.0	NT	NT	NT	NT	NT	NT	NT
DMW1-f	08/03/06	NT	NT	NT	NT	NT	NT	NT	NT	NT	<10.0	NT	NT	NT	NT	NT	NT	NT
DMW1-unf	10/24/06	NT	NT	NT	NT	NT	NT	NT	NT	NT	<10.0	NT	NT	NT	NT	NT	NT	NT
DMW1-f	10/24/06	NT	NT	NT	NT	NT	NT	NT	NT	NT	<10.0	NT	NT	NT	NT	NT	NT	NT
DMW1-unf	04/24/07	NT	NT	NT	NT	NT	NT	NT	NT	NT	<10.0	NT	NT	NT	NT	NT	NT	NT
DMW1-f	04/24/07	NT	NT	NT	NT	NT	NT	NT	NT	NT	11.8	NT	NT	NT	NT	NT	NT	NT
DMW1-unf	06/17/08	NT	NT	NT	NT	NT	NT	NT	NT	NT	<10.0	NT	NT	NT	NT	NT	NT	NT
DMW1-f	06/17/08	NT	NT	NT	NT	NT	NT	NT	NT	NT	<10.0	NT	NT	NT	NT	NT	NT	NT
DMW1-unf	12/04/08	NT	NT	NT	NT	NT	NT	NT	NT	NT	8.0	NT	NT	NT	NT	NT	NT	NT
DMW1-f	12/04/08	NT	NT	NT	NT	NT	NT	NT	NT	NT	14.0	NT	NT	NT	NT	NT	NT	NT
DMW1-unf	06/26/09	NT	NT	NT	NT	NT	NT	NT	NT	NT	5.0	NT	NT	NT	NT	NT	NT	NT
DMW-f	06/26/09	NT	NT	NT	NT	NT	NT	NT	NT	NT	4.0	NT	NT	NT	NT	NT	NT	NT
DMW1-unf	06/23/10	NT	NT	NT	NT	NT	NT	NT	NT	NT	5.0	NT	NT	NT	NT	NT	NT	NT
DMW-f	06/23/10	NT	NT	NT	NT	NT	NT	NT	NT	NT	<5.0	NT	NT	NT	NT	NT	NT	NT
DMW1-unf	11/18/13	NT	NT	NT	NT	NT	NT	NT	NT	NT	<10	NT	NT	NT	NT	NT	NT	NT
DMW-f	11/18/13	NT	NT	NT	NT	NT	NT	NT	NT	NT	<10	NT	NT	NT	NT	NT	NT	NT
DMW2-unf	05/24/04	NT	NT	NT	NT	NT	NT	NT	NT	NT	<10.0	NT	NT	<10	NT	NT	NT	NT
DMW2-f	05/24/04	NT	NT	NT	NT	NT	NT	NT	NT	NT	<10.0	NT	NT	<10	NT	NT	NT	NT
DMW2-unf	01/06/06	NT	NT	NT	NT	NT	NT	NT	NT	NT	<10.0	NT	NT	<10	NT	NT	NT	NT
DMW2-f	01/06/06	NT	NT	NT	NT	NT	NT	NT	NT	NT	<10.0	NT	NT	<10	NT	NT	NT	NT
DMW2-unf	04/05/06	NT	NT	NT	NT	NT	NT	NT	NT	NT	<10.0	NT	NT	NT	NT	NT	NT	NT
DMW2-f	04/05/06	NT	NT	NT	NT	NT	NT	NT	NT	NT	<10.0	NT	NT	NT	NT	NT	NT	NT
DMW2-unf	08/03/06	NT	NT	NT	NT	NT	NT	NT	NT	NT	<10.0	NT	NT	NT	NT	NT	NT	NT
DMW2-f	08/03/06	NT	NT	NT	NT	NT	NT	NT	NT	NT	<10.0	NT	NT	NT	NT	NT	NT	NT
DMW2-unf	10/24/06	NT	NT	NT	NT	NT	NT	NT	NT	NT	<10.0	NT	NT	NT	NT	NT	NT	NT
DMW2-f	10/24/06	NT	NT	NT	NT	NT	NT	NT	NT	NT	<10.0	NT	NT	NT	NT	NT	NT	NT
DMW2-unf	04/24/07	NT	NT	NT	NT	NT	NT	NT	NT	NT	<10.0	NT	NT	NT	NT	NT	NT	NT
DMW2-f	04/24/07	NT	NT	NT	NT	NT	NT	NT	NT	NT	<10.0	NT	NT	NT	NT	NT	NT	NT

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TABLE 2
SUMMARY OF GROUNDWATER SAMPLING RESULTS
WETSIG YACHTS FACILITY
CLARK PROJECT NO. 08102

CONTAMINANTS OF CONCERN																		
ANALYTICAL METHOD		6210D/602								610	6010B							7470
CONTAMINANT OF CONCERN ->																		
WELL ID	DATE COLLECTED	BENZENE	TOLUENE	ETHYLBENZENE	XYLENES	MTBE	DIPE	NAPHTHALENE	TRICHLOROFLUOROMETHANE	NAPHTHALENE	ARSENIC	BARIUM	CADMIUM	CHROMIUM	LEAD	SELENIUM	SILVER	MERCURY
15A NCAC 2L STANDARD		1	1,000	29	530	200	70	21	2,100	21	50.0	2,000	5	50	15	50	18	1.1
2010 15A NCAC 2L STANDARD		1	600	600	500	20	70	6	2,000	6	10.0	700	2	10	15	20	20	1
DMW2-unf	06/18/08	NT	NT	NT	NT	NT	NT	NT	NT	NT	<10.0	NT	NT	NT	NT	NT	NT	NT
DMW2-f	06/18/08	NT	NT	NT	NT	NT	NT	NT	NT	NT	<10.0	NT	NT	NT	NT	NT	NT	NT
DMW2-unf	12/04/08	NT	NT	NT	NT	NT	NT	NT	NT	NT	<20.0	NT	NT	NT	NT	NT	NT	NT
DMW2-f	12/04/08	NT	NT	NT	NT	NT	NT	NT	NT	NT	<20.0	NT	NT	NT	NT	NT	NT	NT
DMW2-unf	06/26/09	NT	NT	NT	NT	NT	NT	NT	NT	NT	<2	NT	NT	NT	NT	NT	NT	NT
DMW2-f	06/26/09	NT	NT	NT	NT	NT	NT	NT	NT	NT	<2	NT	NT	NT	NT	NT	NT	NT

Notes:
1. Results reported in micrograms per liter (µg/L) unless otherwise noted
2. Unf/f represents unfiltered (TOTAL) and filtered samples
3. 15A NCAC 2L standards includes interim groundwater standards
4. Bold represents an exceedance of 15A NCAC 2L standard
5. < represents below laboratory detection limit
6. NT represents not tested/not analyzed
7. MTBE represents methyl tertiary butyl ether
8. DIPE represents diisopropyl ether

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TABLE 3
SUMMARY OF SELECTED GROUNDWATER LABORATORY PARAMETERS
WETSIG YACHTS FACILITY
CLARK PROJECT NO. 08102

WELL NO.	SAMPLE DATE	NITRATE	SULFATE	TOTAL IRON	FERROUS IRON	FERRIC IRON	TOTAL ORGANIC CARBON	ALKALINITY	pH (SU)
MW1	10/02/02	2.72	NT	NT	NT	NT	NT	NT	NT
MW2	10/02/02	6.18	NT	NT	NT	NT	NT	NT	NT
MW2	02/09/05	NT	242	0.210	<0.200	0.210	6.9	132	NT
MW3	10/02/02	0.73	NT	NT	NT	NT	NT	NT	NT
MW3	02/09/05	NT	67	0.106	<0.200	<0.200	6.0	28	NT
MW4	10/02/02	1.70	NT	NT	NT	NT	NT	NT	NT
MW5	10/02/02	0.22	NT	NT	NT	NT	NT	NT	NT
MW6	02/09/05	NT	48	0.635	<0.200	0.635	3.9	22	NT
MW7	02/09/05	NT	187	0.226	<0.200	0.226	8.0	36	NT
MW8-f	01/20/04	NT	NT	NT	NT	NT	NT	NT	6.27
MW8	02/09/05	NT	32	0.138	<0.200	<0.200	5.1	152	NT
MW9-f	01/20/04	NT	NT	NT	NT	NT	NT	NT	4.23
MW9	02/09/05	NT	230	0.259	<0.200	0.259	6.4	36	NT
MW10-f	01/20/04	NT	NT	NT	NT	NT	NT	NT	5.46
MW11	02/09/05	NT	32	2.60	<0.200	2.60	6.7	<2.0	NT
MW12	02/09/05	NT	30	0.397	<0.200	0.397	4.7	<2.0	NT
DMW1	02/09/05	NT	30	0.734	<0.200	0.734	3.2	4	NT

Notes:
1. Units are milligrams per liter (mg/L) unless otherwise stated
2. SU represents standard units
3. NT represents not tested/not analyzed

TABLE 4
SUMMARY OF SELECTED GROUNDWATER FIELD PARAMETERS
WETSIG YACHTS FACILITY
CLARK PROJECT NO. 08102

WELL NO.	SAMPLE DATE	REDOX POTENTIAL (mV)	pH (Std. Units)	DISSOLVED OXYGEN (mg/L)	TEMPERATURE (°C) (F)	CONDUCTIVITY (µmhos)	TURBIDITY (0-4)	TOTAL IRON (ppm)	SALINITY (‰)
MW1	10/02/02	NA	8.2	1.97	24.3	308	NA	NA	NA
MW1	04/16/04	152	NA	1.01	17.0	215	1	1	0.2
MW2	10/02/02	NA	7.4	1.06	23.9	283	NA	NA	NA
MW2	04/16/04	147	NA	0.91	16.7	313	0	0	0.2
MW2	02/09/05	175	6.1	3.58	17.0	600	NA	NA	NA
MW3	10/02/02	NA	8.2	1.26	25.2	343	NA	NA	NA
MW3	04/16/04	122	5.1	1.18	18.8	186	0	2	0.2
MW3	02/09/05	154	5.6	4.78	17.1	250	NA	NA	NA
MW3	01/06/06	NA	NA	NA	NA	NA	NA	NA	NA
MW3	04/05/06	NA	NA	NA	NA	NA	NA	NA	NA
MW3	08/03/06	78	6.0	1.81	27.3	200	NA	NA	NA
MW3	10/24/06	155	5.6	0.26	20.0	340	NA	NA	NA
MW3	04/24/07	201	5.4	1.15	19.0	222	NA	NA	NA
MW3	06/17/08	176	5.7	1.28	22.7	215	NA	NA	NA
MW3	12/04/08	78	5.4	1.03	20.1	240	NA	NA	NA
MW3	06/26/09	206	5.2	1.86	76.4	240	NA	NA	NA
MW3	06/23/10	51	6.0	0.25	27.2	220	NA	NA	NA
MW3	11/18/13	46	6.4	0.26	22.3	331	NA	NA	NA
MW4	10/02/02	NA	9.1	2.07	24.5	252	NA	NA	NA
MW4	04/16/04	202	NA	2.35	16.9	191	0	10	0.3
MW5	10/02/02	NA	9.5	3.13	24.0	161	NA	NA	NA
MW5	04/16/04	212	NA	2.98	17.1	152	0	8	0.2
MW6	08/14/03	NA	5.8	4.31	30.0	840	NA	NA	NA
MW6	04/16/04	152	4.7	1.35	18.0	178	0	4	0.2
MW6	02/09/05	175	5.1	6.16	17.7	210	NA	NA	NA
MW6	01/06/06	NA	NA	NA	NA	NA	NA	NA	NA
MW6	04/05/06	NA	NA	NA	NA	NA	NA	NA	NA
MW6	08/03/06	141	6.3	2.29	33.3	200	NA	NA	NA
MW6	10/24/06	183	5.6	0.10	20.0	290	NA	NA	NA
MW6	04/24/07	226	5.5	1.31	20.3	183	NA	NA	NA
MW6	06/17/08	158	5.8	1.72	21.2	343	NA	NA	NA
MW6	12/04/08	176	5.8	1.47	18.6	305	NA	NA	NA
MW6	06/26/09	205	5.1	2.28	76.3	250	NA	NA	NA
MW6	06/23/10	56	6.1	1.65	25.4	175	NA	NA	NA
MW6	11/18/13	47	6.4	0.31	22.5	354	NA	NA	NA
MW7	08/14/03	NA	6.0	6.08	25.5	800	NA	NA	NA
MW7	04/16/04	121	5.3	1.20	19.9	580	3	4	0.5
MW7	02/09/05	162	5.3	5.67	18.0	432	NA	NA	NA
MW7	01/06/06	NA	NA	NA	NA	NA	NA	NA	NA
MW7	04/05/06	NA	NA	NA	NA	NA	NA	NA	NA
MW7	08/03/06	122	5.9	1.85	30.0	290	NA	NA	NA
MW7	10/24/06	257	4.9	0.07	19.1	345	NA	NA	NA
MW7	04/24/07	245	5.5	1.51	22.6	310	NA	NA	NA
MW7	06/17/08	30	5.5	0.97	29.3	420	NA	NA	NA
MW7	12/04/08	116	6.0	0.71	20.3	280	NA	NA	NA

TABLE 4
SUMMARY OF SELECTED GROUNDWATER FIELD PARAMETERS
WETSIG YACHTS FACILITY
CLARK PROJECT NO. 08102

WELL NO.	SAMPLE DATE	REDOX POTENTIAL (mV)	pH (Std. Units)	DISSOLVED OXYGEN (mg/L)	TEMPERATURE (°C) (F)	CONDUCTIVITY (µmhos)	TURBIDITY (0-4)	TOTAL IRON (ppm)	SALINITY (‰)
MW7	06/26/09	211	5.2	1.75	78.2	700	NA	NA	NA
MW7	06/23/10	207	5.9	2.17	23.0	415	NA	NA	NA
MW7	11/18/13	-24	7.2	0.20	22.8	277	NA	NA	NA
MW8	04/16/04	96	6.5	4.03	17.9	265	0	>10	0.4
MW8	02/09/05	128	6.9	7.02	16.5	283	NA	NA	NA
MW9	04/16/04	183	4.5	3.17	17.8	247	0	6	0.2
MW9	02/09/05	159	5.4	4.05	16.8	280	NA	NA	NA
MW9	11/18/13	49	6.3	0.24	21.3	377	NA	NA	NA
MW10	04/16/04	168	5.1	2.42	17.8	131	0	6	0.2
MW11	04/16/04	147	3.9	2.25	18.2	222	1	10	0.1
MW11	02/09/05	246	4.3	6.00	15.2	100	NA	NA	NA
MW11	01/06/06	NA	NA	NA	NA	NA	NA	NA	NA
MW11	04/05/06	NA	NA	NA	NA	NA	NA	NA	NA
MW11	08/03/06	162	4.9	2.10	24.3	150	NA	NA	NA
MW11	10/24/06	138	5.0	0.10	17.3	120	NA	NA	NA
MW11	04/24/07	248	4.4	1.48	20.3	165	NA	NA	NA
MW11	06/17/08	175	5.0	1.28	20.6	130	NA	NA	NA
MW11	12/04/08	202	6.2	1.09	17.3	320	NA	NA	NA
MW11	06/26/09	208	5.2	2.65	76.8	160	NA	NA	NA
MW11	06/23/10	194	5.5	1.27	26.1	230	NA	NA	NA
MW11	11/18/13	WELL NOT FOUND / WOODS HAVE BEEN CLEARED							
MW12	04/16/04	177	3.8	2.40	17.9	330	1	10	0.3
MW12	02/09/05	209	4.6	7.07	15.4	205	NA	NA	NA
MW12	01/06/06	NA	NA	NA	NA	NA	NA	NA	NA
MW12	04/05/06	NA	NA	NA	NA	NA	NA	NA	NA
MW12	08/03/06	176	4.3	1.22	22.4	100	NA	NA	NA
MW12	10/24/06	158	5.4	0.22	16.6	95	NA	NA	NA
MW12	04/24/07	227	3.9	1.51	20.3	177	NA	NA	NA
MW12	06/17/08	174	4.6	1.17	19.7	100	NA	NA	NA
MW12	12/04/08	68	6.4	1.46	16.7	100	NA	NA	NA
MW12	06/26/09	227	4.6	2.00	78.8	165	NA	NA	NA
MW13	01/06/06	NA	NA	NA	NA	NA	NA	NA	NA
MW13	04/05/06	NA	NA	NA	NA	NA	NA	NA	NA
MW13	08/03/06	190	5.2	2.26	29.2	90	NA	NA	NA
MW13	10/24/06	184	4.9	0.17	18.0	80	NA	NA	NA
MW13	04/24/07	136	4.9	3.10	21.8	47	NA	NA	NA
MW13	06/17/08	178	5.1	3.38	20.9	70	NA	NA	NA
MW13	12/04/08	142	5.4	2.89	18.1	90	NA	NA	NA
MW13	06/26/09	213	5.1	5.53	75.0	80	NA	NA	NA
DMW1	05/24/04	67	6.8	2.95	24.6	130	23.1*	3	0
DMW1	02/09/05	116	7.1	3.72	20.2	142	NA	NA	NA
DMW1	01/06/06	NA	NA	NA	NA	NA	NA	NA	NA
DMW1	04/05/06	NA	NA	NA	NA	NA	NA	NA	NA
DMW1	08/03/06	142	4.9	0.55	25.6	550	NA	NA	NA
DMW1	10/24/06	278	5.1	0.12	17.7	430	NA	NA	NA

TABLE 4
SUMMARY OF SELECTED GROUNDWATER FIELD PARAMETERS
WETSIG YACHTS FACILITY
CLARK PROJECT NO. 08102

WELL NO.	SAMPLE DATE	REDOX POTENTIAL (mV)	pH (Std. Units)	DISSOLVED OXYGEN (mg/L)	TEMPERATURE (°C) (F)	CONDUCTIVITY (µmhos)	TURBIDITY (0-4)	TOTAL IRON (ppm)	SALINITY (‰)
DMW1	04/24/07	222	4.3	1.14	18.9	567	NA	NA	NA
DMW1	06/17/08	65	4.7	0.62	25.5	720	NA	NA	NA
DWM1	12/04/08	42	4.6	0.89	16.9	400	NA	NA	NA
DMW1	06/26/09	200	5.2	1.84	73.4	360	NA	NA	NA
DMW1	06/23/10	213	5.7	2.06	22.4	170	NA	NA	NA
DMW1	11/18/13	37	6.5	0.17	21.1	461	NA	NA	NA
DMW2	05/24/04	163	5.1	2.28	25.6	320	15.7*	0.02	0
DMW2	01/06/06	67	6.8	2.95	24.6	130	23.1	3	0
DMW2	04/05/06	NA	NA	NA	NA	NA	NA	NA	NA
DMW2	08/03/06	161	5.0	0.54	23.6	210	NA	NA	NA
DMW2	10/24/06	188	5.4	0.14	17.3	145	NA	NA	NA
DMW2	04/24/07	205	4.3	2.38	22.6	190	NA	NA	NA
DMW2	06/17/08	181	5.5	1.10	20.3	152	NA	NA	NA
DMW2	12/04/08	276	4.8	0.68	17.1	180	NA	NA	NA
DMW2	06/26/09	245	5.3	2.08	72.3	130	NA	NA	NA

Notes:

1. Turbidity scale: 0-None, 1-Faint, 2-Moderate, 3-Moderately Strong, 4-Strong
2. Redox represents oxidation reduction
3. mV represents millivolts
4. ‰ represents parts per thousand
5. µmhos represents micromhos
6. mg/L represents milligrams per liter
7. ppm represents parts per million
8. °C represents degrees Celsius
9. Std. Units represents standard units
10. NA represents not available, not measured
11. * measurements taken using a turbidity meter and reported in NM turbidity units (Nuts)

FIGURES

WETSIG PROPERTY

WILMINGTON, NC.

CLARK PROJECT NO. 08102

NORTH

SCALE: 1"=2000'

THE CLARK GROUP

WILMINGTON QUADRANGLE

NORTH CAROLINA - NEW HANOVER COUNTY

7.5 MINUTE SERIES (TOPOGRAPHIC)

TOPOGRAPHIC VICINITY MAP FIGURE 1

DRAWN BY:	DATE:
F.A.V.	12/03/13

P:\08102\FIGURES\2013\DECEMBER\FIGURE1.dwg, 12/3/2013 11:51:13 AM, RICOH Aficio MP C4500 RPCS.pc3

WETSIG YACHTS FACILITY
WILMINGTON, NC
CLARK PROJECT NO. 08102

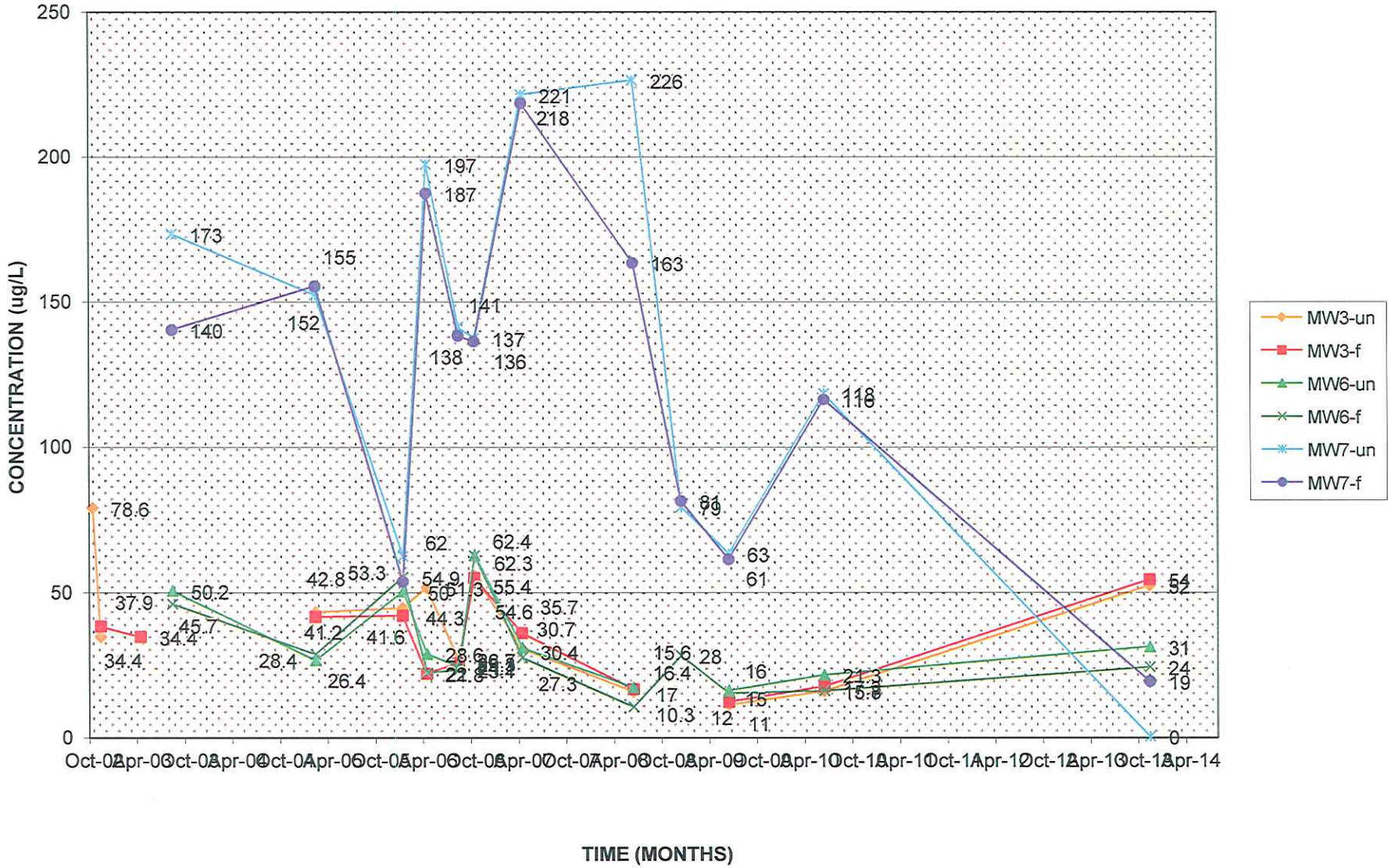

FIGURE 5: GRAPH DEPICTING ARSENIC CONCENTRATIONS IN MW3, MW6, AND MW7 VERSUS TIME

THE CLARK GROUP

WETSIG YACHTS FACILITY
WILMINGTON, NC
CLARK PROJECT NO. 08102

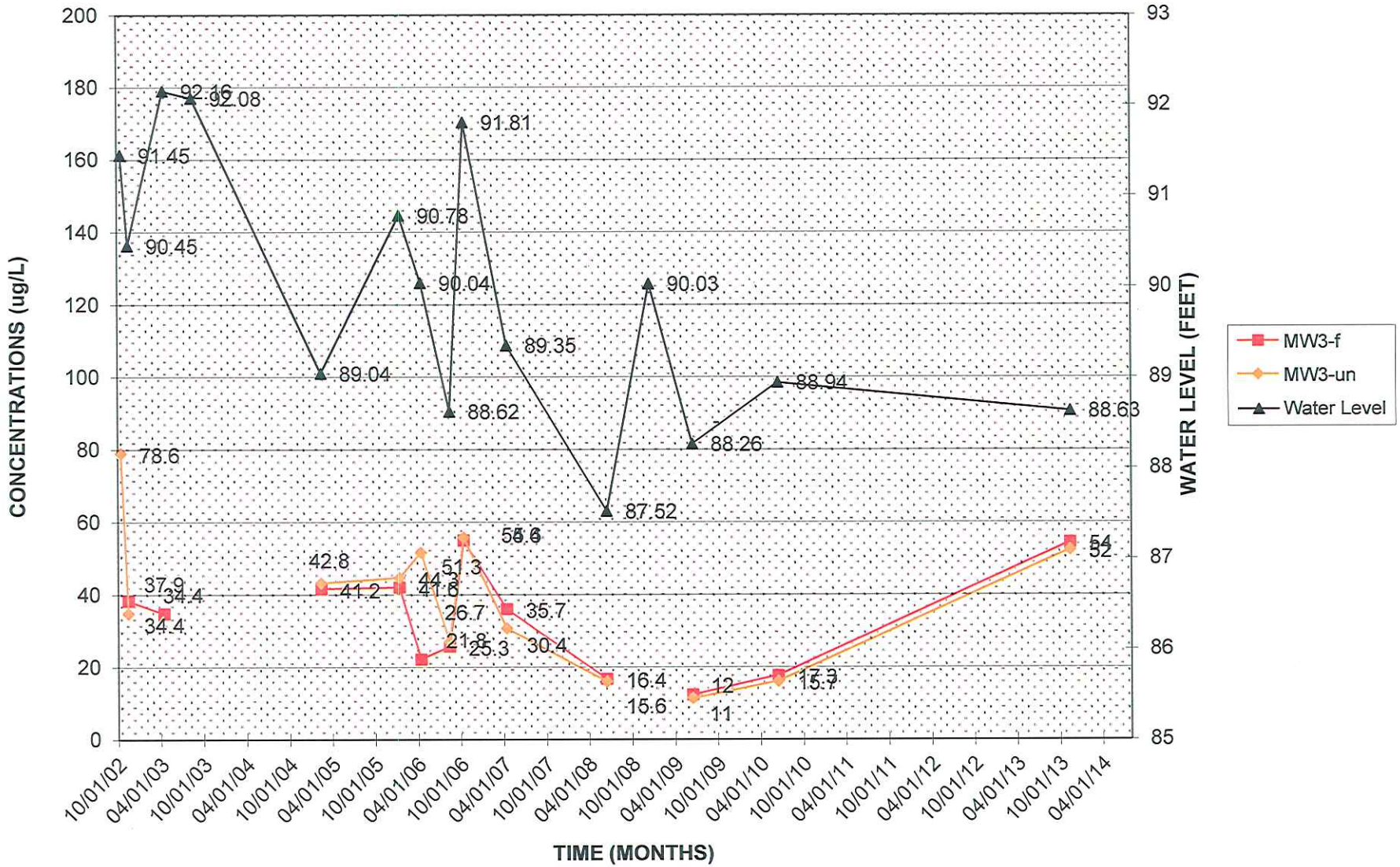

FIGURE 6: GRAPH DEPICTING ARSENIC CONCENTRATIONS AND WATER LEVEL MEASUREMENTS IN MW3 VERSUS TIME

THE CLARK GROUP

WETSIG YACHTS FACILITY
WILMINGTON, NC
CLARK PROJECT NO. 08102

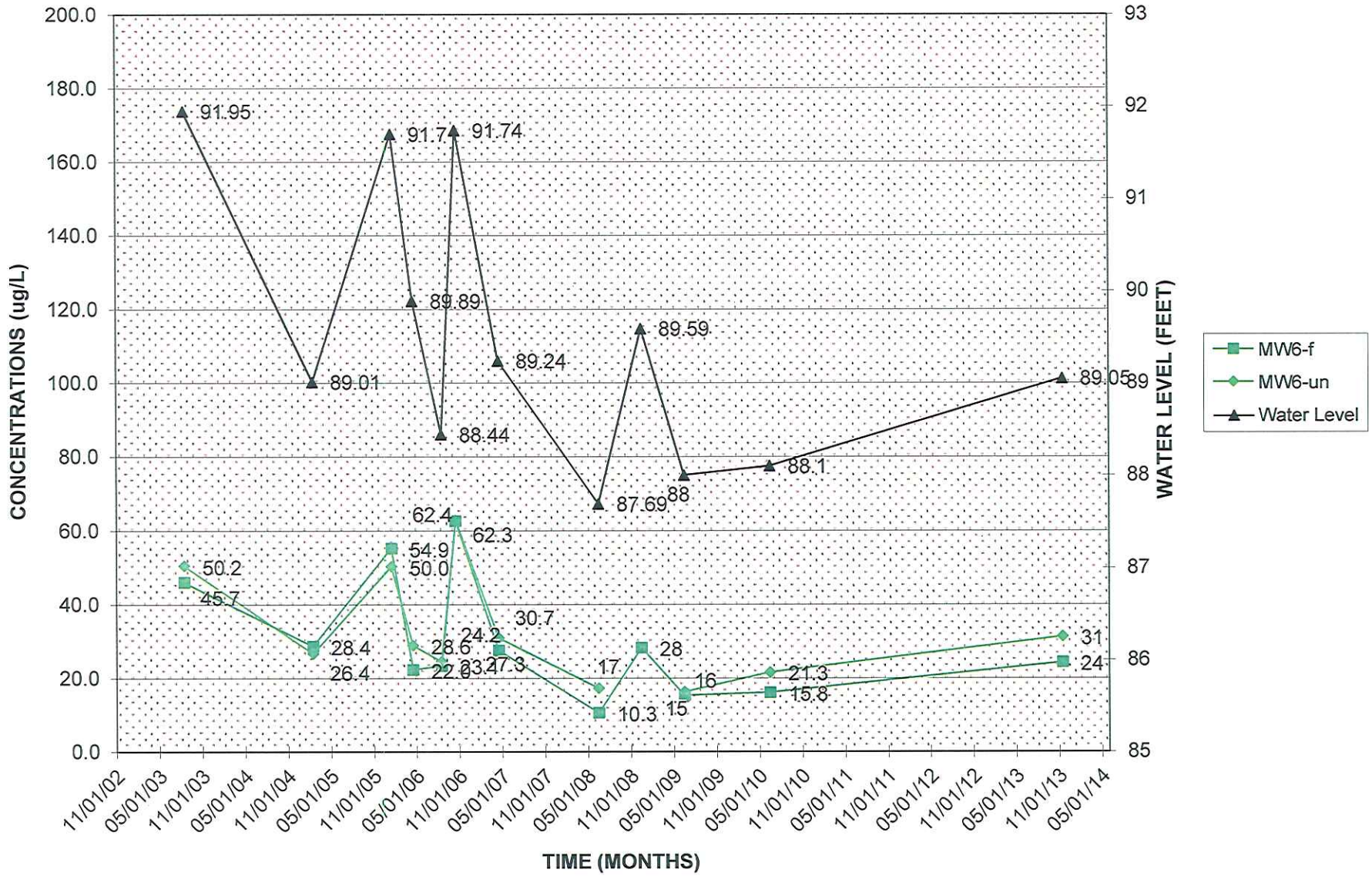

FIGURE 7: GRAPH DEPICTING ARSENIC CONCENTRATIONS AND WATER LEVEL MEASUREMENTS IN MW6 VERSUS TIME

THE CLARK GROUP

WETSIG YACHTS FACILITY
WILMINGTON, NC
CLARK PROJECT NO. 08102

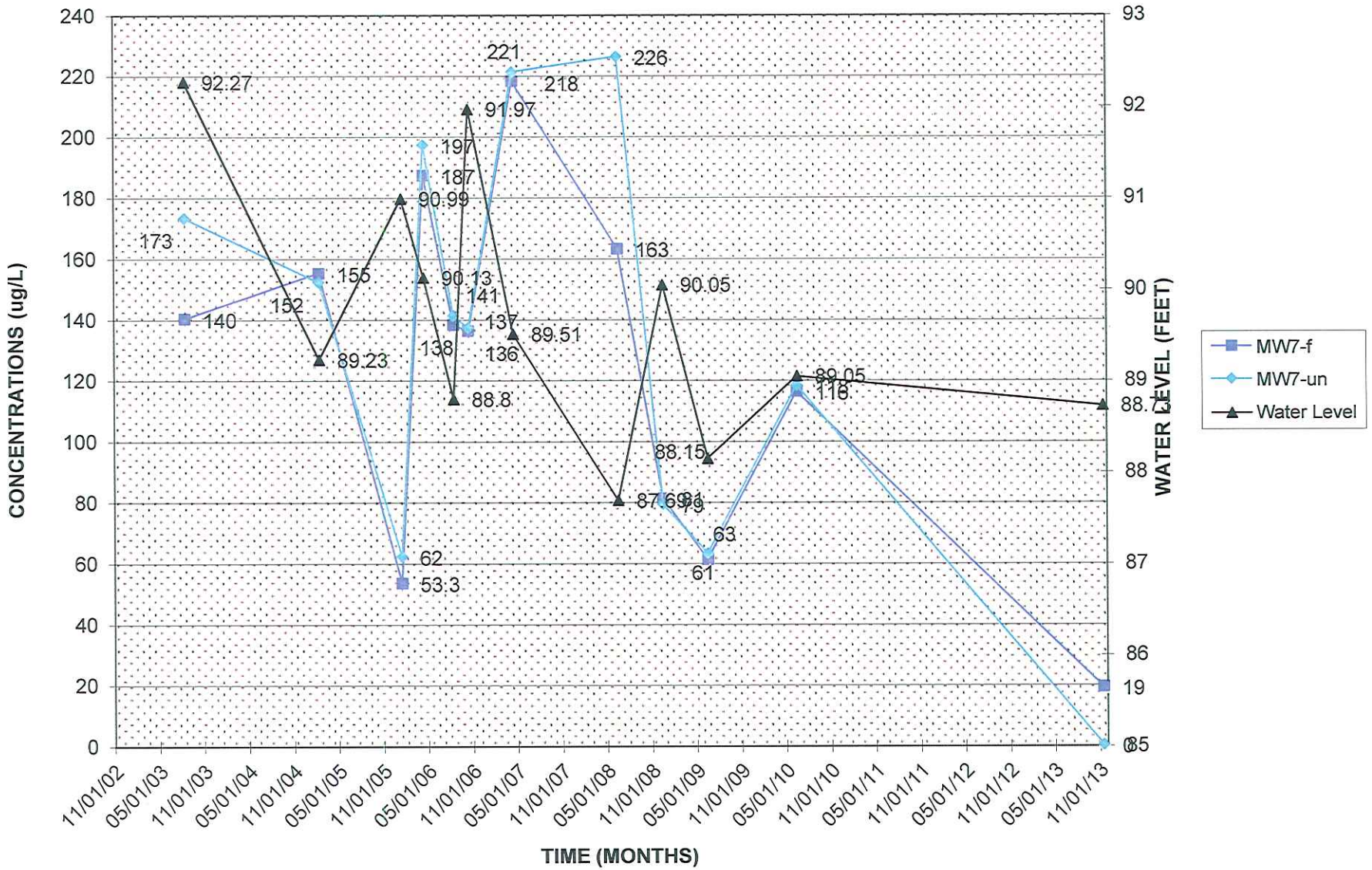

FIGURE 8: GRAPH DEPICTING ARSENIC CONCENTRATIONS AND WATER LEVEL MEASUREMENTS IN MW7 VERSUS TIME

THE CLARK GROUP

APPENDICES

APPENDIX I

SAMPLING RECORDS, LABORATORY RESULTS AND CHAIN-OF-CUSTODY FORMS

THE CLARK GROUP
GROUNDWATER WELL SAMPLING RECORD

PROJECT NAME:	Wetsig Yachts	WELL NO.:	MW3
LOCATION:	4022 Market St., Wilmington, NC	DATE:	11/18/13
CLARK PROJECT NO.:	08102	TIME:	12:40
PERSONNEL:	S. ROBINSON	WEATHER:	COOL 73

A	WELL DIAMETER (INCHES MEASURED)	2
B	GALLONS/FOOT	0.163
C	TOTAL WELL DEPTH (MEASURED FEET)	12.00
D	DEPTH TO LIQUID (MEASURED FEET)	8.09
E	TOTAL LIQUID FEET IN WELL (C-D)	3.91
F	NO. WELL VOLUMES DESIRED (SITE SPECIFIC, USUALLY 3)	3
G	TOTAL GALLONS TO PURGE (B x E x F)	1.91
H	PURGING METHOD (BAILER OR PUMP TYPE)	PUMP
I	BAILER VOLUME (MEASURED/CALCULATED)	PUMP
J	NO. BAILS REQUIRED (G ÷ I,IF BAILED)	PUMP
K	NO. BAILS TAKEN (COUNTED)	PUMP
L	GALLONS PURGED (MEASURED/CALCULATED)(PUMPED)	PUMP

PARAMETER	READING
pH	6
SALINITY (‰)	NA
IRON (mg/L)	NA
TURBIDITY (Ntu)	2
SPECIFIC CONDUCTIVITY (mS)	220
WATER TEMPERATURE (°F)(C)	27.2
DISSOLVED OXYGEN (mg/L)	0.25
REDOX POTENTIAL (mV)	51

PER FOOT WELL VOLUMES	
WELL DIAMETER (IN INCHES)	GALLONS (PER FOOT)
1.00	0.041
1.25	0.064
1.50	0.092
2.00	0.163
4.00	0.653
6.00	1.469
8.00	2.611
10.00	4.080

COMMENTS: None

THE CLARK GROUP
GROUNDWATER WELL SAMPLING RECORD

PROJECT NAME:	Wetsig Yachts	WELL NO.:	MW6
LOCATION:	4022 Market St., Wilmington, NC	DATE:	11/18/13
CLARK PROJECT NO.:	08102	TIME:	1:20
PERSONNEL:	S. ROBINSON	WEATHER:	COOL 73

A	WELL DIAMETER (INCHES MEASURED)	2
B	GALLONS/FOOT	0.163
C	TOTAL WELL DEPTH (MEASURED FEET)	11.50
D	DEPTH TO LIQUID (MEASURED FEET)	8.98
E	TOTAL LIQUID FEET IN WELL (C-D)	2.52
F	NO. WELL VOLUMES DESIRED (SITE SPECIFIC, USUALLY 3)	3
G	TOTAL GALLONS TO PURGE (B x E x F)	1.23
H	PURGING METHOD (BAILER OR PUMP TYPE)	PUMP
I	BAILER VOLUME (MEASURED/CALCULATED)	PUMP
J	NO. BAILS REQUIRED (G ÷ I,IF BAILED)	PUMP
K	NO. BAILS TAKEN (COUNTED)	PUMP
L	GALLONS PURGED (MEASURED/CALCULATED) (PUMPED)	PUMP

PARAMETER	READING
pH	6.1
SALINITY (‰)	NA
IRON (mg/L)	NA
TURBIDITY (Ntu)	2
SPECIFIC CONDUCTIVITY (mS)	175
WATER TEMPERATURE (°F)	25.4
DISSOLVED OXYGEN (mg/L)	1.65
REDOX POTENTIAL (mV)	56

PER FOOT WELL VOLUMES	
WELL DIAMETER (IN INCHES)	GALLONS (PER FOOT)
1.00	0.041
1.25	0.064
1.50	0.092
2.00	0.163
4.00	0.653
6.00	1.469
8.00	2.611
10.00	4.080

COMMENTS: None

THE CLARK GROUP
GROUNDWATER WELL SAMPLING RECORD

PROJECT NAME:	Wetsig Yachts	WELL NO.:	MW7
LOCATION:	4022 Market St., Wilmington, NC	DATE:	11/18/13
CLARK PROJECT NO.:	08102	TIME:	11:40
PERSONNEL:	S. ROBINSON	WEATHER:	COOL 73

A	WELL DIAMETER (INCHES MEASURED)	2
B	GALLONS/FOOT	0.163
C	TOTAL WELL DEPTH (MEASURED FEET)	11.50
D	DEPTH TO LIQUID (MEASURED FEET)	7.95
E	TOTAL LIQUID FEET IN WELL (C-D)	3.55
F	NO. WELL VOLUMES DESIRED (SITE SPECIFIC, USUALLY 3)	3
G	TOTAL GALLONS TO PURGE (B x E x F)	1.74
H	PURGING METHOD (BAILER OR PUMP TYPE)	PUMP
I	BAILER VOLUME (MEASURED/CALCULATED)	PUMP
J	NO. BAILS REQUIRED (G ÷ I,IF BAILED)	PUMP
K	NO. BAILS TAKEN (COUNTED)	PUMP
L	GALLONS PURGED (MEASURED/CALCULATED) (PUMPED)	PUMP

PARAMETER	READING
pH	5.9
SALINITY (‰)	NA
IRON (mg/L)	NA
TURBIDITY (Ntu)	2
SPECIFIC CONDUCTIVITY (mS)	415
WATER TEMPERATURE (°F)	23
DISSOLVED OXYGEN (mg/L)	2.17
REDOX POTENTIAL (mV)	207

PER FOOT WELL VOLUMES	
WELL DIAMETER (IN INCHES)	GALLONS (PER FOOT)
1.00	0.041
1.25	0.064
1.50	0.092
2.00	0.163
4.00	0.653
6.00	1.469
8.00	2.611
10.00	4.080

COMMENTS: None

THE CLARK GROUP
GROUNDWATER WELL SAMPLING RECORD

PROJECT NAME:	Wetsig Yachts	WELL NO.:	MW9
LOCATION:	4022 Market St., Wilmington, NC	DATE:	11/18/13
CLARK PROJECT NO.:	08102	TIME:	2:00
PERSONNEL:	S. ROBINSON	WEATHER:	COOL 73

A	WELL DIAMETER (INCHES MEASURED)	2
B	GALLONS/FOOT	0.163
C	TOTAL WELL DEPTH (MEASURED FEET)	11.50
D	DEPTH TO LIQUID (MEASURED FEET)	6.98
E	TOTAL LIQUID FEET IN WELL (C-D)	4.52
F	NO. WELL VOLUMES DESIRED (SITE SPECIFIC, USUALLY 3)	3
G	TOTAL GALLONS TO PURGE (B x E x F)	2.21
H	PURGING METHOD (BAILER OR PUMP TYPE)	PUMP
I	BAILER VOLUME (MEASURED/CALCULATED)	PUMP
J	NO. BAILS REQUIRED (G ÷ I,IF BAILED)	PUMP
K	NO. BAILS TAKEN (COUNTED)	PUMP
L	GALLONS PURGED (MEASURED/CALCULATED) (PUMPED)	PUMP

PARAMETER	READING
pH	5.5
SALINITY (‰)	NA
IRON (mg/L)	NA
TURBIDITY (Ntu)	1
SPECIFIC CONDUCTIVITY (mS)	230
WATER TEMPERATURE (°F)	26.1
DISSOLVED OXYGEN (mg/L)	1.27
REDOX POTENTIAL (mV)	194

PER FOOT WELL VOLUMES	
WELL DIAMETER (IN INCHES)	GALLONS (PER FOOT)
1.00	0.041
1.25	0.064
1.50	0.092
2.00	0.163
4.00	0.653
6.00	1.469
8.00	2.611
10.00	4.080

COMMENTS: None

THE CLARK GROUP
GROUNDWATER WELL SAMPLING RECORD

PROJECT NAME:	Wetsig Yachts	WELL NO.:	DMW1
LOCATION:	4022 Market St., Wilmington, NC	DATE:	11/18/13
CLARK PROJECT NO.:	08102	TIME:	12:05
PERSONNEL:	S. ROBINSON	WEATHER:	COOL 73

A	WELL DIAMETER (INCHES MEASURED)	2
B	GALLONS/FOOT	0.163
C	TOTAL WELL DEPTH (MEASURED FEET)	32.00
D	DEPTH TO LIQUID (MEASURED FEET)	8.21
E	TOTAL LIQUID FEET IN WELL (C-D)	23.79
F	NO. WELL VOLUMES DESIRED (SITE SPECIFIC, USUALLY 3)	3
G	TOTAL GALLONS TO PURGE (B x E x F)	11.63
H	PURGING METHOD (BAILER OR PUMP TYPE)	PUMP
I	BAILER VOLUME (MEASURED/CALCULATED)	PUMP
J	NO. BAILS REQUIRED (G ÷ I,IF BAILED)	PUMP
K	NO. BAILS TAKEN (COUNTED)	PUMP
L	GALLONS PURGED (MEASURED/CALCULATED) (PUMPED)	PUMP

PARAMETER	READING
pH	5.7
SALINITY (‰)	NA
IRON (mg/L)	NA
TURBIDITY (Ntu)	1
SPECIFIC CONDUCTIVITY (mS)	170
WATER TEMPERATURE (°F)	22.4
DISSOLVED OXYGEN (mg/L)	2.06
REDOX POTENTIAL (mV)	213

PER FOOT WELL VOLUMES	
WELL DIAMETER (IN INCHES)	GALLONS (PER FOOT)
1.00	0.041
1.25	0.064
1.50	0.092
2.00	0.163
4.00	0.653
6.00	1.469
8.00	2.611

COMMENTS: None

envirochem

ANALYTICAL & CONSULTING CHEMISTS

Environmental Chemists, Inc.

6602 Windmill Way • Wilmington, NC 28405
(910) 392-0223 (Lab) • (910) 392-4424 (Fax)

710 Bowsertown Road • Manteo, NC 27954
(252) 473-5702

NCDENR: DWQ CERTIFICATE #94. DLS CERTIFICATE #37729

Clark Group
4918 Wrightsville Avenue
Wilmington NC 28403
Attention: Joanne Shadrovi

Date of Report: Nov 27, 2013
Customer PO #: 111813-067
Report #: 2013-14217
Report to: Joanne Shadrovi
Project ID: WETSIG

Lab ID	Sample ID: Unfiltered	Collect Date/Time	Matrix	Sampled by
13-34830	Site: MW-7	11/18/2013 11:40 AM	Water	Client

Test	Method	Results	Date Analyzed
Arsenic	EPA 200.7	<0.100 mg/L	11/25/2013

Reporting limits elevated due to matrix effects.

Lab ID	Sample ID: Filtered	Collect Date/Time	Matrix	Sampled by
13-34830A	Site: MW-7	11/18/2013 11:40 AM	Water	Client

Test	Method	Results	Date Analyzed
Arsenic	EPA 200.7	0.019 mg/L	11/25/2013

Lab ID	Sample ID: Unfiltered	Collect Date/Time	Matrix	Sampled by
13-34831	Site: DMW-1	11/18/2013 12:05 PM	Water	Client

Test	Method	Results	Date Analyzed
Arsenic	EPA 200.7	<0.010 mg/L	11/20/2013

Lab ID	Sample ID: Filtered	Collect Date/Time	Matrix	Sampled by
13-34831A	Site: DMW-1	11/18/2013 12:05 PM	Water	Client

Test	Method	Results	Date Analyzed
Arsenic	EPA 200.7	<0.010 mg/L	11/25/2013

Lab ID	Sample ID: Unfiltered	Collect Date/Time	Matrix	Sampled by
13-34832	Site: MW-3	11/18/2013 12:40 PM	Water	Client

Test	Method	Results	Date Analyzed
Arsenic	EPA 200.7	0.052 mg/L	11/20/2013

Lab ID	Sample ID: Filtered	Collect Date/Time	Matrix	Sampled by
13-34832A	Site: MW-3	11/18/2013 12:40 PM	Water	Client

Test	Method	Results	Date Analyzed
Arsenic	EPA 200.7	0.054 mg/L	11/25/2013

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ANALYTICAL & CONSULTING CHEMISTS

Environmental Chemists, Inc.

6602 Windmill Way • Wilmington, NC 28405
(910) 392-0223 (Lab) • (910) 392-4424 (Fax)

710 Bowsertown Road • Manteo, NC 27954
(252) 473-5702

NCDENR: DWQ CERTIFICATE #94. DLS CERTIFICATE #37729

Clark Group
4918 Wrightsville Avenue
Wilmington NC 28403
Attention: Joanne Shadrovi

Date of Report: Nov 27, 2013
Customer PO #: 111813-067
Report #: 2013-14217
Report to: Joanne Shadrovi
Project ID: WETSIG

Lab ID	Sample ID: Unfiltered	Collect Date/Time	Matrix	Sampled by
13-34833	Site: MW-6	11/18/2013 1:20 PM	Water	Client

Test	Method	Results	Date Analyzed
Arsenic	EPA 200.7	0.031 mg/L	11/20/2013

Lab ID	Sample ID: Filtered	Collect Date/Time	Matrix	Sampled by
13-34833A	Site: MW-6	11/18/2013 1:20 PM	Water	Client

Test	Method	Results	Date Analyzed
Arsenic	EPA 200.7	0.024 mg/L	11/25/2013

Lab ID	Sample ID: Unfiltered	Collect Date/Time	Matrix	Sampled by
13-34834	Site: MW-9	11/18/2013 2:00 PM	Water	Client

Test	Method	Results	Date Analyzed
Arsenic	EPA 200.7	0.029 mg/L	11/20/2013

Lab ID	Sample ID: Filtered	Collect Date/Time	Matrix	Sampled by
13-34834A	Site: MW-9	11/18/2013 2:00 PM	Water	Client

Test	Method	Results	Date Analyzed
Arsenic	EPA 200.7	0.020 mg/L	11/25/2013

Comment:
Reviewed by: Mariola Olejarz / Jim Rice

envirochem
Analytical & Consulting Chemists

ENVIRONMENTAL CHEMISTS, INC

NCDENR: DWQ CERTIFICATION # 94 NCDHHS: DLS CERTIFICATION # 37729

6602 Windmill Way Wilmington, NC 28405
OFFICE: 910-392-0223 FAX 910-392-4424
info@environmentalchemists.com

COLLECTION AND CHAIN OF CUSTODY

CLIENT: THE CLARK GROUP	PROJECT NAME: WETSIG	REPORT NO: 13-14217
ADDRESS: 4918 WRIGHTSVILLE AVE.	CONTACT NAME: JOANNE SH.	PO NO: 111813-067
WILMINGTON, N.C 28403	REPORT TO: CLARK GROUP	PHONE/FAX: 910 392 5555
	COPY TO:	email:

Sampled By:

SAMPLE TYPE: I = Influent, E = Effluent, W = Well, ST = Stream, SO = Soil, SL = Sludge, Other:

Sample Identification	Collection Date	Collection Time	Collection Temp	Sample Type	Composite or Grab	Container (P or G)	Chlorine mg/L	LAB ID NUMBER	NONE	HCL	H2SO4	HNO3	NAOH	THIO	OTHER	ANALYSIS REQUESTED
MW-7	11/18	11:40		W	C	P		34830				X				Arsenic Filtered
					G	G										Arsenic Unfiltered
MW-1	11/18	12:05		W	C	P		34831				X				
					G	G										
MW-3	11/18	12:40		W	C	P		34832				X				
					G	G										
MW-6	11/18	1:20		W	C	P		34833				X				
					G	G										
MW-9	11/18	2:00		W	C	P		34834				X				
					G	G										
					C	P										
					G	G										
					C	P										
					G	G										
					C	P										
					G	G										
					C	P										
					G	G										
					C	P										
					G	G										

Transfer	Relinquished By:	Date/Time	Received By:	Date/Time
1.	Scott Holman	11/18/13 2040		
2.				

Temperature when Received: 2-3° Accepted: Rejected: Resample Requested:

Delivered By: Received By: D. Willis Date: 11/18/13 Time: 2:30

Comments: TURNAROUND:

Attachments can contain viruses that may harm your computer. Attachments may not display correctly.
The sender of this message has requested a read receipt. Click here to send a receipt.

JoAnne Shadroui

From: Tammy Duran [tammy@environmentalchemists.com] **Sent:** Mon 12/2/2013 7:45 AM
To: JoAnne Shadroui
Cc:
Subject: Results
Attachments: CLARK GROUP-WETSIG-13-14217-11-18-13.PDF(123KB)

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NCDENR: DWQ CERTIFICATION # 94 NCDHHS: DLS CERTIFICATION # 37729

6602 Windmill Way Wilmington, NC 28405
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COLLECTION AND CHAIN OF CUSTODY

CLIENT: THE CLARK GROUP	PROJECT NAME: WETSIG	REPORT NO:
ADDRESS: 4918 WRIGHTSVILLE AVE.	CONTACT NAME: JOANNE SH.	PO NO: 111813-067
WILMINGTON, N.C 28403	REPORT TO: CLARK GROUP	PHONE/FAX: 910 392 5555
	COPY TO:	email:

Sampled By: _____

SAMPLE TYPE: I = Influent, E = Effluent, W = Well, ST = Stream, SO = Soil, SL = Sludge, Other:

Sample Identification	Collection Date	Collection Time	Temp	Sample Type	Composite or Grab	Container (P or G)	Chlorine mg/L	LAB ID NUMBER	NONE	HCL	H2SO4	HNO3	NAOH	THIO	OTHER	ANALYSIS REQUESTED
MW-7	11/18	11:40		W	C	P						X				Arsenic filtered
					G	G										Arsenic unfiltered
DMW-1	11/18	12:05		W	C	P						X				
					G	G										
MW-3	11/18	12:40		W	C	P						X				
					G	G										
MW-6	11/18	1:20		W	C	P						X				
					G	G										
MW-9	11/18	2:00		W	C	P						X				
					G	G										
					C	P										
					G	G										
					C	P										
					G	G										
					C	P										
					G	G										
					C	P										
					G	G										
					C	P										
					G	G										

Transfer	Relinquished By:	Date/Time	Received By:	Date/Time
1.	Scott Holman	11/18/13 2:40		
2.				

Temperature when Received: 2.3° Accepted: _____ Rejected: _____ Resample Requested: _____

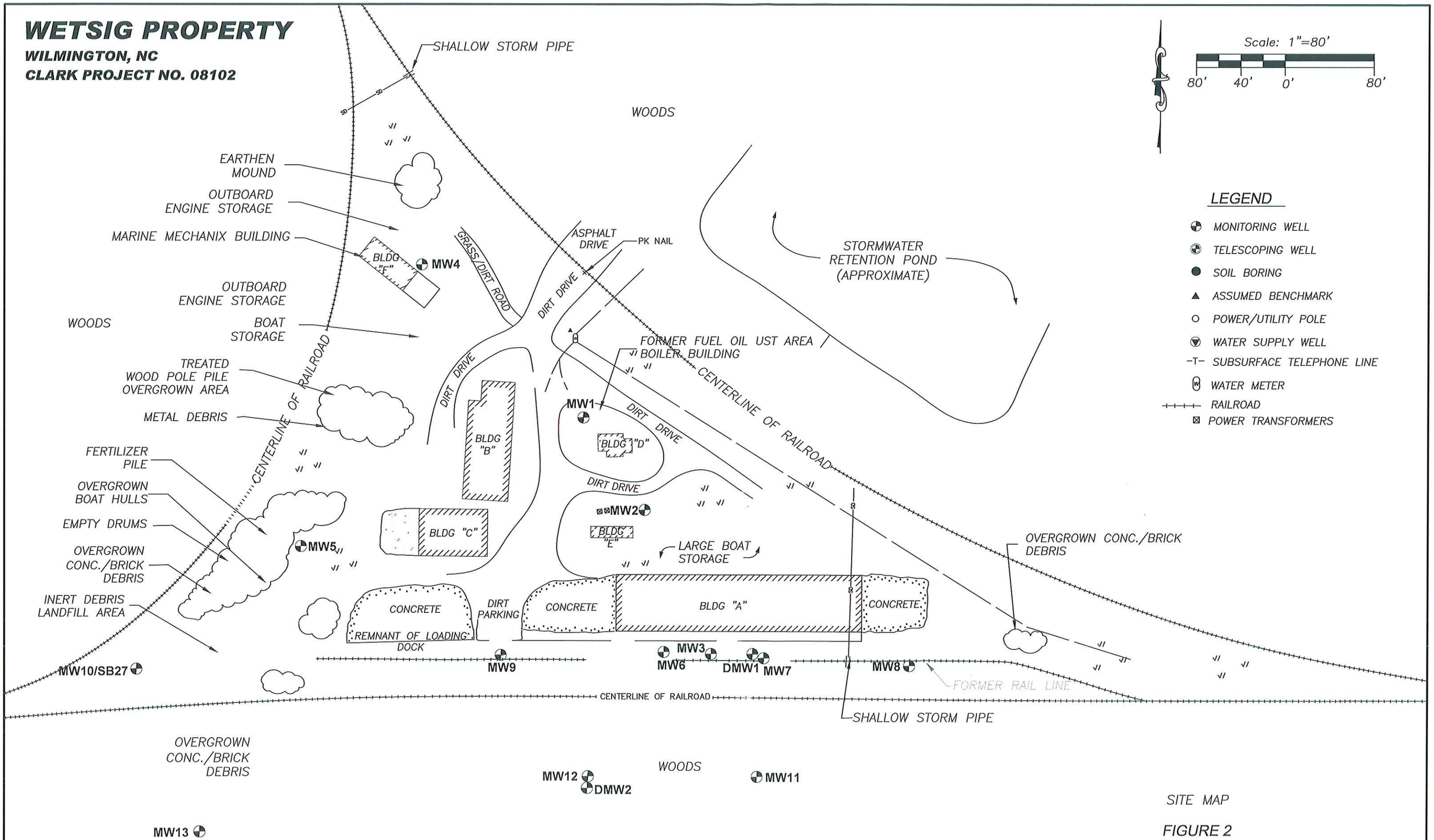
Delivered By: _____ Received By: D. Willis Date: 11/18/13 Time: 2:30

Comments: _____ TURNAROUND: _____

WETSIG PROPERTY

WILMINGTON, NC

CLARK PROJECT NO. 08102



SITE MAP

FIGURE 2

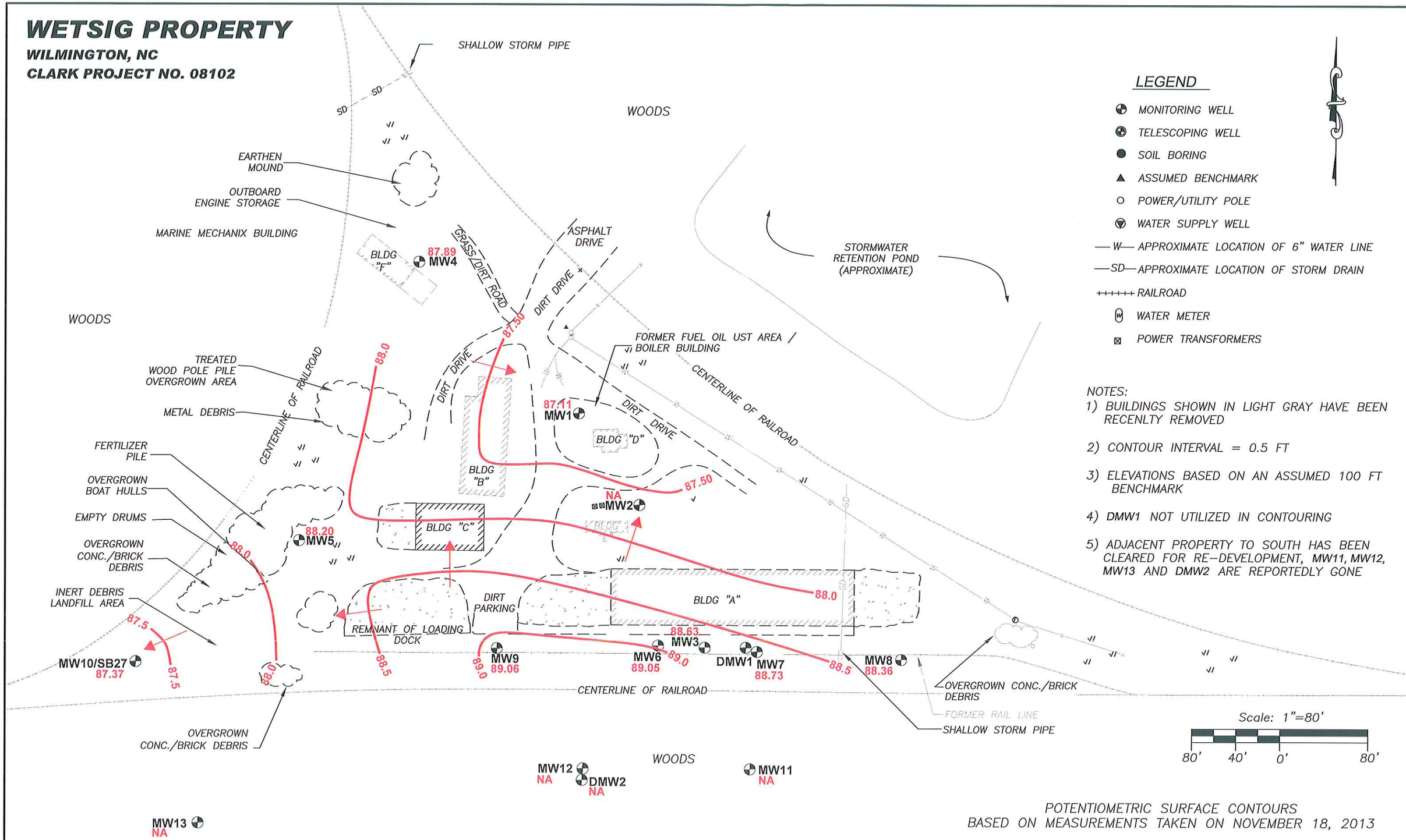
THE CLARK GROUP

P:\08102\FIGURES\2013\DECEMBER\FIGURE 2 (SITE MAP).dwg, 12/18/2013 9:26:11 AM, RICOH Aficio MP C4500 BPCS (Copy 1).pc3

WETSIG PROPERTY

WILMINGTON, NC

CLARK PROJECT NO. 08102



LEGEND

- MONITORING WELL
- TELESCOPING WELL
- SOIL BORING
- ASSUMED BENCHMARK
- POWER/UTILITY POLE
- WATER SUPPLY WELL
- —W— APPROXIMATE LOCATION OF 6" WATER LINE
- —SD— APPROXIMATE LOCATION OF STORM DRAIN
- RAILROAD
- WATER METER
- POWER TRANSFORMERS

NOTES:

1) BUILDINGS SHOWN IN LIGHT GRAY HAVE BEEN RECENLTY REMOVED

2) CONTOUR INTERVAL = 0.5 FT

3) ELEVATIONS BASED ON AN ASSUMED 100 FT BENCHMARK

4) DMW1 NOT UTILIZED IN CONTOURING

5) ADJACENT PROPERTY TO SOUTH HAS BEEN CLEARED FOR RE-DEVELOPMENT, MW11, MW12, MW13 AND DMW2 ARE REPORTEDLY GONE

POTENTIOMETRIC SURFACE CONTOURS
BASED ON MEASUREMENTS TAKEN ON NOVEMBER 18, 2013

FIGURE 3

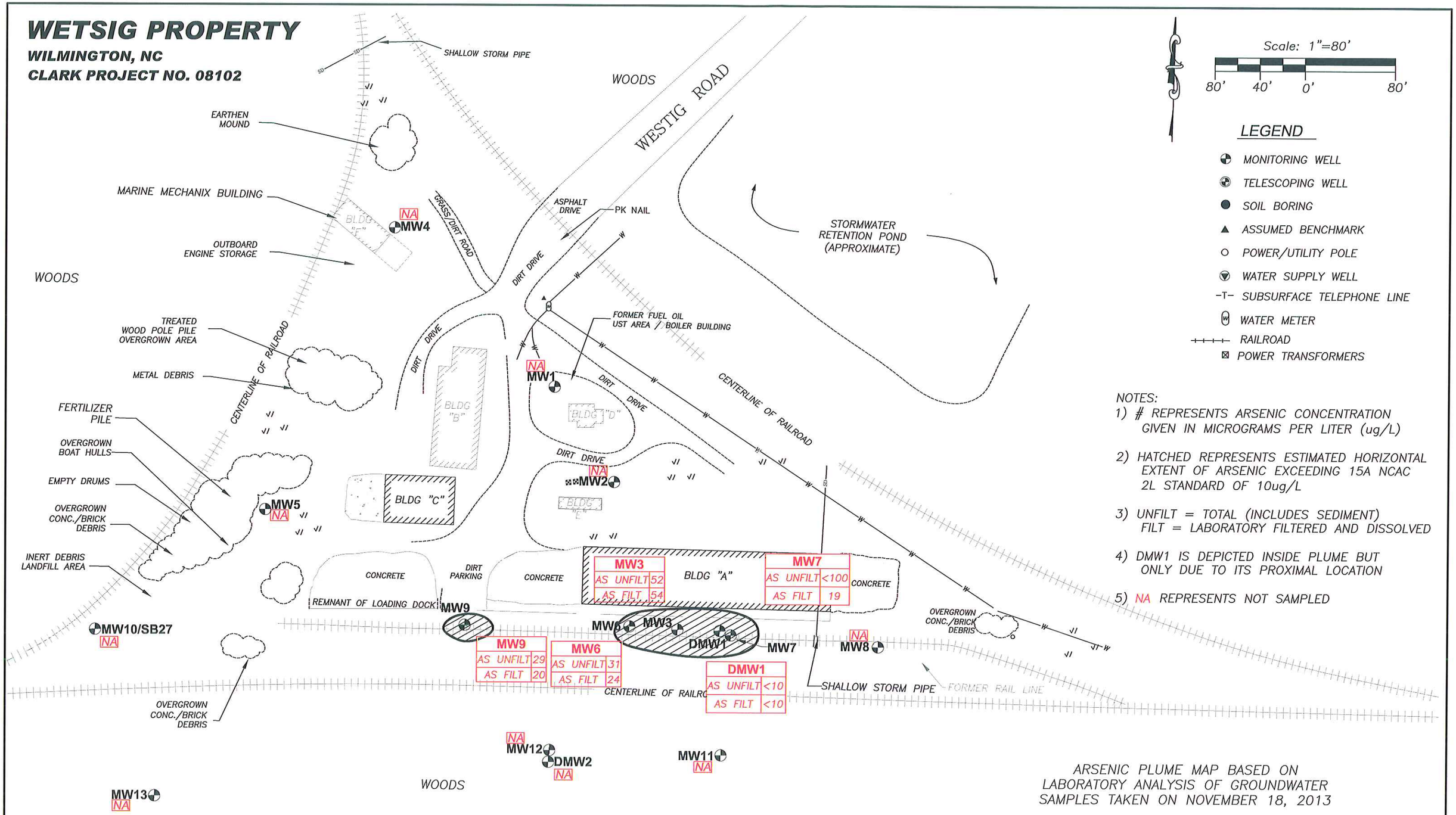
THE CLARK GROUP

P:\08102\FIGURES\2013\DECEMBER\FIGURE 3.dwg, 12/18/2013 9:27:50 AM, RICOH Aficio MP C4500 RPCS (Copy 1).pc3

WETSIG PROPERTY

WILMINGTON, NC

CLARK PROJECT NO. 08102



NOTES:

1) # REPRESENTS ARSENIC CONCENTRATION GIVEN IN MICROGRAMS PER LITER (ug/L)

2) HATCHED REPRESENTS ESTIMATED HORIZONTAL EXTENT OF ARSENIC EXCEEDING 15A NCAC 2L STANDARD OF 10ug/L

3) UNFILT = TOTAL (INCLUDES SEDIMENT)
FILT = LABORATORY FILTERED AND DISSOLVED

4) DMW1 IS DEPICTED INSIDE PLUME BUT ONLY DUE TO ITS PROXIMAL LOCATION

5) NA REPRESENTS NOT SAMPLED

ARSENIC PLUME MAP BASED ON LABORATORY ANALYSIS OF GROUNDWATER SAMPLES TAKEN ON NOVEMBER 18, 2013

FIGURE 4

THE CLARK GROUP

P:\08102\FIGURES\2013\DECEMBER\FIGURE 4.dwg, 12/18/2013 9:37:51 AM, RICOH Aficio MP C4500 RPCS (Copy 1).pc3