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GROUNDWATER MONITORING AND NAPL SEPARATION/HOT WATER GENERATION/GROUNDWATER TREATMENT SYSTEM STATUS REPORT OCTOBER 2010 – DECEMBER 2010 (QUARTERLY MONITORING EVENT)

JENNISON WRIGHT SUPERFUND SITE
900 WEST 22ND STREET
GRANITE CITY, ILLINOIS

PREPARED FOR:

Ms. Erin Rednour
Illinois Environmental Protection Agency
Bureau of Land
1021 North Grand Avenue East
Springfield, Illinois 62794-9276

LPC No. 1190400008-Madison
Jennison Wright/Granite City
Superfund/Technical

PREPARED BY:

BODINE ENVIRONMENTAL SERVICES, INC.
5350 EAST FIREHOUSE ROAD
DECATUR, ILLINOIS 62521
(Bodine Project #119386-12)

May 2012

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BODINE ENVIRONMENTAL SERVICES, INC.

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Air Monitoring
Spill Response
RCRA Closures

June 26, 2012

Ms. Erin Rednour, Project Manager
Illinois Environmental Protection Agency
Bureau of Land
1021 North Grand Avenue East
Springfield, Illinois 62794-9276

Re: Quarterly GWOU Status Report
October 2010 through December 2010
Bodine Project Number 119386

1190400008 – Madison
Jennison Wright /Granite City
Superfund/Technical

Dear Ms. Rednour:

Bodine Environmental Services, Inc. (Bodine) is pleased to provide two (2) copies of the Quarterly Groundwater Operable Unit (GWOU) Status Report for the above referenced site. This report summarizes the data and results of the GWOU operation, maintenance, sampling and analytical results for the period between October 1, 2010 and December 31, 2010.

If you have any questions, please contact the undersigned at (217)519-3955.

Respectfully submitted,

BODINE ENVIRONMENTAL SERVICES, INC.

Troy M. McFate
Senior Project Manager

Bob Bryson
Vice President of Operations

Enclosures: Quarterly GWOU Status Report – 2 Copies

Cf: Tom Campbell, Ecology & Environment Engineering, Inc., 33 West Monroe Street, Suite 550, Chicago IL 60603
Sheila A. Sullivan, M.P.H., U.S. EPA Region V, Mailcode HSRM-6J, 77 W. Jackson Blvd., Chicago, Illinois 60604-3590

(All cfs with copy of enclosure)

GROUNDWATER MONITORING
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OCTOBER 2010 – DECEMBER 2010
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1.0 INTRODUCTION

On behalf of Illinois Environmental Protection Agency (Illinois EPA), Bodine Environmental Services, Inc. (Bodine) is submitting this Groundwater Monitoring and Non-Aqueous-Phase Liquid (NAPL) Extraction/Groundwater Treatment System (hereafter referred to as Groundwater Operable Unit[GWOU]) Status Report to the Illinois EPA to document and discuss activities completed at the former Jennison Wright NPL site (hereafter the "site") during the system operation period from October 1, 2010 through December 31, 2010. This is the fourth quarter monitoring event for 2010 and represents a period of three months.

In 2009, the GWOU was installed to extract NAPL and treat impacted groundwater from the former 22nd Street Lagoon area. The USEPA determined the GWOU to be substantially completed in accordance with the remedial design plans and specifications in September 2009. The GWOU was started and due to issues with scaling of the heat exchanger the system was redesigned by Ecology and Environment Engineering, Inc. (EEEI) in December of 2009. EEEI added a feed tank and changed the piping so the groundwater from the extraction wells would be treated prior to entering the heat exchanger. The GWOU continued to experience iron and calcium carbonate scaling issues so the temperature to the injection wells was lowered to 140 degrees Fahrenheit and antiscalent chemicals were utilized to improve operating time. The GWOU was determined to be Operational and Functional by the USEPA and Illinois EPA in September of 2010.

During the operation period from October 1, 2010 to December 31, 2010, the GWOU operated 84 days. The GWOU was shut down to perform cleaning activities and install additional treatment equipment.

System operational samples are collected monthly and analyzed for 40CFR136A Method 625 semi-volatile organic compounds (SVOCs), Clean Water Method 1664 Oil and Grease (O&G), Standard Methods 2540D Total Suspended Solids (TSS), Standard Method 5210B Biochemical Oxygen Demand (BOD), and pH. In addition, samples were collected of the effluent and analyzed for parameters required by the City of Granite City Wastewater Treatment Plant (GCRWWTP) Discharge Permit. The results of the effluent sample indicated the effluent met the standards of the permit. Groundwater samples were collected from select groundwater monitoring and extraction wells from October 12-14, 2010 and analyzed for SW-846 Method 8270 SVOCs. Pentachlorophenol was analyzed utilizing SW-846 Method 8151A. Based on the analytical results, groundwater concentrations appear to be increasing within the treatment zone. In addition the PCP concentration appears to be increasing in MW-8S, which is located in the former PCP treatment area. Approximately 317 pounds (lbs) of SVOCs were removed during this monitoring period.

2.0 GWOU SYSTEM STATUS

2.1 **GWOU System Operation.** The GWOU was implemented to mobilize the NAPL plume observed within the area of the 22nd Street Lagoon so that it could be collected and disposed of off-site. The layout consists of six subsurface hot water injection points and two groundwater/NAPL extraction wells. The six injection wells were placed along the approximate NAPL plume boundary and the two extraction wells were centered within the injection well locations based on capture calculations performed by EEEI. The wells are oriented to reduce travel time between injection and extraction points in order to limit heat loss in the subsurface aquifer. The extraction wells pump contaminated groundwater and NAPL from 35 feet below ground surface (bgs) to an on-site treatment building. The main components of the hot water generation system are stored in a separate room, immediately adjacent to the groundwater treatment building. Treated groundwater is discharged via underground piping to the combined sewer system collection piping located in the alley west of the site. The sewer system ultimately discharges to the Chain of Rocks Barge Canal after being processed through the GCRWWTP. All influent groundwater has NAPL removed; a portion of this water is directed to the hot water generation system which is pumped to the six subsurface injection wells. A Site Plan Map depicting the location of the wells and site layout is presented as Figure 1.

Bodine monitored the GWOU on a weekly basis. Monitoring activities on the GWOU were completed to evaluate if the system was operating efficiently, conduct any maintenance, record required operating parameters, and collect operational samples and effluent discharge samples. Copies of the Weekly Operational Logs are attached in Appendix A. The operational samples were collected on a monthly basis. The effluent samples for the GCRWWTP are collected bi-annually and submitted to the GCRWWTP.

The GWOU operated almost continuously during this quarter. The system was down a few days for bi-weekly cleaning activities and installation of new treatment equipment. System maintenance activities this quarter consisted of the following:

- Cleaning of the heat exchanger and feed tank with a descaling acid;
- Completed construction of road adjacent to the injection and extraction wells, and installation of drainage culverts to divert storm water to the retention pond;
- Removed mechanical flow meters from extraction wells due to corrosion and causing low flow alarms;
- The inflatable packer in Injection Well #4 was losing air pressure, so the stainless steel fittings were tightened and the packer was re-inflated;
- Installed new bag filter housings before the organoclay treatment tank and the after the activated carbon treatment tank;
- Installed PVC piping from feed tank to the heat exchanger to simplify cleaning of the heat exchanger with the descaling acid;
- Plocher Construction installed walls to enclose the boiler and generator;
- Replaced the Low-Low float in the feed tank; and

- Replaced the belt in the vapor phase blower fan.

2.2 **GWOU System Performance.** Samples are collected monthly from four (4) locations throughout the GWOU. The locations are as follows: GWOUA (Influent prior to NAPL Separator) GWOUB (Influent after NAPL Separator), GWOUC (Influent after bag filters), and GWOUE (Effluent). The GWOUA sample is analyzed for SVOCs and O&G, the GWOUB sample is analyzed for O&G, TSS, and pH, the GWOUC sample is analyzed for O&G and TSS, and the GWOUE sample is analyzed for SVOCs, BOD, TSS, and pH. The laboratory analytical results from these sampling locations are reviewed to evaluate the efficiency of the GWOU. Specifically, during the fourth quarter of 2010, samples were collected on October 13, November 30, and December 14, 2010. Based on review of the analytical results, the GWOU is efficiently removing the SVOC constituents. However, the O&G analytical results indicate the NAPL separator is not efficiently removing the NAPL. The samples from November and December indicate the O&G concentrations increasing significantly after the NAPL separator. The bag filters before the organoclay and the organoclay are removing a significant amount of NAPL. The bag filters are required to be changed twice a week due to binding from NAPL and other miscellaneous solids.

The GCRWWTP requires the effluent to be sampled biannually. A sample of the effluent was collected November 4, 2010 and sent to Test America – Chicago for analysis. After review of the analytical results, the effluent contained small concentrations of several metals, but all the concentrations were well below the Wastewater Discharge Limitations listed in Part II of the GCRWWTP Industrial Pretreatment Program Remediation Discharge Permit Number IWDP-360. Effluent data for the GCRWWTP are presented on Table 1. The associated laboratory analytical reports are presented in Appendix B. The GWOU is currently performing within the GCRWWTP discharge permit requirements. In addition, the GCRWWTP requests the total volume of wastewater discharged monthly. For the fourth quarter of 2010, the GWOU discharged 977,580 gallons of treated water to the GCRWWTP.

2.3 **Contaminant Mass Removal.** Influent groundwater samples were collected prior to treatment activities (activated carbon) at the sampling port of influent (GWOUA) from extraction wells (EW01 and EW02) to determine the SVOC loading to the treatment system. The influent samples were collected on October 13, November 30, and December 14, 2010. These samples are used to determine the mass of SVOCs removed from the groundwater by the system and to estimate the treatment system efficiency (Table 2). The associated laboratory analytical reports are presented in Appendix C.

Total mass removal was calculated using the average total SVOC concentrations (9054 µg/l [Table 2]) detected in the influent (GWOUA) samples minus the average total SVOC concentrations (35 µg/l [Table 3]) in the effluent (GWOUE) and the total average flow rate (56,700 gallons per day) of the system. The average flow rate was determined by utilizing 35 gpm as the average flow rate. Therefore, the total SVOC mass removed from the site during the fourth quarter of 2010 is approximately 317 lbs. This is the initial report after the GWOU was determined Operational and Functional by the USEPA and

Illinois EPA in September of 2010, so this will be the initial SVOC mass removal calculation.

In addition, the total SVOC loading of the system and the SVOC concentration present in the effluent sample were used to determine the SVOC removal efficiency of the system. Based on the average total SVOC concentration (9054 μg/l) in the influent samples and the average effluent SVOC concentration of 35 μg/l, the system is currently removing approximately 99% of the SVOCs entering the system. Therefore, the activated carbon treatment performance is acceptable. The mass removal data is presented on Table 4. A time versus mass removal graph will be included in the next quarterly report.

3.0 GROUNDWATER MONITORING ACTIVITIES

The monitoring plan for the Remedial Action consists of sampling select monitoring wells at the site. The monitoring wells to be sampled were determined by Ecology and Environment in the Remedial Design for this site and are listed in the Operation & Maintenance Plan. There are ten (10) monitoring wells selected for quarterly monitoring and an additional twelve (12) monitoring wells selected for annual monitoring. In addition to groundwater sampling, groundwater levels were measured in monitoring wells across the site to monitor the capture zones from operating extraction wells and identify potential plume migration. The following is a discussion of the groundwater monitoring results for the fourth quarter monitoring period of 2010.

3.1 **Hydrogeology and System Influence.** Groundwater levels were measured in the monitoring well and extraction well network on October 11, 2010. The water level measurements (Table 5) were entered into Surfer 8 and a data grid was established utilizing the Kriging Method. A contour map was then developed for the monitoring well water elevations.

Based on review of the water table contour maps (Figures 2-4), shallow groundwater flow at the site is predominantly to the south, southwest and west with a western component of groundwater flow in the southern half of the site. The intermediate and deep groundwater flow shows primarily a southerly component. These groundwater flow directions are consistent with previous observations documented by EEEI.

3.2 **Groundwater Quality.** Groundwater quality results from the October 2010 sampling event were evaluated relative to historical monitoring results to determine potential contaminant trends present at the site and in the vicinity of individual extraction wells. Bodine utilized the November 2008 and September 2009 sampling results provided by EEEI to evaluate the data. A summary of the groundwater analytical results collected by EEEI are listed in Tables 6 and 7. Based on laboratory analytical results, contaminant concentrations appear to be increasing in groundwater in the monitoring wells located in the treatment zone and MW-8S. However, the analytical results of the monitoring well down gradient of the treatment system did not indicate an increase of the contaminant concentrations.

The 2,4-Dimethylphenol concentration in MW-5S decreased to 13,000 μg/l from 19,000 μg/l in November 2008 sampling event. The 2-Metylphenol concentration decreased to 2,700 μg/l from 7,300 μg/l in the previous sampling event. The Naphthalene concentration increased to 35,000 μg/l from 6,700 μg/l and the pentachlorophenol (PCP) concentration increased to 1,300 μg/l from 780 μg/l in the previous sampling event. All of the above chemicals are mentioned as Chemicals of Potential Concern (COPC) in the ROD and all the concentrations are above the proposed CUOs listed in the ROD. In addition, there are a couple of chemicals with concentrations above the Illinois EPA TACO Tier 1 groundwater objectives but do not have proposed CUOs in the ROD. The Fluorene concentration increased to 350 μg/l from 130 μg/l and the Phenol concentration decreased to 210 μg/l from 1,600 μg/l in the previous November 2008 sampling event.

These concentrations are above the Illinois EPA Tier 1 groundwater objectives. The 3&4 Methylphenol concentration decreased to 4,300 µg/l from 12,000 µg/l in the previous sampling event. There are no proposed CUOs or Illinois EPA Tier 1 groundwater objectives established for 3&4 Methylphenol. In addition, there are several other SVOCs with concentrations detected above the laboratory reporting limit in MW-5S. A summary of the groundwater analytical results are listed in Table 8. Monitoring well MW-5S is located in the former 22nd lagoon area and in the groundwater treatment zone. The sample was collected from the middle of the screen which is approximately 22 feet below ground surface (bgs).

Bodine attempted to sample MW-5D, but free product was observed flowing through the sample tubing and into the purge water container. Since free product was observed, sampling of MW-5D was not completed. The analytical data collected by EEEI from MW-5D in November 2008 indicated several SVOC concentrations above the laboratory reporting limit but below the Cleanup Objectives (CUO) listed in the Record of Decision (ROD). Monitoring well MW-5D is located in the former 22nd lagoon area and in the groundwater treatment zone.

The benzo(a)anthracene concentration (0.32 µg/l) in MW-20 is above the proposed CUO for this site. The PCP concentration decreased to 0.17 µg/l from 12 µg/l in the 2009 sampling event conducted by EEEI. In addition, there are several SVOC concentrations above the laboratory reporting limits in MW-20 but the concentrations are below the proposed CUOs and the Illinois EPA TACO Class I Groundwater Objectives. Monitoring well MW-20 is located in the groundwater treatment zone and is northwest of EW-1. The groundwater sample was collected from 35 feet below bgs.

Bodine attempted to sample MW-21, but free product was observed floating on the top of the water. The interphase probed detected 4.6 feet of LNAPL on the surface of the water. The sampling by EEEI in 2009 indicated several SVOC concentrations above the CUOs in MW-21. Monitoring well MW-21 is located in the groundwater treatment zone and is southwest of the extraction well (EW-2).

The 2,4-Dimethylphenol concentration in MW-22 increased to 9,000 µg/l from 380 µg/l in the previous 2009 sampling event. The 2-Methylphenol concentration increased to 2,000 µg/l from 190 µg/l in the previous sampling event. The naphthalene concentration increased to 17,000 µg/l from 3,400 µg/l in the previous sampling event. The PCP concentration increased to 1,200 µg/l from 310 µg/l previous sampling event. The Chrysene concentration decreased to 1.9 µg/l from 12 µg/l in the previous sampling event. The Chrysene concentration was above the Illinois EPA TACO Class I groundwater standard but below the proposed ROD CUO. The Benzo(a)anthracrene concentration decreased to below the laboratory reporting limit from 14 µg/l. The Benzo(b)fluoranthene concentration decreased to below the laboratory limit from 11 µg/l. The Benzo(k)fluoranthene concentration decreased to below the laboratory limit from 4.4 µg/l. All the above mentioned chemicals are listed as Chemicals of Potential Concern (COPC) in the ROD and all the concentrations are above the proposed CUOs listed in the

ROD. In addition, there are several chemicals with concentrations above the Illinois EPA TACO Tier 1 groundwater objectives but do not have proposed CUOs in the ROD. Benzo(a)pyrene and Indeno(1,2,3-c,d)pyrene had concentrations above Illinois EPA TACO Tier 1 groundwater objectives during the September 2009 sampling event performed by EEEI. The phenol concentration increased to 140 µg/l from 51 µg/l and was above the Illinois EPA TACO Tier 1 groundwater objective during the 2010 fourth quarter groundwater monitoring event. Monitoring well MW-22 is located in the groundwater treatment zone and is northeast of the extraction well (EW-1). The groundwater sample was collected from 35 feet bgs.

The 2,4-Dimethylphenol concentration in MW-23 increased to 3,800 µg/l from 14 µg/l in the previous sampling event. The 2-Methylphenol concentration increased to 1,600 µg/l from below the laboratory reporting limit in the previous sampling event. The Naphthalene concentration increased to 29,000 µg/l from 4,000 µg/l in the previous sampling event. The PCP concentration increased to 1,900 µg/l from 64 µg/l the previous sampling event. The Benzo(a)anthracrene concentration decreased to 2.4 µg/l from 7.0 µg/l. The Benzo(k)fluoranthene concentration decreased to 1.1 µg/l from 4.1 µg/l. The Chrysene concentration decreased to 2.3 µg/l from 5.0 µg/l in the previous sampling event. All the above mentioned chemicals are listed as COPC in the ROD and all the concentrations are above the proposed CUOs listed in the ROD. In addition, there are several chemicals with concentrations above the Illinois EPA TACO Tier 1 groundwater objectives but do not have proposed CUOs in the ROD. The Benzo(a)pyrene concentration decreased to below the laboratory reporting limit from 3.1 µg/l during the September 2009 sampling event performed by EEEI. The Acenaphthene (480 µg/l) , Fluorene (280 µg/l), and Phenol (390 µg/l) concentrations were above the Illinois EPA TACO Tier 1 groundwater objectives during the 2010 fourth quarter groundwater monitoring event. The groundwater sample was collected from 35 feet bgs.

Samples were also collected from the extraction wells. The extraction wells had not been sampled previously, so these are the first analytical results for the extraction wells. In EW-1, the Benzo(a)anthracrene concentration (1.5 µg/l), Benzo(k)fluoranthene concentration (0.6 µg/l), Naphthalene concentration (530 µg/l), and PCP concentration (3.4 µg/l) were all above the proposed CUOs listed in the ROD. The Benzo(k)fluoranthene (0.44 µg/l) concentration in EW-1 was above the Illinois EPA TACO Tier 1 groundwater objective but below the proposed CUOs. In addition, there were several SVOC concentrations above the laboratory reporting limit but below the proposed CUOs and Illinois EPA Tier 1 groundwater objectives.

The analytical results indicate that the groundwater from EW-2 contains higher concentrations of SVOCs than EW-1. In EW-2, the 2,4-Dimethylphenol concentration (480 µg/l), 2-Methylphenol (420 µg/l), Benzo(a)anthracrene concentration (72 µg/l), Benzo(b)fluoranthene (36 µg/l), Benzo(k)fluoranthene (20 µg/l), Chrysene (55 µg/l), Naphthalene (5,500 µg/l), and PCP concentration (170 µg/l) were all above the proposed CUOs listed in the ROD. The Acenaphthene concentration (530 µg/l), Benzo(a)pyrene concentration (0.55 µg/l), Fluoranthene concentration (300 µg/l), Fluorene concentration

(390 µg/l), Ideno(1,2,3-c,d)pyrene concentration (10 µg/l), Dibenz(a,h)anthracene concentration (4.0 µg/l), Phenol concentration (100 µg/l), and Pyrene concentration (220 µg/l) in EW-2 were above the Illinois EPA TACO Tier 1 groundwater objectives. In addition, there were several SVOC concentrations above the laboratory reporting limit but below the proposed CUOs and Illinois EPA Tier 1 objectives.

Bodine sampled monitoring well (MW-18S) to determine if the COPC are migrating down gradient of the treatment zone. Based on the groundwater analytical results from MW-18S, it does not appear that COPC are migrating down gradient of the treatment zone. The PCP concentration decreased to 0.10 µg/l from 4.9 µg/l during the November 2008 sampling event performed by EEEI.

As part of the quarterly monitoring plan, the monitoring wells in the former PCP treatment area were sampled during this sampling event to monitor the contamination in this area. The PCP concentration in MW-8S increased to 86,000 µg/l from 69,000 µg/l in the December 2009 sampling event. This concentration is well above the proposed CUO. In addition, there were several SVOC concentrations in MW-8S above the laboratory reporting limit but below the proposed CUOs and Illinois EPA Tier 1 objectives. The PCP concentration in MW-8M decreased to 12 µg/l from 69 µg/l in the December 2009 sampling event. This concentration is above the proposed CUO. In addition, there were a few SVOC concentrations in MW-8M above the laboratory reporting limit but below the proposed CUOs and Illinois EPA Tier 1 objectives. The PCP concentration in MW-8D decreased to below the laboratory reporting limit from 2.2 µg/l in the November 2008 sampling event. In addition, there were a few SVOC concentrations in MW-8D above the laboratory reporting limit but well below the proposed CUOs and Illinois EPA Tier 1 objectives.

The following monitoring and extraction wells have concentrations above the proposed CUOs, Illinois EPA TACO Tier 1 Groundwater Objectives or both:

- MW-5S
- MW-8S
- MW-8M
- MW-20
- MW-22
- MW-23
- EW-1
- EW-2

Groundwater analytical data is summarized in Tables 6, 7, 8, 9, and 10. Groundwater analytical reports including chain-of-custody documentation for the October 2010 sampling event are included as Appendix D. Copies of the groundwater sampling forms are included as Appendix E. A photograph log is included in Appendix F. Time versus concentration graphs will be created for extraction wells EW-1 and EW-2 and will be included in the next quarterly report.

4.0 CONCLUSIONS AND RECOMENDATIONS

Based on the data generated during the operating period from October 1, 2010 through December 31, 2010 the following conclusions are presented.

- The GWOU operated within acceptable levels as determined by effluent sampling results. Approximately 363 lbs of SVOC contaminant mass was removed from the groundwater during the fourth quarter of 2010.

- The water treatment chemicals have improved the operating time to over 2 weeks before the GWOU has to be shut down to chemically remove iron and calcium carbonate scale from the heat exchanger tubes.

- The NAPL separator is not efficiently removing the NAPL entering the treatment system. The system operational samples indicate more O&G after the NAPL separator than what is entering the NAPL separator. In addition, the influent tank and bag filters are covered with NAPL.

- Shallow groundwater flow is predominantly to the south with a western component in the southern half of the site. The intermediate and deep groundwater flow shows primarily a southerly component.

- The 2,4-Dimethylphenol, 2-Methylphenol, 3&4-Metylphenol, Naphthalene, and PCP concentrations are increasing in the monitoring wells located in the treatment zone. The concentrations are well above the proposed CUOs.

- The down gradient well (MW-18S) from the treatment zone did not display higher COPC concentrations from the previous sampling event, so it appears the COPC are not migrating down gradient from the treatment zone.

- The PCP concentration (86,000 μg/l) in MW-8S has increased from the previous sampling event in December of 2009.

- The PCP concentration (12 μg/l) in MW-8M has decreased from the previous sampling event in December of 2009.

- The duplicate samples collected were analyzed and the relative prevent difference (RPD) between the duplicate samples were within the acceptable RPD limits.

5.0 LIMITATIONS OF INVESTIGATION

This report was prepared under constraints of cost, time and scope, and reflects a limited assessment and evaluation based on data collected at discrete locations on or near the site. Conditions may vary across the site. The assessment was performed using the degree of care and skill ordinarily exercised, under similar circumstances, by professional consultants practicing in this or similar localities. No other warranty or guarantee, expressed or implied, is made as to the conclusions and professional advice included in this report.

The findings of this report are valid as of the present date of the assessment. However, changes in the conditions of a property can occur with the passage of time, whether due to natural processes or the works of man on this or adjacent properties. In addition, changes in applicable or appropriate standards may occur, whether they result from legislation, from the broadening of knowledge, or from other reasons. Accordingly, the findings of this report may be invalidated wholly or partially by changes outside our control.

The interpretations and conclusions contained in this report are based upon the result of independent laboratory tests and analysis intended to detect the presence and/or concentrations of certain chemical constituents in samples taken from the subject property. Bodine has no control over such testing and analysis and therefore, disclaims any responsibility for any errors and omissions arising there from.

TABLES

Table 1
IEPA - Jennison Wright Summary of Compounds Detected in GCRWWTP Effluent Sample
November 2010

		Daily Discharge Limitation	
Date			11/4/2010
Sample ID Number	Reporting Limit		GCRWWTP-GWOUE-11042010
Units	mg/L	mg/L	mg/L
Metals			
Arsenic	0.0050	0.5	J 0.0032
Barium	0.0050	11	0.35
Cadmium	0.0010	1.2	ND
Chromium	0.0050	9	ND
Copper	0.0050	3	J 0.0013
Lead	0.0025	0.5	J 0.0022
Manganese	0.0050	7	0.47
Mercury	0.0002	0.001	ND
Nickel	0.0050	2.6	ND
Selenium	0.0050	3	ND
Silver	0.0025	0.4	ND
Zinc	0.0100	5	J,B 0.0069
FOG	5.0	200	ND
Iron	0.1000	---	4.8
Cyanide	0.0100	1.25	ND
Total Phenols	0.0050	2.5	0.06
BOD	2.0	---	2.5
TSS	5.0	---	ND
Semi-Volatiles			
	ug/L	ug/L	ug/L
2,4-Dimethylphenol	4.7	---	8.2
2-Methylphenol	4.7	---	7.3
Acenaphthene	4.7	---	J 3.3
Acenaphthylene	4.7	---	ND
Anthracene	4.7	---	ND
Benzo(a)anthracene	4.7	---	ND
Benzo(a)pyrene	4.7	---	ND
Benzo(b)fluoranthene	4.7	---	ND
Benzo(ghi)perylene	4.7	---	ND
Benzo(k)fluoranthene	4.7	---	ND
bis(2-Ethylhexyl) phthalate	4.7	---	ND
Chrysene	4.7	---	ND
Dibenzofuran	4.7	---	ND
Fluoranthene	4.7	---	ND
Fluorene	4.7	---	ND
Indeno(1,2,3-c,d)pyrene	4.7	---	ND
Naphthalene	4.7	---	ND
Pentachlorophenol	19	---	ND
Phenanthrene	4.7	---	ND
Phenol	9.3	---	ND
Pyrene	4.7	---	ND

J - Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.
B - Compound was found in the blank and sample.
either precision or accuracy possibly due to matrix effects.
ND - Analyte NOT DETECTED at or above the reporting limit.
N/A - Not Applicable
Value exceeds GCRWWTP Discharge Limitation

Table 2
IEPA - Jennison Wright Summary of VOCs and SVOCs Detected in System Influent
4th Quarter 2010

	ROD Proposed Cleanup Objectives	IEPA TACO Class I Groundwater Cleanup Objectives						
Date				10/13/2010		11/30/2010		12/14/2010
Sample ID Number			QC Flag	GWOUA (10132010)	QC Flag	GWOUA (11302010)	QC Flag	GWOUA (12142010)
Units	µg/l	µg/l		µg/l		µg/l		µg/l
Volatiles								
Benzene	10	5		NS		NS		**40**
Toluene		1000		NS		NS		74
Ethylbenzene		700		NS		NS		90
Semi-Volatiles								
2,4-Dimethylphenol	200	140		**220**		**360**		**350**
2-Methylphenol	500	350		200		310		310
3&4 Methylphenol				470		640		640
Acenaphthene	—	420		380		**510**		**570**
Acenaphthylene	—	210	J	16	J	22	J	22
Anthracene	—	2100		61		95		130
Benzo(a)anthracene	0.13	0.13	J	**46**		**65**		**96**
Benzo(a)pyrene	—	0.2	J	**22**		**34**	J	**49**
Benzo(b)fluoranthene	0.18	0.18	J	**23**		**42**		**58**
Benzo(ghi)perylene	—	210		ND	J	15	J	23
Benzo(k)fluoranthene	0.4	0.17	J	**16**	J	**18**	J	**28**
Chrysene	4	1.5	J	**41**		**56**		**79**
Dibenzofuran	—	7		**250**		**340**		**390**
Fluoranthene	—	280		210		**320**		**450**
Fluorene	—	280		270		**380**		**450**
Indeno(1,2,3-c,d)pyrene	—	0.43		ND	J	**14**	J	**20**
Naphthalene	400	140		**3600**		**5100**		**5400**
Pentachlorophenol	1	1	J	**130**		**180**	J	**160**
Phenanthrene	—	210		**490**		**770**		**1200**
Phenol	—	100	J	46		57	J	54
Pyrene	—	210		150		**220**		**290**
		Total VOCs &SVOCs		**6641**		**9548**		**10973**
		Quarterly VOC & SVOC Average		**9054**				

J - Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.
ND - Analyte NOT DETECTED at or above the reporting limit.
N/A - Not Applicable
NS - Not Sampled
Value exceeds TACO Class I Groundwater Remediation Objective or ROD Cleanup Objective

Denotes compounds where the values have been obtained from IEPA's Toxiticy Assessment Unit, Remediation Objectives for Non-TACO Compounds, 3/14/11.

Table 3
IEPA - Jennison Wright Summary of Semi-Volatile Organic Compounds Detected in System Effluent
4th Quarter 2010

	GCRWWTP Daily Discharge Limitations						
Date		10/13/2010		11/30/2010		12/14/2010	
Sample ID Number		QC Flag	GWOUE (10132010)	QC Flag	GWOUE (11302010)	QC Flag	GWOUE (12142010)
Units	µg/l		µg/l		µg/l		µg/l
Semi-Volatiles							
2,4-Dimethylphenol	—	J	2.2		9.4		21
2-Methylphenol	—		ND	J	4.1		22
3 & 4 Methylphenol	—		ND	J	1.2		21
Acenaphthene	—		ND		5.7	J	2.5
Acenaphthylene	—		ND		ND		ND
Anthracene	—		ND		ND		ND
Benzo(a)anthracene	—		ND		ND		ND
Benzo(a)pyrene	—		ND		ND		ND
Benzo(b)fluoranthene	—		ND		ND		ND
Benzo(ghi)perylene	—		ND		ND		ND
Benzo(k)fluoranthene	—		ND		ND		ND
bis(2-Ethylhexyl) phthalate	—		11		ND		ND
Chrysene	—		ND		ND		ND
Dibenzofuran	—		ND		ND		ND
Fluoranthene	—		ND		ND		ND
Fluorene	—		ND		ND		ND
Indeno(1,2,3-c,d)pyrene	—		ND		ND		ND
Naphthalene	—		ND	J	3.1		ND
Pentachlorophenol	—		ND		ND		ND
Phenanthrene	—		ND		ND		ND
Phenol	—		ND		ND	J	2.8
Pyrene	—		ND		ND		ND
	Total SVOCs		**13.2**		**23.5**		**69.3**
	Quarterly Average		**35**				

J - Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.
ND - Analyte NOT DETECTED at or above the reporting limit.
N/A - Not Applicable
Value exceeds GCRWWTP Daily Discharge Limitation

Table 4
Mass Removal
NAPL Seperation/Hot Water Generation/Groundwater Treatment System
Jennison Wright NPL Site
Granite City, Illinois
Project Number 119386-12

	Date	Total SVOC	Flow		Total VOC Mass Removed per Day				Length of Quarter	Total Mass per Quarter	Cumulative Mass Removed
Sample ID	Units	µg/l	GPD	Liters per Day	µg	mg	kg	lbs	Days Operating	lbs	lbs
GWOUE	10/1-12/31/2010	9019	50400	190784.7547	1720687703	1720688	1.720688	3.785513	84	317.9830875	317.9830875

Notes

GPD = gallons per day
µg = micrograms
mg = milligrams
kg = kilograms
lbs = pounds

Table 5
Groundwater Elevation Summary
Jennison Wright NPL Site
Granite City, Illinois
Bodine Project Number 119386-12

Well ID	Date	Well Depth	Top of Casing Elevation	Screen Interval	Depth of Water	Groundwater Elevation
		(Feet bgs)	(MSL)	(Feet bgs/MSL)	(Feet bgs)	(MSL)
MW-1S	10/11/2010	26.00	424.53	16-26	16.10	408.43
MW-1D	10/11/2010	117.00	423.84	107-117	15.34	408.50
MW-2S	10/11/2010	23.00	419.06	13-23	10.89	408.17
MW-3S	10/11/2010	25.40	422.01	15.4-25.4	14.38	407.63
MW-3D	10/11/2010	115.00	422.35	105-115	14.65	407.70
MW-4S	10/11/2010	28.00	423.97	18-28	16.55	407.42
MW-5S	10/11/2010	27.00	424.51	17-27	16.66	407.85
MW-5D	10/11/2010	110.50	423.04	100.5-110.5	15.46	407.58
MW-6M	10/11/2010	64.60	422.79	54.6-64.6	15.32	407.47
MW-6D	10/11/2010	113.50	422.58	103.5-113.5	15.13	407.45
MW-8SR	10/11/2010	25.00	423.91	15-25	16.82	407.09
MW-8MR	10/11/2010	52.50	423.05	42.5-52.5	15.83	407.22
MW-8D	10/11/2010	117.00	424.57	107-117	17.47	407.10
MW-10SR	10/11/2010	28.50	423.70	18.5-28.5	15.84	407.86
MW-11S	10/11/2010	27.00	425.23	17-27	18.58	406.65
MW-11M	10/11/2010	55.50	424.86	45.5-55.5	18.12	406.74
MW-12S	10/11/2010	26.00	419.72	11-26	11.26	408.46
MW-13S	10/11/2010	28.00	424.84	13-28	16.68	408.16
MW-14S	10/11/2010	29.50	424.58	14.5-29.5	16.72	407.86
MW-15S	10/11/2010	29.50	423.54	14.5-29.5	15.71	407.83
MW-16S	10/11/2010	31.50	423.70	16.5-31.5	16.10	407.60
MW-17S	10/11/2010	31.00	422.87	16-31	15.43	407.44
MW-18S	10/11/2010	31.00	423.54	16-31	16.17	407.37
MW-19S	10/11/2010	32.00	424.46	17-32	17.63	406.83
MW-20	10/11/2010	119.50	425.20	9.5-119.5	17.39	407.81
MW-21	10/11/2010	119.50	424.28	9.5-119.5	16.20	408.08
MW-22	10/11/2010	119.50	424.83	9.5-119.5	16.93	407.90
MW-23	10/11/2010	119.50	424.77	9.5-119.5	16.88	407.89

Notes:

- Top of Casing elevation performed by Juneau & Associates - June 2011

NR = Not Recorded
CNL = Could not locate
MSL = Mean Sea Level
Feet bgs = Feet below ground surface

MW-21 had 4.6 feet of free product.

Table 6
IEPA - Jennison Wright Summary of SVOCs Detected in Groundwater Monitoring Wells
November 2008

		ROD Proposed Cleanup Objectives	IEPA TACO Class I Groundwater Cleanup Objectives						
Date				Nov-08	Nov-08	Nov-08	Nov-08	Nov-08	Nov-08
Sample ID Number	Method			MW-2S	MW-5S	MW-5S DUP	MW-5D	MW-6M	MW-6D
Units		µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L
Semi-Volatiles									
2,4-Dimethylphenol	8270C	200	140	ND	**19000**	**18000**	4.2 J	ND	ND
2-Methylphenol	8270C	500	350	ND	**7300**	**8500**	4	ND	ND
3 & 4 Methylphenol	8270C			ND	**12000**	**13000**	5.2	ND	ND
2,4,5-Trichlorophenol	8270C		700	ND	54 J	61 J	ND	ND	ND
Acenaphthene	8270C	---	420	ND	320	390	ND	ND	ND
Acenaphthylene	8270C	---	210	ND	40	50	ND	ND	ND
Anthracene	8270C	---	2100	ND	12	11	ND	ND	ND
Benzo(a)anthracene	8270C	0.13	0.13	ND	ND	ND	ND	ND	ND
Benzo(a)pyrene	8270C	---	0.2	ND	ND	ND	ND	ND	ND
Benzo(b)fluoranthene	8270C	0.18	0.18	ND	ND	ND	ND	ND	ND
Benzo(ghi)perylene	8270C	---	210	ND	ND	ND	ND	ND	ND
Benzo(k)fluoranthene	8270C	0.4	0.17	ND	ND	ND	ND	ND	ND
Bis(2-ethylhexyl) phthalate	8270C		6	ND	ND	ND	ND	ND	ND
Carbazole	8270C			ND	470	490	ND	ND	ND
Chrysene	8270C	4	1.5	ND	ND	ND	ND	ND	ND
Dibenzofuran	8270C	---	7	ND	190	230	ND	ND	ND
Fluoranthene	8270C	---	280	ND	20	29	ND	ND	ND
Fluorene	8270C	---	280	ND	130	150	ND	ND	ND
Indeno(1,2,3-c,d)pyrene	8270C	---	0.43	ND	ND	ND	ND	ND	ND
Benzo(g,h,i)perylene	8270C		210	ND	ND	ND	ND	ND	ND
Dibenzo(a,h)anthracene	8270C		3	ND	ND	ND	ND	ND	ND
1,2-Dichlorobenzene	8270C		600	ND	ND	ND	ND	ND	ND
Naphthalene	8270C	400	140	0.21 J	**6700**	**15000**	11	0.48 J	0.59 J
2-Methylnaphthalene	8270C		280	ND	ND	ND	ND	ND	ND
4-Chloro-3-methylphenol	8270C			ND	ND	ND	ND	ND	ND
Pentachlorophenol	8151A	1	1	**1.4**	**780**	**770**	ND	ND	0.18
Phenanthrene	8270C	---	210	ND	120	150	ND	ND	ND
Phenol	8270C	---	100	ND	**1600**	**1900**	ND	ND	ND
Pyrene	8270C	---	210	ND	12	18	ND	ND	ND

J - Result is less than the RL but greater than or equal to the MDL and the concentration ia an approximate value.
ND - Analyte NOT DETECTED at or above the reporting limit.
N/A - Not Applicable
Value exceeds TACO Class I Groundwater Remediation Objective or ROD Cleanup Objective
Denotes compounds where the values have been obtained from IEPA's Toxiticy Assessment Unit, Remediation Objectives for Non-TACO Compounds, 3/14/11.

Table 7
IEPA - Jennison Wright Summary of SVOCs Detected in Groundwater Monitoring Wells
EEEI December 2009

		ROD Proposed Cleanup Objectives	IEPA TACO Class I Groundwater Cleanup Objectives							
Date				Dec-09	Dec-09	Dec-09	Dec-09	Dec-09	Dec-09	Dec-09
Sample ID Number	Method			MW-8S	MW-8M	MW-20D	MW-21D	MW-22D	MW-23D	MW-23DD
Units		µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L
Semi-Volatiles										
2,4-Dimethylphenol	8270C	200	140	ND	ND	ND	**190 J**	**380**	14 J	18 J
2-Methylphenol	8270C	500	350	ND	ND	ND	97	190	ND	14 J
3 & 4 Methylphenol	8270C			6.2 J	ND	ND	140	390	26	27
2,4,5-Trichlorophenol	8270C		700	ND	ND	ND	ND	ND	ND	ND
Acenaphthene	8270C	---	420	13	5.1	0.46 J	**760**	240	220	220
Acenaphthylene	8270C	---	210	ND	ND	ND	ND	13	14	15
Anthracene	8270C	---	2100	2.1 J	ND	ND	400	75	ND	ND
Benzo(a)anthracene	8270C	0.13	0.13	ND	ND	ND	**220**	**14**	**7**	**6.1**
Benzo(a)pyrene	8270C	---	0.2	ND	ND	ND	**130**	**8.7**	**3.1**	**3.2**
Benzo(b)fluoranthene	8270C	0.18	0.18	ND	ND	ND	**180**	**11**	**4.1**	**4.4**
Benzo(ghi)perylene	8270C	---	210	ND	ND	ND	52	ND	ND	ND
Benzo(k)fluoranthene	8270C	0.4	0.17	ND	ND	ND	**58**	**4.4**	**1.7 J**	**1.6 J**
Bis(2-ethylhexyl) phthalate	8270C		6	ND	ND	ND	ND	ND	ND	ND
Carbazole	8270C			12 J	ND	ND	440	270	420	450
Chrysene	8270C	4	1.5	ND	ND	ND	**190**	**12**	**5 J**	**6**
Dibenzofuran	8270C	---	7	ND	ND	ND	560	170	130	130
Fluoranthene	8270C	---	280	2.3 J	ND	ND	**1200**	110	54	56
Fluorene	8270C	---	280	14	0.94 J	0.23 J	**660**	160	130	140
Indeno(1,2,3-c,d)pyrene	8270C	---	0.43	ND	ND	ND	**49**	**3.7**	**1.3 J**	**1.4 J**
Benzo(g,h,i)perylene	8270C		210	ND	ND	ND	ND	3.7 J	ND	ND
Dibenzo(a,h)anthracene	8270C		3	ND	ND	ND	**18**	1.4 J	ND	ND
1,2-Dichlorobenzene	8270C		600	ND	ND	ND	ND	ND	ND	ND
Naphthalene	8270C	400	140	74	1.6	9.2	**7900**	**3400**	**4000**	**4700**
2-Methylnaphthalene	8270C		280	130	ND	0.6	2200	110	140	150
4-Chloro-3-methylphenol	8270C			ND	ND	ND	ND	ND	ND	ND
Pentachlorophenol	8151A	1	1	**69000**	**69**	**12 J**	**22000**	**310**	**64 J**	**70 J**
Phenanthrene	8270C	---	210	20	ND	0.22 J	2700	300	210	210
Phenol	8270C	---	100	ND	ND	ND	ND	51 J	ND	ND
Pyrene	8270C	---	210	1.4 J	ND	ND	**880**	64	31	32

J - Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.
ND - Analyte NOT DETECTED at or above the reporting limit.
N/A - Not Applicable
Value exceeds TACO Class I Groundwater Remediation Objective or ROD Cleanup Objective
Denotes compounds where the values have been obtained from IEPA's Toxicity Assessment Unit, Remediation Objectives for Non-TACO Compounds, 3/14/11.

Table 8
IEPA - Jennison Wright Summary of SVOCs Detected in Groundwater Monitoring Wells
October 2010

		ROD Proposed Cleanup Objectives	IEPA TACO Class I Groundwater Cleanup Objectives						
Date				10/12/2010	10/12/2010	10/12/2010	10/12/2010	10/12/2010	10/12/2010
Sample ID Number	Method			MW-5S	MW-5S DUP	MW-8S	MW-8M	MW-8D	MW-18S
Units		µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L
Semi-Volatiles									
2,4-Dimethylphenol	8270C	200	140	**13000**	**13000**	ND	ND	ND	ND
2-Methylphenol	8270C	500	350	**2700**	**2500**	ND	ND	0.64 J	ND
3 & 4 Methylphenol	8270C			4300	3900	4.8 J	0.56 J	0.78 J	ND
Acenaphthene	8270C	---	420	380	**730**	11	70	0.10 J	ND
Acenaphthylene	8270C	---	210	750	97	ND	0.83 J	ND	ND
Anthracene	8270C	---	2100	32	33	ND	0.20 J	ND	0.50 J
Benzo(a)anthracene	8270C	0.13	0.13	ND	**1.3 J**	ND	ND	ND	ND
Benzo(a)pyrene	8270C	---	0.2	ND	**34**	ND	ND	ND	ND
Benzo(b)fluoranthene	8270C	0.18	0.18	ND	**42**	ND	ND	ND	ND
Benzo(ghi)perylene	8270C	---	210	ND	15 J	ND	ND	ND	ND
Benzo(k)fluoranthene	8270C	0.4	0.17	ND	**18 J**	ND	ND	ND	ND
Bis(2-ethylhexyl) phthalate	8270C		6	ND	ND	ND	1.9 J	1.8 J	ND
Carbazole	8270C			1300	730	ND	4.9	ND	ND
Chrysene	8270C	4	1.5	1.2 J	**1.7 J**	ND	ND	ND	ND
Dibenzofuran	8270C	---	7	390	390	12 J	ND	ND	ND
Fluoranthene	8270C	---	280	42	46	ND	ND	ND	0.23 J
Fluorene	8270C	---	280	**350**	**350**	13	15	ND	ND
Indeno(1,2,3-c,d)pyrene	8270C	---	0.43	ND	**14 J**	ND	ND	ND	ND
Benzo(g,h,i)perylene	8270C		210	ND	ND	ND	ND	ND	ND
Dibenz(a,h)anthracene	8270C		3	ND	ND	ND	ND	ND	ND
1,2-Dichlorobenzene	8270C		600	ND	ND	ND	0.64 J	ND	ND
Naphthalene	8270C	400	140	**35000**	**36000**	110	67	11	ND
2-Methylnaphthalene	8270C		280	990	1000	170	0.25 J	ND	ND
4-Chloro-3-methylphenol	8270C			ND	38 J	ND	ND	ND	ND
Pentachlorophenol	8151A	1	1	**1300**	**1200**	**86000**	**12**	ND	0.10 J
Phenanthrene	8270C	---	210	370	380	14	0.17 J	ND	ND
Phenol	8270C	---	100	**210**	**190**	ND	ND	ND	ND
Pyrene	8270C	---	210	31	33	ND	ND	ND	0.16 J

J - Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.
ND - Analyte NOT DETECTED at or above the reporting limit.
N/A - Not Applicable
Value exceeds TACO Class I Groundwater Remediation Objective or ROD Cleanup Objective
Denotes compounds where the values have been obtained from IEPA's Toxiticy Assessment Unit, Remediation Objectives for Non-TACO Compounds, 3/14/11.

Table 9
IEPA - Jennison Wright Summary of SVOCs Detected in EW-1
4th Quarter 2010

		ROD Proposed Cleanup Objectives	IEPA TACO Class I Groundwater Cleanup Objectives	
Date				10/14/2010
Sample ID Number	Method			EW-1
Units		µg/L	µg/L	µg/L
Semi-Volatiles				
2,4-Dimethylphenol	8270C	200	140	9.1 J
2-Methylphenol	8270C	500	350	5.4
3 & 4 Methylphenol	8270C			15
Acenaphthene	8270C	---	420	150
Acenaphthylene	8270C	---	210	7.5
Anthracene	8270C	---	2100	8.1
Benzo(a)anthracene	8270C	0.13	0.13	**1.5**
Benzo(a)pyrene	8270C	---	0.2	**0.55**
Benzo(b)fluoranthene	8270C	0.18	0.18	**0.6**
Benzo(ghi)perylene	8270C	---	210	ND
Benzo(k)fluoranthene	8270C	0.4	0.17	**0.44**
Bis(2-ethylhexyl) phthalate	8270C		6	ND
Carbazole	8270C			51
Chrysene	8270C	4	1.5	1.1
Dibenzofuran	8270C	---	7	99
Fluoranthene	8270C	---	280	18
Fluorene	8270C	---	280	100
Indeno(1,2,3-c,d)pyrene	8270C	---	0.43	0.22
Benzo(g,h,i)perylene	8270C		210	0.22 J
Dibenz(a,h)anthracene	8270C		3	ND
1,2-Dichlorobenzene	8270C		600	ND
Naphthalene	8270C	400	140	**530**
2-Methylnaphthalene	8270C		280	21
4-Chloro-3-methylphenol	8270C			ND
Pentachlorophenol	8151A	1	1	**3.4**
Phenanthrene	8270C	---	210	130
Phenol	8270C	---	100	4.8
Pyrene	8270C	---	210	11
			Total SVOCs	**1159**

J - Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.
ND - Analyte NOT DETECTED at or above the reporting limit.
N/A - Not Applicable
Value exceeds TACO Class I Groundwater Remediation Objective or ROD Cleanup Objective

Denotes compounds where the values have been obtained from IEPA's Toxiticy Assessment Unit, Remediation Objectives for Non-TACO Compounds, 3/14/11.

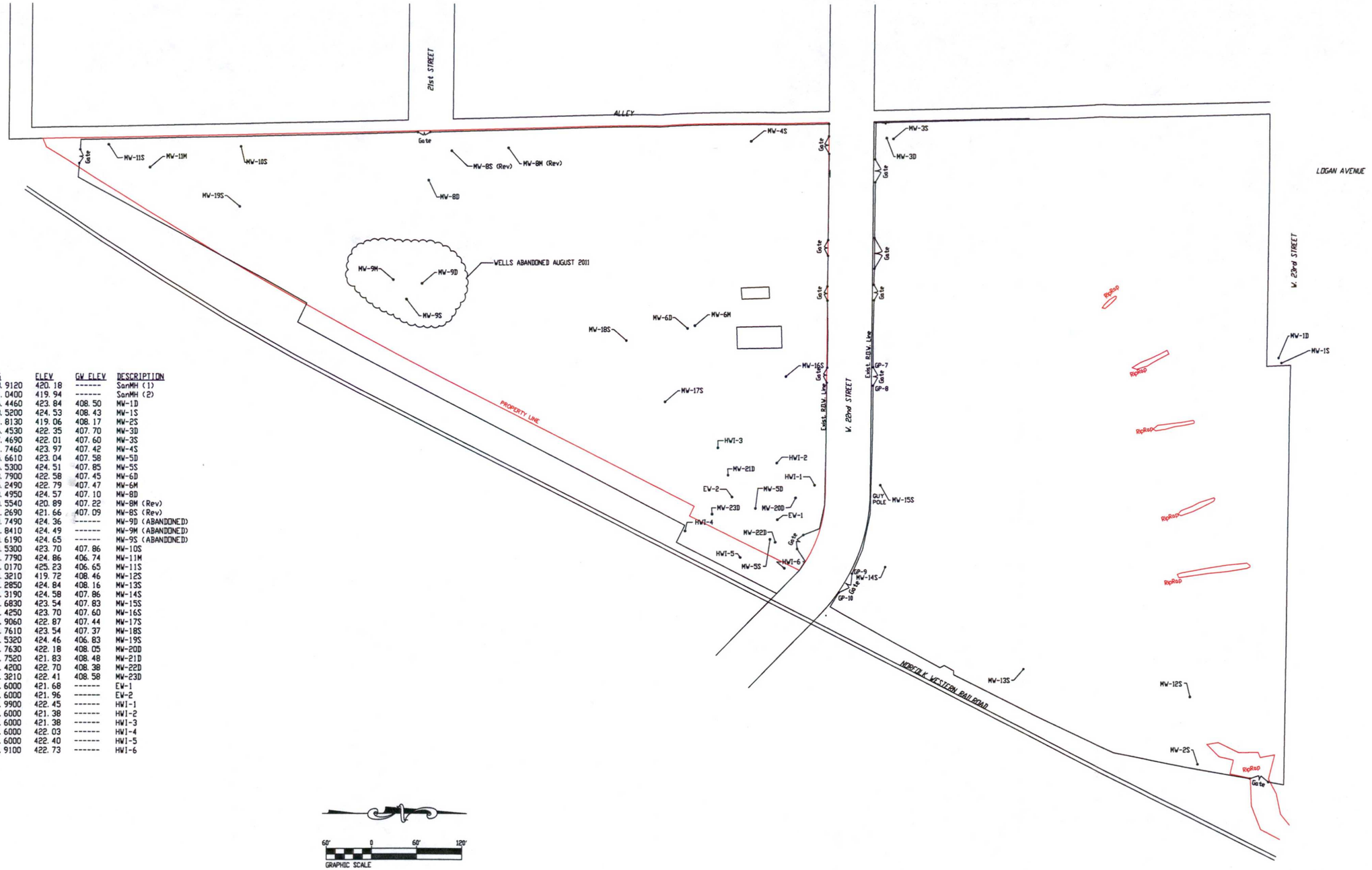
Table 10
IEPA - Jennison Wright Summary of SVOCs Detected in EW-2
4th Quarter 2010

		ROD Proposed Cleanup Objectives	IEPA TACO Class I Groundwater Cleanup Objectives	
Date				10/15/2010
Sample ID Number	Method			EW-2
Units		µg/L	µg/L	µg/L
Semi-Volatiles				
2,4-Dimethylphenol	8270C	200	140	**480**
2-Methylphenol	8270C	500	350	**420**
3 & 4 Methylphenol	8270C			1000
Acenaphthene	8270C	---	420	**530**
Acenaphthylene	8270C	---	210	17
Anthracene	8270C	---	2100	96
Benzo(a)anthracene	8270C	0.13	0.13	**72**
Benzo(a)pyrene	8270C	---	0.2	**31**
Benzo(b)fluoranthene	8270C	0.18	0.18	**36**
Benzo(ghi)perylene	8270C	---	210	ND
Benzo(k)fluoranthene	8270C	0.4	0.17	**20**
Bis(2-ethylhexyl) phthalate	8270C		6	ND
Carbazole	8270C			320
Chrysene	8270C	4	1.5	**55**
Dibenzofuran	8270C	---	7	350
Fluoranthene	8270C	---	280	**300**
Fluorene	8270C	---	280	**390**
Indeno(1,2,3-c,d)pyrene	8270C	---	0.43	**10**
Benzo(g,h,i)perylene	8270C		210	10
Dibenz(a,h)anthracene	8270C		3	**4**
1,2-Dichlorobenzene	8270C		600	ND
Naphthalene	8270C	400	140	**5500**
2-Methylnaphthalene	8270C		280	350
4-Chloro-3-methylphenol	8270C			ND
Pentachlorophenol	8151A	1	1	**170**
Phenanthrene	8270C	---	210	740
Phenol	8270C	---	100	**100**
Pyrene	8270C	---	210	**220**
			Total SVOCs	11,221

J - Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.
ND - Analyte NOT DETECTED at or above the reporting limit.
N/A - Not Applicable
Value exceeds TACO Class I Groundwater Remediation Objective or ROD Cleanup Objective

Denotes compounds where the values have been obtained from IEPA's Toxiticy Assessment Unit, Remediation Objectives for Non-TACO Compounds, 3/14/11.

FIGURES



NORTHING	EASTING	ELEV	GW ELEV	DESCRIPTION
774383.7539	2300318.9120	420.18	------	SanMH (1)
743845.5700	2300381.0400	419.94	------	SanMH (2)
744412.4363	2300636.4460	423.84	408.50	MW-1D
744416.4053	2300643.5200	424.53	408.43	MW-1S
744306.1795	2301171.8130	419.06	408.17	MW-2S
743892.5907	2300346.4530	422.35	407.70	MW-3D
743901.0383	2300347.4690	422.01	407.60	MW-3S
743711.9657	2300351.7460	423.97	407.42	MW-4S
743718.2157	2300835.6610	423.04	407.58	MW-5D
743737.5956	2300876.5300	424.51	407.85	MW-5S
743627.8992	2300598.7900	422.58	407.45	MW-6D
743637.4674	2300595.2490	422.79	407.47	MW-6M
743282.8685	2300403.4950	424.57	407.10	MW-8D
743388.5336	2300360.5540	420.89	407.22	MW-8M (Rev)
743313.3911	2300364.2690	421.66	407.09	MW-8S (Rev)
743274.0245	2300539.7490	424.36	------	MW-9D (ABANDONED)
743235.8218	2300534.8410	424.49	------	MW-9M (ABANDONED)
743253.5051	2300560.6190	424.65	------	MW-9S (ABANDONED)
743033.1724	2300358.5300	423.70	407.86	MW-10S
742911.7757	2300386.7790	424.86	406.74	MW-11M
742856.3616	2300356.0170	425.23	406.65	MW-11S
744295.8401	2301083.3210	419.72	408.46	MW-12S
744074.3720	2301047.2850	424.84	408.16	MW-13S
743891.3005	2300913.3190	424.58	407.86	MW-14S
743884.5337	2300804.6830	423.54	407.83	MW-15S
743758.1875	2300661.4250	423.70	407.60	MW-16S
743598.0714	2300694.9060	422.87	407.44	MW-17S
743545.7756	2300614.7610	423.54	407.37	MW-18S
743031.6142	2300438.5320	424.46	406.83	MW-19S
743771.3062	2300821.7630	422.18	408.05	MW-20D
743681.7644	2300791.7520	421.83	408.48	MW-21D
743744.4962	2300880.4200	422.70	408.38	MW-22D
743660.6288	2300843.3210	422.41	408.58	MW-23D
743747.1600	2300850.6000	421.68	------	EW-1
743687.1600	2300820.6000	421.96	------	EW-2
743796.5500	2300804.9900	422.45	------	HWI-1
743746.1600	2300775.6000	421.38	------	HWI-2
743668.1600	2300755.6000	421.38	------	HWI-3
743625.1600	2300865.6000	422.03	------	HWI-4
743698.1600	2300900.6000	422.40	------	HWI-5
743756.5800	2300914.9100	422.73	------	HWI-6

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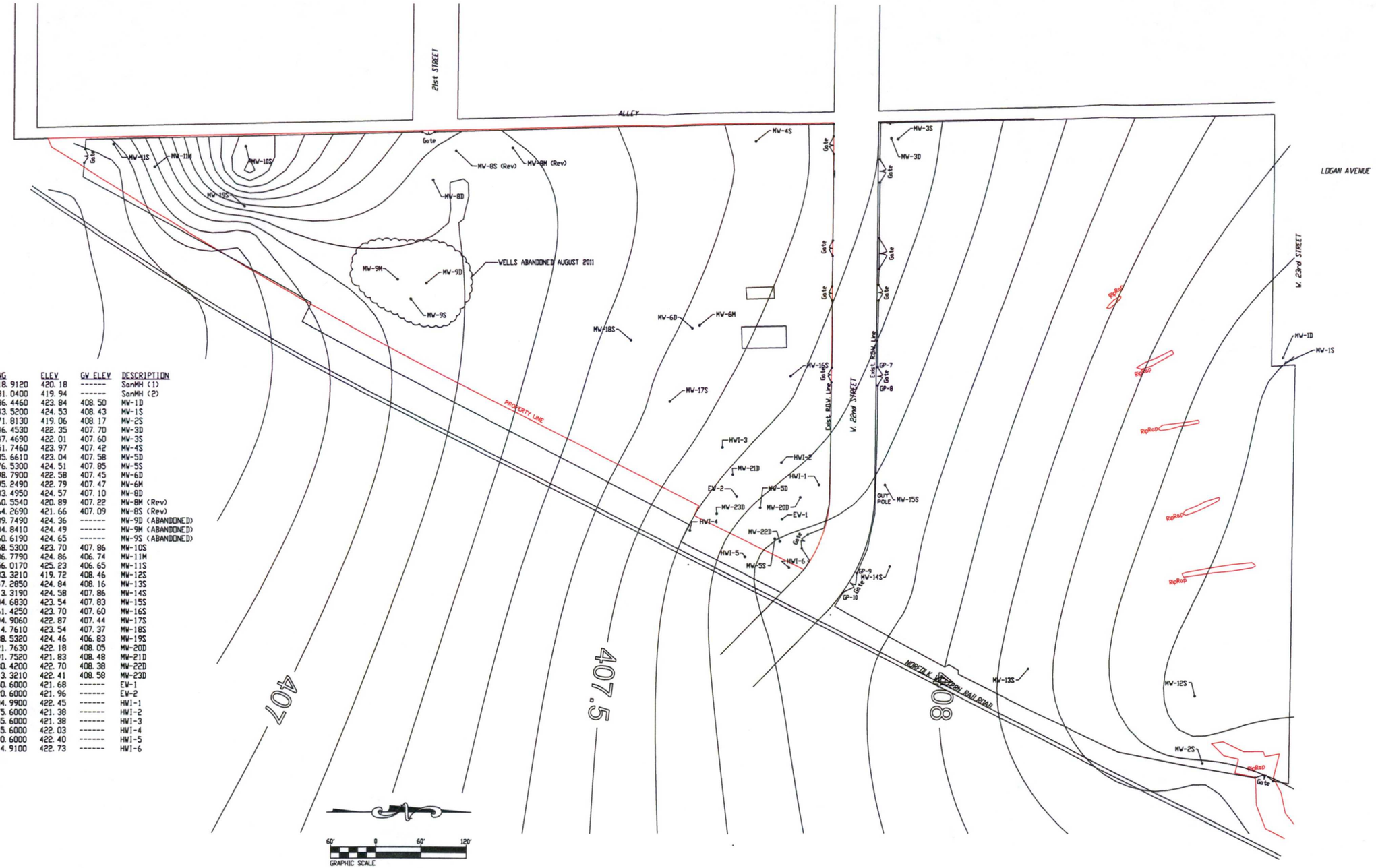
BODINE ENVIRONMENTAL SERVICES, INC.
5350 EAST FIREHOUSE ROAD
DECATUR, ILLINOIS 62521

REVISION #	DATE	DESCRIPTION	DRAWN BY / CHECKED	SCALE	FIGURE
			BODINE PROJECT #	DATE	



NORTHING	EASTING	ELEV	GW ELEV	DESCRIPTION
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743718.2157	2300835.6610	423.04	407.58	MW-5D
743737.5956	2300876.5300	424.51	407.85	MW-5S
743627.8992	2300598.7900	422.58	407.45	MW-6D
743637.4674	2300595.2490	422.79	407.47	MW-6M
743282.8685	2300403.4950	424.57	407.10	MW-8D
743388.5336	2300360.5540	420.89	407.22	MW-8M (Rev)
743313.3911	2300364.2690	421.66	407.09	MW-8S (Rev)
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743884.5337	2300804.6830	423.54	407.83	MW-15S
743758.1875	2300661.4250	423.70	407.60	MW-16S
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743744.4962	2300880.4200	422.70	408.38	MW-22D
743660.6288	2300843.3210	422.41	408.58	MW-23D
743747.1600	2300850.6000	421.68	------	EW-1
743687.1600	2300820.6000	421.96	------	EW-2
743796.5500	2300804.9900	422.45	------	HWI-1
743746.1600	2300775.6000	421.38	------	HWI-2
743668.1600	2300755.6000	421.38	------	HWI-3
743625.1600	2300865.6000	422.03	------	HWI-4
743698.1600	2300900.6000	422.40	------	HWI-5
743756.5800	2300914.9100	422.73	------	HWI-6

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5350 EAST FIREHOUSE ROAD
DECATUR, ILLINOIS 62521

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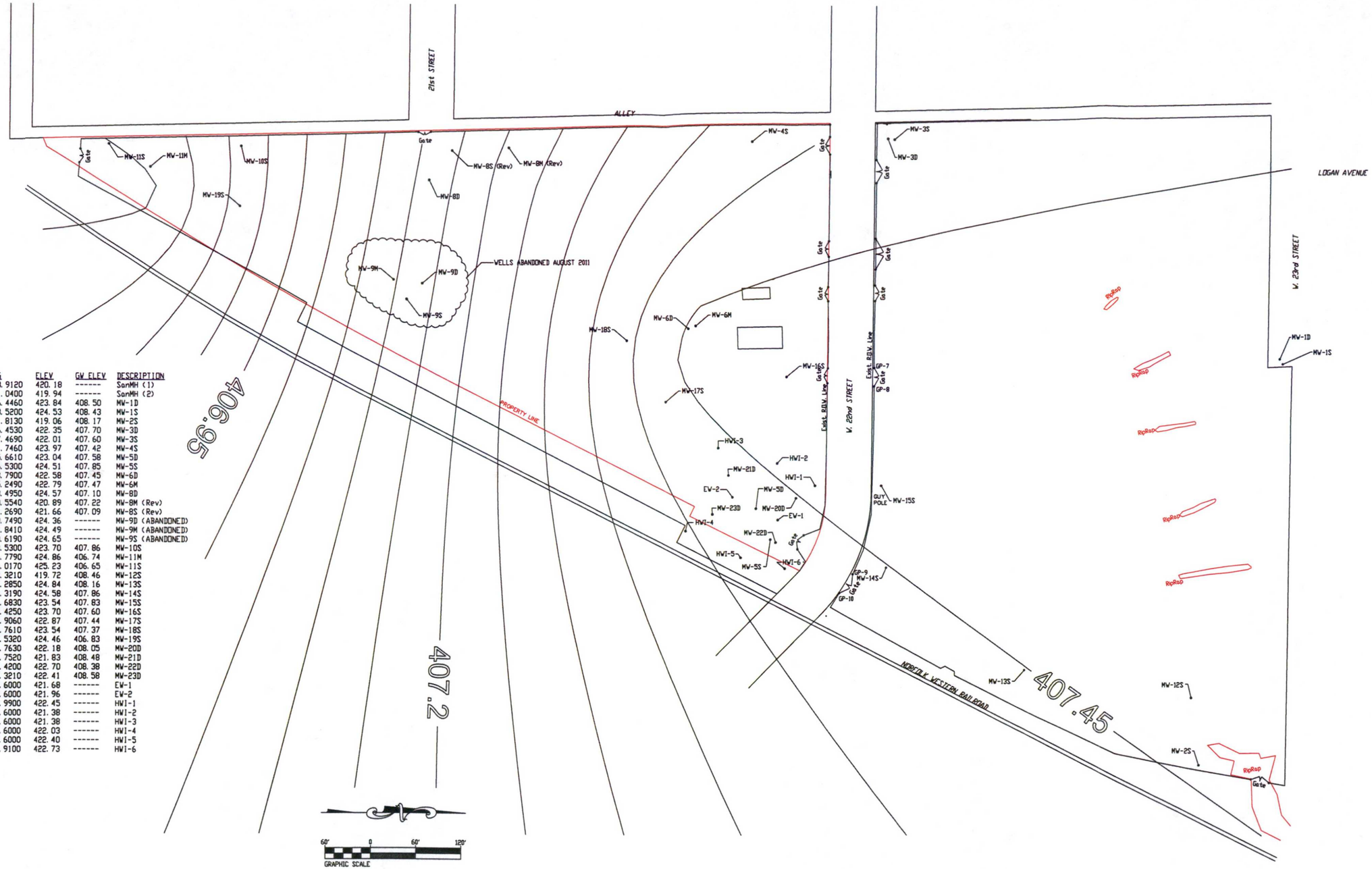

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743637.4674	2300595.2490	422.79	407.47	MW-6M
743282.8685	2300403.4950	424.57	407.10	MW-8D
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743756.5800	2300914.9100	422.73	------	HWI-6

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5350 EAST FIREHOUSE ROAD
DECATUR, ILLINOIS 62521

REVISION #	DATE	DESCRIPTION

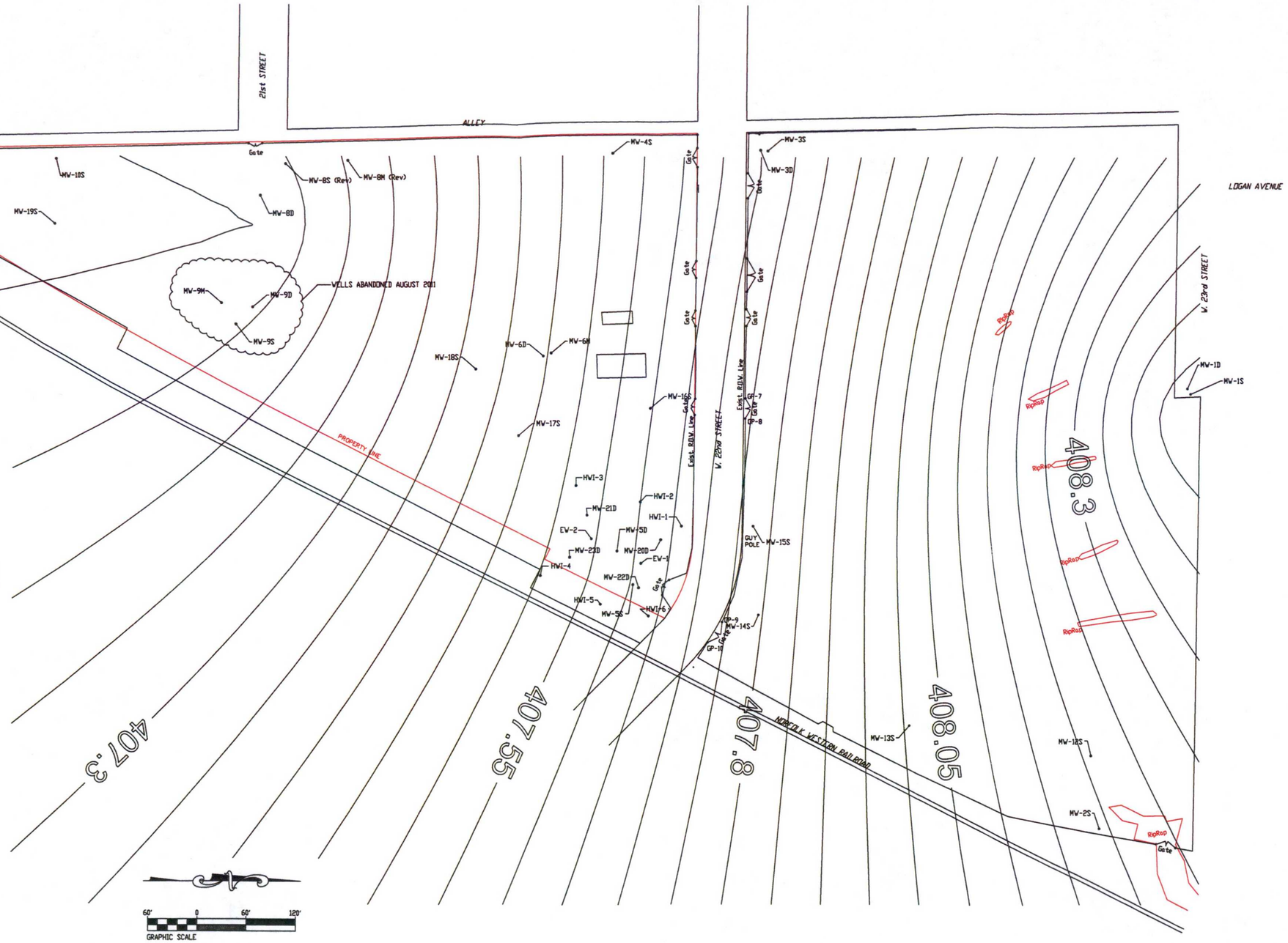
DRAWN BY / CHECKED

SCALE

BODINE PROJECT #

DATE

FIGURE



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743747.1600	2300850.6000	421.68	------	EW-1
743687.1600	2300820.6000	421.96	------	EW-2
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743746.1600	2300775.6000	421.38	------	HWI-2
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5350 EAST FIREHOUSE ROAD
DECATUR, ILLINOIS 62521

REVISION #	DATE	DESCRIPTION	DRAWN BY / CHECKED	SCALE	FIGURE
			BODINE PROJECT #	DATE	

APPENDIX A

Weekly Operations Logs

TABLE 2
OPERATIONS LOG

Site Name: Jennison-Wright Corporation Superfund Site
Job Number: Bodine 118337
Site Location: 900 West 22nd Street, Granite City, IL

Route originals to: Troy McFate, BESI
CC: Tom Campbell, EEEI
Treatment Plant File

Date: 10/06/10

On arrival was GWOU operating? (Yes) / No

A. GWOU FLOW

A1) Combined Extraction Flowrate	47.0 gpm	Number of HWI Wells Operating	6
A2) Recirculation Flowrate	38/11.5 gpm	Recirculation Pump Running	M-3 / M-4
A3) Calculated Effluent Flowrate 52/38	34.0 gpm	Effluent Pump Running	M-5 / M-6

B. GROUNDWATER EXTRACTION/DISCHARGE SYSTEM

B1) EW01 (M-1)	Operating Status	hand / off / (auto)	B2) EW02 (M-2)	Operating Status	hand / off / (auto)
Flow 23.5 gpm	Temperature	62° °F	Flow 23.5 gpm	Temperature	78 °F
B3) HWI-1	Operating Status	(On) / Off	B4) HWI-2	Operating Status	(On) / Off
Flow 5.7 gpm	Packer Pressure	10.5 psi	Flow 5.7 gpm	Packer Pressure	13 psi
	Temperature	Low X °F		Temperature	Low X °F
		Med ↓ °F			Med ↓ °F
		High °F			High °F
B5) HWI-3	Operating Status	(On) / Off	B6) HWI-4	Operating Status	(On) / Off
Flow 5.7 gpm	Packer Pressure	16 psi	Flow 5.7 gpm	Packer Pressure	11 psi
	Temperature	Low X °F		Temperature	Low X °F
		Med ↓ °F			Med ↓ °F
		High °F			High °F
B7) HWI-5	Operating Status	(On) / Off	B8) HWI-6	Operating Status	(On) / Off
Flow 5.7 gpm	Packer Pressure	14.5 psi	Flow 5.7 gpm	Packer Pressure	14 psi
	Temperature	Low X °F		Temperature	Low X °F
		Med ↓ °F			Med ↓ °F
		High °F			High °F

Comments/Notes

C. GROUNDWATER TREATMENT SYSTEM

1) Pumps

Recirc. Pump (M-3)	Operating Status	hand / off / auto	
Recirc. Pump (M-4)	Operating Status	hand / off / auto	
	Pressure	?	psi
Effluent Pump (M-5)	Operating Status	hand / off / auto	
Effluent Pump (M-6)	Operating Status	hand / off / auto	
	Pressure	48.5	psi
Heat Exchanger Pump	Operating Status	hand / off / auto	
	Pressure	49.5	psi
	Pressure	70.5	psi

GAUGE NOT OPERATING

SUC
DIS

2) Thermometers

From Feed Tank	66.2 °F
IN Heat Exchanger	126.3 °F
OUT Heat Exchanger	140.0 °F
To Wellfield	134.9 °F

STEAM PSI: 6.25

Auto mod: 140°F

3) Pressure

Before Clay	41 psi	Before Carbon	38 psi
After Clay	38 psi	After Carbon	38 psi
Differential	3 psi	Differential	0 psi

4) Effluent Totalizer

Meter Reading	2,112,590 gallons
Time Read	11:50PM

12:30 P.M.

E. SAMPLE COLLECTION DATA

Example Sample Designation: Location - Date_mmddyy - GWOUA003000

Location	Analyte	Identification	Sample Collected
Influent	Oil and grease (O&G)	GWOUA	Yes / No
Influent	Semi-volatile organics (SVOCs)	GWOUA	Yes / No
Separator	O&G	GWOUB	Yes / No
Separator	Total suspended solids (TSS)	GWOUB	Yes / No
Separator	pH	GWOUB	Yes / No
Effluent	TSS	GWOUE	Yes / No
Effluent	Arsenic (As)	GWOUE	Yes / No
Effluent	Biochemical O2 demand (BOD)	GWOUE	Yes / No
Effluent	SVOCs	GWOUE	Yes / No
Effluent	pH	GWOUE	Yes / No
Effluent	Temperature	GWOUE	Yes / No

D. BUILDING SYSTEMS

1) Building Sump Level Switch	Clear of Debris	Yes / No
	Empty sump	Yes / No
2) Vapor Phase Blower	Operating Correctly?	Yes / No
4) Building Exhaust Fan	Operating Correctly?	Yes / No
5) Building Louver	Clear of debris	Yes / No
7) Piping and valves	Inspect	Yes / No
8) Building Interior Lights	Operational?	Yes / No
9) Building Exterior Lights	Operational?	Yes / No
10) Building Temperature		78 °F
11) Outdoor Temperature		70 °F
12) DNAPL Solenoid	Status	hand / off / auto
13) Potable Water Solenoid	Status	hand / off / auto

General Comments: INFLUENT BAG FILTERS

A: 46/43 B: 48/47

BOILER BLOW DOWN UPON ARRIVAL

Date: 10/06/10

Operator:

Signature: [signature]

Groundwater Elevations and Temperature
Jennison Wright NPL Site
Granite City, Illinois
Bodine Project Number 119386-10

Well ID	Date	Temperature (F)	Depth to Water (Feet bgs)
MW5S	10/06/10	104.4	16.62
MW5D		71.4	15.40
MW20		81.9	17.35
MW21		95.4	16.15 20.17
MW22		108.9	16.89
MW23		118.4	16.84

Notes:
Feet bgs = Feet below ground surface

- STEAM PSI @ 7.5
- TEMP READINGS @ 30' BGS

MW21 H2O - 20.17
LNAPL - 16.15

TABLE 2
OPERATIONS LOG

Site Name: Jennison-Wright Corporation Superfund Site
Job Number: Bodine 118937
Site Location: 900 West 22nd Street, Granite City, IL

Route originals to: Troy McFeta, BESI
CC: Tom Campbell, BEEI
Treatment Plant File

Date: 10/8/10

On arrival was GWOU operating? (Yes) / No

A. GWOU FLOW

A1) Combined Extraction Flowrate: 50 gpm
A2) Recirculation Flowrate: 39 | 11.5 gpm
A3) Calculated Effluent Flowrate: 41 gpm

Number of HWI Wells Operating: 6
Recirculation Pump Running: (M-3) / M-4
Effluent Pump Running: M-5 / M-6

B. GROUNDWATER EXTRACTION/DISCHARGE SYSTEM

B1) SWO1 (M-1)
Flow: 25.0 gpm
Operating Status: hand / off / (auto)
Temperature: 62 °F

B2) SWO2 (M-2)
Flow: 25.0 gpm
Operating Status: hand / off / (auto)
Temperature: 79 °F

B3) HWI-1
Flow: 6.7 gpm
Operating Status: (On) / Off
Packer Pressure: 10.5 psi
Temperature: Low X °F; Med ↓ °F; High °F

B4) HWI-2
Flow: 6.7 gpm
Operating Status: (On) / Off
Packer Pressure: 13.0 psi
Temperature: Low X °F; Med ↓ °F; High °F

B5) HWI-3
Flow: 6.7 gpm
Operating Status: (On) / Off
Packer Pressure: 16.0 psi
Temperature: Low X °F; Med ↓ °F; High °F

B6) HWI-4
Flow: 6.7 gpm
Operating Status: (On) / Off
Packer Pressure: 11 psi
Temperature: Low X °F; Med ↓ °F; High °F

B7) HWI-5
Flow: 6.7 gpm
Operating Status: (On) / Off
Packer Pressure: 14.5 psi
Temperature: Low X °F; Med ↓ °F; High °F

B8) HWI-6
Flow: 6.7 gpm
Operating Status: (On) / Off
Packer Pressure: 13.5 psi
Temperature: Low X °F; Med ↓ °F; High °F

Comments/Notes

C. GROUNDWATER TREATMENT SYSTEM

1) Pumps

Recirc. Pump (M-3)	Operating Status	hand / off / auto	
Recirc. Pump (M-4)	Operating Status	hand / off / auto	
6 Avge Broken	Pressure	?	psi
Effluent Pump (M-5)	Operating Status	hand / off / auto	
Effluent Pump (M-6)	Operating Status	hand / off / auto	
	Pressure	47.5	psi
Heat Exchanger Pump	Operating Status	hand / off / auto	
Auto Mod: 140°F	Suc. Pressure	47.5	psi
	Dis Pressure	65.0	PSI

2) Thermometers

From Feed Tank	65.4	°F
IN Heat Exchanger	149.1	°F
OUT Heat Exchanger	147.7	°F
To Wellfield	131.5	°F

Strain Pressure .5 psi

3) Pressure

Before Clay	42 psi	Before Carbon	38.5 psi
After Clay	39 psi	After Carbon	38.5 psi
Differential	3 psi	Differential	0 psi

4) Effluent Totalizer

Meter Reading	2,131,466 gallons
Time Read	11:56PM

@ 8:15AM

E. SAMPLE COLLECTION DATA

Example Sample Designation: <Location><Date_mmddyy> GWOUA083000

Location	Analyte	Identification	Sample Collected
Influent	Oil and grease (O&G)	GWOUA	Yes / No
Influent	Semi-volatile organics (SVOCs)	GWOUA	Yes / No
Separator	O&G	GWOUE	Yes / No
Separator	Total suspended solids (TSS)	GWOUE	Yes / No
Separator	pH	GWOUE	Yes / No
Effluent	TSS	GWOUE	Yes / No
Effluent	Arsenic (As)	GWOUE	Yes / No
Effluent	Biochemical O2 demand (BOD)	GWOUE	Yes / No
Effluent	SVOCs	GWOUE	Yes / No
Effluent	pH	GWOUE	Yes / No
Effluent	Temperature	GWOUE	Yes / No

D. BUILDING SYSTEMS

1) Building Sump Level Switch	Clear of Debris	Yes / No
	Empty sump	Yes / No
2) Vapor Phase Blower	Operating Correctly?	Yes / No
4) Building Exhaust Fan	Operating Correctly?	Yes / No
5) Building Louver	Clear of debris	Yes / No
7) Piping and valves	Inspect	Yes / No
8) Building Interior Lights	Operational?	Yes / No
9) Building Exterior Lights	Operational?	Yes / No
10) Building Temperature		74 °F
11) Outdoor Temperature		50 °F
12) DNAPL Solenoid	Status	hand / off / auto
13) Potable Water Solenoid	Status	hand / off / auto

General Comments: Influent Bag filters

A: 46/45 B: 47/47

Date: 10/8/10

Operator:

Signature: [signature]

Groundwater Elevations and Temperature
Jennison Wright NPL Site
Granite City, Illinois
Bodine Project Number 119386-10

Well ID	Date	Temperature (F)	Depth to Water (Feet bgs)
MW5S	10/9/10	104.0	16.75
MW5D		69.5	15.54
MW20		78.1	17.47
MW21		94.0	16.67 LNAPL 21.15 H2O
MW22		106.9	17.07
MW23		116.5	16.95

Notes:
Feet bgs = Feet below ground surface

Temps collected @ 30' BGS

MW 21 - LNAPL 16.27
H2O 21.15

After startup @ 5:30 P.M 10/8/10

Groundwater Elevations and Temperature
Jennison Wright NPL Site
Granite City, Illinois
Bodine Project Number 119386-10

Well ID	Date	Temperature (F)	Depth to Water (Feet bgs)
MW5S	10/11/10	10.49	16.66
MW5D		68.6	15.46
MW20		80.5	17.39
MW21		95.9	16.2 - LNAPL 20.8 - H_2O
MW23		118.1	16.88
MW22		108.5	108.5 16.93

Notes:
Feet bgs = Feet below ground surface

TEMPS collected @ 30' BGS.

MW21 : LNAPL : 16.2
H_2O : 20.8

TABLE 2
OPERATIONS LOG

Site Name: Jennison-Wright Corporation Superfund Site
Job Number: Bodine 118337
Site Location: 000 West 22nd Street, Granite City, IL

Route originals to: Troy McFate, BESI
CC: Tom Campbell, BEEI
Treatment Plant File

Date: 10/11/10

On arrival was GWCU operating? (Yes) / No

A. GWCU FLOW

A1) Combined Extraction Flowrate: 49 gpm
A2) Recirculation Flowrate: 38 / 11.5 gpm
A3) Calculated Effluent Flowrate: 38 gpm

Number of HWI Wells Operating: 6
Recirculation Pump Running: M-3 / (M-1)
Effluent Pump Running: (M-5) / M-6

B. GROUNDWATER EXTRACTION/DISCHARGE SYSTEM

B1) EW01 (M-1)
Flow: 24.5 gpm
Operating Status: hand / off / (auto)
Temperature: 62 °F

B2) EW02 (M-2)
Flow: 24.5 gpm
Operating Status: hand / off / (auto)
Temperature: 80 °F

B3) HWI-1
Flow: 6.3 gpm
Operating Status: (On) / Off
Packer Pressure: 10 psi
Temperature: Low X °F; Med ___ °F; High ___ °F

B4) HWI-2
Flow: 6.3 gpm
Operating Status: (On) / Off
Packer Pressure: 13 psi
Temperature: Low X °F; Med ___ °F; High ___ °F

B5) HWI-3
Flow: 6.3 gpm
Operating Status: (On) / Off
Packer Pressure: 16 psi
Temperature: Low X °F; Med ___ °F; High ___ °F

B6) HWI-4
Flow: 6.3 gpm
Operating Status: (On) / Off
Packer Pressure: 11 psi
Temperature: Low X °F; Med ___ °F; High ___ °F

B7) HWI-5
Flow: 6.3 gpm
Operating Status: (On) / Off
Packer Pressure: 14.8 psi
Temperature: Low X °F; Med ___ °F; High ___ °F

B8) HWI-6
Flow: 6.3 gpm
Operating Status: (On) / Off
Packer Pressure: 14 psi
Temperature: Low X °F; Med ___ °F; High ___ °F

Comments/Notes: Flow Meters Not installed and/or Broken. Estimate Flow.

C. GROUNDWATER TREATMENT SYSTEM

1) Pumps

Recirc. Pump (M-3)	Operating Status	hand / off / auto	
Recirc. Pump (M-4)	Operating Status	hand / off / auto	
	Pressure	?	psi
Effluent Pump (M-5)	Operating Status	hand / off / auto	
Effluent Pump (M-6)	Operating Status	hand / off / auto	
	Pressure	48	psi
Heat Exchanger Pump	Operating Status	hand / off / auto	
	Suc Pressure	47	psi
	Dis Pressure	67	PSI

6 Aug Broken.

2) Thermometers

From Feed Tank	66.7	°F
IN Heat Exchanger	144.1	°F
OUT Heat Exchanger	158.1	°F
To Wellfield	149.1	°F

Auto MOD: 140°F

STEAM PSI: .5 PSI

3) Pressure

Before Clay	40 psi	Before Carbon	37 psi
After Clay	37 psi	After Carbon	37 psi
Differential	3 psi	Differential	Ø psi

4) Effluent Totalizer

Meter Reading	2,173,460 gallons
Time Read	11.5 GPM

12:41 P.M.

D. BUILDING SYSTEMS

1) Building Sump Level Switch	Clear of Debris	Yes / No
	Empty sump	Yes / No
3) Vapor Phase Blower	Operating Correctly?	Yes / No
4) Building Exhaust Fan	Operating Correctly?	Yes / No
5) Building Louver	Clear of debris	Yes / No
7) Piping and valves	Inspect	Yes / No
8) Building Interior Lights	Operational?	Yes / No
9) Building Exterior Lights	Operational?	Yes / No
10) Building Temperature		85 °F
11) Outdoor Temperature		83 °F
12) DNAPL Solenoid	Status	hand / off / auto
13) Potable Water Solenoid	Status	hand / off / auto

General Comments INFLUENT BAG Filters

A: 45 / B: 42

- BLEW DOWN BOILER

Date: 10/11/2010

Operator:

Signature: [signature]

E. SAMPLE COLLECTION DATA

Example Sample Designation: <Location><Date_mmddyy> GWOUA003000

Location	Analyte	Identification	Sample Collected
Influent	Oil and grease (O&G)	GWOUA	Yes / No
Influent	Semi-volatile organics (SVOCs)	GWOUA	Yes / No
Separator	O&G	GWOUB	Yes / No
Separator	Total suspended solids (TSS)	GWOUB	Yes / No
Separator	pH	GWOUB	Yes / No
Effluent	TSS	GWOUE	Yes / No
Effluent	Arsenic (As)	GWOUE	Yes / No
Effluent	Biochemical O2 demand (BOD)	GWOUE	Yes / No
Effluent	SVOCs	GWOUE	Yes / No
Effluent	pH	GWOUE	Yes / No
Effluent	Temperature	GWOUE	Yes / No

TABLE 2
OPERATIONS LOG

Site Name: Jennison-Wright Corporation Superfund Site
Job Number: Bodine 118037
Site Location: 900 West 22nd Street, Granite City, IL

Route originals to: Troy McFate, BESI
CC: Tom Campbell, BESI
Treatment Plant File

Date: 10/12/10

On arrival was GWOU operating? Yes / No

A. GWOU FLOW

A1) Combined Extraction Flowrate	49.0	gpm	Number of HWI Wells Operating	6
A2) Recirculation Flowrate	38 ~~[illegible]~~ 11.5	gpm	Recirculation Pump Running	~~M-6~~ / M-4
A3) Calculated Effluent Flowrate	39	gpm	Effluent Pump Running	M-5 / M-6

B. GROUNDWATER EXTRACTION/DISCHARGE SYSTEM

B1) EW01 (M-1)	Operating Status	hand / off / auto	B2) EW02 (M-2)	Operating Status	hand / off / auto
Flow 24.5 gpm	Temperature	62 °F	Flow 24.5 gpm	Temperature	80 °F
B3) HWI-1	Operating Status	On / Off	B4) HWI-2	Operating Status	On / Off
Flow 6.7 gpm	Packer Pressure	9.5 psi	Flow 6.7 gpm	Packer Pressure	13 psi
	Temperature	Low X °F		Temperature	Low X °F
		Med ↓ °F			Med ↓ °F
		High °F			High °F
B5) HWI-3	Operating Status	On / Off	B6) HWI-4	Operating Status	On / Off
Flow 6.7 gpm	Packer Pressure	16 psi	Flow 6.7 gpm	Packer Pressure	10 psi
	Temperature	Low X °F		Temperature	Low X °F
		Med ↓ °F			Med ↓ °F
		High °F			High °F
B7) HWI-5	Operating Status	On / Off	B8) HWI-6	Operating Status	On / Off
Flow 6.7 gpm	Packer Pressure	14.5 psi	Flow 6.7 gpm	Packer Pressure	13.5 psi
	Temperature	Low X °F		Temperature	Low X °F
		Med ↓ °F			Med ↓ °F
		High °F			High °F

Comments/Notes

C. GROUNDWATER TREATMENT SYSTEM

1) Pumps	Recirc. Pump (M-3)	Operating Status	hand / off / auto
	Recirc. Pump (M-4)	Operating Status	hand / off / auto
Gauge Broken		Pressure	? psi
	Effluent Pump (M-5)	Operating Status	hand / off / auto
	Effluent Pump (M-6)	Operating Status	hand / off / auto
		Pressure	45 psi
	Heat Exchanger Pump	Operating Status	hand / off / auto
	Suction	Pressure	49 psi
	Discharge	Pressure	69 psi
2) Thermometers		From Feed Tank	66.5 °F
Steam PSI: 5 PSI		IN Heat Exchanger	130.4 °F
Auto Mod 140°		OUT Heat Exchanger	149.4 °F
		To Wellfield	142.1 °F
3) Pressure	Before Clay	35 psi	Before Carbon 31 psi
	After Clay	32 psi	After Carbon 31 psi
	Differential	3 psi	Differential 0 psi
4) Effluent Totalizer	Meter Reading	2,184,270 gallons	
	Time Read	11.5 GPM	

E. SAMPLE COLLECTION DATA

6:15 AM

Location	Analyte	Identification	Sample Collected
Influent	Oil and grease (O&G)	GWOUA	Yes / No
Influent	Semi-volatile organics (SVOCs)	GWOUA	Yes / No
Separator	O&G	GWOUB	Yes / No
Separator	Total suspended solids (TSS)	GWOUB	Yes / No
Separator	pH	GWOUB	Yes / No
Effluent	TSS	GWOUE	Yes / No
Effluent	Arsenic (As)	GWOUE	Yes / No
Effluent	Biochemical O2 demand (BOD)	GWOUE	Yes / No
Effluent	SVOCs	GWOUE	Yes / No
Effluent	pH	GWOUE	Yes / No
Effluent	Temperature	GWOUE	Yes / No

D. BUILDING SYSTEMS

1) Building Sump Level Switch	Clear of Debris	Yes / No
	Empty sump	Yes / No
2) Vapor Phase Blower	Operating Correctly?	Yes / No
4) Building Exhaust Fan	Operating Correctly?	Yes / No
6) Building Louver	Clear of debris	Yes / No
7) Piping and valves	Intact	Yes / No
8) Building Interior Lights	Operational?	Yes / No
9) Building Exterior Lights	Operational?	Yes / No
10) Building Temperature		75 °F
11) Outdoor Temperature		57 °F
12) DNAPL Solenoid	Status	hand / off / auto
13) Potable Water Solenoid	Status	hand / off / auto

General Comments: Inflow Bag Filters

A: 42/36

B: 45/35

Changed Filter Bags

Date: 10/12/10

Operator:

Signature:

Groundwater Elevations and Temperature
Jennison Wright NPL Site
Granite City, Illinois
Bodine Project Number 119386-10

Well ID	Date	Temperature (F)	Depth to Water (Feet bgs)
MW5S	10/14/10	108.0	16.78
MW5D		72.4	15.42
MW20		82.5	17.48
MW21		92.5	16.29 / 20.72
MW22		113.0	16.99
MW23		119.2	16.92

Notes:
Feet bgs = Feet below ground surface

ALL TEMPS @ 30' BGS

MW 21: LNAPL 16.29
H2O 20.72

5D: BEGINNING TO SHOW SIGNS OF LNAPL

TABLE 2
OPERATIONS LOG

Site Name: Jennison-Wright Corporation Superfund Site
Job Number: Bading 118997
Site Location: 900 West 22nd Street, Granite City, IL

Route originals to: Troy McFate, BESI
CC: Tom Campbell, BEEI
Treatment Plant File

Date: 10/14/2010

On arrival was GWOU operating? (Yes) / No

A. GWOU FLOW

A1) Combined Extraction Flowrate: 49 gpm
A2) Recirculation Flowrate: 38/11 gpm
A3) Calculated Effluent Flowrate: 40 gpm

Number of HWI Wells Operating: 6
Recirculation Pump Running: (M-3) / M-4
Effluent Pump Running: M-5 / (M-6)

B. GROUNDWATER EXTRACTION/DISCHARGE SYSTEM

B1) EW01 (M-1)
Flow: 24.5 gpm
Operating Status: hand / off / (auto)
Temperature: 67 °F

B2) EW02 (M-2)
Flow: 24.5 gpm
Operating Status: hand / off / (auto)
Temperature: 81 °F

B3) HWI-1
Flow: 6.7 gpm
Operating Status: (On) / Off
Packer Pressure: 9 psi
Temperature: Low X °F; Med ↓ °F; High ↓ °F

B4) HWI-2
Flow: 6.7 gpm
Operating Status: (On) / Off
Packer Pressure: 13 psi
Temperature: Low X °F; Med ↓ °F; High ↓ °F

B5) HWI-3
Flow: 6.7 gpm
Operating Status: (On) / Off
Packer Pressure: 16 psi
Temperature: Low X °F; Med ↓ °F; High ↓ °F

B6) HWI-4
Flow: 6.7 gpm
Operating Status: (On) / Off
Packer Pressure: 10/15 psi
Temperature: Low X °F; Med ↓ °F; High ↓ °F

B7) HWI-5
Flow: 6.7 gpm
Operating Status: On / (Off)
Packer Pressure: 14.5 psi
Temperature: Low X °F; Med ↓ °F; High ↓ °F

B8) HWI-6
Flow: 6.7 gpm
Operating Status: (On) / Off
Packer Pressure: 13.25 psi
Temperature: Low X °F; Med ↓ °F; High ↓ °F

Comments/Notes: - Flow meters removed. Estimated amount of flow to each well
- Removed mechanical flow meters in extraction wells as they may be restricting flow. (*) - Filled to 15psi.

C. GROUNDWATER TREATMENT SYSTEM

1) Pumps

Recirc. Pump (M-3)	Operating Status	hand / off / auto	
Recirc. Pump (M-4)	Operating Status	hand / off / auto	
Gauge Broken	Pressure	?	psi
Effluent Pump (M-5)	Operating Status	hand / off / auto	
Effluent Pump (M-6)	Operating Status	hand / off / auto	
	Pressure	46	psi
Heat Exchanger Pump	Operating Status	hand / off / auto	
SUC	Pressure	49	psi
DIS	Pressure	70	psi

2) Thermometers

Auto MOD: 140°

STEAM: 1 PSI

From Feed Tank	66.2 °F
IN Heat Exchanger	127.2 °F
OUT Heat Exchanger	141.2 °F
To Wellfield	137.2 °F

3) Pressure

Before Clay	38 psi	Before Carbon	34 psi
After Clay	35 psi	After Carbon	34 psi
Differential	3 psi	Differential	0 psi

4) Effluent Totalizer

Meter Reading	11.5 GPM gallons
Time Read	2,211,770

9:25AM

E. SAMPLE COLLECTION DATA

Example Sample Designation: <Location><Date_mmddyy> GWOUA063000

Location	Analyte	Identification	Sample Collected
Influent	Oil and grease (O&G)	GWOUA	Yes / No
Influent	Semi-volatile organics (SVOCs)	GWOUA	Yes / No
Separator	O&G	GWOUE	Yes / No
Separator	Total suspended solids (TSS)	GWOUE	Yes / No
Separator	pH	GWOUE	Yes / No
Effluent	TSS	GWOUE	Yes / No
Effluent	Arsenic (As)	GWOUE	Yes / No
Effluent	Biochemical O2 demand (BOD)	GWOUE	Yes / No
Effluent	SVOCs	GWOUE	Yes / No
Effluent	pH	GWOUE	Yes / No
Effluent	Temperature	GWOUE	Yes / No

D. BUILDING SYSTEMS

1) Building Sump Level Switch	Clear of Debris	Yes / No
	Empty sump	Yes / No
3) Vapor Phase Blower	Operating Correctly?	Yes / No
4) Building Exhaust Fan	Operating Correctly?	Yes / No
5) Building Louver	Clear of debris	Yes / No
7) Piping and valves	Inspect	Yes / No
8) Building Interior Lights	Operational?	Yes / No
9) Building Exterior Lights	Operational?	Yes / No
10) Building Temperature		76 °F
11) Outdoor Temperature		53 °F
12) DNAPL Solenoid	Status	hand / off / auto
13) Potable Water Solenoid	Status	hand / off / auto

General Comments: INFLUENT GAS FILTERS

A: 45/40

B: 45/43

Sampled system on 10/13/2010

Date: 10/14/2010

Operator:

Signature: [signature]

TABLE 2
OPERATIONS LOG

Site Name: Jennison-Wright Corporation Superfund Site
Job Number: Bedine 118937
Site Location: 000 West 22nd Street, Granite City, IL

Route originals to: Troy McFate, BEST
CC: Tom Campbell, BEEI
Treatment Plant File

Date: 10/21/10

On arrival was GWOU operating? (Yes) / No

A. GWOU FLOW

A1) Combined Extraction Flowrate: 49.5 gpm
A2) Recirculation Flowrate: 39.0 gpm
A3) Calculated Effluent Flowrate: 10.5 gpm

Number of HWI Wells Operating: 6
Recirculation Pump Running: M-3 / (M-4)
Effluent Pump Running: (M-5) / M-6

B. GROUNDWATER EXTRACTION/DISCHARGE SYSTEM

B1) EW01 (M-1)
Operating Status: hand / off / (auto)
Flow: 24.5 gpm
Temperature: 63 °F

B2) EW02 (M-2)
Operating Status: hand / off / auto
Flow: 25 gpm
Temperature: 81 °F

B3) HWI-1
Operating Status: (On) / Off
Flow: 6.7 gpm
Packer Pressure: 14 psi
Temperature: Low ✗ °F; Med ✗ °F; High ✗ °F

B4) HWI-2
Operating Status: (On) / Off
Flow: 6.7 gpm
Packer Pressure: 13 psi
Temperature: Low ✗ °F; Med ✗ °F; High ✗ °F

B5) HWI-3
Operating Status: (On) / Off
Flow: 6.7 gpm
Packer Pressure: 1.6 psi
Temperature: Low ✗ °F; Med ✗ °F; High ✗ °F

B6) HWI-4
Operating Status: (On) / Off
Flow: 6.7 gpm
Packer Pressure: 15 psi
Temperature: Low ✗ °F; Med ✗ °F; High ✗ °F

B7) HWI-5
Operating Status: (On) / Off
Flow: 6.7 gpm
Packer Pressure: 15 psi
Temperature: Low ✗ °F; Med ✗ °F; High ✗ °F

B8) HWI-6
Operating Status: (On) / Off
Flow: 6.7 gpm
Packer Pressure: 14 psi
Temperature: Low ✗ °F; Med ✗ °F; High ✗ °F

Comments/Notes

C. GROUNDWATER TREATMENT SYSTEM

1) Pumps	Recirc. Pump (M-3)	Operating Status	hand / off / (auto)
	Recirc. Pump (M-4)	Operating Status	hand / off / (auto)
		Pressure	7 psi
	Effluent Pump (M-5)	Operating Status	hand / off / (auto)
	Effluent Pump (M-6)	Operating Status	hand / off / (auto)
		Pressure	47 psi
	Heat Exchanger Pump	Operating Status	hand / off / (auto)
		Pressure	SUC 46 psi; DIS 62
2) Thermometers		From Feed Tank	67.6 °F
		IN Heat Exchanger	137.9 °F
		OUT Heat Exchanger	160.3 °F
		To Wellfield	153.3 °F
3) Pressure		Before Clay	42 psi
		After Clay	39 psi
		Differential	3 psi
		Before Carbon	38 psi
		After Carbon	38 psi
		Differential	0 psi
4) Effluent Totalizer		Meter Reading	2293460 gallons
		Time Read	11:20

D. BUILDING SYSTEMS

1) Building Sump Level Switch	Clear of Debris	(Yes) / No
	Empty sump	(Yes) / No
2) Vapor Phase Blower	Operating Correctly?	(Yes) / No
4) Building Exhaust Fan	Operating Correctly?	(Yes) / No
5) Building Louver	Clear of debris	(Yes) / No
7) Piping and valves	Intact	(Yes) / No
8) Building Interior Lights	Operational?	(Yes) / No
9) Building Exterior Lights	Operational?	(Yes) / No
10) Building Temperature		71 °F
11) Outdoor Temperature		60 °F
12) DNAPL Solenoid	Status	hand / off / auto
13) Potable Water Solenoid	Status	hand / off / (auto)

General Comments: CHANGED BAG FILTERS + CLEANED SYSTEM

E. SAMPLE COLLECTION DATA

Example Sample Designation Location-Date mmddyy GWOUA003000

Location	Analyte	Identification	Sample Collected
Influent	Oil and grease (O&G)	GWOUA	Yes / (No)
Influent	Semi-volatile organics (SVOCs)	GWOUA	Yes / No
Separator	O&G	GWOUB	Yes / No
Separator	Total suspended solids (TSS)	GWOUB	Yes / No
Separator	pH	GWOUB	Yes / No
Effluent	TSS	GWOUE	Yes / No
Effluent	Arsenic (As)	GWOUE	Yes / No
Effluent	Biochemical O2 demand (BOD)	GWOUE	Yes / No
Effluent	SVOCs	GWOUE	Yes / No
Effluent	pH	GWOUE	Yes / No
Effluent	Temperature	GWOUE	Yes / No

Date: 10/20/10

Operator:

Signature: [illegible]

Groundwater Elevations and Temperature
Jennison Wright NPL Site
Granite City, Illinois
Bodine Project Number 119386-10

Well ID	Date	Temperature (F)	Depth to Water (Feet bgs)
MW5S	10/20/10	109.4	16.69
MW5D		71.4	15.41
MW20		85.5	17.48
MW21		96.7	16.15 20.71
MW22		115.6	17.22
MW23		117.2	16.84

Notes:
Feet bgs = Feet below ground surface

ALL TEMPS @ 30' BGS
MW 21 : LNAPL 16.15
H2O 20.71

TABLE 2
OPERATIONS LOG

Site Name: Jennison-Wright Corporation Superfund Site
Job Number: Bodine 118037
Site Location: 900 West 22nd Street, Granite City, IL

Route originals to: Troy McFate, BESI
CC: Tom Campbell, BEEI
Treatment Plant File

Date: 10/28/10

On arrival was GWCU operating? Yes / No

A. GWCU FLOW

A1) Combined Extraction Flowrate	50 gpm	Number of HWI Wells Operating	6
A2) Recirculation Flowrate	38.5/115 gpm	Recirculation Pump Running	M-3 / M-4
A3) Calculated Effluent Flowrate	40 gpm	Effluent Pump Running	M-5 / M-6

B. GROUNDWATER EXTRACTION/DISCHARGE SYSTEM

B1) EW01 (M-1)	Operating Status	hand / off / auto	B2) EW02 (M-2)	Operating Status	hand / off / auto
Flow 25 gpm	Temperature	62 °F	Flow 25 gpm	Temperature	74 °F
B3) HWI-1	Operating Status	On / Off	B4) HWI-2	Operating Status	On / Off
Flow 6.7 gpm	Packer Pressure	9.75 psi	Flow 6.7 gpm	Packer Pressure	16 psi
	Temperature	Low X °F		Temperature	Low X °F
		Med ↓ °F			Med ↓ °F
		High ↓ °F			High ↓ °F
B5) HWI-3	Operating Status	On / Off	B6) HWI-4	Operating Status	On / Off
Flow 6.7 gpm	Packer Pressure	13.5 psi	Flow 6.7 gpm	Packer Pressure	5.5 psi
	Temperature	Low X °F		Temperature	Low X °F
		Med ↓ °F			Med ↓ °F
		High ↓ °F			High ↓ °F
B7) HWI-5	Operating Status	On / Off	B8) HWI-6	Operating Status	On / Off
Flow 6.7 gpm	Packer Pressure	14.5 psi	Flow 6.7 gpm	Packer Pressure	12.5 psi
	Temperature	Low X °F		Temperature	Low X °F
		Med ↓ °F			Med ↓ °F
		High ↓ °F			High ↓ °F

Comments/Notes: Filled #1 9.75 - 16
#4 5.5 ~~[illegible]~~ will not fill past 5.5 Well Bubbles when Air is applied

C. GROUNDWATER TREATMENT SYSTEM

1) Pumps

Recirc. Pump (M-3)	Operating Status	hand / off / auto	
Recirc. Pump (M-4)	Operating Status	hand / off / auto	
GAUGE BROKEN	Pressure	?	psi
Effluent Pump (M-5)	Operating Status	hand / off / auto	
Effluent Pump (M-6)	Operating Status	hand / off / auto	
	Pressure	47.5	psi
Heat Exchanger Pump	Operating Status	hand / off / auto	
Suc	Pressure	49	psi
Dis	Pressure	70	psi

2) Thermometers

	From Feed Tank	66.7 °F
AUTO MOD 140°F	IN Heat Exchanger	132.2 °F
	OUT Heat Exchanger	146.8 °F
STEAM Pressure 0.5 PSI	To Wellfield	139.4 °F

3) Pressure

Before Clay	42 psi	Before Carbon	38 psi
After Clay	39 psi	After Carbon	38 psi
Differential	3 psi	Differential	Ø psi

4) Effluent Totalizer

Meter Reading	2,386,290 gallons
Time Read	11.5 GPM

D. BUILDING SYSTEMS

1) Building Sump Level Switch	Clear of Debris	Yes / No
	Empty sump	Yes / No
2) Vapor Phase Blower	Operating Correctly?	Yes / No
4) Building Exhaust Fan	Operating Correctly?	Yes / No
5) Building Louver	Clear of debris	Yes / No
7) Piping and valves	Impact	Yes / No
8) Building Interior Lights	Operational?	Yes / No
9) Building Exterior Lights	Operational?	Yes / No
10) Building Temperature		72 °F
11) Outdoor Temperature		45 °F
12) DNAPL Solenoid	Status	hand / off / auto
13) Potable Water Solenoid	Status	hand / off / auto

General Comments: INFLUENT Bag Filter

A: 46/45 B: 47/47

Changed BAGS TODAY / Blow Boiler Down

Date: 10/28/10

Operator:

Signature: [signature]

E. SAMPLE COLLECTION DATA

Example Sample Designation: Location-Date_mmddyy GWOUA003000

Location	Analyte	Identification	Sample Collected
Influent	Oil and grease (O&G)	GWOUA	Yes / No
Influent	Semi-volatile organics (SVOCs)	GWOUA	Yes / No
Separator	O&G	GWOUB	Yes / No
Separator	Total suspended solids (TSS)	GWOUB	Yes / No
Separator	pH	GWOUB	Yes / No
Effluent	TSS	GWOUE	Yes / No
Effluent	Arsenic (As)	GWOUE	Yes / No
Effluent	Biochemical O2 demand (BOD)	GWOUE	Yes / No
Effluent	SVOCs	GWOUE	Yes / No
Effluent	pH	GWOUE	Yes / No
Effluent	Temperature	GWOUE	Yes / No

Groundwater Elevations and Temperature
Jennison Wright NPL Site
Granite City, Illinois
Bodine Project Number 119386-10

Well ID	Date	Temperature (F)	Depth to Water (Feet bgs)
MW5S	10/28/16	110.5	16.82
MW5D		71.7	15.63
MW20		82.6	17.58
MW21		95.9	20.98 / 16.39
MW22		115.0	17.09
MW23		119.7	17.05

Notes:
Feet bgs = Feet below ground surface

TEMPS Collected @ 30' BGS

(MW 21) LNAPL 16.39
H2O 20.98

TABLE 2
OPERATIONS LOG

Site Name: Jennison-Wright Corporation Superfund Site
Job Number: Bodine 118367
Site Location: 900 West 22nd Street, Granite City, IL

Route originals to: Troy McFate, BESI
CC: Tom Campbell, BEEI
Treatment Plant File

Date: 11-4-10

On arrival was GWCU operating? Yes / No

A. GWCU FLOW

A1) Combined Extraction Flowrate 48 gpm
A2) Recirculation Flowrate 38 gpm
A3) Calculated Effluent Flowrate 35 gpm

Number of HWI Wells Operating 6
Recirculation Pump Running M-3 / M-4
Effluent Pump Running M-5 / M-6

B. GROUNDWATER EXTRACTION/DISCHARGE SYSTEM

B1) EW01 (M-1) Operating Status hand / off / auto
Flow 25 gpm
Temperature °F

B2) EW02 (M-2) Operating Status hand / off / auto
Flow 25 gpm
Temperature °F

B3) HWI-1 Operating Status On / Off
Flow 6.7 gpm
Packer Pressure psi
Temperature Low °F Med °F High °F

B4) HWI-2 Operating Status On / Off
Flow 6.7 gpm
Packer Pressure psi
Temperature Low °F Med °F High °F

B5) HWI-3 Operating Status On / Off
Flow 6.7 gpm
Packer Pressure psi
Temperature Low °F Med °F High °F

B6) HWI-4 Operating Status On / Off
Flow 6.7 gpm
Packer Pressure psi
Temperature Low °F Med °F High °F

B7) HWI-5 Operating Status On / Off
Flow 6.7 gpm
Packer Pressure psi
Temperature Low °F Med °F High °F

B8) HWI-6 Operating Status On / Off
Flow 6.7 gpm
Packer Pressure psi
Temperature Low °F Med °F High °F

Comments/Notes

C. GROUNDWATER TREATMENT SYSTEM

1) Pumps

Recirc. Pump (M-3)	Operating Status	hand / off / auto	
Recirc. Pump (M-4)	Operating Status	hand / off / auto	
	Pressure	?	psi
Effluent Pump (M-5)	Operating Status	hand / off / auto	
Effluent Pump (M-6)	Operating Status	hand / off / auto	
	Pressure	48	psi
Heat Exchanger Pump	Operating Status	hand / off / auto	
	Pressure	22	psi

2) Thermometers

From Feed Tank	67.2	°F
IN Heat Exchanger	126.3	°F
OUT Heat Exchanger	140.3	°F
To Wellfield	134.7	°F

3) Pressure

Before Clay	____ psi	Before Carbon	____ psi
After Clay	____ psi	After Carbon	____ psi
Differential	____ psi	Differential	____ psi

4) Effluent Totalizer

Meter Reading	2479731 gallons
Time Read	11:00

E. SAMPLE COLLECTION DATA

Example Sample Designation: Location: <Date_mmddyy> GWOUA000000

Location	Analyte	Identification	Sample Collected
Influent	Oil and grease (O&G)	GWOUA	Yes / No
Influent	Semi-volatile organics (SVOCs)	~~GWOUA~~	~~Yes~~ / No
Separator	O&G	GWOUE	Yes / No
Eff. ~~Separator~~	Total suspended solids (TSS) CYNANIDE	GWOUE	Yes / No
Eff. ~~Separator~~	pH	GWOUE	Yes / No
Effluent	TSS	GWOUE	Yes / No
Effluent	Arsenic (As)	GWOUE	Yes / No
Effluent	Biochemical O2 demand (BOD)	GWOUE	Yes / No
Effluent	SVOCs	GWOUE	Yes / No
Effluent	pH	GWOUE	Yes / No
Effluent	Temperature	GWOUE	Yes / No
Eff	metals	GWOUE	Yes

D. BUILDING SYSTEMS

1) Building Sump Level Switch	Clear of Debris	Yes / No
	Empty sump	Yes / No
2) Vapor Phase Blower	Operating Correctly?	Yes / No
4) Building Exhaust Fan	Operating Correctly?	Yes / No
5) Building Louver	Clear of debris	Yes / No
7) Piping and valves	Inspect	Yes / No
8) Building Interior Lights	Operational?	Yes / No
9) Building Exterior Lights	Operational?	Yes / No
10) Building Temperature		72 °F
11) Outdoor Temperature		50 °F
12) DNAPL Solenoid	Status	hand / off / auto
13) Potable Water Solenoid	Status	hand / off / auto

General Comments

Date: 11-3-10

Operator: [signature]

Signature: [signature]

Groundwater Elevations and Temperature
Jennison Wright NPL Site
Granite City, Illinois
Bodine Project Number 119386-10

Well ID	Date	Temperature (F)	Depth to Water (Feet bgs)
MW5S	11-5-10	100.7°F	17'
MW5D	11-5-10	72.8°F	15.95"
MW20	11-5-10	92.9°F	17'.75"
MW21	11-5-10	96°F	17'.5" 21'.5"
MW22	11-5-10	18.6°F	17'.2"
MW23	11-5-10	113.1°F	17'.25"

Notes:
Feet bgs = Feet below ground surface

TABLE 2
OPERATIONS LOG

Site Name: Jennison-Wright Corporation Superfund Site
Job Number: Bodine 118037
Site Location: 000 West 22nd Street, Granite City, IL

Route originals to: Troy McFate, BESI
CC: Tom Campbell, BESI
Treatment Plant File

Date: 11-5-10

On arrival was GWOU operating? (Yes) / No

A. GWOU FLOW

A1) Combined Extraction Flowrate: 48 gpm
A2) Recirculation Flowrate: 38 gpm
A3) Calculated Effluent Flowrate: 35 gpm

Number of HWI Wells Operating: 6
Recirculation Pump Running: (M-3) / M-4
Effluent Pump Running: M-5 / (M-6)

B. GROUNDWATER EXTRACTION/DISCHARGE SYSTEM

B1) SW01 (M-1) — Operating Status: hand / off / (auto)
Flow: 25 gpm — Temperature: ____ °F

B2) SW02 (M-2) — Operating Status: hand / off / (auto)
Flow: 25 gpm — Temperature: ____ °F

B3) HWI-1 — Operating Status: (On) / Off
Flow: 6.2 gpm — Packer Pressure: 15 psi — Temperature: Low ____ °F, Med ____ °F, High ____ °F

B4) HWI-2 — Operating Status: (On) / Off
Flow: 6.2 gpm — Packer Pressure: 15 psi — Temperature: Low ____ °F, Med ____ °F, High ____ °F

B5) HWI-3 — Operating Status: (On) / Off
Flow: 6.2 gpm — Packer Pressure: 15 psi — Temperature: Low ____ °F, Med ____ °F, High ____ °F

B6) HWI-4 — Operating Status: (On) / Off
Flow: 6.2 gpm — Packer Pressure: 15 psi — Temperature: Low ____ °F, Med ____ °F, High ____ °F

B7) HWI-5 — Operating Status: (On) / Off
Flow: 6.2 gpm — Packer Pressure: 15 psi — Temperature: Low ____ °F, Med ____ °F, High ____ °F

B8) HWI-6 — Operating Status: (On) / Off
Flow: 6.2 gpm — Packer Pressure: 15 psi — Temperature: Low ____ °F, Med ____ °F, High ____ °F

Comments/Notes: ____

C. GROUNDWATER TREATMENT SYSTEM

1) Pumps

Recirc. Pump (M-3)	Operating Status	hand / off / auto	
Recirc. Pump (M-4)	Operating Status	hand / off / auto	
	Pressure	?	psi
Effluent Pump (M-5)	Operating Status	hand / off / auto	
Effluent Pump (M-6)	Operating Status	hand / off / auto	
	Pressure	48	psi
Heat Exchanger Pump	Operating Status	hand / off / auto	
	Pressure	48 - 47/65 / 18	psi

2) Thermometers

From Feed Tank	66.7	°F
IN Heat Exchanger	158.5	°F
OUT Heat Exchanger	140.3	°F
To Wellfield	149.1	°F

3) Pressure

Before Clay	44 psi	Before Carbon	42 psi
After Clay	44 psi	After Carbon	42 psi
Differential	0 psi	Differential	0 psi

4) Effluent Totalizer

Meter Reading	47 gallons
Time Read	

D. BUILDING SYSTEMS

1) Building Sump Level Switch	Clear of Debris	Yes / No
	Empty sump	Yes / No
2) Vapor Phase Blower	Operating Correctly?	Yes / No
4) Building Exhaust Fan	Operating Correctly?	Yes / No
6) Building Louver	Clear of debris	Yes / No
7) Piping and valves	Inspect	Yes / No
8) Building Interior Lights	Operational?	Yes / No
9) Building Exterior Lights	Operational?	Yes / No
10) Building Temperature		67 °F
11) Outdoor Temperature		40 °F
12) DNAPL Solenoid	Status	hand / off / auto
13) Potable Water Solenoid	Status	hand / off / auto

General Comments

E. SAMPLE COLLECTION DATA

Example Sample Configuration: Location-Date_mmddyy GWOUA003000

Location	Analyte	Identification	Sample Collected
Influent	Oil and grease (O&G)	GWOUA	Yes / No
Influent	Semi-volatile organics (SVOCs)	GWOUA	Yes / No
Separator	O&G	GWOUB	Yes / No
Separator	Total suspended solids (TSS)	GWOUB	Yes / No
Separator	pH	GWOUB	Yes / No
Effluent	TSS	GWOUE	Yes / No
Effluent	Arsenic (As)	GWOUE	Yes / No
Effluent	Biochemical O2 demand (BOD)	GWOUE	Yes / No
Effluent	SVOCs	GWOUE	Yes / No
Effluent	pH	GWOUE	Yes / No
Effluent	Temperature	GWOUE	Yes / No

Date: 11-5-10

Operator: Shelton

Signature: [signature]

TABLE 2
OPERATIONS LOG

Site Name: Jennison-Wright Corporation Superfund Site
Job Number: Bedine 11/8997
Site Location: 900 West 22nd Street, Granite City, IL

Route originals to: Troy McFate, BESI
CC: Tom Campbell, BESI
Treatment Plant File

Date: 11-11-10 Veterans Day

On arrival was GWOU operating? (Yes) / No
Turned on @ 8:00 AM

A. GWOU FLOW

A1) Combined Extraction Flowrate	50.1 gpm	Number of HWI Wells Operating	6
A2) Recirculation Flowrate	39.0/1.0 gpm	Recirculation Pump Running	(M-3) / M-4
A3) Calculated Effluent Flowrate	39.0 gpm	Effluent Pump Running	(M-5) / M-6

B. GROUNDWATER EXTRACTION/DISCHARGE SYSTEM

B1) EW01 (M-1)	Operating Status	hand / off / (auto)	B2) EW02 (M-2)	Operating Status	hand / off / (auto)
Flow 25 gpm	Temperature	63 °F	Flow 25 gpm	Temperature	72 °F
B3) HWI-1	Operating Status	(On) / Off	B4) HWI-2	Operating Status	(On) / Off
Flow 6.5 gpm	Packer Pressure	9.0 psi	Flow 6.5 gpm	Packer Pressure	13.0 psi
	Temperature	Low X °F		Temperature	Low X °F
		Med ↓ °F			Med ↓ °F
		High °F			High °F
B5) HWI-3	Operating Status	(On) / Off	B6) HWI-4	Operating Status	(On) / Off
Flow 6.5 gpm	Packer Pressure	16.0 psi	Flow 6.5 gpm	Packer Pressure	3.0/6.0 psi
	Temperature	Low X °F		Temperature	Low X °F
		Med ↓ °F			Med ↓ °F
		High °F			High °F
B7) HWI-5	Operating Status	(On) / Off	B8) HWI-6	Operating Status	(On) / Off
Flow 6.5 gpm	Packer Pressure	13.5 psi	Flow 6.5 gpm	Packer Pressure	10.0 psi
	Temperature	Low X °F		Temperature	Low X °F
		Med ↓ °F			Med ↓ °F
		High °F			High °F

Comments/Notes: Chemical pump / OK
- Reinflated Packer #4 to 6 PSI
WP Fabs Packer is Not Functioning -

C. GROUNDWATER TREATMENT SYSTEM

1) Pumps

Recirc Pump (M-3)	Operating Status	hand / off / (auto)
Recirc Pump (M-4)	Operating Status	hand / (off) / auto
	Pressure	N/A psi
Effluent Pump (M-5)	Operating Status	hand / off / (auto)
Effluent Pump (M-6)	Operating Status	hand / (off) / auto
	Pressure	47 psi
Heat Exchanger Pump	Operating Status	hand / off / (auto)
	Pressure	48.5 psi
	Suc Pressure	68.5 PSI
	Dis Pressure	

Gauge Broken

2) Thermometers

From Feed Tank	68.5 °F
IN Heat Exchanger	136.4 °F
OUT Heat Exchanger	150.6 °F
To Wellfield	145.4 °F

Auto Mod @ 140°F
Steam PSI:

3) Pressure

Before Clay	41 psi	Before Carbon	40 psi
After Clay	40 psi	After Carbon	40 psi
Differential	1 psi	Differential	0 psi

4) Effluent Totalizer

Meter Reading	1:46 AM 2,541,000 gallons
Time Read	11 GPM

D. BUILDING SYSTEMS

1) Building Sump Level Switch	Clear of Debris	(Yes) / No
	Empty sump	(Yes) / No
2) Vapor Phase Blower	Operating Correctly?	(Yes) / No
4) Building Exhaust Fan	Operating Correctly?	(Yes) / No
5) Building Louver	Clear of debris	(Yes) / No
7) Piping and valves	Intact	(Yes) / No
8) Building Interior Lights	Operational?	(Yes) / No
9) Building Exterior Lights	Operational?	(Yes) / No
10) Building Temperature		78 °F
11) Outdoor Temperature		72 °F
12) DNAPL Solenoid	Status	hand / (off) / auto
13) Potable Water Solenoid	Status	hand / off / (auto)

General Comments: NO GAUGES ON BAG FILTER HOUSING UNITS.

E. SAMPLE COLLECTION DATA

Example Sample Collection Summary - Date, Initials, GWOUA#####

Location	Analyte	Modification	Sample Collected
Influent	Oil and grease (O&G)	GWOUA	Yes / (No)
Influent	Semi-volatile organics (SVOCs)	GWOUA	Yes / No
Separator	O&G	GWOUB	Yes / No
Separator	Total suspended solids (TSS)	GWOUB	Yes / No
Separator	pH	GWOUB	Yes / No
Effluent	TSS	GWOUE	Yes / No
Effluent	Arsenic (As)	GWOUE	Yes / No
Effluent	Biochemical O2 demand (BOD)	GWOUE	Yes / No
Effluent	SVOCs	GWOUE	Yes / No
Effluent	pH	GWOUE	Yes / No
Effluent	Temperature	GWOUE	Yes / No

Date: 11-11-10

Operator:

Signature:

Groundwater Elevations and Temperature
Jennison Wright NPL Site
Granite City, Illinois
Bodine Project Number 119386-11

Well ID	Date	Temperature (F)	Depth to Water (Feet bgs)
MW5S	10/12/10	113.1	17.15
MW5D		73.6	15.97
MW20D		85.5	17.92
MW21D		94.0	16.70 21.69
MW22D		121.7	17.40
MW23D		120.4	17.39

Notes:
Feet bgs = Feet below ground surface. TEMP Collected @ 30' BGS
Temperatures collected @ 30' BGS for MW 5D,5S,20D-23D
LNAPL present from 16.7 to 21.69 MW 21D
Boiler Temperature @ 140 (F) Steam Pressure @ .5
LNAPL PRESENT IN MW 5D

TABLE 2
OPERATIONS LOG

Site Name: Jennison-Wright Corporation Superfund Site
Job Number: Bodine 11 8907
Site Location: 900 West 22nd Street, Granite City, IL

Route originals to: Troy McFate, BESI
CC: Tom Campbell, BEEI
Treatment Plant File

Date: 11-12-10

On arrival was GWCU operating? Yes / No

A. GWCU FLOW

A1) Combined Extraction Flowrate: 51 gpm
A2) Recirculation Flowrate: 39 gpm
A3) Calculated Effluent Flowrate: 41 gpm

Number of HWI Wells Operating: 6
Recirculation Pump Running: M-3 / M-4
Effluent Pump Running: M-5 / M-6

B. GROUNDWATER EXTRACTION/DISCHARGE SYSTEM

B1) EW01 (M-1) Operating Status: hand / off / auto
Flow: 25.5 gpm
Temperature: 63 °F

B2) EW02 (M-2) Operating Status: hand / off / auto
Flow: 25.5 gpm
Temperature: 72 °F

B3) HWI-1 Operating Status: On / Off
Flow: 6.7 gpm
Packer Pressure: 9.0 psi
Temperature: Low X °F; Med ✓ °F; High ✓ °F

B4) HWI-2 Operating Status: On / Off
Flow: 6.7 gpm
Packer Pressure: 13.0 psi
Temperature: Low X °F; Med ✓ °F; High ✓ °F

B5) HWI-3 Operating Status: On / Off
Flow: 6.7 gpm
Packer Pressure: 16.0 psi
Temperature: Low X °F; Med ✓ °F; High ✓ °F

B6) HWI-4 Operating Status: On / Off
Flow: 6.7 gpm
Packer Pressure: 6.0 psi
Temperature: Low X °F; Med ✓ °F; High ✓ °F

B7) HWI-5 Operating Status: On / Off
Flow: 6.7 gpm
Packer Pressure: 13.8 psi
Temperature: Low X °F; Med ✓ °F; High ✓ °F

B8) HWI-6 Operating Status: On / Off
Flow: 6.7 gpm
Packer Pressure: 7.8 psi
Temperature: Low X °F; Med ✓ °F; High ✓ °F

Comments/Notes

C. GROUNDWATER TREATMENT SYSTEM

1) Pumps	Recirc Pump (M-3)	Operating Status	hand / off / auto
	Recirc Pump (M-4)	Operating Status	hand / off / auto
		Pressure	54 psi
	Effluent Pump (M-5)	Operating Status	hand / off / auto
	Effluent Pump (M-6)	Operating Status	hand / off / auto
		Pressure	46 psi
	Heat Exchanger Pump	Operating Status	hand / off / auto
		Pressure	49.0 psi
		Pressure	69.5 psi

Auto MOD: 140°F

SUE
DIS

2) Thermostats

From Feed Tank	67.6 °F
IN Heat Exchanger	134.6 °F
OUT Heat Exchanger	150.2 °F
To Wellfield	142.8 °F

Steam PSI: 0.5PSI

3) Pressure

Before Clay	39 psi	Before Carbon	38 psi
After Clay	37 psi	After Carbon	38 psi
Differential	2 psi	Differential	0 psi

4) Effluent Totalizer

Meter Reading	2,552,980 gallons
Time Read	11 GPM

D. BUILDING SYSTEMS

1) Building Sump Level Switch	Clear of Debris	Yes / No
	Empty sump	Yes / No
2) Vapor Phase Blower	Operating Correctly?	Yes / No
4) Building Exhaust Fan	Operating Correctly?	Yes / No
5) Building Louver	Clear of debris	Yes / No
7) Piping and valves	Intact	Yes / No
8) Building Interior Lights	Operational?	Yes / No
9) Building Exterior Lights	Operational?	Yes / No
10) Building Temperature		75 °F
11) Outdoor Temperature		°F
12) DNAPL Solenoid	Status	hand / off / auto
13) Potable Water Solenoid	Status	hand / off / auto

General Comments: Boiler Blow Down

E. SAMPLE COLLECTION DATA

Example Sample Designation Location-Date-Initials: GWOUA080808

Location	Analyte	Identification	Sample Collected
Influent	Oil and grease (O&G)	GWOUA	Yes / No
Influent	Semi-volatile organics (SVOCs)	GWOUA	Yes / No
Separator	O&G	GWOUB	Yes / No
Separator	Total suspended solids (TSS)	GWOUB	Yes / No
Separator	pH	GWOUB	Yes / No
Effluent	TSS	GWOUE	Yes / No
Effluent	Arsenic (As)	GWOUE	Yes / No
Effluent	Biochemical O2 demand (BOD)	GWOUE	Yes / No
Effluent	SVOCs	GWOUE	Yes / No
Effluent	pH	GWOUE	Yes / No
Effluent	Temperature	GWOUE	Yes / No

Date: 11/12/10

Operator:

Signature:

TABLE 2
OPERATIONS LOG

Site Name: Jennison-Wright Corporation Superfund Site
Job Number: Boding 118057
Site Location: 900 West 22nd Street, Granite City, IL

Route originals to: Troy McFate, BESI
CC: Tom Campbell, BEEI
Treatment Plant File

Date: 11-18-2010

On arrival was GWOU operating? Yes / No

A. GWOU FLOW

A1) Combined Extraction Flowrate: 51 gpm
A2) Recirculation Flowrate: 39/11 gpm
A3) Calculated Effluent Flowrate: 41 gpm

Number of HWI Wells Operating: 6
Recirculation Pump Running: M-3 / M-4
Effluent Pump Running: M-5 / M-6

B. GROUNDWATER EXTRACTION/DISCHARGE SYSTEM

B1) EW01 (M-1) Operating Status: hand / off / auto
Flow: 25.5 gpm
Temperature: 70 °F

B2) EW02 (M-2) Operating Status: hand / off / auto
Flow: 25.5 gpm
Temperature: 70 °F

B3) HWI-1 Operating Status: On / Off
Flow: 6.7 gpm
Packer Pressure: 15 psi
Temperature: Low ___ °F, Med ___ °F, High ___ °F

B4) HWI-2 Operating Status: On / Off
Flow: 6.7 gpm
Packer Pressure: 15 psi
Temperature: Low ___ °F, Med ___ °F, High ___ °F

B5) HWI-3 Operating Status: On / Off
Flow: 6.7 gpm
Packer Pressure: 15 psi
Temperature: Low ___ °F, Med ___ °F, High ___ °F

B6) HWI-4 Operating Status: On / Off
Flow: 6.7 gpm
Packer Pressure: 15 psi
Temperature: Low ___ °F, Med ___ °F, High ___ °F

B7) HWI-5 Operating Status: On / Off
Flow: 6.7 gpm
Packer Pressure: 15 psi
Temperature: Low ___ °F, Med ___ °F, High ___ °F

B8) HWI-6 Operating Status: On / Off
Flow: 6.7 gpm
Packer Pressure: 15 psi
Temperature: Low ___ °F, Med ___ °F, High ___ °F

Comments/Notes

C. GROUNDWATER TREATMENT SYSTEM

1) Pumps

Recirc. Pump (M-3)	Operating Status	hand / off / auto	
Recirc. Pump (M-4)	Operating Status	hand / off / auto	
	Pressure	50	psi
Effluent Pump (M-5)	Operating Status	hand / off / auto	
Effluent Pump (M-6)	Operating Status	hand / off / auto	
	Pressure		psi
Heat Exchanger Pump	Operating Status	hand / off / auto	
	Pressure	48	psi

2) Thermometers

From Feed Tank	67.8	°F
IN Heat Exchanger	125.6	°F
OUT Heat Exchanger	141.0	°F
To Wellfield	135.1	°F

3) Pressure

Before Clay	38	psi	Before Carbon	38	psi
After Clay	39	psi	After Carbon	37	psi
Differential	0	psi	Differential	1	psi

4) Effluent Totalizer

Meter Reading	2613720	gallons
Time Read	1210	

D. BUILDING SYSTEMS

1) Building Sump Level Switch	Clear of Debris	Yes /	No
	Empty sump	Yes /	No
2) Vapor Phase Blower	Operating Correctly?	Yes /	No
4) Building Exhaust Fan	Operating Correctly?	Yes /	No
5) Building Louver	Clear of debris	Yes /	No
7) Piping and valves	Inspect	Yes /	No
8) Building Interior Lights	Operational?	Yes /	No
9) Building Exterior Lights	Operational?	Yes /	No
10) Building Temperature		73	°F
11) Outdoor Temperature		48	°F
12) DNAPL Solenoid	Status	hand / off / auto	
13) Potable Water Solenoid	Status	hand / off / auto	

General Comments

E. SAMPLE COLLECTION DATA

Sample Sample Designation = Location - Date_minutiy = GWOUA00000

Location	Analyte	Identification	Sample Collected
Influent	Oil and grease (O&G)	GWOUA	Yes / No
Influent	Semi-volatile organics (SVOCs)	GWOUA	Yes / No
Separator	O&G	GWOUE	Yes / No
Separator	Total suspended solids (TSS)	GWOUE	Yes / No
Separator	pH	GWOUE	Yes / No
Effluent	TSS	GWOUE	Yes / No
Effluent	Arsenic (As)	GWOUE	Yes / No
Effluent	Biochemical O2 demand (BOD)	GWOUE	Yes / No
Effluent	SVOCs	GWOUE	Yes / No
Effluent	pH	GWOUE	Yes / No
Effluent	Temperature	GWOUE	Yes / No

Date: 11-19-10

Operator: Shelom

Signature: [signature]

Groundwater Elevations and Temperature
Jennison Wright NPL Site
Granite City, Illinois
Bodine Project Number 119386-11

Well ID	Date	Temperature (F)	Depth to Water (Feet bgs)
MW5S	11-18-2010	115.6°F	17'.28"
MW5D	11-18-2010	74.5°F	16'.25"
MW20D	11-18-2010	84.4°F	18'
MW21D	11-18-2010	96.3°F	17' to 21' 3" - water
MW22D	11-18-2010	120.1°F	17'.55"
MW23D	11-18-2010	118.4°F	17' 5"

Notes:
Feet bgs = Feet below ground surface.
Temperatures collected @ 30' BGS for MW 5D,5S,20D-23D
LNAPL present from
Boiler Temperature @ 140 (F) Steam Pressure @ .5

PTL 419 C

TABLE 2
OPERATIONS LOG

Site Name: Jennison-Wright Corporation Superfund Site
Job Number: Bodine 118007
Site Location: 900 West 22nd Street, Granite City, IL

Route originals to: Troy McFate, BESI
CC: Tom Campbell, BESI
Treatment Plant File

Date: 12/08/10

On arrival was GWCU operating? Yes / No

A. GWCU FLOW

A1) Combined Extraction Flowrate	50.0 gpm	Number of HWI Wells Operating	6
A2) Recirculation Flowrate	46 gpm	Recirculation Pump Running	M-3 / M-4
A3) Calculated Effluent Flowrate	40/10 gpm	Effluent Pump Running	M-5 / M-6

B. GROUNDWATER EXTRACTION/DISCHARGE SYSTEM

B1) EW01 (M-1)	Operating Status	hand / off / auto	B2) EW02 (M-2)	Operating Status	hand / off / auto
Flow 25.0 gpm	Temperature	52.0 °F	Flow 25.0 gpm	Temperature	50.0 °F
B3) HWI-1	Operating Status	On / Off	B4) HWI-2	Operating Status	On / Off
Flow 6.7 gpm	Packer Pressure	4.0 psi	Flow 6.7 gpm	Packer Pressure	13.0 psi
	Temperature	Low X °F		Temperature	Low X °F
		Med ↓ °F			Med ↓ °F
		High ↓ °F			High ↓ °F
B5) HWI-3	Operating Status	On / Off	B6) HWI-4	Operating Status	On / Off
Flow 6.7 gpm	Packer Pressure	16.0 psi	Flow 6.7 gpm	Pabker Pressure	5.0 psi
	Temperature	Low X °F		Temperature	Low X °F
		Med ↓ °F			Med ↓ °F
		High ↓ °F			High ↓ °F
B7) HWI-5	Operating Status	On / Off	B8) HWI-6	Operating Status	On / Off
Flow 6.7 gpm	Packer Pressure	11.0 psi	Flow 6.7 gpm	Packer Pressure	5.0 psi
	Temperature	Low X °F		Temperature	Low X °F
		Med ↓ °F			Med ↓ °F
		High ↓ °F			High ↓ °F

Comments/Notes

C. GROUNDWATER TREATMENT SYSTEM

1) Pumps

Recirc. Pump (M-3)	Operating Status	hand / off / auto	
Recirc. Pump (M-4)	Operating Status	hand / off / auto	
	Pressure	?	psi
Effluent Pump (M-5)	Operating Status	hand / off / auto	
Effluent Pump (M-6)	Operating Status	hand / off / auto	
	Pressure	49	psi
Heat Exchanger Pump	Operating Status	hand / off / auto	
	Pressure	42	psi
	Pressure	59	psi

MOD. AUTO 140°F

SUC
DIS

2) Thermometers

STEAM PSI: 0.5 PSI

From Feed Tank	68.0 °F
IN Heat Exchanger	131.7 °F
OUT Heat Exchanger	142.5 °F
To Wellfield	138.2 °F

3) Pressure

Before Clay	36 psi	Before Carbon	29 psi
After Clay	30 psi	After Carbon	29 psi
Differential	6 psi	Differential	Ø psi

4) Effluent Totalizer

Meter Reading	2,801,770 gallons
Time Read	10.0 GPM

D. BUILDING SYSTEMS

1) Building Sump Level Switch	Clear of Debris	Yes / No
	Empty sump	Yes / No Partial
2) Vapor Phase Blower	Operating Correctly?	Yes / No
4) Building Exhaust Fan	Operating Correctly?	Yes / No
5) Building Louver	Clear of debris	Yes / No
7) Piping and valves	Inspect	Yes / No
8) Building Interior Lights	Operational?	Yes / No
9) Building Exterior Lights	Operational?	Yes / No
10) Building Temperature		72 °F
11) Outdoor Temperature		24 °F
12) DNAPL Solenoid	Status	hand / off / auto
13) Potable Water Solenoid	Status	hand / off / auto

General Comments: NEED TO BACKWASH CLAY TANK. NEED NEW PRESSURE GAUGES FOR RECIRC PUMPS.

E. SAMPLE COLLECTION DATA

Sample Sample Designation: Location-Date_mmddyy: GWOUA[illegible]

Location	Analyte	Identification	Sample Collected
Influent	Oil and grease (O&G)	GWOUA	Yes / No
Influent	Semi-volatile organics (SVOCs)	GWOUA	Yes / No
Separator	O&G	GWOUE	Yes / No
Separator	Total suspended solids (TSS)	GWOUE	Yes / No
Separator	pH	GWOUE	Yes / No
Effluent	TSS	GWOUE	Yes / No
Effluent	Arsenic (As)	GWOUE	Yes / No
Effluent	Biochemical O2 demand (BOD)	GWOUE	Yes / No
Effluent	SVOCs	GWOUE	Yes / No
Effluent	pH	GWOUE	Yes / No
Effluent	Temperature	GWOUE	Yes / No

Date: 12/08/10

Operator: Rick Evey

Signature: [signature]

Groundwater Elevations and Temperature
Jennison Wright NPL Site
Granite City, Illinois
Bodine Project Number 119386-11

Well ID	Date	Temperature (F)	Depth to Water (Feet bgs)
MW5S		116.1	16.99
MW5D		77.6	15.81
MW20D		88.2	17.76
MW21D		90.5	16.71 to 19.64
MW22D		121.7	17.26
MW23D		117.5	17.24

Notes:
Feet bgs = Feet below ground surface.
Temperatures collected @ 30' BGS for MW 5D,5S,20D-23D
LNAPL present from
Boiler Temperature @ 140 (F) Steam Pressure @ .5

TABLE 2
OPERATIONS LOG

Site Name: Jennison-Wright Corporation Superfund Site
Job Number: Bodine 118337
Site Location: 900 West 22nd Street, Granite City, IL

Route originals to: Troy McFate, BESI
CC: Tom Campbell, EEEI
Treatment Plant File

Date: 12-14-00

On arrival was GWOU operating? Yes / No

A. GWOU FLOW

A1) Combined Extraction Flowrate	49.5 gpm		**Number of HWI Wells Operating**	6
A2) Recirculation Flowrate	39.3 gpm		**Recirculation Pump Running**	M-3 / M-4
A3) Calculated Effluent Flowrate	10.2 gpm		**Effluent Pump Running**	M-5 / M-6

B. GROUNDWATER EXTRACTION/DISCHARGE SYSTEM

B1) EW01 (M-1)
Operating Status: hand / off / auto
Flow: 25 gpm
Temperature: 49 °F

B2) EW02 (M-2)
Operating Status: hand / off / auto
Flow: 25 gpm
Temperature: 52 °F

B3) HWI-1
Operating Status: On / Off
Flow: 6.7 gpm
Packer Pressure: 4.0 psi
Temperature: Low ___ °F; Med ___ °F; High ___ °F

B4) HWI-2
Operating Status: On / Off
Flow: 6.7 gpm
Packer Pressure: 13.0 psi
Temperature: Low ___ °F; Med ___ °F; High ___ °F

B5) HWI-3
Operating Status: On / Off
Flow: 6.7 gpm
Packer Pressure: 14.0 psi
Temperature: Low ___ °F; Med ___ °F; High ___ °F

B6) HWI-4
Operating Status: On / Off
Flow: 6.7 gpm
Packer Pressure: 5.0 psi
Temperature: Low ___ °F; Med ___ °F; High ___ °F

B7) HWI-5
Operating Status: On / Off
Flow: 6.7 gpm
Packer Pressure: 10.0 psi
Temperature: Low ___ °F; Med ___ °F; High ___ °F

B8) HWI-6
Operating Status: On / Off
Flow: 6.7 gpm
Packer Pressure: 4.5 psi
Temperature: Low ___ °F; Med ___ °F; High ___ °F

Comments/Notes

C. GROUNDWATER TREATMENT SYSTEM

1) Pumps

Recirc. Pump (M-3)	Operating Status	hand / off / (auto)	
Recirc. Pump (M-4)	Operating Status	hand / off / (auto)	
	Pressure	22	psi
Effluent Pump (M-5)	Operating Status	hand / off / (auto)	
Effluent Pump (M-6)	Operating Status	hand / off / (auto)	
	Pressure	52	psi
Heat Exchanger Pump	Operating Status	hand / off / (auto)	
	Pressure	40 / 60	psi

MOO 140°F

STEAM PSI 0.5

2) Thermometers

From Feed Tank	44.6	°F
IN Heat Exchanger	135.5	°F
OUT Heat Exchanger	148.8	°F
To Wellfield	142.5	°F

3) Pressure

Before Clay	8 psi	Before Carbon	5 psi
After Clay	6 psi	After Carbon	5 psi
Differential	2 psi	Differential	0 psi

4) Effluent Totalizer

Meter Reading	2832650	gallons
Time Read	1014	

D. BUILDING SYSTEMS

1) Building Sump Level Switch	Clear of Debris	(Yes) / No
	Empty sump	Yes / (No)
3) Vapor Phase Blower	Operating Correctly?	(Yes) / No
4) Building Exhaust Fan	Operating Correctly?	(Yes) / No
5) Building Louver	Clear of debris	(Yes) / No
7) Piping and valves	Inspect	(Yes) / No
8) Building Interior Lights	Operational?	(Yes) / No
9) Building Exterior Lights	Operational?	(Yes) / No
10) Building Temperature		65 °F
11) Outdoor Temperature		11 °F
12) DNAPL Solenoid	Status	hand / (off) / auto
13) Potable Water Solenoid	Status	hand / off / (auto)

General Comments

E. SAMPLE COLLECTION DATA

Example Sample Designation: <Location><Date_mmddyy> GWOUA093009

Location	Analyte	Identification	Sample Collected
Influent	Oil and grease (O&G)	GWOUA	Yes / No
Influent	Semi-volatile organics (SVOCs)	GWOUA	Yes / No
Separator	O&G	GWOUB	Yes / No
Separator	Total suspended solids (TSS)	GWOUB	Yes / No
Separator	pH	GWOUB	Yes / No
Effluent	TSS	GWOUE	Yes / No
Effluent	Arsenic (As)	GWOUE	Yes / No
Effluent	Biochemical O2 demand (BOD)	GWOUE	Yes / No
Effluent	SVOCs	GWOUE	Yes / No
Effluent	pH	GWOUE	Yes / No
Effluent	Temperature	GWOUE	Yes / No

Date: 12-14-10

Operator: BRETT BAKER

Signature: [signature]

Groundwater Elevations and Temperature
Jennison Wright NPL Site
Granite City, Illinois
Bodine Project Number 119386-11

Well ID	Date	Temperature (F)	Depth to Water (Feet bgs)
MW5S	12-22	116.1	17.38
MW5D	12-22	78.7	16.15
MW20D	12-22	90.5	18.1
MW21D	12-22	89.7	17.03-19.98
MW22D	12-22	120.7	17.62
MW23D	12-22	116.2	17.60

Notes:
Feet bgs = Feet below ground surface.
Temperatures collected @ 30' BGS for MW 5D,5S,20D-23D
LNAPL present from
Boiler Temperature @ 140 (F) Steam Pressure @ .5

TABLE 2
OPERATIONS LOG

Site Name: Jennison-Wright Corporation Superfund Site
Job Number: Bedine 11806?
Site Location: 900 West 22nd Street, Granite City, IL

Route originals to: Troy McFate, BESI
CC: Tom Campbell, BEEI
Treatment Plant File

Date: 12/22/10

On arrival was GWOU operating? Yes / No

A. GWOU FLOW

A1) Combined Extraction Flowrate: 51 gpm
A2) Recirculation Flowrate: 46 gpm
A3) Calculated Effluent Flowrate: 53 gpm

Number of HWI Wells Operating: 6
Recirculation Pump Running: M-3 / M-4
Effluent Pump Running: M-5 / M-6

B. GROUNDWATER EXTRACTION/DISCHARGE SYSTEM

B1) EW01 (M-1)
Operating Status: hand / off / auto
Temperature: 52 °F
Flow: 25.8 gpm

B2) EW02 (M-2)
Operating Status: hand / off / auto
Temperature: 58 °F
Flow: 25.9 gpm

B3) HWI-1
Operating Status: On / Off
Packer Pressure: 15 psi
Temperature: Low ___ °F, Med ___ °F, High ___ °F
Flow: 6.7 gpm

B4) HWI-2
Operating Status: On / Off
Packer Pressure: 15 psi
Temperature: Low ___ °F, Med ___ °F, High ___ °F
Flow: 6.7 gpm

B5) HWI-3
Operating Status: On / Off
Packer Pressure: 15 psi
Temperature: Low ___ °F, Med ___ °F, High ___ °F
Flow: 6.7 gpm

B6) HWI-4
Operating Status: On / Off
Packer Pressure: 15 psi
Temperature: Low ___ °F, Med ___ °F, High ___ °F
Flow: 6.7 gpm

B7) HWI-5
Operating Status: On / Off
Packer Pressure: 15 psi
Temperature: Low ___ °F, Med ___ °F, High ___ °F
Flow: 6.7 gpm

B8) HWI-6
Operating Status: On / Off
Packer Pressure: 5 psi
Temperature: Low ___ °F, Med ___ °F, High ___ °F
Flow: 6.7 gpm

Comments/Notes

Groundwater Elevations and Temperature
Jennison Wright NPL Site
Granite City, Illinois
Bodine Project Number 119386-11

Well ID	Date	Temperature (F)	Depth to Water (Feet bgs)
MW5S	12/29/10	116.1	17.49
MW5D		79.4	17.32
MW20D		95.5	18.26
MW21D		89.1	17.17 → 20.31
MW22D		122.1	17.77
MW23D		116.1	17.74

Notes:
Feet bgs = Feet below ground surface.
Temperatures collected @ 30' BGS for MW 5D,5S,20D-23D
LNAPL present from
Boiler Temperature @ 140 (F) Steam Pressure @ .5

TABLE 2
OPERATIONS LOG

Site Name: Jennison-Wright Corporation Superfund Site
Job Number: Bedine 118007
Site Location: 900 West 22nd Street, Granite City, IL

Route originals to: Troy McFate, IEPA
CC: Tom Campbell, IEPA
Treatment Plant File

Date: 12/29/10

On arrival was GWOU operating? (Yes) / No

A. GWOU FLOW

A1) Combined Extraction Flowrate: 50.7 gpm
A2) Reinjection Flowrate: 52 gpm
A3) Calculated Effluent Flowrate: 46.4/10 gpm

Number of HWI Wells Operating: 6
Reinjection Pump Running: (M-3) / M-4
Effluent Pump Running: M-5 / (M-6)

B. GROUNDWATER EXTRACTION/DISCHARGE SYSTEM

B1) EW01 (M-1)
Flow: 25 gpm
Operating Status: hand / off / (auto)
Temperature: 62 °F

B2) HW02 (M-2)
Flow: 25 gpm
Operating Status: hand / off / (auto)
Temperature: 64 °F

B3) HWI-1
Flow: 6-7 gpm
Operating Status: (On) / Off
Packer Pressure: 8 psi
Temperature: Low ___ °F; Med ___ °F; High ___ °F

B4) HWI-2
Flow: 6-7 gpm
Operating Status: (On) / Off
Packer Pressure: 15 psi
Temperature: Low ___ °F; Med ___ °F; High ___ °F

B5) HWI-3
Flow: 6-7 gpm
Operating Status: (On) / Off
Packer Pressure: 15 psi
Temperature: Low ___ °F; Med ___ °F; High ___ °F

B6) HWI-4
Flow: 6-7 gpm
Operating Status: (On) / Off
Packer Pressure: 4 psi
Temperature: Low ___ °F; Med ___ °F; High ___ °F

B7) HWI-5
Flow: 6-7 gpm
Operating Status: (On) / Off
Packer Pressure: 15 psi
Temperature: Low ___ °F; Med ___ °F; High ___ °F

B8) HWI-6
Flow: 6-7 gpm
Operating Status: On / Off
Packer Pressure: 7 psi
Temperature: Low ___ °F; Med ___ °F; High ___ °F

Comments/Notes: HWI-3 Vault Full of water
HWI-4 Vault Full of water

C. GROUNDWATER TREATMENT SYSTEM

1) Pumps	Recirc Pump (M-9)	Operating Status	hand / off / (auto)
	Recirc Pump (M-4)	Operating Status	hand / (off) / auto
		Pressure	3 psi
	Effluent Pump (M-5)	Operating Status	hand / (off) / auto
	Effluent Pump (M-3)	Operating Status	hand / off / (auto)
		Pressure	44 psi
	Heat Exchanger Pump	Operating Status	hand / off / (auto)
	Suction Discharge	Pressure	44 / 64 psi
2) Thermometers		From Feed Tank	66.2 °F
		IN Heat Exchanger	120.3 °F
		OUT Heat Exchanger	140.5 °F
		To Wellfield	140.1 °F
3) Pressure	Before Clay	37 psi	Before Carbon 34 psi
	After Clay	34 psi	After Carbon 34 psi
	Differential	3 psi	Differential 0 psi
4) Effluent Totalizer	Meter Reading		2997910 gallons
	Time Read		10:1

D. BUILDING SYSTEMS

1) Building Sump Level Switch	Clear of Debris	(Yes) / No
	Empty sump	(Yes) / No
2) Vapor Phase Blower	Operating Correctly?	(Yes) / No
4) Building Exhaust Fan	Operating Correctly?	(Yes) / No
6) Building Louver	Clear of debris	(Yes) / No
7) Piping and Valves	Intact	(Yes) / No
8) Building Interior Lights	Operational?	(Yes) / No
9) Building Exterior Lights	Operational?	(Yes) / No
10) Building Temperature		75 °F
11) Outdoor Temperature		31 °F
12) DNAPL Solenoid	Status	hand / (off) / auto
13) Potable Water Solenoid	Status	hand / off / (auto)

General Comments

E. SAMPLE COLLECTION DATA

Example Sample Collection Location - Date, Initials GWOUA, Sample

Location	Analyte	Identification	Sample Collected
Influent	Oil and grease (O&G)	GWOUA	Yes / No
Influent	Semi-volatile organics (SVOCs)	GWOUA	Yes / No
Separator	O&G	GWOUB	Yes / No
Separator	Total suspended solids (TSS)	GWOUB	Yes / No
Separator	pH	GWOUB	Yes / No
Effluent	TSS	GWOUE	Yes / No
Effluent	Arsenic (As)	GWOUE	Yes / No
Effluent	Biochemical O2 demand (BOD)	GWOUE	Yes / No
Effluent	SVOCs	GWOUE	Yes / No
Effluent	pH	GWOUE	Yes / No
Effluent	Temperature	GWOUE	Yes / No

Date: 12/29/10

Operator: Josh Farner

Signature: [signature]

APPENDIX B

GCTWWTP Discharge Permit Analytical Results

TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING

ANALYTICAL REPORT

Job Number: 500-29093-1

Job Description: Jennison Wright

For:
Bodine Environmental Services
5350 East Firehouse Road
Decatur, IL 62521-9601

Attention: Troy McFate

Cindy Pritchard

Approved for release.
Cindy R Pritchard
Project Mgmt. Assistant
11/12/2010 2:18 PM

Designee for
Richard C Wright
Project Manager II
richard.wright@testamericainc.com
11/12/2010

These test results meet all the requirements of NELAC for accredited parameters.

The Lab Certification ID#:
TestAmerica Chicago 100201
TestAmerica West Sacramento CA00044

All questions regarding this test report should be directed to the TestAmerica Project Manager whose signature appears on this report. All pages of this report are integral parts of the analytical data. Therefore, this report should be reproduced only in its entirety.

Reporting limits are adjusted for sample size used, dilutions and moisture content if applicable.

TestAmerica Laboratories, Inc.
TestAmerica Chicago 2417 Bond Street, University Park, IL 60484
Tel (708) 534-5200 Fax (708) 534-5211 www.testamericainc.com

ACCREDITED IN ACCORDANCE WITH nelac

Comments
No additional comments.

Receipt
All samples were received in good condition within temperature requirements.

GC/MS Semi VOA
Method(s) 625: The laboratory control sample (LCS) for batch 99268 exceeded control limits for the following non-controlled analyte: Benzidine. No corrective action was required. GCRWWTP-GWOUE-11042010 (500-29093-1)

No other analytical or quality issues were noted.

Metals
Method(s) 200.7 Rev 4.4: The ICV in AD batch 99360 was slightly low for Zn at 94% recovery. All bracketing CCV's were within the control limits and all associated samples have been reported.

Method(s) 200.7 Rev 4.4: The ICSA for AD batch 99360 exceeded the acceptance limits for Cd. All associated samples are nondetects and have been reported.

No other analytical or quality issues were noted.

General Chemistry
No analytical or quality issues were noted.

Organic Prep
No analytical or quality issues were noted.

EXECUTIVE SUMMARY - Detections

Client: Bodine Environmental Services

Job Number: 500-29093-1

Lab Sample ID / Analyte	Client Sample ID	Result / Qualifier		Reporting Limit	Units	Method
500-29093-1	**GCRWWTP-GWOUE-11042010**					
2-Methylphenol		7.3		4.7	ug/L	625
2,4-Dimethylphenol		8.2		4.7	ug/L	625
Acenaphthene		3.3	J	4.7	ug/L	625
Phenolics, Total Recoverable		0.060		0.0050	mg/L	420.2
Biochemical Oxygen Demand		2.5		2.0	mg/L	SM 5210B
Total Recoverable						
Arsenic		0.0032	J	0.0050	mg/L	200.7 Rev 4.4
Barium		0.35		0.0050	mg/L	200.7 Rev 4.4
Copper		0.0013	J	0.0050	mg/L	200.7 Rev 4.4
Lead		0.0022	J	0.0025	mg/L	200.7 Rev 4.4
Iron		4.8		0.10	mg/L	200.7 Rev 4.4
Zinc		0.0069	J B ^	0.010	mg/L	200.7 Rev 4.4
Manganese		0.47		0.0050	mg/L	200.7 Rev 4.4

METHOD SUMMARY

Client: Bodine Environmental Services

Job Number: 500-29093-1

Description	Lab Location	Method	Preparation Method
Matrix: Water			
Semivolatile Organic Compounds (GC/MS)	TAL CHI	40CFR136A 625	
Liquid-Liquid Extraction	TAL CHI		40CFR136A 625
Metals (ICP)	TAL CHI	EPA 200.7 Rev 4.4	
Preparation, Total Recoverable Metals	TAL CHI		EPA 200.7
Mercury (CVAA)	TAL CHI	EPA 245.1	
Preparation, Mercury	TAL CHI		EPA 245.1
HEM and SGT-HEM	TAL CHI	1664A 1664A	
HEM and SGT-HEM (SPE)	TAL CHI		1664A 1664A
Phenolics, Total Recoverable	TAL CHI	MCAWW 420.2	
Distillation, Phenolics	TAL CHI		Distill/Phenol
Solids, Total Suspended (TSS)	TAL CHI	SM SM 2540D	
Cyanide, Total	TAL CHI	SM SM 4500 CN E	
Distillation, Cyanide	TAL CHI		Distill/CN
BOD, 5-Day	TAL CHI	SM SM 5210B	

Lab References:

TAL CHI = TestAmerica Chicago

Method References:

1664A = EPA-821-98-002

40CFR136A = "Methods for Organic Chemical Analysis of Municipal Industrial Wastewater", 40CFR, Part 136, Appendix A, October 26, 1984 and subsequent revisions.

EPA = US Environmental Protection Agency

MCAWW = "Methods For Chemical Analysis Of Water And Wastes", EPA-600/4-79-020, March 1983 And Subsequent Revisions.

SM = "Standard Methods For The Examination Of Water And Wastewater",

METHOD / ANALYST SUMMARY

Client: Bodine Environmental Services

Job Number: 500-29093-1

Method	Analyst	Analyst ID
40CFR136A 625	Bergen, Joe	JB
EPA 200.7 Rev 4.4	Smith, Todd D	TDS
EPA 245.1	Roach, Jessica	JR
1664A 1664A	Brogan, Mary T	MTB
MCAWW 420.2	Ficarello, Peter M	PMF
SM SM 2540D	Boyd, Cheryl L	CLB
SM SM 4500 CN E	Moore, Colleen L	CLM
SM SM 5210B	Brogan, Mary T	MTB

SAMPLE SUMMARY

Client: Bodine Environmental Services

Job Number: 500-29093-1

Lab Sample ID	Client Sample ID	Client Matrix	Date/Time Sampled	Date/Time Received
500-29093-1	GCRWWTP-GWOUE-1104 2010	Water	11/04/2010 1015	11/05/2010 1030

SAMPLE RESULTS

Troy McFate
Bodine Environmental Services
5350 East Firehouse Road
Decatur, IL 62521-9601

Job Number: 500-29093-1

Client Sample ID: GCRWWTP-GWOUE-11042010
Lab Sample ID: 500-29093-1

Date Sampled: 11/04/2010 1015
Date Received: 11/05/2010 1030
Client Matrix: Water

Analyte	Result/Qualifier		Unit	MDL	RL	Dilution
Method: 625			Date Analyzed:	11/12/2010 1301		
Prep Method: 625			Date Prepared:	11/05/2010 1932		
N-Nitrosodimethylamine	<9.3		ug/L	4.9	9.3	1.0
Phenol	<9.3		ug/L	0.83	9.3	1.0
Bis(2-chloroethyl)ether	<4.7		ug/L	1.3	4.7	1.0
2,2'-oxybis[1-chloropropane]	<4.7		ug/L	1.3	4.7	1.0
N-Nitrosodi-n-propylamine	<4.7		ug/L	1.4	4.7	1.0
Hexachloroethane	<4.7		ug/L	1.1	4.7	1.0
2-Chlorophenol	<4.7		ug/L	0.99	4.7	1.0
2-Methylphenol	7.3		ug/L	1.0	4.7	1.0
Nitrobenzene	<4.7		ug/L	1.2	4.7	1.0
Bis(2-chloroethoxy)methane	<4.7		ug/L	1.3	4.7	1.0
1,2,4-Trichlorobenzene	<4.7		ug/L	1.3	4.7	1.0
Isophorone	<4.7		ug/L	1.4	4.7	1.0
2,4-Dimethylphenol	8.2		ug/L	1.5	4.7	1.0
Hexachlorobutadiene	<4.7		ug/L	1.4	4.7	1.0
Naphthalene	<4.7		ug/L	1.3	4.7	1.0
2,4-Dichlorophenol	<4.7		ug/L	1.3	4.7	1.0
2,4,6-Trichlorophenol	<4.7		ug/L	1.0	4.7	1.0
Hexachlorocyclopentadiene	<9.3		ug/L	1.2	9.3	1.0
2-Chloronaphthalene	<4.7		ug/L	1.3	4.7	1.0
4-Chloro-3-methylphenol	<4.7		ug/L	1.3	4.7	1.0
2,6-Dinitrotoluene	<4.7		ug/L	1.2	4.7	1.0
2-Nitrophenol	<4.7		ug/L	1.1	4.7	1.0
Dimethyl phthalate	<4.7		ug/L	1.1	4.7	1.0
2,4-Dinitrophenol	<19		ug/L	7.6	19	1.0
Acenaphthylene	<4.7		ug/L	1.4	4.7	1.0
2,4-Dinitrotoluene	<4.7		ug/L	1.4	4.7	1.0
Acenaphthene	3.3	J	ug/L	1.4	4.7	1.0
4-Nitrophenol	<19		ug/L	3.4	19	1.0
Fluorene	<4.7		ug/L	1.5	4.7	1.0
1,2-Diphenylhydrazine	<4.7		ug/L	1.3	4.7	1.0
4-Bromophenyl phenyl ether	<4.7		ug/L	1.3	4.7	1.0
Hexachlorobenzene	<4.7		ug/L	1.2	4.7	1.0
Diethyl phthalate	<4.7		ug/L	1.2	4.7	1.0
4-Chlorophenyl phenyl ether	<4.7		ug/L	1.2	4.7	1.0
Pentachlorophenol	<19		ug/L	7.0	19	1.0
N-Nitrosodiphenylamine	<4.7		ug/L	1.7	4.7	1.0
4,6-Dinitro-2-methylphenol	<19		ug/L	4.7	19	1.0
Phenanthrene	<4.7		ug/L	1.3	4.7	1.0
Anthracene	<4.7		ug/L	1.3	4.7	1.0

Troy McFate
Bodine Environmental Services
5350 East Firehouse Road
Decatur, IL 62521-9601

Job Number: 500-29093-1

Client Sample ID: GCRWWTP-GWOUE-11042010
Lab Sample ID: 500-29093-1

Date Sampled: 11/04/2010 1015
Date Received: 11/05/2010 1030
Client Matrix: Water

Analyte	Result/Qualifier		Unit	MDL	RL	Dilution
Dibenzofuran	<4.7		ug/L	1.4	4.7	1.0
Di-n-butyl phthalate	<4.7		ug/L	1.1	4.7	1.0
Benzidine	<47	*	ug/L	9.3	47	1.0
Fluoranthene	<4.7		ug/L	1.3	4.7	1.0
Pyrene	<4.7		ug/L	1.3	4.7	1.0
Butyl benzyl phthalate	<4.7		ug/L	1.2	4.7	1.0
Benzo[a]anthracene	<4.7		ug/L	1.1	4.7	1.0
Chrysene	<4.7		ug/L	1.2	4.7	1.0
3,3'-Dichlorobenzidine	<4.7		ug/L	1.2	4.7	1.0
Bis(2-ethylhexyl) phthalate	<9.3		ug/L	1.0	9.3	1.0
Di-n-octyl phthalate	<9.3		ug/L	1.5	9.3	1.0
Benzo[b]fluoranthene	<4.7		ug/L	1.1	4.7	1.0
Benzo[k]fluoranthene	<4.7		ug/L	1.3	4.7	1.0
Benzo[a]pyrene	<4.7		ug/L	1.1	4.7	1.0
Indeno[1,2,3-cd]pyrene	<4.7		ug/L	1.2	4.7	1.0
Dibenz(a,h)anthracene	<4.7		ug/L	1.4	4.7	1.0
Benzo[g,h,i]perylene	<4.7		ug/L	1.3	4.7	1.0
3 & 4 Methylphenol	<4.7		ug/L	1.2	4.7	1.0

Surrogate			Acceptance Limits
2-Fluorophenol	30	%	10 - 110
Phenol-d5	22	%	10 - 110
Nitrobenzene-d5	61	%	28 - 110
2-Fluorobiphenyl	65	%	31 - 110
2,4,6-Tribromophenol	97	%	34 - 116
Terphenyl-d14	94	%	20 - 133

Method: Total Recoverable-200.7 Rev 4.4 Date Analyzed: 11/10/2010 0018
Prep Method: 200.7 Date Prepared: 11/08/2010 0800

Arsenic	0.0032	J	mg/L	0.0013	0.0050	1.0
Barium	0.35		mg/L	0.00081	0.0050	1.0
Cadmium	<0.0010	^	mg/L	0.00022	0.0010	1.0
Chromium	<0.0050		mg/L	0.00076	0.0050	1.0
Copper	0.0013	J	mg/L	0.0013	0.0050	1.0
Lead	0.0022	J	mg/L	0.00084	0.0025	1.0
Nickel	<0.0050		mg/L	0.00084	0.0050	1.0
Selenium	<0.0050		mg/L	0.0013	0.0050	1.0
Silver	<0.0025		mg/L	0.00076	0.0025	1.0
Iron	4.8		mg/L	0.029	0.10	1.0
Zinc	0.0069	J B ^	mg/L	0.0022	0.010	1.0
Manganese	0.47		mg/L	0.00084	0.0050	1.0

Method: 245.1 Date Analyzed: 11/10/2010 1426

Troy McFate
Bodine Environmental Services
5350 East Firehouse Road
Decatur, IL 62521-9601

Job Number: 500-29093-1

Client Sample ID: GCRWWTP-GWOUE-11042010
Lab Sample ID: 500-29093-1

Date Sampled: 11/04/2010 1015
Date Received: 11/05/2010 1030
Client Matrix: Water

Analyte	Result/Qualifier	Unit	MDL	RL	Dilution
Prep Method: 245.1		Date Prepared:	11/08/2010 1541		
Mercury	<0.00020	mg/L	0.000051	0.00020	1.0
Method: 1664A		Date Analyzed:	11/10/2010 1611		
Prep Method: 1664A		Date Prepared:	11/10/2010 1031		
HEM (Oil & Grease)	<5.0	mg/L	1.9	5.0	1.0
Method: 420.2		Date Analyzed:	11/10/2010 0846		
Prep Method: Distill/Phenol		Date Prepared:	11/09/2010 0900		
Phenolics, Total Recoverable	0.060	mg/L	0.0029	0.0050	1.0
Method: SM 2540D		Date Analyzed:	11/07/2010 1954		
Total Suspended Solids	<5.0	mg/L	1.0	5.0	1.0
Method: SM 4500 CN E		Date Analyzed:	11/10/2010 1238		
Prep Method: Distill/CN		Date Prepared:	11/10/2010 0925		
Cyanide, Total	<0.010	mg/L	0.0011	0.010	1.0
Method: SM 5210B		Date Analyzed:	11/05/2010 1206		
Biochemical Oxygen Demand	2.5	mg/L	2.0	2.0	1.0

DATA REPORTING QUALIFIERS

Client: Bodine Environmental Services

Job Number: 500-29093-1

Lab Section	Qualifier	Description
GC/MS Semi VOA		
	*	LCS or LCSD exceeds the control limits
	J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.
Metals		
	B	Compound was found in the blank and sample.
	^	ICV,CCV,ICB,CCB, ISA, ISB, CRI, CRA, DLCK or MRL standard: Instrument related QC exceeds the control limits.
	4	MS, MSD: The analyte present in the original sample is 4 times greater than the matrix spike concentration; therefore, control limits are not applicable.
	J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.

QUALITY CONTROL RESULTS

Client: Bodine Environmental Services

Job Number: 500-29093-1

QC Association Summary

Lab Sample ID	Client Sample ID	Report Basis	Client Matrix	Method	Prep Batch
GC/MS Semi VOA					
Prep Batch: 500-99268					
LCS 500-99268/2-A	Lab Control Sample	T	Water	625	
MB 500-99268/1-A	Method Blank	T	Water	625	
500-29093-1	GCRWWTP-GWOUE-11042010	T	Water	625	
Analysis Batch:500-99724					
LCS 500-99268/2-A	Lab Control Sample	T	Water	625	500-99268
MB 500-99268/1-A	Method Blank	T	Water	625	500-99268
500-29093-1	GCRWWTP-GWOUE-11042010	T	Water	625	500-99268

Report Basis
T = Total

Lab Sample ID	Client Sample ID	Report Basis	Client Matrix	Method	Prep Batch
Metals					
Prep Batch: 500-99309					
LCS 500-99309/2-A	Lab Control Sample	R	Water	200.7	
MB 500-99309/1-A	Method Blank	R	Water	200.7	
500-29093-1	GCRWWTP-GWOUE-11042010	R	Water	200.7	
500-29093-1DU	Duplicate	R	Water	200.7	
500-29093-1MS	Matrix Spike	R	Water	200.7	
Prep Batch: 500-99335					
LCS 500-99335/2-A	Lab Control Sample	T	Water	245.1	
MB 500-99335/1-A	Method Blank	T	Water	245.1	
500-29093-1	GCRWWTP-GWOUE-11042010	T	Water	245.1	
Analysis Batch:500-99360					
LCS 500-99309/2-A	Lab Control Sample	R	Water	200.7 Rev 4.4	500-99309
MB 500-99309/1-A	Method Blank	R	Water	200.7 Rev 4.4	500-99309
500-29093-1	GCRWWTP-GWOUE-11042010	R	Water	200.7 Rev 4.4	500-99309
500-29093-1DU	Duplicate	R	Water	200.7 Rev 4.4	500-99309
500-29093-1MS	Matrix Spike	R	Water	200.7 Rev 4.4	500-99309
Analysis Batch:500-99549					
LCS 500-99335/2-A	Lab Control Sample	T	Water	245.1	500-99335
MB 500-99335/1-A	Method Blank	T	Water	245.1	500-99335
500-29093-1	GCRWWTP-GWOUE-11042010	T	Water	245.1	500-99335

Report Basis
R = Total Recoverable
T = Total

Client: Bodine Environmental Services

Job Number: 500-29093-1

QC Association Summary

Lab Sample ID	Client Sample ID	Report Basis	Client Matrix	Method	Prep Batch
General Chemistry					
Analysis Batch:500-99192					
LCS 500-99192/2	Lab Control Sample	T	Water	SM 5210B	
USB 500-99192/1	Unseeded Control Blank	T	Water	SM 5210B	
500-29093-1	GCRWWTP-GWOUE-11042010	T	Water	SM 5210B	
Analysis Batch:500-99248					
LCS 500-99248/2	Lab Control Sample	T	Water	SM 2540D	
MB 500-99248/1	Method Blank	T	Water	SM 2540D	
500-29093-1	GCRWWTP-GWOUE-11042010	T	Water	SM 2540D	
Prep Batch: 500-99401					
LCS 500-99401/2-A	Lab Control Sample	T	Water	Distill/Phenol	
MB 500-99401/1-A	Method Blank	T	Water	Distill/Phenol	
500-29093-1	GCRWWTP-GWOUE-11042010	T	Water	Distill/Phenol	
Prep Batch: 500-99484					
LCS 500-99484/2-A	Lab Control Sample	T	Water	1664A	
MB 500-99484/1-A	Method Blank	T	Water	1664A	
500-29093-1	GCRWWTP-GWOUE-11042010	T	Water	1664A	
Analysis Batch:500-99485					
LCS 500-99484/2-A	Lab Control Sample	T	Water	1664A	500-99484
MB 500-99484/1-A	Method Blank	T	Water	1664A	500-99484
500-29093-1	GCRWWTP-GWOUE-11042010	T	Water	1664A	500-99484
Analysis Batch:500-99497					
LCS 500-99401/2-A	Lab Control Sample	T	Water	420.2	500-99401
MB 500-99401/1-A	Method Blank	T	Water	420.2	500-99401
500-29093-1	GCRWWTP-GWOUE-11042010	T	Water	420.2	500-99401
Prep Batch: 500-99499					
HLCS 500-99499/3-A	High Level Control Sample	T	Water	Distill/CN	
LCS 500-99499/2-A	Lab Control Sample	T	Water	Distill/CN	
LLCS 500-99499/4-A	Low Level Control Sample	T	Water	Distill/CN	
MB 500-99499/1-A	Method Blank	T	Water	Distill/CN	
500-29093-1	GCRWWTP-GWOUE-11042010	T	Water	Distill/CN	
Analysis Batch:500-99529					
HLCS 500-99499/3-A	High Level Control Sample	T	Water	SM 4500 CN E	500-99499
LCS 500-99499/2-A	Lab Control Sample	T	Water	SM 4500 CN E	500-99499
LLCS 500-99499/4-A	Low Level Control Sample	T	Water	SM 4500 CN E	500-99499
MB 500-99499/1-A	Method Blank	T	Water	SM 4500 CN E	500-99499
500-29093-1	GCRWWTP-GWOUE-11042010	T	Water	SM 4500 CN E	500-99499

Client: Bodine Environmental Services

Job Number: 500-29093-1

QC Association Summary

Lab Sample ID	Client Sample ID	Report Basis	Client Matrix	Method	Prep Batch

Report Basis
T = Total

Client: Bodine Environmental Services

Job Number: 500-29093-1

Surrogate Recovery Report

625 Semivolatile Organic Compounds (GC/MS)

Client Matrix: Water

Lab Sample ID	Client Sample ID	2FP %Rec	PHL %Rec	NBZ %Rec	FBP %Rec	TBP %Rec	TPH %Rec
500-29093-1	GCRWWTP-GWOUE -11042010	30	22	61	65	97	94
MB 500-99268/1-A		28	21	54	48	54	79
LCS 500-99268/2-A		36	28	72	78	97	100

Surrogate	Acceptance Limits
2FP = 2-Fluorophenol	10-110
PHL = Phenol-d5	10-110
NBZ = Nitrobenzene-d5	28-110
FBP = 2-Fluorobiphenyl	31-110
TBP = 2,4,6-Tribromophenol	34-116
TPH = Terphenyl-d14	20-133

Client: Bodine Environmental Services

Job Number: 500-29093-1

Method Blank - Batch: 500-99268

Method: 625
Preparation: 625

Lab Sample ID: MB 500-99268/1-A
Client Matrix: Water
Dilution: 1.0
Date Analyzed: 11/12/2010 1013
Date Prepared: 11/05/2010 1932

Analysis Batch: 500-99724
Prep Batch: 500-99268
Units: ug/L

Instrument ID: CMS20
Lab File ID: 99193M.D
Initial Weight/Volume: 1000 mL
Final Weight/Volume: 1.0 mL
Injection Volume: 1 uL

Analyte	Result	Qual	MDL	RL
N-Nitrosodimethylamine	<10		5.2	10
Phenol	<10		0.89	10
Bis(2-chloroethyl)ether	<5.0		1.4	5.0
2,2'-oxybis[1-chloropropane]	<5.0		1.4	5.0
N-Nitrosodi-n-propylamine	<5.0		1.6	5.0
Hexachloroethane	<5.0		1.2	5.0
2-Chlorophenol	<5.0		1.1	5.0
2-Methylphenol	<5.0		1.1	5.0
Nitrobenzene	<5.0		1.3	5.0
Bis(2-chloroethoxy)methane	<5.0		1.4	5.0
1,2,4-Trichlorobenzene	<5.0		1.4	5.0
Isophorone	<5.0		1.4	5.0
2,4-Dimethylphenol	<5.0		1.6	5.0
Hexachlorobutadiene	<5.0		1.5	5.0
Naphthalene	<5.0		1.4	5.0
2,4-Dichlorophenol	<5.0		1.3	5.0
2,4,6-Trichlorophenol	<5.0		1.1	5.0
Hexachlorocyclopentadiene	<10		1.3	10
2-Chloronaphthalene	<5.0		1.4	5.0
4-Chloro-3-methylphenol	<5.0		1.4	5.0
2,6-Dinitrotoluene	<5.0		1.3	5.0
2-Nitrophenol	<5.0		1.2	5.0
Dimethyl phthalate	<5.0		1.2	5.0
2,4-Dinitrophenol	<20		8.1	20
Acenaphthylene	<5.0		1.5	5.0
2,4-Dinitrotoluene	<5.0		1.5	5.0
Acenaphthene	<5.0		1.5	5.0
4-Nitrophenol	<20		3.6	20
Fluorene	<5.0		1.6	5.0
1,2-Diphenylhydrazine	<5.0		1.4	5.0
4-Bromophenyl phenyl ether	<5.0		1.4	5.0
Hexachlorobenzene	<5.0		1.3	5.0
Diethyl phthalate	<5.0		1.3	5.0
4-Chlorophenyl phenyl ether	<5.0		1.3	5.0
Pentachlorophenol	<20		7.5	20
N-Nitrosodiphenylamine	<5.0		1.8	5.0
4,6-Dinitro-2-methylphenol	<20		5.0	20
Phenanthrene	<5.0		1.4	5.0
Anthracene	<5.0		1.4	5.0
Dibenzofuran	<5.0		1.5	5.0
Di-n-butyl phthalate	<5.0		1.2	5.0
Benzidine	<50		10	50
Fluoranthene	<5.0		1.4	5.0

Client: Bodine Environmental Services

Job Number: 500-29093-1

Method Blank - Batch: 500-99268

Method: 625
Preparation: 625

Lab Sample ID: MB 500-99268/1-A
Client Matrix: Water
Dilution: 1.0
Date Analyzed: 11/12/2010 1013
Date Prepared: 11/05/2010 1932

Analysis Batch: 500-99724
Prep Batch: 500-99268
Units: ug/L

Instrument ID: CMS20
Lab File ID: 99193M.D
Initial Weight/Volume: 1000 mL
Final Weight/Volume: 1.0 mL
Injection Volume: 1 uL

Analyte	Result	Qual	MDL	RL
Pyrene	<5.0		1.4	5.0
Butyl benzyl phthalate	<5.0		1.3	5.0
Benzo[a]anthracene	<5.0		1.1	5.0
Chrysene	<5.0		1.3	5.0
3,3'-Dichlorobenzidine	<5.0		1.3	5.0
Bis(2-ethylhexyl) phthalate	<10		1.1	10
Di-n-octyl phthalate	<10		1.6	10
Benzo[b]fluoranthene	<5.0		1.1	5.0
Benzo[k]fluoranthene	<5.0		1.4	5.0
Benzo[a]pyrene	<5.0		1.2	5.0
Indeno[1,2,3-cd]pyrene	<5.0		1.3	5.0
Dibenz(a,h)anthracene	<5.0		1.4	5.0
Benzo[g,h,i]perylene	<5.0		1.4	5.0
3 & 4 Methylphenol	<5.0		1.3	5.0

Surrogate	% Rec	Acceptance Limits
2-Fluorophenol	28	10 - 110
Phenol-d5	21	10 - 110
Nitrobenzene-d5	54	28 - 110
2-Fluorobiphenyl	48	31 - 110
2,4,6-Tribromophenol	54	34 - 116
Terphenyl-d14	79	20 - 133

Client: Bodine Environmental Services

Job Number: 500-29093-1

Lab Control Sample - Batch: 500-99268

Method: 625
Preparation: 625

Lab Sample ID: LCS 500-99268/2-A
Client Matrix: Water
Dilution: 1.0
Date Analyzed: 11/12/2010 1116
Date Prepared: 11/05/2010 1932

Analysis Batch: 500-99724
Prep Batch: 500-99268
Units: ug/L

Instrument ID: CMS20
Lab File ID: 99193BS.D
Initial Weight/Volume: 1000 mL
Final Weight/Volume: 1.0 mL
Injection Volume: 1 uL

Analyte	Spike Amount	Result	% Rec.	Limit	Qual
N-Nitrosodimethylamine	50.0	24.7	49	10 - 200	
Phenol	50.0	19.1	38	5 - 112	
Bis(2-chloroethyl)ether	50.0	30.7	61	12 - 158	
2,2'-oxybis[1-chloropropane]	50.0	34.1	68	36 - 166	
N-Nitrosodi-n-propylamine	50.0	43.5	87	10 - 230	
Hexachloroethane	50.0	34.6	69	40 - 113	
2-Chlorophenol	50.0	33.6	67	23 - 134	
2-Methylphenol	50.0	30.7	61	30 - 146	
Nitrobenzene	50.0	37.5	75	35 - 180	
Bis(2-chloroethoxy)methane	50.0	38.5	77	33 - 184	
1,2,4-Trichlorobenzene	50.0	36.7	73	44 - 142	
Isophorone	50.0	36.8	74	21 - 196	
2,4-Dimethylphenol	50.0	35.3	71	32 - 119	
Hexachlorobutadiene	50.0	38.0	76	24 - 116	
Naphthalene	50.0	38.3	77	21 - 133	
2,4-Dichlorophenol	50.0	38.9	78	39 - 135	
2,4,6-Trichlorophenol	50.0	40.7	81	37 - 144	
Hexachlorocyclopentadiene	50.0	30.6	61	10 - 200	
2-Chloronaphthalene	50.0	41.6	83	60 - 118	
4-Chloro-3-methylphenol	50.0	41.7	83	22 - 147	
2,6-Dinitrotoluene	50.0	49.8	100	50 - 158	
2-Nitrophenol	50.0	38.0	76	29 - 182	
Dimethyl phthalate	50.0	47.4	95	10 - 112	
2,4-Dinitrophenol	50.0	42.3	85	10 - 191	
Acenaphthylene	50.0	44.0	88	33 - 145	
2,4-Dinitrotoluene	50.0	53.3	107	39 - 139	
Acenaphthene	50.0	42.7	85	47 - 145	
4-Nitrophenol	50.0	19.0	38	10 - 132	J
Fluorene	50.0	47.8	96	59 - 121	
4-Bromophenyl phenyl ether	50.0	46.8	94	53 - 127	
Hexachlorobenzene	50.0	50.3	101	10 - 152	
Diethyl phthalate	50.0	51.2	102	10 - 114	
4-Chlorophenyl phenyl ether	50.0	47.2	94	25 - 158	
Pentachlorophenol	50.0	45.5	91	14 - 176	
N-Nitrosodiphenylamine	50.0	49.4	99	10 - 200	
4,6-Dinitro-2-methylphenol	50.0	45.8	92	10 - 181	
Phenanthrene	50.0	51.3	103	54 - 120	
Anthracene	50.0	50.2	100	27 - 133	
Dibenzofuran	50.0	46.2	92		
Di-n-butyl phthalate	50.0	51.6	103	1 - 118	
Benzidine	50.0	<50	9	10 - 200	*
Fluoranthene	50.0	50.2	100	26 - 137	
Pyrene	50.0	52.1	104	52 - 115	

Client: Bodine Environmental Services

Job Number: 500-29093-1

Lab Control Sample - Batch: 500-99268

Method: 625
Preparation: 625

Lab Sample ID: LCS 500-99268/2-A
Client Matrix: Water
Dilution: 1.0
Date Analyzed: 11/12/2010 1116
Date Prepared: 11/05/2010 1932

Analysis Batch: 500-99724
Prep Batch: 500-99268
Units: ug/L

Instrument ID: CMS20
Lab File ID: 99193BS.D
Initial Weight/Volume: 1000 mL
Final Weight/Volume: 1.0 mL
Injection Volume: 1 uL

Analyte	Spike Amount	Result	% Rec.	Limit	Qual
Butyl benzyl phthalate	50.0	53.6	107	10 - 152	
Benzo[a]anthracene	50.0	54.2	108	33 - 143	
Chrysene	50.0	48.4	97	17 - 168	
3,3'-Dichlorobenzidine	50.0	45.3	91	10 - 262	
Bis(2-ethylhexyl) phthalate	50.0	50.8	102	8 - 158	
Di-n-octyl phthalate	50.0	49.5	99	4 - 146	
Benzo[b]fluoranthene	50.0	48.2	96	24 - 159	
Benzo[k]fluoranthene	50.0	49.4	99	11 - 162	
Benzo[a]pyrene	50.0	47.8	96	17 - 163	
Indeno[1,2,3-cd]pyrene	50.0	47.8	96	10 - 171	
Dibenz(a,h)anthracene	50.0	48.5	97	10 - 227	
Benzo[g,h,i]perylene	50.0	45.8	92	10 - 219	
3 & 4 Methylphenol	50.0	30.3	61	11 - 150	

Surrogate	% Rec	Acceptance Limits
2-Fluorophenol	36	10 - 110
Phenol-d5	28	10 - 110
Nitrobenzene-d5	72	28 - 110
2-Fluorobiphenyl	78	31 - 110
2,4,6-Tribromophenol	97	34 - 116
Terphenyl-d14	100	20 - 133

Client: Bodine Environmental Services

Job Number: 500-29093-1

Method Blank - Batch: 500-99309

Method: 200.7 Rev 4.4
Preparation: 200.7
Total Recoverable

Lab Sample ID: MB 500-99309/1-A
Client Matrix: Water
Dilution: 1.0
Date Analyzed: 11/10/2010 0006
Date Prepared: 11/08/2010 0800

Analysis Batch: 500-99360
Prep Batch: 500-99309
Units: mg/L

Instrument ID: ICP5
Lab File ID: P51108C
Initial Weight/Volume: 50 mL
Final Weight/Volume: 25 mL

Analyte	Result	Qual	MDL	RL
Arsenic	<0.0050		0.0013	0.0050
Barium	<0.0050		0.00081	0.0050
Cadmium	<0.0010	^	0.00022	0.0010
Chromium	<0.0050		0.00076	0.0050
Copper	<0.0050		0.0013	0.0050
Lead	<0.0025		0.00084	0.0025
Nickel	<0.0050		0.00084	0.0050
Selenium	<0.0050		0.0013	0.0050
Silver	<0.0025		0.00076	0.0025
Iron	<0.10		0.029	0.10
Zinc	0.00355	J ^	0.0022	0.010
Manganese	<0.0050		0.00084	0.0050

Lab Control Sample - Batch: 500-99309

Method: 200.7 Rev 4.4
Preparation: 200.7
Total Recoverable

Lab Sample ID: LCS 500-99309/2-A
Client Matrix: Water
Dilution: 1.0
Date Analyzed: 11/10/2010 0012
Date Prepared: 11/08/2010 0800

Analysis Batch: 500-99360
Prep Batch: 500-99309
Units: mg/L

Instrument ID: ICP5
Lab File ID: P51108C
Initial Weight/Volume: 50 mL
Final Weight/Volume: 25 mL

Analyte	Spike Amount	Result	% Rec.	Limit	Qual
Arsenic	0.0500	0.0488	98	85 - 115	
Barium	1.00	1.00	100	85 - 115	
Cadmium	0.0250	0.0243	97	85 - 115	^
Chromium	0.100	0.0992	99	85 - 115	
Copper	0.125	0.128	102	85 - 115	
Lead	0.0500	0.0499	100	85 - 115	
Nickel	0.250	0.246	98	85 - 115	
Selenium	0.0500	0.0465	93	85 - 115	
Silver	0.0250	0.0228	91	85 - 115	
Iron	0.500	0.512	102	85 - 115	
Zinc	0.250	0.239	96	85 - 115	^
Manganese	0.250	0.260	104	85 - 115	

Client: Bodine Environmental Services

Job Number: 500-29093-1

Matrix Spike - Batch: 500-99309

Method: 200.7 Rev 4.4
Preparation: 200.7
Total Recoverable

Lab Sample ID: 500-29093-1
Client Matrix: Water
Dilution: 1.0
Date Analyzed: 11/10/2010 0037
Date Prepared: 11/08/2010 0800

Analysis Batch: 500-99360
Prep Batch: 500-99309
Units: mg/L

Instrument ID: ICP5
Lab File ID: P51108C
Initial Weight/Volume: 50 mL
Final Weight/Volume: 25 mL

Analyte	Sample Result/Qual		Spike Amount	Result	% Rec.	Limit	Qual
Arsenic	0.0032	J	0.0500	0.0512	96	70 - 130	
Barium	0.35		1.00	1.32	97	70 - 130	
Cadmium	<0.0010		0.0250	0.0227	91	70 - 130	^
Chromium	<0.0050		0.100	0.0925	93	70 - 130	
Copper	0.0013	J	0.125	0.126	101	70 - 130	
Lead	0.0022	J	0.0500	0.0489	93	70 - 130	
Nickel	<0.0050		0.250	0.227	91	70 - 130	
Selenium	<0.0050		0.0500	0.0351	70	70 - 130	
Silver	<0.0025		0.0250	0.0226	90	70 - 130	
Iron	4.8		0.500	5.13	69	70 - 130	4
Zinc	0.0069	J	0.250	0.220	85	70 - 130	^
Manganese	0.47		0.250	0.699	92	70 - 130	

Duplicate - Batch: 500-99309

Method: 200.7 Rev 4.4
Preparation: 200.7
Total Recoverable

Lab Sample ID: 500-29093-1
Client Matrix: Water
Dilution: 1.0
Date Analyzed: 11/10/2010 0031
Date Prepared: 11/08/2010 0800

Analysis Batch: 500-99360
Prep Batch: 500-99309
Units: mg/L

Instrument ID: ICP5
Lab File ID: P51108C
Initial Weight/Volume: 50 mL
Final Weight/Volume: 25 mL

Analyte	Sample Result/Qual		Result	RPD	Limit	Qual
Arsenic	0.0032	J	0.00392	20	20	J
Barium	0.35		0.369	5	20	
Cadmium	<0.0010		<0.0010	NC	20	^
Chromium	<0.0050		<0.0050	NC	20	
Copper	0.0013	J	0.00144	NC	20	J
Lead	0.0022	J	0.00260	14	20	
Nickel	<0.0050		<0.0050	NC	20	
Selenium	<0.0050		<0.0050	NC	20	
Silver	<0.0025		<0.0025	NC	20	
Iron	4.8		5.00	4	20	
Zinc	0.0069	J	0.00608	13	20	J ^
Manganese	0.47		0.492	5	20	

Client: Bodine Environmental Services

Job Number: 500-29093-1

Method Blank - Batch: 500-99335

Method: 245.1
Preparation: 245.1

Lab Sample ID: MB 500-99335/1-A
Client Matrix: Water
Dilution: 1.0
Date Analyzed: 11/10/2010 1421
Date Prepared: 11/08/2010 1541

Analysis Batch: 500-99549
Prep Batch: 500-99335
Units: mg/L

Instrument ID: HG5
Lab File ID: 111010R.PRN
Initial Weight/Volume: 25 mL
Final Weight/Volume: 25 mL

Analyte	Result	Qual	MDL	RL
Mercury	<0.00020		0.000051	0.00020

Lab Control Sample - Batch: 500-99335

Method: 245.1
Preparation: 245.1

Lab Sample ID: LCS 500-99335/2-A
Client Matrix: Water
Dilution: 1.0
Date Analyzed: 11/10/2010 1423
Date Prepared: 11/08/2010 1541

Analysis Batch: 500-99549
Prep Batch: 500-99335
Units: mg/L

Instrument ID: HG5
Lab File ID: 111010R.PRN
Initial Weight/Volume: 25 mL
Final Weight/Volume: 25 mL

Analyte	Spike Amount	Result	% Rec.	Limit	Qual
Mercury	0.00200	0.00192	96	85 - 115	

Client: Bodine Environmental Services

Job Number: 500-29093-1

Method Blank - Batch: 500-99484

Method: 1664A
Preparation: 1664A

Lab Sample ID: MB 500-99484/1-A
Client Matrix: Water
Dilution: 1.0
Date Analyzed: 11/10/2010 1540
Date Prepared: 11/10/2010 0750

Analysis Batch: 500-99485
Prep Batch: 500-99484
Units: mg/L

Instrument ID: No Equipment Assigned
Lab File ID: N/A
Initial Weight/Volume: 1000 mL
Final Weight/Volume: 1000 mL

Analyte	Result	Qual	MDL	RL
HEM (Oil & Grease)	<5.0		1.9	5.0

Lab Control Sample - Batch: 500-99484

Method: 1664A
Preparation: 1664A

Lab Sample ID: LCS 500-99484/2-A
Client Matrix: Water
Dilution: 1.0
Date Analyzed: 11/10/2010 1543
Date Prepared: 11/10/2010 0807

Analysis Batch: 500-99485
Prep Batch: 500-99484
Units: mg/L

Instrument ID: No Equipment Assigned
Lab File ID: N/A
Initial Weight/Volume: 1000 mL
Final Weight/Volume: 1000 mL

Analyte	Spike Amount	Result	% Rec.	Limit	Qual
HEM (Oil & Grease)	40.0	35.7	89	78 - 114	

Client: Bodine Environmental Services

Job Number: 500-29093-1

Method Blank - Batch: 500-99401

Method: 420.2
Preparation: Distill/Phenol

Lab Sample ID: MB 500-99401/1-A
Client Matrix: Water
Dilution: 1.0
Date Analyzed: 11/10/2010 0830
Date Prepared: 11/09/2010 0900

Analysis Batch: 500-99497
Prep Batch: 500-99401
Units: mg/L

Instrument ID: AQ2
Lab File ID: 2010-11-10-8-47-6.csv
Initial Weight/Volume: 100 mL
Final Weight/Volume: 100 mL

Analyte	Result	Qual	MDL	RL
Phenolics, Total Recoverable	<0.0050		0.0029	0.0050

Lab Control Sample - Batch: 500-99401

Method: 420.2
Preparation: Distill/Phenol

Lab Sample ID: LCS 500-99401/2-A
Client Matrix: Water
Dilution: 1.0
Date Analyzed: 11/10/2010 0832
Date Prepared: 11/09/2010 0900

Analysis Batch: 500-99497
Prep Batch: 500-99401
Units: mg/L

Instrument ID: AQ2
Lab File ID: 2010-11-10-8-47-6.csv
Initial Weight/Volume: 100 mL
Final Weight/Volume: 100 mL

Analyte	Spike Amount	Result	% Rec.	Limit	Qual
Phenolics, Total Recoverable	0.100	0.0923	92	90 - 110	

Client: Bodine Environmental Services

Job Number: 500-29093-1

Method Blank - Batch: 500-99248

Method: SM 2540D
Preparation: N/A

Lab Sample ID: MB 500-99248/1
Client Matrix: Water
Dilution: 1.0
Date Analyzed: 11/07/2010 1903
Date Prepared: N/A

Analysis Batch: 500-99248
Prep Batch: N/A
Units: mg/L

Instrument ID: No Equipment Assigned
Lab File ID: N/A
Initial Weight/Volume: 200 mL
Final Weight/Volume: 200 mL

Analyte	Result	Qual	MDL	RL
Total Suspended Solids	<5.0		1.0	5.0

Lab Control Sample - Batch: 500-99248

Method: SM 2540D
Preparation: N/A

Lab Sample ID: LCS 500-99248/2
Client Matrix: Water
Dilution: 1.0
Date Analyzed: 11/07/2010 1906
Date Prepared: N/A

Analysis Batch: 500-99248
Prep Batch: N/A
Units: mg/L

Instrument ID: No Equipment Assigned
Lab File ID: N/A
Initial Weight/Volume: 200 mL
Final Weight/Volume: 200 mL

Analyte	Spike Amount	Result	% Rec.	Limit	Qual
Total Suspended Solids	200	206	103	80 - 120	

Client: Bodine Environmental Services

Job Number: 500-29093-1

Method Blank - Batch: 500-99499

Method: SM 4500 CN E
Preparation: Distill/CN

Lab Sample ID: MB 500-99499/1-A
Client Matrix: Water
Dilution: 1.0
Date Analyzed: 11/10/2010 1235
Date Prepared: 11/10/2010 0925

Analysis Batch: 500-99529
Prep Batch: 500-99499
Units: mg/L

Instrument ID: SPEC5
Lab File ID: N/A
Initial Weight/Volume: 50 mL
Final Weight/Volume: 50 mL

Analyte	Result	Qual	MDL	RL
Cyanide, Total	<0.010		0.0011	0.010

Client: Bodine Environmental Services

Job Number: 500-29093-1

Lab Control Sample - Batch: 500-99499

Method: SM 4500 CN E
Preparation: Distill/CN

Lab Sample ID: LCS 500-99499/2-A
Client Matrix: Water
Dilution: 1.0
Date Analyzed: 11/10/2010 1236
Date Prepared: 11/10/2010 0925

Analysis Batch: 500-99529
Prep Batch: 500-99499
Units: mg/L

Instrument ID: SPEC5
Lab File ID: N/A
Initial Weight/Volume: 50 mL
Final Weight/Volume: 50 mL

Analyte	Spike Amount	Result	% Rec.	Limit	Qual
Cyanide, Total	0.100	0.0946	95	80 - 120	

Low Level Control Sample - Batch: 500-99499

Method: SM 4500 CN E
Preparation: Distill/CN

Lab Sample ID: LLCS 500-99499/4-A
Client Matrix: Water
Dilution: 1.0
Date Analyzed: 11/10/2010 1236
Date Prepared: 11/10/2010 0925

Analysis Batch: 500-99529
Prep Batch: 500-99499
Units: mg/L

Instrument ID: SPEC5
Lab File ID: N/A
Initial Weight/Volume: 50 mL
Final Weight/Volume: 50 mL

Analyte	Spike Amount	Result	% Rec.	Limit	Qual
Cyanide, Total	0.0400	0.0397	99	75 - 125	

High Level Control Sample - Batch: 500-99499

Method: SM 4500 CN E
Preparation: Distill/CN

Lab Sample ID: HLCS 500-99499/3-A
Client Matrix: Water
Dilution: 1.0
Date Analyzed: 11/10/2010 1237
Date Prepared: 11/10/2010 0925

Analysis Batch: 500-99529
Prep Batch: 500-99499
Units: mg/L

Instrument ID: SPEC5
Lab File ID: N/A
Initial Weight/Volume: 50 mL
Final Weight/Volume: 50 mL

Analyte	Spike Amount	Result	% Rec.	Limit	Qual
Cyanide, Total	0.400	0.368	92	90 - 110	

Client: Bodine Environmental Services

Job Number: 500-29093-1

Unseeded Control Blank - Batch: 500-99192

Method: SM 5210B
Preparation: N/A

Lab Sample ID: USB 500-99192/1
Client Matrix: Water
Dilution: 1.0
Date Analyzed: 11/05/2010 1155
Date Prepared: N/A

Analysis Batch: 500-99192
Prep Batch: N/A
Units: mg/L

Instrument ID: No Equipment Assigned
Lab File ID: N/A
Initial Weight/Volume: 1.0 mL
Final Weight/Volume: 1.0 mL

Analyte	Result	Qual	MDL	RL
Biochemical Oxygen Demand	<2.0		2.0	2.0

Lab Control Sample - Batch: 500-99192

Method: SM 5210B
Preparation: N/A

Lab Sample ID: LCS 500-99192/2
Client Matrix: Water
Dilution: 1.0
Date Analyzed: 11/05/2010 1159
Date Prepared: N/A

Analysis Batch: 500-99192
Prep Batch: N/A
Units: mg/L

Instrument ID: No Equipment Assigned
Lab File ID: N/A
Initial Weight/Volume: 1.0 mL
Final Weight/Volume: 1.0 mL

Analyte	Spike Amount	Result	% Rec.	Limit	Qual
Biochemical Oxygen Demand	198	198	100	85 - 115	

Login Sample Receipt Check List

Client: Bodine Environmental Services

Job Number: 500-29093-1

Login Number: 29093
Creator: Lunt, Jeff T
List Number: 1

List Source: TestAmerica Chicago

Question	T / F/ NA	Comment
Radioactivity either was not measured or, if measured, is at or below background	True	
The cooler's custody seal, if present, is intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	2.6
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the sample IDs on the containers and the COC.	True	
Samples are received within Holding Time.	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified	True	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
VOA sample vials do not have headspace or bubble is <6mm (1/4") in diameter.	True	
If necessary, staff have been informed of any short hold time or quick TAT needs	True	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	

APPENDIX C

System Operational Sample Results

TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING

ANALYTICAL REPORT

Job Number: 500-28524-1

Job Description: Jennison Wright

For:
Bodine Environmental Services
5350 East Firehouse Road
Decatur, IL 62521-9601

Attention: Troy McFate

Cindy Pritchard

Approved for release.
Cindy R Pritchard
Project Mgmt. Assistant
10/21/2010 3:15 PM

Designee for
Richard C Wright
Project Manager II
richard.wright@testamericainc.com
10/21/2010

These test results meet all the requirements of NELAC for accredited parameters.

The Lab Certification ID#:
TestAmerica Chicago 100201
TestAmerica West Sacramento CA00044

All questions regarding this test report should be directed to the TestAmerica Project Manager whose signature appears on this report. All pages of this report are integral parts of the analytical data. Therefore, this report should be reproduced only in its entirety.

Reporting limits are adjusted for sample size used, dilutions and moisture content if applicable.

TestAmerica Laboratories, Inc.
TestAmerica Chicago 2417 Bond Street, University Park, IL 60484
Tel (708) 534-5200 Fax (708) 534-5211 www.testamericainc.com

ACCREDITED IN ACCORDANCE WITH nelac

Comments
No additional comments.

Receipt
All samples were received in good condition within temperature requirements.

GC/MS Semi VOA
Method(s) 625: The following sample was diluted due to the abundance of non-target analytes: GWOUA(10132010) (500-28524-1). Elevated reporting limits (RLs) are provided.

Method(s) 625: Due to the level of dilution required for the following sample (500-28534-1 DL), surrogate recoveries are not reported: GWOUA(10132010) (500-28524-1).

No other analytical or quality issues were noted.

General Chemistry
No analytical or quality issues were noted.

Organic Prep
No analytical or quality issues were noted.

EXECUTIVE SUMMARY - Detections

Client: Bodine Environmental Services

Job Number: 500-28524-1

Lab Sample ID / Analyte	Client Sample ID	Result / Qualifier		Reporting Limit	Units	Method
500-28524-1	**GWOUA(10132010)**					
Phenol		46	J	95	ug/L	625
2-Methylphenol		200		48	ug/L	625
2,4-Dimethylphenol		220		48	ug/L	625
Naphthalene		3600		480	ug/L	625
Acenaphthylene		16	J	48	ug/L	625
Acenaphthene		380		48	ug/L	625
Fluorene		270		48	ug/L	625
Pentachlorophenol		130	J	190	ug/L	625
Phenanthrene		490		48	ug/L	625
Anthracene		61		48	ug/L	625
Dibenzofuran		250		48	ug/L	625
Fluoranthene		210		48	ug/L	625
Pyrene		150		48	ug/L	625
Benzo[a]anthracene		46	J	48	ug/L	625
Chrysene		41	J	48	ug/L	625
Benzo[b]fluoranthene		23	J	48	ug/L	625
Benzo[k]fluoranthene		16	J	48	ug/L	625
Benzo[a]pyrene		22	J	48	ug/L	625
3 & 4 Methylphenol		470		48	ug/L	625
HEM (Oil & Grease)		6.4	B	5.1	mg/L	1664A
500-28524-2	**GWOUB(10132010)**					
HEM (Oil & Grease)		7.9	B	5.1	mg/L	1664A
Total Suspended Solids		3.5	J	5.0	mg/L	SM 2540D
500-28524-3	**GWOUC(10132010)**					
HEM (Oil & Grease)		3.6	J B	5.1	mg/L	1664A
Total Suspended Solids		2.5	J	5.0	mg/L	SM 2540D
500-28524-4	**GWOUE(10132010)**					
2,4-Dimethylphenol		2.2	J	4.7	ug/L	625
Bis(2-ethylhexyl) phthalate		11		9.4	ug/L	625
Total Suspended Solids		1.5	J	5.0	mg/L	SM 2540D

METHOD SUMMARY

Client: Bodine Environmental Services

Job Number: 500-28524-1

Description	Lab Location	Method	Preparation Method
Matrix: Water			
Semivolatile Organic Compounds (GC/MS)	TAL CHI	40CFR136A 625	
Liquid-Liquid Extraction	TAL CHI		40CFR136A 625
HEM and SGT-HEM	TAL CHI	1664A 1664A	
HEM and SGT-HEM (SPE)	TAL CHI		1664A 1664A
Solids, Total Suspended (TSS)	TAL CHI	SM SM 2540D	
BOD, 5-Day	TAL CHI	SM SM 5210B	

Lab References:

TAL CHI = TestAmerica Chicago

Method References:

1664A = EPA-821-98-002

40CFR136A = "Methods for Organic Chemical Analysis of Municipal Industrial Wastewater", 40CFR, Part 136, Appendix A, October 26, 1984 and subsequent revisions.

SM = "Standard Methods For The Examination Of Water And Wastewater",

METHOD / ANALYST SUMMARY

Client: Bodine Environmental Services

Job Number: 500-28524-1

Method	Analyst	Analyst ID
40CFR136A 625	Bergen, Joe	JB
1664A 1664A	Brogan, Mary T	MTB
SM SM 2540D	Boyd, Cheryl L	CLB
SM SM 5210B	Brogan, Mary T	MTB

SAMPLE SUMMARY

Client: Bodine Environmental Services

Job Number: 500-28524-1

Lab Sample ID	Client Sample ID	Client Matrix	Date/Time Sampled	Date/Time Received
500-28524-1	GWOUA(10132010)	Water	10/13/2010 1351	10/14/2010 1030
500-28524-2	GWOUB(10132010)	Water	10/13/2010 1340	10/14/2010 1030
500-28524-3	GWOUC(10132010)	Water	10/13/2010 1346	10/14/2010 1030
500-28524-4	GWOUE(10132010)	Water	10/13/2010 1357	10/14/2010 1030

SAMPLE RESULTS

Troy McFate
Bodine Environmental Services
5350 East Firehouse Road
Decatur, IL 62521-9601

Job Number: 500-28524-1

Client Sample ID: GWOUA(10132010)
Lab Sample ID: 500-28524-1

Date Sampled: 10/13/2010 1351
Date Received: 10/14/2010 1030
Client Matrix: Water

Analyte	Result/Qualifier		Unit	MDL	RL	Dilution
Method: 625			Date Analyzed:		10/21/2010 0119	
Prep Method: 625			Date Prepared:		10/15/2010 0925	
N-Nitrosodimethylamine	<95		ug/L	50	95	10
Phenol	46	J	ug/L	8.5	95	10
Bis(2-chloroethyl)ether	<48		ug/L	14	48	10
2,2'-oxybis[1-chloropropane]	<48		ug/L	14	48	10
N-Nitrosodi-n-propylamine	<48		ug/L	15	48	10
Hexachloroethane	<48		ug/L	11	48	10
2-Chlorophenol	<48		ug/L	10	48	10
2-Methylphenol	200		ug/L	10	48	10
Nitrobenzene	<48		ug/L	12	48	10
Bis(2-chloroethoxy)methane	<48		ug/L	14	48	10
1,2,4-Trichlorobenzene	<48		ug/L	13	48	10
Isophorone	<48		ug/L	14	48	10
2,4-Dimethylphenol	220		ug/L	16	48	10
Hexachlorobutadiene	<48		ug/L	14	48	10
2,4-Dichlorophenol	<48		ug/L	13	48	10
2,4,6-Trichlorophenol	<48		ug/L	10	48	10
Hexachlorocyclopentadiene	<95		ug/L	12	95	10
2-Chloronaphthalene	<48		ug/L	14	48	10
4-Chloro-3-methylphenol	<48		ug/L	13	48	10
2,6-Dinitrotoluene	<48		ug/L	12	48	10
2-Nitrophenol	<48		ug/L	12	48	10
Dimethyl phthalate	<48		ug/L	11	48	10
2,4-Dinitrophenol	<190		ug/L	77	190	10
Acenaphthylene	16	J	ug/L	14	48	10
2,4-Dinitrotoluene	<48		ug/L	14	48	10
Acenaphthene	380		ug/L	14	48	10
4-Nitrophenol	<190		ug/L	34	190	10
Fluorene	270		ug/L	15	48	10
1,2-Diphenylhydrazine	<48		ug/L	13	48	10
4-Bromophenyl phenyl ether	<48		ug/L	14	48	10
Hexachlorobenzene	<48		ug/L	12	48	10
Diethyl phthalate	<48		ug/L	12	48	10
4-Chlorophenyl phenyl ether	<48		ug/L	13	48	10
Pentachlorophenol	130	J	ug/L	71	190	10
N-Nitrosodiphenylamine	<48		ug/L	17	48	10
4,6-Dinitro-2-methylphenol	<190		ug/L	48	190	10
Phenanthrene	490		ug/L	13	48	10
Anthracene	61		ug/L	14	48	10
Dibenzofuran	250		ug/L	14	48	10

Troy McFate
Bodine Environmental Services
5350 East Firehouse Road
Decatur, IL 62521-9601

Job Number: 500-28524-1

Client Sample ID: GWOUA(10132010)
Lab Sample ID: 500-28524-1

Date Sampled: 10/13/2010 1351
Date Received: 10/14/2010 1030
Client Matrix: Water

Analyte	Result/Qualifier		Unit	MDL	RL	Dilution
Di-n-butyl phthalate	<48		ug/L	12	48	10
Benzidine	<480		ug/L	95	480	10
Fluoranthene	210		ug/L	13	48	10
Pyrene	150		ug/L	14	48	10
Butyl benzyl phthalate	<48		ug/L	12	48	10
Benzo[a]anthracene	46	J	ug/L	11	48	10
Chrysene	41	J	ug/L	13	48	10
3,3'-Dichlorobenzidine	<48		ug/L	12	48	10
Bis(2-ethylhexyl) phthalate	<95		ug/L	11	95	10
Di-n-octyl phthalate	<95		ug/L	15	95	10
Benzo[b]fluoranthene	23	J	ug/L	11	48	10
Benzo[k]fluoranthene	16	J	ug/L	13	48	10
Benzo[a]pyrene	22	J	ug/L	11	48	10
Indeno[1,2,3-cd]pyrene	<48		ug/L	13	48	10
Dibenz(a,h)anthracene	<48		ug/L	14	48	10
Benzo[g,h,i]perylene	<48		ug/L	14	48	10
3 & 4 Methylphenol	470		ug/L	13	48	10

Surrogate			Acceptance Limits
2-Fluorophenol	37	%	10 - 110
Phenol-d5	26	%	10 - 110
Nitrobenzene-d5	82	%	28 - 110
2-Fluorobiphenyl	87	%	31 - 110
2,4,6-Tribromophenol	106	%	34 - 116
Terphenyl-d14	101	%	20 - 133

Method: 625 Run Type: DL Date Analyzed: 10/21/2010 0141
Prep Method: 625 Date Prepared: 10/15/2010 0925

Naphthalene	3600		ug/L	140	480	100

Surrogate				Acceptance Limits
2-Fluorophenol	0	D	%	10 - 110
Phenol-d5	0	D	%	10 - 110
Nitrobenzene-d5	0	D	%	28 - 110
2-Fluorobiphenyl	0	D	%	31 - 110
2,4,6-Tribromophenol	0	D	%	34 - 116
Terphenyl-d14	0	D	%	20 - 133

Method: 1664A Date Analyzed: 10/18/2010 1122
Prep Method: 1664A Date Prepared: 10/18/2010 0708

HEM (Oil & Grease)	6.4	B	mg/L	1.9	5.1	1.0

Troy McFate
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Job Number: 500-28524-1

Client Sample ID: GWOUB(10132010)
Lab Sample ID: 500-28524-2

Date Sampled: 10/13/2010 1340
Date Received: 10/14/2010 1030
Client Matrix: Water

Analyte	Result/Qualifier		Unit	MDL	RL	Dilution
Method: 1664A			Date Analyzed:		10/18/2010 1130	
Prep Method: 1664A			Date Prepared:		10/18/2010 0721	
HEM (Oil & Grease)	7.9	B	mg/L	2.0	5.1	1.0
Method: SM 2540D			Date Analyzed:		10/14/2010 2154	
Total Suspended Solids	3.5	J	mg/L	1.0	5.0	1.0

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Job Number: 500-28524-1

Client Sample ID: GWOUC(10132010)
Lab Sample ID: 500-28524-3

Date Sampled: 10/13/2010 1346
Date Received: 10/14/2010 1030
Client Matrix: Water

Analyte	Result/Qualifier		Unit	MDL	RL	Dilution
Method: 1664A			Date Analyzed:		10/18/2010 1137	
Prep Method: 1664A			Date Prepared:		10/18/2010 0733	
HEM (Oil & Grease)	3.6	J B	mg/L	1.9	5.1	1.0
Method: SM 2540D			Date Analyzed:		10/14/2010 2156	
Total Suspended Solids	2.5	J	mg/L	1.0	5.0	1.0

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Job Number: 500-28524-1

Client Sample ID: GWOUE(10132010)
Lab Sample ID: 500-28524-4

Date Sampled: 10/13/2010 1357
Date Received: 10/14/2010 1030
Client Matrix: Water

Analyte	Result/Qualifier		Unit	MDL	RL	Dilution
Method: 625			Date Analyzed:	10/21/2010 0056		
Prep Method: 625			Date Prepared:	10/15/2010 0925		
N-Nitrosodimethylamine	<9.4		ug/L	4.9	9.4	1.0
Phenol	<9.4		ug/L	0.84	9.4	1.0
Bis(2-chloroethyl)ether	<4.7		ug/L	1.3	4.7	1.0
2,2'-oxybis[1-chloropropane]	<4.7		ug/L	1.3	4.7	1.0
N-Nitrosodi-n-propylamine	<4.7		ug/L	1.5	4.7	1.0
Hexachloroethane	<4.7		ug/L	1.1	4.7	1.0
2-Chlorophenol	<4.7		ug/L	1.0	4.7	1.0
2-Methylphenol	<4.7		ug/L	1.0	4.7	1.0
Nitrobenzene	<4.7		ug/L	1.2	4.7	1.0
Bis(2-chloroethoxy)methane	<4.7		ug/L	1.4	4.7	1.0
1,2,4-Trichlorobenzene	<4.7		ug/L	1.3	4.7	1.0
Isophorone	<4.7		ug/L	1.4	4.7	1.0
2,4-Dimethylphenol	2.2	J	ug/L	1.5	4.7	1.0
Hexachlorobutadiene	<4.7		ug/L	1.4	4.7	1.0
Naphthalene	<4.7		ug/L	1.3	4.7	1.0
2,4-Dichlorophenol	<4.7		ug/L	1.3	4.7	1.0
2,4,6-Trichlorophenol	<4.7		ug/L	1.0	4.7	1.0
Hexachlorocyclopentadiene	<9.4		ug/L	1.2	9.4	1.0
2-Chloronaphthalene	<4.7		ug/L	1.3	4.7	1.0
4-Chloro-3-methylphenol	<4.7		ug/L	1.3	4.7	1.0
2,6-Dinitrotoluene	<4.7		ug/L	1.2	4.7	1.0
2-Nitrophenol	<4.7		ug/L	1.2	4.7	1.0
Dimethyl phthalate	<4.7		ug/L	1.1	4.7	1.0
2,4-Dinitrophenol	<19		ug/L	7.6	19	1.0
Acenaphthylene	<4.7		ug/L	1.4	4.7	1.0
2,4-Dinitrotoluene	<4.7		ug/L	1.4	4.7	1.0
Acenaphthene	<4.7		ug/L	1.4	4.7	1.0
4-Nitrophenol	<19		ug/L	3.4	19	1.0
Fluorene	<4.7		ug/L	1.5	4.7	1.0
1,2-Diphenylhydrazine	<4.7		ug/L	1.3	4.7	1.0
4-Bromophenyl phenyl ether	<4.7		ug/L	1.3	4.7	1.0
Hexachlorobenzene	<4.7		ug/L	1.2	4.7	1.0
Diethyl phthalate	<4.7		ug/L	1.2	4.7	1.0
4-Chlorophenyl phenyl ether	<4.7		ug/L	1.2	4.7	1.0
Pentachlorophenol	<19		ug/L	7.1	19	1.0
N-Nitrosodiphenylamine	<4.7		ug/L	1.7	4.7	1.0
4,6-Dinitro-2-methylphenol	<19		ug/L	4.7	19	1.0
Phenanthrene	<4.7		ug/L	1.3	4.7	1.0
Anthracene	<4.7		ug/L	1.4	4.7	1.0

Troy McFate
Bodine Environmental Services
5350 East Firehouse Road
Decatur, IL 62521-9601

Job Number: 500-28524-1

Client Sample ID: GWOUE(10132010)
Lab Sample ID: 500-28524-4

Date Sampled: 10/13/2010 1357
Date Received: 10/14/2010 1030
Client Matrix: Water

Analyte	Result/Qualifier		Unit	MDL	RL	Dilution
Dibenzofuran	<4.7		ug/L	1.4	4.7	1.0
Di-n-butyl phthalate	<4.7		ug/L	1.2	4.7	1.0
Benzidine	<47		ug/L	9.4	47	1.0
Fluoranthene	<4.7		ug/L	1.3	4.7	1.0
Pyrene	<4.7		ug/L	1.3	4.7	1.0
Butyl benzyl phthalate	<4.7		ug/L	1.2	4.7	1.0
Benzo[a]anthracene	<4.7		ug/L	1.1	4.7	1.0
Chrysene	<4.7		ug/L	1.3	4.7	1.0
3,3'-Dichlorobenzidine	<4.7		ug/L	1.2	4.7	1.0
Bis(2-ethylhexyl) phthalate	11		ug/L	1.0	9.4	1.0
Di-n-octyl phthalate	<9.4		ug/L	1.5	9.4	1.0
Benzo[b]fluoranthene	<4.7		ug/L	1.1	4.7	1.0
Benzo[k]fluoranthene	<4.7		ug/L	1.3	4.7	1.0
Benzo[a]pyrene	<4.7		ug/L	1.1	4.7	1.0
Indeno[1,2,3-cd]pyrene	<4.7		ug/L	1.2	4.7	1.0
Dibenz(a,h)anthracene	<4.7		ug/L	1.4	4.7	1.0
Benzo[g,h,i]perylene	<4.7		ug/L	1.3	4.7	1.0
3 & 4 Methylphenol	<4.7		ug/L	1.2	4.7	1.0
Surrogate					Acceptance Limits	
2-Fluorophenol	36		%		10 - 110	
Phenol-d5	22		%		10 - 110	
Nitrobenzene-d5	72		%		28 - 110	
2-Fluorobiphenyl	70		%		31 - 110	
2,4,6-Tribromophenol	86		%		34 - 116	
Terphenyl-d14	75		%		20 - 133	
Method: SM 2540D			Date Analyzed:		10/14/2010 2158	
Total Suspended Solids	1.5	J	mg/L	1.0	5.0	1.0
Method: SM 5210B			Date Analyzed:		10/14/2010 1555	
Biochemical Oxygen Demand	<2.0		mg/L	2.0	2.0	1.0

DATA REPORTING QUALIFIERS

Client: Bodine Environmental Services

Job Number: 500-28524-1

Lab Section	Qualifier	Description
GC/MS Semi VOA		
	J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.
	D	Surrogate or matrix spike recoveries were not obtained because the extract was diluted for analysis; also compounds analyzed at a dilution may be flagged with a D.
General Chemistry		
	B	Compound was found in the blank and sample.
	J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.

QUALITY CONTROL RESULTS

Client: Bodine Environmental Services

Job Number: 500-28524-1

QC Association Summary

Lab Sample ID	Client Sample ID	Report Basis	Client Matrix	Method	Prep Batch
GC/MS Semi VOA					
Prep Batch: 500-97201					
LCS 500-97201/2-A	Lab Control Sample	T	Water	625	
MB 500-97201/1-A	Method Blank	T	Water	625	
500-28524-1	GWOUA(10132010)	T	Water	625	
500-28524-1DL	GWOUA(10132010)	T	Water	625	
500-28524-4	GWOUE(10132010)	T	Water	625	
Analysis Batch:500-97664					
LCS 500-97201/2-A	Lab Control Sample	T	Water	625	500-97201
MB 500-97201/1-A	Method Blank	T	Water	625	500-97201
500-28524-1	GWOUA(10132010)	T	Water	625	500-97201
500-28524-1DL	GWOUA(10132010)	T	Water	625	500-97201
500-28524-4	GWOUE(10132010)	T	Water	625	500-97201

Report Basis
T = Total

Client: Bodine Environmental Services

Job Number: 500-28524-1

QC Association Summary

Lab Sample ID	Client Sample ID	Report Basis	Client Matrix	Method	Prep Batch
General Chemistry					
Analysis Batch:500-97144					
LCS 500-97144/2	Lab Control Sample	T	Water	SM 5210B	
USB 500-97144/1	Unseeded Control Blank	T	Water	SM 5210B	
500-28524-4	GWOUE(10132010)	T	Water	SM 5210B	
Analysis Batch:500-97155					
LCS 500-97155/2	Lab Control Sample	T	Water	SM 2540D	
MB 500-97155/1	Method Blank	T	Water	SM 2540D	
500-28524-2	GWOUB(10132010)	T	Water	SM 2540D	
500-28524-3	GWOUC(10132010)	T	Water	SM 2540D	
500-28524-4	GWOUE(10132010)	T	Water	SM 2540D	
Prep Batch: 500-97290					
LCS 500-97290/2-A	Lab Control Sample	T	Water	1664A	
LCSD 500-97290/3-A	Lab Control Sample Duplicate	T	Water	1664A	
MB 500-97290/1-A	Method Blank	T	Water	1664A	
500-28524-1	GWOUA(10132010)	T	Water	1664A	
500-28524-2	GWOUB(10132010)	T	Water	1664A	
500-28524-3	GWOUC(10132010)	T	Water	1664A	
Analysis Batch:500-97291					
LCS 500-97290/2-A	Lab Control Sample	T	Water	1664A	500-97290
LCSD 500-97290/3-A	Lab Control Sample Duplicate	T	Water	1664A	500-97290
MB 500-97290/1-A	Method Blank	T	Water	1664A	500-97290
500-28524-1	GWOUA(10132010)	T	Water	1664A	500-97290
500-28524-2	GWOUB(10132010)	T	Water	1664A	500-97290
500-28524-3	GWOUC(10132010)	T	Water	1664A	500-97290

Report Basis
T = Total

Client: Bodine Environmental Services

Job Number: 500-28524-1

Surrogate Recovery Report

625 Semivolatile Organic Compounds (GC/MS)

Client Matrix: Water

Lab Sample ID	Client Sample ID	2FP %Rec	PHL %Rec	NBZ %Rec	FBP %Rec	TBP %Rec	TPH %Rec
500-28524-1	GWOUA(10132010)	37	26	82	87	106	101
500-28524-1 DL	GWOUA(10132010) DL	0D	0D	0D	0D	0D	0D
500-28524-4	GWOUE(10132010)	36	22	72	70	86	75
MB 500-97201/1-A		46	29	81	75	75	99
LCS 500-97201/2-A		47	32	81	79	86	97

Surrogate	Acceptance Limits
2FP = 2-Fluorophenol	10-110
PHL = Phenol-d5	10-110
NBZ = Nitrobenzene-d5	28-110
FBP = 2-Fluorobiphenyl	31-110
TBP = 2,4,6-Tribromophenol	34-116
TPH = Terphenyl-d14	20-133

Client: Bodine Environmental Services

Job Number: 500-28524-1

Method Blank - Batch: 500-97201

Method: 625
Preparation: 625

Lab Sample ID: MB 500-97201/1-A
Client Matrix: Water
Dilution: 1.0
Date Analyzed: 10/20/2010 2133
Date Prepared: 10/15/2010 0925

Analysis Batch: 500-97664
Prep Batch: 500-97201
Units: ug/L

Instrument ID: CMS20
Lab File ID: 97201M.D
Initial Weight/Volume: 1000 mL
Final Weight/Volume: 1.0 mL
Injection Volume: 1 uL

Analyte	Result	Qual	MDL	RL
N-Nitrosodimethylamine	<10		5.2	10
Phenol	<10		0.89	10
Bis(2-chloroethyl)ether	<5.0		1.4	5.0
2,2'-oxybis[1-chloropropane]	<5.0		1.4	5.0
N-Nitrosodi-n-propylamine	<5.0		1.6	5.0
Hexachloroethane	<5.0		1.2	5.0
2-Chlorophenol	<5.0		1.1	5.0
2-Methylphenol	<5.0		1.1	5.0
Nitrobenzene	<5.0		1.3	5.0
Bis(2-chloroethoxy)methane	<5.0		1.4	5.0
1,2,4-Trichlorobenzene	<5.0		1.4	5.0
Isophorone	<5.0		1.4	5.0
2,4-Dimethylphenol	<5.0		1.6	5.0
Hexachlorobutadiene	<5.0		1.5	5.0
Naphthalene	<5.0		1.4	5.0
2,4-Dichlorophenol	<5.0		1.3	5.0
2,4,6-Trichlorophenol	<5.0		1.1	5.0
Hexachlorocyclopentadiene	<10		1.3	10
2-Chloronaphthalene	<5.0		1.4	5.0
4-Chloro-3-methylphenol	<5.0		1.4	5.0
2,6-Dinitrotoluene	<5.0		1.3	5.0
2-Nitrophenol	<5.0		1.2	5.0
Dimethyl phthalate	<5.0		1.2	5.0
2,4-Dinitrophenol	<20		8.1	20
Acenaphthylene	<5.0		1.5	5.0
2,4-Dinitrotoluene	<5.0		1.5	5.0
Acenaphthene	<5.0		1.5	5.0
4-Nitrophenol	<20		3.6	20
Fluorene	<5.0		1.6	5.0
1,2-Diphenylhydrazine	<5.0		1.4	5.0
4-Bromophenyl phenyl ether	<5.0		1.4	5.0
Hexachlorobenzene	<5.0		1.3	5.0
Diethyl phthalate	<5.0		1.3	5.0
4-Chlorophenyl phenyl ether	<5.0		1.3	5.0
Pentachlorophenol	<20		7.5	20
N-Nitrosodiphenylamine	<5.0		1.8	5.0
4,6-Dinitro-2-methylphenol	<20		5.0	20
Phenanthrene	<5.0		1.4	5.0
Anthracene	<5.0		1.4	5.0
Dibenzofuran	<5.0		1.5	5.0
Di-n-butyl phthalate	<5.0		1.2	5.0
Benzidine	<50		10	50
Fluoranthene	<5.0		1.4	5.0

Client: Bodine Environmental Services

Job Number: 500-28524-1

Method Blank - Batch: 500-97201

Method: 625
Preparation: 625

Lab Sample ID: MB 500-97201/1-A
Client Matrix: Water
Dilution: 1.0
Date Analyzed: 10/20/2010 2133
Date Prepared: 10/15/2010 0925

Analysis Batch: 500-97664
Prep Batch: 500-97201
Units: ug/L

Instrument ID: CMS20
Lab File ID: 97201M.D
Initial Weight/Volume: 1000 mL
Final Weight/Volume: 1.0 mL
Injection Volume: 1 uL

Analyte	Result	Qual	MDL	RL
Pyrene	<5.0		1.4	5.0
Butyl benzyl phthalate	<5.0		1.3	5.0
Benzo[a]anthracene	<5.0		1.1	5.0
Chrysene	<5.0		1.3	5.0
3,3'-Dichlorobenzidine	<5.0		1.3	5.0
Bis(2-ethylhexyl) phthalate	<10		1.1	10
Di-n-octyl phthalate	<10		1.6	10
Benzo[b]fluoranthene	<5.0		1.1	5.0
Benzo[k]fluoranthene	<5.0		1.4	5.0
Benzo[a]pyrene	<5.0		1.2	5.0
Indeno[1,2,3-cd]pyrene	<5.0		1.3	5.0
Dibenz(a,h)anthracene	<5.0		1.4	5.0
Benzo[g,h,i]perylene	<5.0		1.4	5.0
3 & 4 Methylphenol	<5.0		1.3	5.0

Surrogate	% Rec	Acceptance Limits
2-Fluorophenol	46	10 - 110
Phenol-d5	29	10 - 110
Nitrobenzene-d5	81	28 - 110
2-Fluorobiphenyl	75	31 - 110
2,4,6-Tribromophenol	75	34 - 116
Terphenyl-d14	99	20 - 133

Client: Bodine Environmental Services

Job Number: 500-28524-1

Lab Control Sample - Batch: 500-97201

Method: 625
Preparation: 625

Lab Sample ID: LCS 500-97201/2-A
Client Matrix: Water
Dilution: 1.0
Date Analyzed: 10/20/2010 2303
Date Prepared: 10/15/2010 0925

Analysis Batch: 500-97664
Prep Batch: 500-97201
Units: ug/L

Instrument ID: CMS20
Lab File ID: 97201BS.D
Initial Weight/Volume: 1000 mL
Final Weight/Volume: 1.0 mL
Injection Volume: 1 uL

Analyte	Spike Amount	Result	% Rec.	Limit	Qual
N-Nitrosodimethylamine	50.0	28.7	57	10 - 200	
Phenol	50.0	18.4	37	5 - 112	
Bis(2-chloroethyl)ether	50.0	44.6	89	12 - 158	
2,2'-oxybis[1-chloropropane]	50.0	38.2	76	36 - 166	
N-Nitrosodi-n-propylamine	50.0	46.8	94	10 - 230	
Hexachloroethane	50.0	29.0	58	40 - 113	
2-Chlorophenol	50.0	38.5	77	23 - 134	
2-Methylphenol	50.0	40.0	80	30 - 146	
Nitrobenzene	50.0	41.3	83	35 - 180	
Bis(2-chloroethoxy)methane	50.0	42.7	85	33 - 184	
1,2,4-Trichlorobenzene	50.0	34.5	69	44 - 142	
Isophorone	50.0	41.5	83	21 - 196	
2,4-Dimethylphenol	50.0	42.4	85	32 - 119	
Hexachlorobutadiene	50.0	32.4	65	24 - 116	
Naphthalene	50.0	37.5	75	21 - 133	
2,4-Dichlorophenol	50.0	42.1	84	39 - 135	
2,4,6-Trichlorophenol	50.0	41.4	83	37 - 144	
Hexachlorocyclopentadiene	50.0	18.5	37	10 - 200	
2-Chloronaphthalene	50.0	39.6	79	60 - 118	
4-Chloro-3-methylphenol	50.0	45.0	90	22 - 147	
2,6-Dinitrotoluene	50.0	49.7	99	50 - 158	
2-Nitrophenol	50.0	41.9	84	29 - 182	
Dimethyl phthalate	50.0	46.0	92	10 - 112	
2,4-Dinitrophenol	50.0	38.5	77	10 - 191	
Acenaphthylene	50.0	42.6	85	33 - 145	
2,4-Dinitrotoluene	50.0	51.0	102	39 - 139	
Acenaphthene	50.0	40.4	81	47 - 145	
4-Nitrophenol	50.0	21.0	42	10 - 132	
Fluorene	50.0	44.4	89	59 - 121	
4-Bromophenyl phenyl ether	50.0	43.7	87	53 - 127	
Hexachlorobenzene	50.0	45.8	92	10 - 152	
Diethyl phthalate	50.0	47.7	95	10 - 114	
4-Chlorophenyl phenyl ether	50.0	43.9	88	25 - 158	
Pentachlorophenol	50.0	42.1	84	14 - 176	
N-Nitrosodiphenylamine	50.0	46.9	94	10 - 200	
4,6-Dinitro-2-methylphenol	50.0	43.6	87	10 - 181	
Phenanthrene	50.0	44.7	89	54 - 120	
Anthracene	50.0	44.0	88	27 - 133	
Dibenzofuran	50.0	42.7	85		
Di-n-butyl phthalate	50.0	48.3	97	1 - 118	
Benzidine	50.0	<50	10	10 - 200	
Fluoranthene	50.0	47.2	94	26 - 137	
Pyrene	50.0	46.8	94	52 - 115	

Client: Bodine Environmental Services

Job Number: 500-28524-1

Lab Control Sample - Batch: 500-97201

Method: 625
Preparation: 625

Lab Sample ID: LCS 500-97201/2-A
Client Matrix: Water
Dilution: 1.0
Date Analyzed: 10/20/2010 2303
Date Prepared: 10/15/2010 0925

Analysis Batch: 500-97664
Prep Batch: 500-97201
Units: ug/L

Instrument ID: CMS20
Lab File ID: 97201BS.D
Initial Weight/Volume: 1000 mL
Final Weight/Volume: 1.0 mL
Injection Volume: 1 uL

Analyte	Spike Amount	Result	% Rec.	Limit	Qual
Butyl benzyl phthalate	50.0	51.4	103	10 - 152	
Benzo[a]anthracene	50.0	44.8	90	33 - 143	
Chrysene	50.0	44.4	89	17 - 168	
3,3'-Dichlorobenzidine	50.0	43.1	86	10 - 262	
Bis(2-ethylhexyl) phthalate	50.0	50.2	100	8 - 158	
Di-n-octyl phthalate	50.0	44.0	88	4 - 146	
Benzo[b]fluoranthene	50.0	39.5	79	24 - 159	
Benzo[k]fluoranthene	50.0	44.2	88	11 - 162	
Benzo[a]pyrene	50.0	42.3	85	17 - 163	
Indeno[1,2,3-cd]pyrene	50.0	42.3	85	10 - 171	
Dibenz(a,h)anthracene	50.0	43.6	87	10 - 227	
Benzo[g,h,i]perylene	50.0	39.8	80	10 - 219	
3 & 4 Methylphenol	50.0	36.2	72	11 - 150	

Surrogate	% Rec	Acceptance Limits
2-Fluorophenol	47	10 - 110
Phenol-d5	32	10 - 110
Nitrobenzene-d5	81	28 - 110
2-Fluorobiphenyl	79	31 - 110
2,4,6-Tribromophenol	86	34 - 116
Terphenyl-d14	97	20 - 133

Client: Bodine Environmental Services

Job Number: 500-28524-1

Method Blank - Batch: 500-97290

Method: 1664A
Preparation: 1664A

Lab Sample ID: MB 500-97290/1-A
Client Matrix: Water
Dilution: 1.0
Date Analyzed: 10/18/2010 1100
Date Prepared: 10/18/2010 0630

Analysis Batch: 500-97291
Prep Batch: 500-97290
Units: mg/L

Instrument ID: No Equipment Assigned
Lab File ID: N/A
Initial Weight/Volume: 1000 mL
Final Weight/Volume: 1000 mL

Analyte	Result	Qual	MDL	RL
HEM (Oil & Grease)	2.20	J	1.9	5.0

Lab Control Sample/
Lab Control Sample Duplicate Recovery Report - Batch: 500-97290

Method: 1664A
Preparation: 1664A

LCS Lab Sample ID: LCS 500-97290/2-A
Client Matrix: Water
Dilution: 1.0
Date Analyzed: 10/18/2010 1107
Date Prepared: 10/18/2010 0642

Analysis Batch: 500-97291
Prep Batch: 500-97290
Units: mg/L

Instrument ID: No Equipment Assigned
Lab File ID: N/A
Initial Weight/Volume: 1000 mL
Final Weight/Volume: 1000 mL

LCSD Lab Sample ID: LCSD 500-97290/3-A
Client Matrix: Water
Dilution: 1.0
Date Analyzed: 10/18/2010 1115
Date Prepared: 10/18/2010 0655

Analysis Batch: 500-97291
Prep Batch: 500-97290
Units: mg/L

Instrument ID: No Equipment Assigned
Lab File ID: N/A
Initial Weight/Volume: 1000 mL
Final Weight/Volume: 1000 mL

Analyte	% Rec. LCS	% Rec. LCSD	Limit	RPD	RPD Limit	LCS Qual	LCSD Qual
HEM (Oil & Grease)	104	104	78 - 114	0	18		

Client: Bodine Environmental Services

Job Number: 500-28524-1

Method Blank - Batch: 500-97155

Method: SM 2540D
Preparation: N/A

Lab Sample ID: MB 500-97155/1
Client Matrix: Water
Dilution: 1.0
Date Analyzed: 10/14/2010 2135
Date Prepared: N/A

Analysis Batch: 500-97155
Prep Batch: N/A
Units: mg/L

Instrument ID: No Equipment Assigned
Lab File ID: N/A
Initial Weight/Volume: 200 mL
Final Weight/Volume: 200 mL

Analyte	Result	Qual	MDL	RL
Total Suspended Solids	<5.0		1.0	5.0

Lab Control Sample - Batch: 500-97155

Method: SM 2540D
Preparation: N/A

Lab Sample ID: LCS 500-97155/2
Client Matrix: Water
Dilution: 1.0
Date Analyzed: 10/14/2010 2137
Date Prepared: N/A

Analysis Batch: 500-97155
Prep Batch: N/A
Units: mg/L

Instrument ID: No Equipment Assigned
Lab File ID: N/A
Initial Weight/Volume: 200 mL
Final Weight/Volume: 200 mL

Analyte	Spike Amount	Result	% Rec.	Limit	Qual
Total Suspended Solids	200	188	94	80 - 120	

Client: Bodine Environmental Services

Job Number: 500-28524-1

Unseeded Control Blank - Batch: 500-97144

Method: SM 5210B
Preparation: N/A

Lab Sample ID: USB 500-97144/1
Client Matrix: Water
Dilution: 1.0
Date Analyzed: 10/14/2010 1550
Date Prepared: N/A

Analysis Batch: 500-97144
Prep Batch: N/A
Units: mg/L

Instrument ID: No Equipment Assigned
Lab File ID: N/A
Initial Weight/Volume: 1.0 mL
Final Weight/Volume: 1.0 mL

Analyte	Result	Qual	MDL	RL
Biochemical Oxygen Demand	<2.0		2.0	2.0

Lab Control Sample - Batch: 500-97144

Method: SM 5210B
Preparation: N/A

Lab Sample ID: LCS 500-97144/2
Client Matrix: Water
Dilution: 1.0
Date Analyzed: 10/14/2010 1552
Date Prepared: N/A

Analysis Batch: 500-97144
Prep Batch: N/A
Units: mg/L

Instrument ID: No Equipment Assigned
Lab File ID: N/A
Initial Weight/Volume: 1.0 mL
Final Weight/Volume: 1.0 mL

Analyte	Spike Amount	Result	% Rec.	Limit	Qual
Biochemical Oxygen Demand	198	198	100	85 - 115	

TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING

2417 Bond Street, University Park, IL 60484
Phone: 708.534.5200 Fax: 708.534.5211

(optional)
Report To
Contact:
Company:
Address:
Address:
Phone:
Fax:
E-Mail:

(optional)
Bill To
Contact:
Company:
Address:
Address:
Phone:
Fax:
PO#/Reference#

Chain of Custody Record

Lab Job #: 500-28524
Chain of Custody Number:
Page ___ of ___
Temperature °C of Cooler: 3.7

Client: BOLINE ENV. SERV. INC
Client Project #: 119386-11
Project Name: EPA - JENNISON WRIGHT
Project Location/State: GRANITE CITY, IL
Lab Project #:
Sampler: RICK EVEY
Lab PM:

Preservative Key
1. HCL, Cool to 4°
2. H2SO4, Cool to 4°
3. HNO3, Cool to 4°
4. NaOH, Cool to 4°
5. NaOH/Zn, Cool to 4°
6. NaHSO4
7. Cool to 4°
8. None
9. Other

Lab ID	MS/MSD	Sample ID	Sampling Date	Sampling Time	# of Containers	Matrix	TSS (Preservative 8)	OIL & GREASE (Preservative 2)	TSS & BOD5 (Preservative 8)	SVOCS (Preservative 8)						Comments
1		GWOUA (10132010)	10/13/10	1351	3	WW		X		X						INFLUENT
2		GWOUB (10132010)	10/13/10	1340	2	↓	X	X								POST O12/H2O SEPARATOR
3		GWOUC (10132010)	10/13/10	1346	2	↓	X	X								POST INF. BAG FILTERS
4		GWOUE (10132010)	10/13/10	1357	3	↓			X	X						EFFLUENT

Turnaround Time Required (Business Days)
___ 1 Day ___ 2 Days ___ 5 Days X 7 Days ___ 10 Days ___ 15 Days _____ Other
Requested Due Date: _____

Sample Disposal
☐ Return to Client ☐ Disposal by Lab ☐ Archive for _____ Months (A fee may be assessed if samples are retained longer than 1 month)

Relinquished By	Company	Date	Time	Received By	Company	Date	Time
[signature]	Boline	10/13/10	4:30 p.m.	[signature]	TA	10/14/10	1030
Relinquished By	Company	Date	Time	Received By	Company	Date	Time
Relinquished By	Company	Date	Time	Received By	Company	Date	Time

Lab Courier
Shipped ☒
Hand Delivered

Matrix Key
WW – Wastewater
W – Water
S – Soil
SL – Sludge
MS – Miscellaneous
OL – Oil
A – Air
SE – Sediment
SO – Soil
L – Leachate
WI – Wipe
DW – Drinking Water
O – Other

Client Comments

Lab Comments:

Login Sample Receipt Check List

Client: Bodine Environmental Services

Job Number: 500-28524-1

Login Number: 28524
Creator: Lunt, Jeff T
List Number: 1

List Source: TestAmerica Chicago

Question	T / F/ NA	Comment
Radioactivity either was not measured or, if measured, is at or below background	True	
The cooler's custody seal, if present, is intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	3.7
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the sample IDs on the containers and the COC.	True	
Samples are received within Holding Time.	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified	True	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
VOA sample vials do not have headspace or bubble is <6mm (1/4") in diameter.	True	
If necessary, staff have been informed of any short hold time or quick TAT needs	True	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	

TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING

ANALYTICAL REPORT

Job Number: 500-29581-1

Job Description: Jennison Wright

For:
Bodine Environmental Services
5350 East Firehouse Road
Decatur, IL 62521-9601

Attention: Troy McFate

Approved for release.
Richard C Wright
Project Manager II
12/8/2010 2:30 PM

Richard C Wright
Project Manager II
richard.wright@testamericainc.com
12/08/2010

These test results meet all the requirements of NELAC for accredited parameters.

The Lab Certification ID#:
TestAmerica Chicago 100201
TestAmerica West Sacramento CA00044

All questions regarding this test report should be directed to the TestAmerica Project Manager whose signature appears on this report. All pages of this report are integral parts of the analytical data. Therefore, this report should be reproduced only in its entirety.

Reporting limits are adjusted for sample size used, dilutions and moisture content if applicable.

Comments
No additional comments.

Receipt
All samples were received in good condition within temperature requirements.

GC/MS Semi VOA
Method(s) 625: The following samples was diluted due to the abundance of target and non-target analytes: GWOUA (11302010) (500-29581-1). Elevated reporting limits (RLs) are provided.

Method(s) 625: Due to the level of dilution required for the following sample, surrogate recoveries are not reported: GWOUA (11302010) (500-29581-1).

Method(s) 625: 500-29581 had 2,4,6-Tribromophenol at 124% (34%-116%). All other surrogates were within limits. No further action was required.GWOUA (11302010) (500-29581-1)

No other analytical or quality issues were noted.

General Chemistry
No analytical or quality issues were noted.

Organic Prep
No analytical or quality issues were noted.

EXECUTIVE SUMMARY - Detections

Client: Bodine Environmental Services

Job Number: 500-29581-1

Lab Sample ID Analyte	Client Sample ID	Result / Qualifier		Reporting Limit	Units	Method
500-29581-1	**GWOUA (11302010)**					
Phenol		57		47	ug/L	625
2-Methylphenol		310		23	ug/L	625
2,4-Dimethylphenol		360		23	ug/L	625
Naphthalene		5100		470	ug/L	625
Acenaphthylene		22	J	23	ug/L	625
Acenaphthene		510		120	ug/L	625
Fluorene		380		120	ug/L	625
Pentachlorophenol		180		93	ug/L	625
Phenanthrene		770		120	ug/L	625
Anthracene		95		23	ug/L	625
Dibenzofuran		340		23	ug/L	625
Fluoranthene		320		23	ug/L	625
Pyrene		220		23	ug/L	625
Benzo[a]anthracene		65		23	ug/L	625
Chrysene		56		23	ug/L	625
Benzo[b]fluoranthene		42		23	ug/L	625
Benzo[k]fluoranthene		18	J	23	ug/L	625
Benzo[a]pyrene		34		23	ug/L	625
Indeno[1,2,3-cd]pyrene		14	J	23	ug/L	625
Benzo[g,h,i]perylene		15	J	23	ug/L	625
3 & 4 Methylphenol		640		120	ug/L	625
HEM (Oil & Grease)		4.9	J	5.1	mg/L	1664A
500-29581-2	**GWOUB (11302010)**					
HEM (Oil & Grease)		65		5.1	mg/L	1664A
Total Suspended Solids		150		10	mg/L	SM 2540D
500-29581-3	**GWOUC (11302010)**					
HEM (Oil & Grease)		74		5.1	mg/L	1664A
Total Suspended Solids		10		5.0	mg/L	SM 2540D
500-29581-4	**GWOUE (11302010)**					
2-Methylphenol		4.1	J	4.7	ug/L	625
2,4-Dimethylphenol		9.4		4.7	ug/L	625
Naphthalene		3.1	J	4.7	ug/L	625
Acenaphthene		5.7		4.7	ug/L	625
3 & 4 Methylphenol		1.2	J	4.7	ug/L	625
Total Suspended Solids		9.5		5.0	mg/L	SM 2540D

METHOD SUMMARY

Client: Bodine Environmental Services

Job Number: 500-29581-1

Description	Lab Location	Method	Preparation Method
Matrix: Water			
Semivolatile Organic Compounds (GC/MS)	TAL CHI	40CFR136A 625	
Liquid-Liquid Extraction	TAL CHI		40CFR136A 625
HEM and SGT-HEM	TAL CHI	1664A 1664A	
HEM and SGT-HEM (SPE)	TAL CHI		1664A 1664A
Solids, Total Suspended (TSS)	TAL CHI	SM SM 2540D	
BOD, 5-Day	TAL CHI	SM SM 5210B	

Lab References:

TAL CHI = TestAmerica Chicago

Method References:

1664A = EPA-821-98-002

40CFR136A = "Methods for Organic Chemical Analysis of Municipal Industrial Wastewater", 40CFR, Part 136, Appendix A, October 26, 1984 and subsequent revisions.

SM = "Standard Methods For The Examination Of Water And Wastewater",

METHOD / ANALYST SUMMARY

Client: Bodine Environmental Services

Job Number: 500-29581-1

Method	Analyst	Analyst ID
40CFR136A 625	Akcakal, Duran	DA
1664A 1664A	Brogan, Mary T	MTB
SM SM 2540D	Boyd, Cheryl L	CLB
SM SM 5210B	Brogan, Mary T	MTB

SAMPLE SUMMARY

Client: Bodine Environmental Services

Job Number: 500-29581-1

Lab Sample ID	Client Sample ID	Client Matrix	Date/Time Sampled	Date/Time Received
500-29581-1	GWOUA (11302010)	Water	11/30/2010 1015	12/01/2010 0940
500-29581-2	GWOUB (11302010)	Water	11/30/2010 1022	12/01/2010 0940
500-29581-3	GWOUC (11302010)	Water	11/30/2010 1035	12/01/2010 0940
500-29581-4	GWOUE (11302010)	Water	11/30/2010 1042	12/01/2010 0940

SAMPLE RESULTS

Troy McFate
Bodine Environmental Services
5350 East Firehouse Road
Decatur, IL 62521-9601

Job Number: 500-29581-1

Client Sample ID: GWOUA (11302010)
Lab Sample ID: 500-29581-1

Date Sampled: 11/30/2010 1015
Date Received: 12/01/2010 0940
Client Matrix: Water

Analyte	Result/Qualifier		Unit	MDL	RL	Dilution
Method: 625			Date Analyzed:	12/04/2010 0305		
Prep Method: 625			Date Prepared:	12/02/2010 0700		
N-Nitrosodimethylamine	<47		ug/L	24	47	5.0
Phenol	57		ug/L	4.2	47	5.0
Bis(2-chloroethyl)ether	<23		ug/L	6.6	23	5.0
2,2'-oxybis[1-chloropropane]	<23		ug/L	6.7	23	5.0
N-Nitrosodi-n-propylamine	<23		ug/L	7.2	23	5.0
Hexachloroethane	<23		ug/L	5.5	23	5.0
2-Chlorophenol	<23		ug/L	5.0	23	5.0
2-Methylphenol	310		ug/L	5.1	23	5.0
Nitrobenzene	<23		ug/L	6.1	23	5.0
Bis(2-chloroethoxy)methane	<23		ug/L	6.7	23	5.0
1,2,4-Trichlorobenzene	<23		ug/L	6.4	23	5.0
Isophorone	<23		ug/L	6.8	23	5.0
2,4-Dimethylphenol	360		ug/L	7.6	23	5.0
Hexachlorobutadiene	<23		ug/L	7.0	23	5.0
2,4-Dichlorophenol	<23		ug/L	6.3	23	5.0
2,4,6-Trichlorophenol	<23		ug/L	5.1	23	5.0
Hexachlorocyclopentadiene	<47		ug/L	5.9	47	5.0
2-Chloronaphthalene	<23		ug/L	6.7	23	5.0
4-Chloro-3-methylphenol	<23		ug/L	6.5	23	5.0
2,6-Dinitrotoluene	<23		ug/L	6.1	23	5.0
2-Nitrophenol	<23		ug/L	5.7	23	5.0
Dimethyl phthalate	<23		ug/L	5.4	23	5.0
2,4-Dinitrophenol	<93		ug/L	38	93	5.0
Acenaphthylene	22	J	ug/L	6.9	23	5.0
2,4-Dinitrotoluene	<23		ug/L	7.0	23	5.0
4-Nitrophenol	<93		ug/L	17	93	5.0
1,2-Diphenylhydrazine	<23		ug/L	6.4	23	5.0
4-Bromophenyl phenyl ether	<23		ug/L	6.6	23	5.0
Hexachlorobenzene	<23		ug/L	6.1	23	5.0
Diethyl phthalate	<23		ug/L	5.9	23	5.0
4-Chlorophenyl phenyl ether	<23		ug/L	6.2	23	5.0
Pentachlorophenol	180		ug/L	35	93	5.0
N-Nitrosodiphenylamine	<23		ug/L	8.3	23	5.0
4,6-Dinitro-2-methylphenol	<93		ug/L	23	93	5.0
Anthracene	95		ug/L	6.7	23	5.0
Dibenzofuran	340		ug/L	6.8	23	5.0
Di-n-butyl phthalate	<23		ug/L	5.7	23	5.0
Benzidine	<230		ug/L	47	230	5.0
Fluoranthene	320		ug/L	6.5	23	5.0

Troy McFate
Bodine Environmental Services
5350 East Firehouse Road
Decatur, IL 62521-9601

Job Number: 500-29581-1

Client Sample ID: GWOUA (11302010)
Lab Sample ID: 500-29581-1

Date Sampled: 11/30/2010 1015
Date Received: 12/01/2010 0940
Client Matrix: Water

Analyte	Result/Qualifier		Unit	MDL	RL	Dilution
Pyrene	220		ug/L	6.7	23	5.0
Butyl benzyl phthalate	<23		ug/L	5.9	23	5.0
Benzo[a]anthracene	65		ug/L	5.3	23	5.0
Chrysene	56		ug/L	6.2	23	5.0
3,3'-Dichlorobenzidine	<23		ug/L	6.1	23	5.0
Bis(2-ethylhexyl) phthalate	<47		ug/L	5.2	47	5.0
Di-n-octyl phthalate	<47		ug/L	7.5	47	5.0
Benzo[b]fluoranthene	42		ug/L	5.3	23	5.0
Benzo[k]fluoranthene	18	J	ug/L	6.4	23	5.0
Benzo[a]pyrene	34		ug/L	5.6	23	5.0
Indeno[1,2,3-cd]pyrene	14	J	ug/L	6.2	23	5.0
Dibenz(a,h)anthracene	<23		ug/L	6.8	23	5.0
Benzo[g,h,i]perylene	15	J	ug/L	6.6	23	5.0
Surrogate					Acceptance Limits	
2-Fluorophenol	48		%		10 - 110	
Phenol-d5	31		%		10 - 110	
Nitrobenzene-d5	97		%		28 - 110	
2-Fluorobiphenyl	104		%		31 - 110	
2,4,6-Tribromophenol	124	X	%		34 - 116	
Terphenyl-d14	114		%		20 - 133	
Method: 625 Run Type: DL			Date Analyzed:		12/06/2010 1755	
Prep Method: 625			Date Prepared:		12/02/2010 0700	
Acenaphthene	510		ug/L	35	120	25
Fluorene	380		ug/L	37	120	25
Phenanthrene	770		ug/L	32	120	25
3 & 4 Methylphenol	640		ug/L	31	120	25
Surrogate					Acceptance Limits	
2-Fluorophenol	0	D	%		10 - 110	
Phenol-d5	0	D	%		10 - 110	
Nitrobenzene-d5	0	D	%		28 - 110	
2-Fluorobiphenyl	0	D	%		31 - 110	
2,4,6-Tribromophenol	0	D	%		34 - 116	
Terphenyl-d14	0	D	%		20 - 133	
Method: 625 Run Type: DL2			Date Analyzed:		12/06/2010 1819	
Prep Method: 625			Date Prepared:		12/02/2010 0700	
Naphthalene	5100		ug/L	130	470	100
Surrogate					Acceptance Limits	
2-Fluorophenol	0	D	%		10 - 110	

Troy McFate
Bodine Environmental Services
5350 East Firehouse Road
Decatur, IL 62521-9601

Job Number: 500-29581-1

Client Sample ID: GWOUA (11302010)
Lab Sample ID: 500-29581-1

Date Sampled: 11/30/2010 1015
Date Received: 12/01/2010 0940
Client Matrix: Water

Analyte	Result/Qualifier		Unit	MDL	RL	Dilution
Surrogate					Acceptance Limits	
Phenol-d5	0	D	%		10 - 110	
Nitrobenzene-d5	0	D	%		28 - 110	
2-Fluorobiphenyl	0	D	%		31 - 110	
2,4,6-Tribromophenol	0	D	%		34 - 116	
Terphenyl-d14	0	D	%		20 - 133	
Method: 1664A			Date Analyzed:		12/06/2010 1515	
Prep Method: 1664A			Date Prepared:		12/06/2010 1003	
HEM (Oil & Grease)	4.9	J	mg/L	1.8	5.1	1.0

Troy McFate
Bodine Environmental Services
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Job Number: 500-29581-1

Client Sample ID: **GWOUB (11302010)**
Lab Sample ID: **500-29581-2**

Date Sampled: 11/30/2010 1022
Date Received: 12/01/2010 0940
Client Matrix: Water

Analyte	Result/Qualifier	Unit	MDL	RL	Dilution
Method: 1664A		Date Analyzed:		12/06/2010 1520	
Prep Method: 1664A		Date Prepared:		12/06/2010 1020	
HEM (Oil & Grease)	65	mg/L	1.8	5.1	1.0
Method: SM 2540D		Date Analyzed:		12/02/2010 0008	
Total Suspended Solids	150	mg/L	2.0	10	1.0

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Job Number: 500-29581-1

Client Sample ID: GWOUC (11302010)
Lab Sample ID: 500-29581-3

Date Sampled: 11/30/2010 1035
Date Received: 12/01/2010 0940
Client Matrix: Water

Analyte	Result/Qualifier	Unit	MDL	RL	Dilution
Method: 1664A		Date Analyzed:		12/06/2010 1525	
Prep Method: 1664A		Date Prepared:		12/06/2010 1037	
HEM (Oil & Grease)	74	mg/L	1.8	5.1	1.0
Method: SM 2540D		Date Analyzed:		12/02/2010 0012	
Total Suspended Solids	10	mg/L	1.0	5.0	1.0

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Job Number: 500-29581-1

Client Sample ID: GWOUE (11302010)
Lab Sample ID: 500-29581-4

Date Sampled: 11/30/2010 1042
Date Received: 12/01/2010 0940
Client Matrix: Water

Analyte	Result/Qualifier		Unit	MDL	RL	Dilution
Method: 625			Date Analyzed:	12/04/2010 0214		
Prep Method: 625			Date Prepared:	12/02/2010 0700		
N-Nitrosodimethylamine	<9.3		ug/L	4.9	9.3	1.0
Phenol	<9.3		ug/L	0.83	9.3	1.0
Bis(2-chloroethyl)ether	<4.7		ug/L	1.3	4.7	1.0
2,2'-oxybis[1-chloropropane]	<4.7		ug/L	1.3	4.7	1.0
N-Nitrosodi-n-propylamine	<4.7		ug/L	1.4	4.7	1.0
Hexachloroethane	<4.7		ug/L	1.1	4.7	1.0
2-Chlorophenol	<4.7		ug/L	0.99	4.7	1.0
2-Methylphenol	4.1	J	ug/L	1.0	4.7	1.0
Nitrobenzene	<4.7		ug/L	1.2	4.7	1.0
Bis(2-chloroethoxy)methane	<4.7		ug/L	1.3	4.7	1.0
1,2,4-Trichlorobenzene	<4.7		ug/L	1.3	4.7	1.0
Isophorone	<4.7		ug/L	1.4	4.7	1.0
2,4-Dimethylphenol	9.4		ug/L	1.5	4.7	1.0
Hexachlorobutadiene	<4.7		ug/L	1.4	4.7	1.0
Naphthalene	3.1	J	ug/L	1.3	4.7	1.0
2,4-Dichlorophenol	<4.7		ug/L	1.3	4.7	1.0
2,4,6-Trichlorophenol	<4.7		ug/L	1.0	4.7	1.0
Hexachlorocyclopentadiene	<9.3		ug/L	1.2	9.3	1.0
2-Chloronaphthalene	<4.7		ug/L	1.3	4.7	1.0
4-Chloro-3-methylphenol	<4.7		ug/L	1.3	4.7	1.0
2,6-Dinitrotoluene	<4.7		ug/L	1.2	4.7	1.0
2-Nitrophenol	<4.7		ug/L	1.1	4.7	1.0
Dimethyl phthalate	<4.7		ug/L	1.1	4.7	1.0
2,4-Dinitrophenol	<19		ug/L	7.6	19	1.0
Acenaphthylene	<4.7		ug/L	1.4	4.7	1.0
2,4-Dinitrotoluene	<4.7		ug/L	1.4	4.7	1.0
Acenaphthene	5.7		ug/L	1.4	4.7	1.0
4-Nitrophenol	<19		ug/L	3.4	19	1.0
Fluorene	<4.7		ug/L	1.5	4.7	1.0
1,2-Diphenylhydrazine	<4.7		ug/L	1.3	4.7	1.0
4-Bromophenyl phenyl ether	<4.7		ug/L	1.3	4.7	1.0
Hexachlorobenzene	<4.7		ug/L	1.2	4.7	1.0
Diethyl phthalate	<4.7		ug/L	1.2	4.7	1.0
4-Chlorophenyl phenyl ether	<4.7		ug/L	1.2	4.7	1.0
Pentachlorophenol	<19		ug/L	7.0	19	1.0
N-Nitrosodiphenylamine	<4.7		ug/L	1.7	4.7	1.0
4,6-Dinitro-2-methylphenol	<19		ug/L	4.7	19	1.0
Phenanthrene	<4.7		ug/L	1.3	4.7	1.0
Anthracene	<4.7		ug/L	1.3	4.7	1.0

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Job Number: 500-29581-1

Client Sample ID: GWOUE (11302010)
Lab Sample ID: 500-29581-4

Date Sampled: 11/30/2010 1042
Date Received: 12/01/2010 0940
Client Matrix: Water

Analyte	Result/Qualifier		Unit	MDL	RL	Dilution
Dibenzofuran	<4.7		ug/L	1.4	4.7	1.0
Di-n-butyl phthalate	<4.7		ug/L	1.1	4.7	1.0
Benzidine	<47		ug/L	9.3	47	1.0
Fluoranthene	<4.7		ug/L	1.3	4.7	1.0
Pyrene	<4.7		ug/L	1.3	4.7	1.0
Butyl benzyl phthalate	<4.7		ug/L	1.2	4.7	1.0
Benzo[a]anthracene	<4.7		ug/L	1.1	4.7	1.0
Chrysene	<4.7		ug/L	1.2	4.7	1.0
3,3'-Dichlorobenzidine	<4.7		ug/L	1.2	4.7	1.0
Bis(2-ethylhexyl) phthalate	<9.3		ug/L	1.0	9.3	1.0
Di-n-octyl phthalate	<9.3		ug/L	1.5	9.3	1.0
Benzo[b]fluoranthene	<4.7		ug/L	1.1	4.7	1.0
Benzo[k]fluoranthene	<4.7		ug/L	1.3	4.7	1.0
Benzo[a]pyrene	<4.7		ug/L	1.1	4.7	1.0
Indeno[1,2,3-cd]pyrene	<4.7		ug/L	1.2	4.7	1.0
Dibenz(a,h)anthracene	<4.7		ug/L	1.4	4.7	1.0
Benzo[g,h,i]perylene	<4.7		ug/L	1.3	4.7	1.0
3 & 4 Methylphenol	1.2	J	ug/L	1.2	4.7	1.0

Surrogate			Acceptance Limits
2-Fluorophenol	34	%	10 - 110
Phenol-d5	21	%	10 - 110
Nitrobenzene-d5	57	%	28 - 110
2-Fluorobiphenyl	66	%	31 - 110
2,4,6-Tribromophenol	99	%	34 - 116
Terphenyl-d14	94	%	20 - 133

Method: SM 2540D Date Analyzed: 12/02/2010 0016

Total Suspended Solids	9.5	mg/L	1.0	5.0	1.0

Method: SM 5210B Date Analyzed: 12/01/2010 1502

Biochemical Oxygen Demand	<2.0	mg/L	2.0	2.0	1.0

DATA REPORTING QUALIFIERS

Client: Bodine Environmental Services

Job Number: 500-29581-1

Lab Section	Qualifier	Description
GC/MS Semi VOA		
	J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.
	X	Surrogate is outside control limits
	D	Surrogate or matrix spike recoveries were not obtained because the extract was diluted for analysis; also compounds analyzed at a dilution may be flagged with a D.
General Chemistry		
	J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.

QUALITY CONTROL RESULTS

Client: Bodine Environmental Services

Job Number: 500-29581-1

QC Association Summary

Lab Sample ID	Client Sample ID	Report Basis	Client Matrix	Method	Prep Batch
GC/MS Semi VOA					
Prep Batch: 500-101096					
LCS 500-101096/2-A	Lab Control Sample	T	Water	625	
LCSD 500-101096/3-A	Lab Control Sample Duplicate	T	Water	625	
MB 500-101096/1-A	Method Blank	T	Water	625	
500-29581-1	GWOUA (11302010)	T	Water	625	
500-29581-1DL	GWOUA (11302010)	T	Water	625	
500-29581-1DL2	GWOUA (11302010)	T	Water	625	
500-29581-4	GWOUE (11302010)	T	Water	625	
Analysis Batch:500-101221					
LCS 500-101096/2-A	Lab Control Sample	T	Water	625	500-101096
LCSD 500-101096/3-A	Lab Control Sample Duplicate	T	Water	625	500-101096
MB 500-101096/1-A	Method Blank	T	Water	625	500-101096
500-29581-1	GWOUA (11302010)	T	Water	625	500-101096
500-29581-4	GWOUE (11302010)	T	Water	625	500-101096
Analysis Batch:500-101459					
500-29581-1DL	GWOUA (11302010)	T	Water	625	500-101096
500-29581-1DL2	GWOUA (11302010)	T	Water	625	500-101096

Report Basis
T = Total

Client: Bodine Environmental Services

Job Number: 500-29581-1

QC Association Summary

Lab Sample ID	Client Sample ID	Report Basis	Client Matrix	Method	Prep Batch
General Chemistry					
Analysis Batch:500-101001					
LCS 500-101001/2	Lab Control Sample	T	Water	SM 5210B	
USB 500-101001/1	Unseeded Control Blank	T	Water	SM 5210B	
500-29581-4	GWOUE (11302010)	T	Water	SM 5210B	
Analysis Batch:500-101090					
LCS 500-101090/2	Lab Control Sample	T	Water	SM 2540D	
MB 500-101090/1	Method Blank	T	Water	SM 2540D	
500-29581-2	GWOUB (11302010)	T	Water	SM 2540D	
500-29581-3	GWOUC (11302010)	T	Water	SM 2540D	
500-29581-4	GWOUE (11302010)	T	Water	SM 2540D	
Prep Batch: 500-101237					
LCS 500-101237/2-A	Lab Control Sample	T	Water	1664A	
MB 500-101237/1-A	Method Blank	T	Water	1664A	
500-29581-1	GWOUA (11302010)	T	Water	1664A	
500-29581-2	GWOUB (11302010)	T	Water	1664A	
500-29581-3	GWOUC (11302010)	T	Water	1664A	
Analysis Batch:500-101240					
LCS 500-101237/2-A	Lab Control Sample	T	Water	1664A	500-101237
MB 500-101237/1-A	Method Blank	T	Water	1664A	500-101237
500-29581-1	GWOUA (11302010)	T	Water	1664A	500-101237
500-29581-2	GWOUB (11302010)	T	Water	1664A	500-101237
500-29581-3	GWOUC (11302010)	T	Water	1664A	500-101237

Report Basis
T = Total

Client: Bodine Environmental Services

Job Number: 500-29581-1

Surrogate Recovery Report

625 Semivolatile Organic Compounds (GC/MS)

Client Matrix: Water

Lab Sample ID	Client Sample ID	2FP %Rec	PHL %Rec	NBZ %Rec	FBP %Rec	TBP %Rec	TPH %Rec
500-29581-1	GWOUA (11302010)	48	31	97	104	124X	114
500-29581-1 DL	GWOUA (11302010) DL	0D	0D	0D	0D	0D	0D
500-29581-1 DL2	GWOUA (11302010) DL2	0D	0D	0D	0D	0D	0D
500-29581-4	GWOUE (11302010)	34	21	57	66	99	94
MB 500-101096/1-A		42	26	65	68	79	88
LCS 500-101096/2-A		42	28	78	81	95	87
LCSD 500-101096/3-A		45	32	80	82	98	101

Surrogate	Acceptance Limits
2FP = 2-Fluorophenol	10-110
PHL = Phenol-d5	10-110
NBZ = Nitrobenzene-d5	28-110
FBP = 2-Fluorobiphenyl	31-110
TBP = 2,4,6-Tribromophenol	34-116
TPH = Terphenyl-d14	20-133

Client: Bodine Environmental Services

Job Number: 500-29581-1

Method Blank - Batch: 500-101096

Method: 625
Preparation: 625

Lab Sample ID: MB 500-101096/1-A
Client Matrix: Water
Dilution: 1.0
Date Analyzed: 12/03/2010 2047
Date Prepared: 12/02/2010 0700

Analysis Batch: 500-101221
Prep Batch: 500-101096
Units: ug/L

Instrument ID: CMS01
Lab File ID: 101096M.D
Initial Weight/Volume: 1000 mL
Final Weight/Volume: 1.0 mL
Injection Volume: 1 uL

Analyte	Result	Qual	MDL	RL
N-Nitrosodimethylamine	<10		5.2	10
Phenol	<10		0.89	10
Bis(2-chloroethyl)ether	<5.0		1.4	5.0
2,2'-oxybis[1-chloropropane]	<5.0		1.4	5.0
N-Nitrosodi-n-propylamine	<5.0		1.6	5.0
Hexachloroethane	<5.0		1.2	5.0
2-Chlorophenol	<5.0		1.1	5.0
2-Methylphenol	<5.0		1.1	5.0
Nitrobenzene	<5.0		1.3	5.0
Bis(2-chloroethoxy)methane	<5.0		1.4	5.0
1,2,4-Trichlorobenzene	<5.0		1.4	5.0
Isophorone	<5.0		1.4	5.0
2,4-Dimethylphenol	<5.0		1.6	5.0
Hexachlorobutadiene	<5.0		1.5	5.0
Naphthalene	<5.0		1.4	5.0
2,4-Dichlorophenol	<5.0		1.3	5.0
2,4,6-Trichlorophenol	<5.0		1.1	5.0
Hexachlorocyclopentadiene	<10		1.3	10
2-Chloronaphthalene	<5.0		1.4	5.0
4-Chloro-3-methylphenol	<5.0		1.4	5.0
2,6-Dinitrotoluene	<5.0		1.3	5.0
2-Nitrophenol	<5.0		1.2	5.0
Dimethyl phthalate	<5.0		1.2	5.0
2,4-Dinitrophenol	<20		8.1	20
Acenaphthylene	<5.0		1.5	5.0
2,4-Dinitrotoluene	<5.0		1.5	5.0
Acenaphthene	<5.0		1.5	5.0
4-Nitrophenol	<20		3.6	20
Fluorene	<5.0		1.6	5.0
1,2-Diphenylhydrazine	<5.0		1.4	5.0
4-Bromophenyl phenyl ether	<5.0		1.4	5.0
Hexachlorobenzene	<5.0		1.3	5.0
Diethyl phthalate	<5.0		1.3	5.0
4-Chlorophenyl phenyl ether	<5.0		1.3	5.0
Pentachlorophenol	<20		7.5	20
N-Nitrosodiphenylamine	<5.0		1.8	5.0
4,6-Dinitro-2-methylphenol	<20		5.0	20
Phenanthrene	<5.0		1.4	5.0
Anthracene	<5.0		1.4	5.0
Dibenzofuran	<5.0		1.5	5.0
Di-n-butyl phthalate	<5.0		1.2	5.0
Benzidine	<50		10	50
Fluoranthene	<5.0		1.4	5.0

Client: Bodine Environmental Services

Job Number: 500-29581-1

Method Blank - Batch: 500-101096

Method: 625
Preparation: 625

Lab Sample ID: MB 500-101096/1-A
Client Matrix: Water
Dilution: 1.0
Date Analyzed: 12/03/2010 2047
Date Prepared: 12/02/2010 0700

Analysis Batch: 500-101221
Prep Batch: 500-101096
Units: ug/L

Instrument ID: CMS01
Lab File ID: 101096M.D
Initial Weight/Volume: 1000 mL
Final Weight/Volume: 1.0 mL
Injection Volume: 1 uL

Analyte	Result	Qual	MDL	RL
Pyrene	<5.0		1.4	5.0
Butyl benzyl phthalate	<5.0		1.3	5.0
Benzo[a]anthracene	<5.0		1.1	5.0
Chrysene	<5.0		1.3	5.0
3,3'-Dichlorobenzidine	<5.0		1.3	5.0
Bis(2-ethylhexyl) phthalate	<10		1.1	10
Di-n-octyl phthalate	<10		1.6	10
Benzo[b]fluoranthene	<5.0		1.1	5.0
Benzo[k]fluoranthene	<5.0		1.4	5.0
Benzo[a]pyrene	<5.0		1.2	5.0
Indeno[1,2,3-cd]pyrene	<5.0		1.3	5.0
Dibenz(a,h)anthracene	<5.0		1.4	5.0
Benzo[g,h,i]perylene	<5.0		1.4	5.0
3 & 4 Methylphenol	<5.0		1.3	5.0

Surrogate	% Rec	Acceptance Limits
2-Fluorophenol	42	10 - 110
Phenol-d5	26	10 - 110
Nitrobenzene-d5	65	28 - 110
2-Fluorobiphenyl	68	31 - 110
2,4,6-Tribromophenol	79	34 - 116
Terphenyl-d14	88	20 - 133

Client: Bodine Environmental Services

Job Number: 500-29581-1

Lab Control Sample/
Lab Control Sample Duplicate Recovery Report - Batch: 500-101096

Method: 625
Preparation: 625

LCS Lab Sample ID: LCS 500-101096/2-A
Client Matrix: Water
Dilution: 1.0
Date Analyzed: 12/03/2010 2203
Date Prepared: 12/02/2010 0700

Analysis Batch: 500-101221
Prep Batch: 500-101096
Units: ug/L

Instrument ID: CMS01
Lab File ID: 101096BS.D
Initial Weight/Volume: 1000 mL
Final Weight/Volume: 1.0 mL
Injection Volume: 1 uL

LCSD Lab Sample ID: LCSD 500-101096/3-A
Client Matrix: Water
Dilution: 1.0
Date Analyzed: 12/03/2010 2228
Date Prepared: 12/02/2010 0700

Analysis Batch: 500-101221
Prep Batch: 500-101096
Units: ug/L

Instrument ID: CMS01
Lab File ID: 101096BD.D
Initial Weight/Volume: 1000 mL
Final Weight/Volume: 1.0 mL
Injection Volume: 1 uL

Analyte	% Rec. LCS	% Rec. LCSD	Limit	RPD	RPD Limit	LCS Qual	LCSD Qual
N-Nitrosodimethylamine	55	59	10 - 200	7	20		
Phenol	31	35	5 - 112	14	20		
Bis(2-chloroethyl)ether	77	85	12 - 158	10	20		
2,2'-oxybis[1-chloropropane]	73	79	36 - 166	7	20		
N-Nitrosodi-n-propylamine	78	90	10 - 230	15	20		
Hexachloroethane	64	71	40 - 113	11	20		
2-Chlorophenol	70	77	23 - 134	10	20		
2-Methylphenol	64	75	30 - 146	16	20		
Nitrobenzene	80	84	35 - 180	5	20		
Bis(2-chloroethoxy)methane	80	88	33 - 184	9	20		
1,2,4-Trichlorobenzene	71	76	44 - 142	6	20		
Isophorone	73	82	21 - 196	12	20		
2,4-Dimethylphenol	78	87	32 - 119	10	20		
Hexachlorobutadiene	70	74	24 - 116	5	20		
Naphthalene	72	78	21 - 133	8	20		
2,4-Dichlorophenol	77	88	39 - 135	14	20		
2,4,6-Trichlorophenol	86	93	37 - 144	7	20		
Hexachlorocyclopentadiene	73	73	10 - 200	0	20		
2-Chloronaphthalene	81	86	60 - 118	5	20		
4-Chloro-3-methylphenol	77	92	22 - 147	18	20		
2,6-Dinitrotoluene	104	109	50 - 158	5	20		
2-Nitrophenol	83	89	29 - 182	7	20		
Dimethyl phthalate	90	96	10 - 112	6	20		
2,4-Dinitrophenol	106	115	10 - 191	8	20		
Acenaphthylene	83	88	33 - 145	6	20		
2,4-Dinitrotoluene	104	110	39 - 139	6	20		
Acenaphthene	86	90	47 - 145	5	20		
4-Nitrophenol	39	42	10 - 132	7	20	J	
Fluorene	87	90	59 - 121	4	20		
4-Bromophenyl phenyl ether	91	92	53 - 127	1	20		
Hexachlorobenzene	91	93	10 - 152	3	20		
Diethyl phthalate	90	95	10 - 114	5	20		
4-Chlorophenyl phenyl ether	87	94	25 - 158	8	20		

Client: Bodine Environmental Services

Job Number: 500-29581-1

Lab Control Sample/
Lab Control Sample Duplicate Recovery Report - Batch: 500-101096

Method: 625
Preparation: 625

LCS Lab Sample ID: LCS 500-101096/2-A
Client Matrix: Water
Dilution: 1.0
Date Analyzed: 12/03/2010 2203
Date Prepared: 12/02/2010 0700

Analysis Batch: 500-101221
Prep Batch: 500-101096
Units: ug/L

Instrument ID: CMS01
Lab File ID: 101096BS.D
Initial Weight/Volume: 1000 mL
Final Weight/Volume: 1.0 mL
Injection Volume: 1 uL

LCSD Lab Sample ID: LCSD 500-101096/3-A
Client Matrix: Water
Dilution: 1.0
Date Analyzed: 12/03/2010 2228
Date Prepared: 12/02/2010 0700

Analysis Batch: 500-101221
Prep Batch: 500-101096
Units: ug/L

Instrument ID: CMS01
Lab File ID: 101096BD.D
Initial Weight/Volume: 1000 mL
Final Weight/Volume: 1.0 mL
Injection Volume: 1 uL

Analyte	% Rec. LCS	% Rec. LCSD	Limit	RPD	RPD Limit	LCS Qual	LCSD Qual
Pentachlorophenol	100	104	14 - 176	4	20		
N-Nitrosodiphenylamine	96	98	10 - 200	3	20		
4,6-Dinitro-2-methylphenol	104	112	10 - 181	8	20		
Phenanthrene	94	94	54 - 120	0	20		
Anthracene	92	94	27 - 133	2	20		
Dibenzofuran	85	90		6			
Di-n-butyl phthalate	96	101	1 - 118	5	20		
Benzidine	10	12	10 - 200	11	20		
Fluoranthene	101	100	26 - 137	1	20		
Pyrene	87	106	52 - 115	20	20		
Butyl benzyl phthalate	95	105	10 - 152	10	20		
Benzo[a]anthracene	92	94	33 - 143	2	20		
Chrysene	92	94	17 - 168	3	20		
3,3'-Dichlorobenzidine	89	88	10 - 262	1	20		
Bis(2-ethylhexyl) phthalate	95	101	8 - 158	7	20		
Di-n-octyl phthalate	90	101	4 - 146	11	20		
Benzo[b]fluoranthene	80	87	24 - 159	9	20		
Benzo[k]fluoranthene	90	95	11 - 162	6	20		
Benzo[a]pyrene	87	93	17 - 163	7	20		
Indeno[1,2,3-cd]pyrene	102	106	10 - 171	4	20		
Dibenz(a,h)anthracene	99	103	10 - 227	4	20		
Benzo[g,h,i]perylene	99	104	10 - 219	5	20		
3 & 4 Methylphenol	61	75	11 - 150	20	20		

Surrogate	LCS % Rec	LCSD % Rec	Acceptance Limits
2-Fluorophenol	42	45	10 - 110
Phenol-d5	28	32	10 - 110
Nitrobenzene-d5	78	80	28 - 110
2-Fluorobiphenyl	81	82	31 - 110
2,4,6-Tribromophenol	95	98	34 - 116
Terphenyl-d14	87	101	20 - 133

Client: Bodine Environmental Services

Job Number: 500-29581-1

Method Blank - Batch: 500-101237

Method: 1664A
Preparation: 1664A

Lab Sample ID: MB 500-101237/1-A
Client Matrix: Water
Dilution: 1.0
Date Analyzed: 12/06/2010 1430
Date Prepared: 12/06/2010 0732

Analysis Batch: 500-101240
Prep Batch: 500-101237
Units: mg/L

Instrument ID: No Equipment Assigned
Lab File ID: N/A
Initial Weight/Volume: 1000 mL
Final Weight/Volume: 1000 mL

Analyte	Result	Qual	MDL	RL
HEM (Oil & Grease)	<5.0		1.8	5.0

Lab Control Sample - Batch: 500-101237

Method: 1664A
Preparation: 1664A

Lab Sample ID: LCS 500-101237/2-A
Client Matrix: Water
Dilution: 1.0
Date Analyzed: 12/06/2010 1435
Date Prepared: 12/06/2010 0748

Analysis Batch: 500-101240
Prep Batch: 500-101237
Units: mg/L

Instrument ID: No Equipment Assigned
Lab File ID: N/A
Initial Weight/Volume: 1000 mL
Final Weight/Volume: 1000 mL

Analyte	Spike Amount	Result	% Rec.	Limit	Qual
HEM (Oil & Grease)	40.0	35.4	89	78 - 114	

Client: Bodine Environmental Services

Job Number: 500-29581-1

Method Blank - Batch: 500-101090

Method: SM 2540D
Preparation: N/A

Lab Sample ID: MB 500-101090/1
Client Matrix: Water
Dilution: 1.0
Date Analyzed: 12/01/2010 2321
Date Prepared: N/A

Analysis Batch: 500-101090
Prep Batch: N/A
Units: mg/L

Instrument ID: No Equipment Assigned
Lab File ID: N/A
Initial Weight/Volume: 200 mL
Final Weight/Volume: 200 mL

Analyte	Result	Qual	MDL	RL
Total Suspended Solids	<5.0		1.0	5.0

Lab Control Sample - Batch: 500-101090

Method: SM 2540D
Preparation: N/A

Lab Sample ID: LCS 500-101090/2
Client Matrix: Water
Dilution: 1.0
Date Analyzed: 12/01/2010 2324
Date Prepared: N/A

Analysis Batch: 500-101090
Prep Batch: N/A
Units: mg/L

Instrument ID: No Equipment Assigned
Lab File ID: N/A
Initial Weight/Volume: 200 mL
Final Weight/Volume: 200 mL

Analyte	Spike Amount	Result	% Rec.	Limit	Qual
Total Suspended Solids	200	194	97	80 - 120	

Client: Bodine Environmental Services

Job Number: 500-29581-1

Unseeded Control Blank - Batch: 500-101001

Method: SM 5210B
Preparation: N/A

Lab Sample ID: USB 500-101001/1
Client Matrix: Water
Dilution: 1.0
Date Analyzed: 12/01/2010 0815
Date Prepared: N/A

Analysis Batch: 500-101001
Prep Batch: N/A
Units: mg/L

Instrument ID: No Equipment Assigned
Lab File ID: N/A
Initial Weight/Volume: 1.0 mL
Final Weight/Volume: 1.0 mL

Analyte	Result	Qual	MDL	RL
Biochemical Oxygen Demand	<2.0		2.0	2.0

Lab Control Sample - Batch: 500-101001

Method: SM 5210B
Preparation: N/A

Lab Sample ID: LCS 500-101001/2
Client Matrix: Water
Dilution: 1.0
Date Analyzed: 12/01/2010 0817
Date Prepared: N/A

Analysis Batch: 500-101001
Prep Batch: N/A
Units: mg/L

Instrument ID: No Equipment Assigned
Lab File ID: N/A
Initial Weight/Volume: 1.0 mL
Final Weight/Volume: 1.0 mL

Analyte	Spike Amount	Result	% Rec.	Limit	Qual
Biochemical Oxygen Demand	198	191	96	85 - 115	

TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING

2417 Bond Street, University Park, IL 60484
Phone: 708.534.5200 Fax: 708.534.5211

(optional)
Report To
Contact:
Company:
Address:
Address:
Phone:
Fax:
E-Mail:

(optional)
Bill To
Contact:
Company:
Address:
Address:
Phone:
Fax:
PO#/Reference#

Chain of Custody Record

Lab Job #: 500 - 29581
Chain of Custody Number:
Page ____ of ____
Temperature °C of Cooler: 2.0

Client: BODINE ENVIRONMENTAL
Client Project #: 119386-11
Project Name: IEPA JENNISON LANDFILL
Project Location/State: GRANITE CITY, IL
Lab Project #:
Sampler: BRETT BAKER
Lab PM:

Preservative Key
1. HCL, Cool to 4°
2. H2SO4, Cool to 4°
3. HNO3, Cool to 4°
4. NaOH, Cool to 4°
5. NaOH/Zn, Cool to 4°
6. NaHSO4
7. Cool to 4°
8. None
9. Other

Lab ID	MS/MSD	Sample ID	Sampling Date	Sampling Time	# of Containers	Matrix	TSS	Oil + Grease	TS + BOD	SVOCs						Comments
Preservative							8	2	8	8						
Parameter							TSS	Oil + Grease	TS + BOD	SVOCs						
1		GWOUA (11302010)	11/30/10	1015	3	WW		X		X						INFLUENT
2		GWOUB (11302010)	11/30/10	1022	2	WW	X	X								POST OIL/H2O SEPARATOR
3		GWOUC (11302010)	11/30/10	1035	2	WW	X	X								POST INF. BAG FILTERS
4		GWOUE (11302010)	11/30/10	1042	3	WW			X	X						EFFLUENT

Turnaround Time Required (Business Days)
___ 1 Day ___ 2 Days ___ 5 Days X 7 Days ___ 10 Days ___ 15 Days _____ Other
Requested Due Date _____

Sample Disposal
☐ Return to Client ☐ Disposal by Lab ☐ Archive for _____ Months (A fee may be assessed if samples are retained longer than 1 month)

Relinquished By	Company	Date	Time	Received By	Company	Date	Time
BRETT BAKER	BODINE	11/30/10	1103	[signature]	TestAmerica	12/1/10	0940
Relinquished By	Company	Date	Time	Received By	Company	Date	Time
Relinquished By	Company	Date	Time	Received By	Company	Date	Time

Lab Courier
Shipped
Hand Delivered

Matrix Key
WW – Wastewater
W – Water
S – Soil
SL – Sludge
MS – Miscellaneous
Oil – Oil
A – Air
SE – Sediment
SO – Soil
L – Leachate
Wi – Wipe
DW – Drinking Water
O – Other

Client Comments

Lab Comments:

12/08/2010
TAL-4124-500 (1709)

Login Sample Receipt Check List

Client: Bodine Environmental Services

Job Number: 500-29581-1

Login Number: 29581
Creator: Kelsey, Shawn M
List Number: 1

List Source: TestAmerica Chicago

Question	T / F/ NA	Comment
Radioactivity either was not measured or, if measured, is at or below background	True	
The cooler's custody seal, if present, is intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the sample IDs on the containers and the COC.	True	
Samples are received within Holding Time.	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified	True	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
VOA sample vials do not have headspace or bubble is <6mm (1/4") in diameter.	N/A	
If necessary, staff have been informed of any short hold time or quick TAT needs	True	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	

TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING

ANALYTICAL REPORT

Job Number: 500-29861-1

Job Description: Jennison Wright

For:
Bodine Environmental Services
5350 East Firehouse Road
Decatur, IL 62521-9601

Attention: Troy McFate

Approved for release.
Richard C Wright
Project Manager II
12/22/2010 11:16 AM

Richard C Wright
Project Manager II
richard.wright@testamericainc.com
12/22/2010

These test results meet all the requirements of NELAC for accredited parameters.

The Lab Certification ID#:
TestAmerica Chicago 100201
TestAmerica West Sacramento CA00044

All questions regarding this test report should be directed to the TestAmerica Project Manager whose signature appears on this report. All pages of this report are integral parts of the analytical data. Therefore, this report should be reproduced only in its entirety.

Reporting limits are adjusted for sample size used, dilutions and moisture content if applicable.

Comments
No additional comments.

Receipt
All samples were received in good condition within temperature requirements.

GC/MS VOA
Method(s) 624: The laboratory control sample (LCS) for batch 102155 exceeded control limits for the following analyte: 2-Chloroethylvinyl ether. The compound 2-Chloroethylvinyl ether is degraded in the presence of acid in preserved samples. This compound can also be degraded in instrumentation that have run acid preserved samples. The instrument on which these samples were run was such a case, and therefore 2-Chloroethylvinyl ether was degraded in the quality control samples required to report these samples. Results for 2-Chloroethyl vinyl ether are not available due to acid degradation.

Method(s) 624: The following sample(s) was diluted due to the abundance of non-target analytes: GWOUA (12142010) (500-29861-2). Elevated reporting limits (RLs) are provided.

No other analytical or quality issues were noted.

GC/MS Semi VOA
Method(s) 625: Due to the level of dilution required for the following secondary dilution, surrogate recoveries are not reported: GWOUA (12142010) (500-29861-2).

Method(s) 625: The laboratory control sample (LCS) for batch 101978 exceeded control limits for the following non-controlled analyte: Benzidine. No corrective action was required. GWOUA (12142010) (500-29861-2), GWOUE (12142010) (500-29861-4)

Method(s) 625: The following sample was diluted due to the abundance of target and non-target analytes: GWOUA (12142010) (500-29861-2). Elevated reporting limits (RLs) are provided.

No other analytical or quality issues were noted.

General Chemistry
No analytical or quality issues were noted.

Organic Prep
No analytical or quality issues were noted.

EXECUTIVE SUMMARY - Detections

Client: Bodine Environmental Services

Job Number: 500-29861-1

Lab Sample ID / Analyte	Client Sample ID	Result / Qualifier		Reporting Limit	Units	Method
500-29861-1	**GWOUB (12142010)**					
HEM (Oil & Grease)		170		5.1	mg/L	1664A
Total Suspended Solids		170		10	mg/L	SM 2540D
500-29861-2	**GWOUA (12142010)**					
Benzene		40	J	50	ug/L	624
Toluene		74		50	ug/L	624
Ethylbenzene		90		50	ug/L	624
Phenol		54	J	100	ug/L	625
2-Methylphenol		310		50	ug/L	625
2,4-Dimethylphenol		350		50	ug/L	625
Naphthalene		5400		500	ug/L	625
Acenaphthylene		22	J	50	ug/L	625
Acenaphthene		570		50	ug/L	625
Fluorene		450		50	ug/L	625
Pentachlorophenol		160	J	200	ug/L	625
Phenanthrene		1200		500	ug/L	625
Anthracene		130		50	ug/L	625
Dibenzofuran		390		50	ug/L	625
Fluoranthene		450		50	ug/L	625
Pyrene		290		50	ug/L	625
Benzo[a]anthracene		96		50	ug/L	625
Chrysene		79		50	ug/L	625
Benzo[b]fluoranthene		58		50	ug/L	625
Benzo[k]fluoranthene		28	J	50	ug/L	625
Benzo[a]pyrene		49	J	50	ug/L	625
Indeno[1,2,3-cd]pyrene		20	J	50	ug/L	625
Benzo[g,h,i]perylene		23	J	50	ug/L	625
3 & 4 Methylphenol		640		50	ug/L	625
HEM (Oil & Grease)		8.5		5.1	mg/L	1664A
500-29861-4	**GWOUE (12142010)**					
Phenol		2.8	J	9.3	ug/L	625
2-Methylphenol		22		4.7	ug/L	625
2,4-Dimethylphenol		21		4.7	ug/L	625
Acenaphthene		2.5	J	4.7	ug/L	625
3 & 4 Methylphenol		21		4.7	ug/L	625
HEM (Oil & Grease)		2.0	J	5.1	mg/L	1664A
Total Suspended Solids		3.0	J	5.0	mg/L	SM 2540D
Biochemical Oxygen Demand		4.8		2.0	mg/L	SM 5210B

EXECUTIVE SUMMARY - Detections

Client: Bodine Environmental Services

Job Number: 500-29861-1

Lab Sample ID Analyte	Client Sample ID	Result / Qualifier	Reporting Limit	Units	Method
500-29861-5	**GWOUC (12142010)**				
HEM (Oil & Grease)		5.9	5.1	mg/L	1664A
Total Suspended Solids		34	5.0	mg/L	SM 2540D

METHOD SUMMARY

Client: Bodine Environmental Services

Job Number: 500-29861-1

Description	Lab Location	Method	Preparation Method
Matrix: Water			
Volatile Organic Compounds (GC/MS)	TAL CHI	40CFR136A 624	
Semivolatile Organic Compounds (GC/MS)	TAL CHI	40CFR136A 625	
Liquid-Liquid Extraction	TAL CHI		40CFR136A 625
HEM and SGT-HEM	TAL CHI	1664A 1664A	
HEM and SGT-HEM (SPE)	TAL CHI		1664A 1664A
Solids, Total Suspended (TSS)	TAL CHI	SM SM 2540D	
BOD, 5-Day	TAL CHI	SM SM 5210B	

Lab References:

TAL CHI = TestAmerica Chicago

Method References:

1664A = EPA-821-98-002

40CFR136A = "Methods for Organic Chemical Analysis of Municipal Industrial Wastewater", 40CFR, Part 136, Appendix A, October 26, 1984 and subsequent revisions.

SM = "Standard Methods For The Examination Of Water And Wastewater",

METHOD / ANALYST SUMMARY

Client: Bodine Environmental Services

Job Number: 500-29861-1

Method	Analyst	Analyst ID
40CFR136A 624	Alikpala, Elaine	EA
40CFR136A 625	Bergen, Joe	JB
1664A 1664A	Brogan, Mary T	MTB
SM SM 2540D	Boyd, Cheryl L	CLB
SM SM 5210B	Brogan, Mary T	MTB

SAMPLE SUMMARY

Client: Bodine Environmental Services

Job Number: 500-29861-1

Lab Sample ID	Client Sample ID	Client Matrix	Date/Time Sampled	Date/Time Received
500-29861-1	GWOUB (12142010)	Water	12/14/2010 1106	12/15/2010 1030
500-29861-2	GWOUA (12142010)	Water	12/14/2010 1121	12/15/2010 1030
500-29861-3	GWOUD (12142010)	Water	12/14/2010 1125	12/15/2010 1030
500-29861-4	GWOUE (12142010)	Water	12/14/2010 1131	12/15/2010 1030
500-29861-5	GWOUC (12142010)	Water	12/14/2010 1145	12/15/2010 1030

SAMPLE RESULTS

Troy McFate
Bodine Environmental Services
5350 East Firehouse Road
Decatur, IL 62521-9601

Job Number: 500-29861-1

Client Sample ID: GWOUB (12142010)
Lab Sample ID: 500-29861-1

Date Sampled: 12/14/2010 1106
Date Received: 12/15/2010 1030
Client Matrix: Water

Analyte	Result/Qualifier	Unit	MDL	RL	Dilution
Method: 1664A		Date Analyzed:		12/17/2010 1225	
Prep Method: 1664A		Date Prepared:		12/17/2010 0802	
HEM (Oil & Grease)	170	mg/L	1.9	5.1	1.0
Method: SM 2540D		Date Analyzed:		12/16/2010 1901	
Total Suspended Solids	170	mg/L	2.0	10	1.0

Troy McFate
Bodine Environmental Services
5350 East Firehouse Road
Decatur, IL 62521-9601

Job Number: 500-29861-1

Client Sample ID: GWOUA (12142010)
Lab Sample ID: 500-29861-2

Date Sampled: 12/14/2010 1121
Date Received: 12/15/2010 1030
Client Matrix: Water

Analyte	Result/Qualifier		Unit	MDL	RL	Dilution
Method: 624			Date Analyzed:		12/17/2010 1533	
Chloromethane	<100		ug/L	8.8	100	10
Vinyl chloride	<100		ug/L	11	100	10
Bromomethane	<100		ug/L	9.9	100	10
Chloroethane	<100		ug/L	16	100	10
Acrolein	<2000		ug/L	360	2000	10
1,1-Dichloroethene	<50		ug/L	10	50	10
Methylene Chloride	<50		ug/L	10	50	10
trans-1,2-Dichloroethene	<50		ug/L	6.1	50	10
Acrylonitrile	<400		ug/L	60	400	10
1,1-Dichloroethane	<50		ug/L	4.5	50	10
Chloroform	<50		ug/L	6.1	50	10
1,1,1-Trichloroethane	<50		ug/L	7.6	50	10
Carbon tetrachloride	<50		ug/L	7.4	50	10
Benzene	40	J	ug/L	8.4	50	10
1,2-Dichloroethane	<50		ug/L	6.5	50	10
Trichloroethene	<50		ug/L	7.3	50	10
1,2-Dichloropropane	<50		ug/L	8.2	50	10
Bromodichloromethane	<50		ug/L	5.9	50	10
2-Chloroethyl vinyl ether	<100		ug/L	35	100	10
Toluene	74		ug/L	6.0	50	10
1,1,2-Trichloroethane	<50		ug/L	10	50	10
Tetrachloroethene	<50		ug/L	6.1	50	10
Dibromochloromethane	<50		ug/L	11	50	10
Chlorobenzene	<50		ug/L	6.1	50	10
Ethylbenzene	90		ug/L	7.3	50	10
Bromoform	<50		ug/L	8.4	50	10
1,1,2,2-Tetrachloroethane	<50		ug/L	7.7	50	10
1,2-Dichlorobenzene	<50		ug/L	8.1	50	10
1,3-Dichlorobenzene	<50		ug/L	6.6	50	10
1,4-Dichlorobenzene	<50		ug/L	6.4	50	10
1,3-Dichloropropene, Total	<50		ug/L	7.4	50	10

Surrogate			Acceptance Limits
Toluene-d8 (Surr)	94	%	79 - 120
4-Bromofluorobenzene (Surr)	94	%	72 - 120
1,2-Dichloroethane-d4 (Surr)	94	%	80 - 120

Method: 625			Date Analyzed:		12/17/2010 2142	
Prep Method: 625			Date Prepared:		12/15/2010 1723	
N-Nitrosodimethylamine	<100		ug/L	52	100	10
Phenol	54	J	ug/L	8.9	100	10

Troy McFate
Bodine Environmental Services
5350 East Firehouse Road
Decatur, IL 62521-9601

Job Number: 500-29861-1

Client Sample ID: GWOUA (12142010)
Lab Sample ID: 500-29861-2

Date Sampled: 12/14/2010 1121
Date Received: 12/15/2010 1030
Client Matrix: Water

Analyte	Result/Qualifier		Unit	MDL	RL	Dilution
Bis(2-chloroethyl)ether	<50		ug/L	14	50	10
2,2'-oxybis[1-chloropropane]	<50		ug/L	14	50	10
N-Nitrosodi-n-propylamine	<50		ug/L	16	50	10
Hexachloroethane	<50		ug/L	12	50	10
2-Chlorophenol	<50		ug/L	11	50	10
2-Methylphenol	310		ug/L	11	50	10
Nitrobenzene	<50		ug/L	13	50	10
Bis(2-chloroethoxy)methane	<50		ug/L	14	50	10
1,2,4-Trichlorobenzene	<50		ug/L	14	50	10
Isophorone	<50		ug/L	14	50	10
2,4-Dimethylphenol	350		ug/L	16	50	10
Hexachlorobutadiene	<50		ug/L	15	50	10
2,4-Dichlorophenol	<50		ug/L	13	50	10
2,4,6-Trichlorophenol	<50		ug/L	11	50	10
Hexachlorocyclopentadiene	<100		ug/L	13	100	10
2-Chloronaphthalene	<50		ug/L	14	50	10
4-Chloro-3-methylphenol	<50		ug/L	14	50	10
2,6-Dinitrotoluene	<50		ug/L	13	50	10
2-Nitrophenol	<50		ug/L	12	50	10
Dimethyl phthalate	<50		ug/L	12	50	10
2,4-Dinitrophenol	<200		ug/L	81	200	10
Acenaphthylene	22	J	ug/L	15	50	10
2,4-Dinitrotoluene	<50		ug/L	15	50	10
Acenaphthene	570		ug/L	15	50	10
4-Nitrophenol	<200		ug/L	36	200	10
Fluorene	450		ug/L	16	50	10
1,2-Diphenylhydrazine	<50		ug/L	14	50	10
4-Bromophenyl phenyl ether	<50		ug/L	14	50	10
Hexachlorobenzene	<50		ug/L	13	50	10
Diethyl phthalate	<50		ug/L	13	50	10
4-Chlorophenyl phenyl ether	<50		ug/L	13	50	10
Pentachlorophenol	160	J	ug/L	75	200	10
N-Nitrosodiphenylamine	<50		ug/L	18	50	10
4,6-Dinitro-2-methylphenol	<200		ug/L	50	200	10
Anthracene	130		ug/L	14	50	10
Dibenzofuran	390		ug/L	15	50	10
Di-n-butyl phthalate	<50		ug/L	12	50	10
Benzidine	<500	*	ug/L	100	500	10
Fluoranthene	450		ug/L	14	50	10
Pyrene	290		ug/L	14	50	10
Butyl benzyl phthalate	<50		ug/L	13	50	10

Troy McFate
Bodine Environmental Services
5350 East Firehouse Road
Decatur, IL 62521-9601

Job Number: 500-29861-1

Client Sample ID: GWOUA (12142010)
Lab Sample ID: 500-29861-2

Date Sampled: 12/14/2010 1121
Date Received: 12/15/2010 1030
Client Matrix: Water

Analyte	Result/Qualifier		Unit	MDL	RL	Dilution
Benzo[a]anthracene	96		ug/L	11	50	10
Chrysene	79		ug/L	13	50	10
3,3'-Dichlorobenzidine	<50		ug/L	13	50	10
Bis(2-ethylhexyl) phthalate	<100		ug/L	11	100	10
Di-n-octyl phthalate	<100		ug/L	16	100	10
Benzo[b]fluoranthene	58		ug/L	11	50	10
Benzo[k]fluoranthene	28	J	ug/L	14	50	10
Benzo[a]pyrene	49	J	ug/L	12	50	10
Indeno[1,2,3-cd]pyrene	20	J	ug/L	13	50	10
Dibenz(a,h)anthracene	<50		ug/L	14	50	10
Benzo[g,h,i]perylene	23	J	ug/L	14	50	10
3 & 4 Methylphenol	640		ug/L	13	50	10
Surrogate					Acceptance Limits	
2-Fluorophenol	44		%		10 - 110	
Phenol-d5	32		%		10 - 110	
Nitrobenzene-d5	77		%		28 - 110	
2-Fluorobiphenyl	90		%		31 - 110	
2,4,6-Tribromophenol	118	X	%		34 - 116	
Terphenyl-d14	110		%		20 - 133	
Method: 625 Run Type: DL			Date Analyzed:		12/21/2010 0049	
Prep Method: 625			Date Prepared:		12/15/2010 1723	
Naphthalene	5400		ug/L	140	500	100
Phenanthrene	1200		ug/L	140	500	100
Surrogate					Acceptance Limits	
2-Fluorophenol	0	D	%		10 - 110	
Phenol-d5	0	D	%		10 - 110	
Nitrobenzene-d5	0	D	%		28 - 110	
2-Fluorobiphenyl	0	D	%		31 - 110	
2,4,6-Tribromophenol	0	D	%		34 - 116	
Terphenyl-d14	0	D	%		20 - 133	
Method: 1664A			Date Analyzed:		12/17/2010 1229	
Prep Method: 1664A			Date Prepared:		12/17/2010 0817	
HEM (Oil & Grease)	8.5		mg/L	1.8	5.1	1.0

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5350 East Firehouse Road
Decatur, IL 62521-9601

Job Number: 500-29861-1

Client Sample ID: GWOUD (12142010)
Lab Sample ID: 500-29861-3

Date Sampled: 12/14/2010 1125
Date Received: 12/15/2010 1030
Client Matrix: Water

Analyte	Result/Qualifier	Unit	MDL	RL	Dilution
Method: 1664A		Date Analyzed:		12/17/2010 1233	
Prep Method: 1664A		Date Prepared:		12/17/2010 0832	
HEM (Oil & Grease)	<5.2	mg/L	1.9	5.2	1.0

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Job Number: 500-29861-1

Client Sample ID: GWOUE (12142010)
Lab Sample ID: 500-29861-4

Date Sampled: 12/14/2010 1131
Date Received: 12/15/2010 1030
Client Matrix: Water

Analyte	Result/Qualifier		Unit	MDL	RL	Dilution
Method: 625			Date Analyzed:	12/21/2010 0115		
Prep Method: 625			Date Prepared:	12/15/2010 1723		
N-Nitrosodimethylamine	<9.3		ug/L	4.9	9.3	1.0
Phenol	2.8	J	ug/L	0.83	9.3	1.0
Bis(2-chloroethyl)ether	<4.7		ug/L	1.3	4.7	1.0
2,2'-oxybis[1-chloropropane]	<4.7		ug/L	1.3	4.7	1.0
N-Nitrosodi-n-propylamine	<4.7		ug/L	1.4	4.7	1.0
Hexachloroethane	<4.7		ug/L	1.1	4.7	1.0
2-Chlorophenol	<4.7		ug/L	0.99	4.7	1.0
2-Methylphenol	22		ug/L	1.0	4.7	1.0
Nitrobenzene	<4.7		ug/L	1.2	4.7	1.0
Bis(2-chloroethoxy)methane	<4.7		ug/L	1.3	4.7	1.0
1,2,4-Trichlorobenzene	<4.7		ug/L	1.3	4.7	1.0
Isophorone	<4.7		ug/L	1.4	4.7	1.0
2,4-Dimethylphenol	21		ug/L	1.5	4.7	1.0
Hexachlorobutadiene	<4.7		ug/L	1.4	4.7	1.0
Naphthalene	<4.7		ug/L	1.3	4.7	1.0
2,4-Dichlorophenol	<4.7		ug/L	1.3	4.7	1.0
2,4,6-Trichlorophenol	<4.7		ug/L	1.0	4.7	1.0
Hexachlorocyclopentadiene	<9.3		ug/L	1.2	9.3	1.0
2-Chloronaphthalene	<4.7		ug/L	1.3	4.7	1.0
4-Chloro-3-methylphenol	<4.7		ug/L	1.3	4.7	1.0
2,6-Dinitrotoluene	<4.7		ug/L	1.2	4.7	1.0
2-Nitrophenol	<4.7		ug/L	1.1	4.7	1.0
Dimethyl phthalate	<4.7		ug/L	1.1	4.7	1.0
2,4-Dinitrophenol	<19		ug/L	7.6	19	1.0
Acenaphthylene	<4.7		ug/L	1.4	4.7	1.0
2,4-Dinitrotoluene	<4.7		ug/L	1.4	4.7	1.0
Acenaphthene	2.5	J	ug/L	1.4	4.7	1.0
4-Nitrophenol	<19		ug/L	3.4	19	1.0
Fluorene	<4.7		ug/L	1.5	4.7	1.0
1,2-Diphenylhydrazine	<4.7		ug/L	1.3	4.7	1.0
4-Bromophenyl phenyl ether	<4.7		ug/L	1.3	4.7	1.0
Hexachlorobenzene	<4.7		ug/L	1.2	4.7	1.0
Diethyl phthalate	<4.7		ug/L	1.2	4.7	1.0
4-Chlorophenyl phenyl ether	<4.7		ug/L	1.2	4.7	1.0
Pentachlorophenol	<19		ug/L	7.0	19	1.0
N-Nitrosodiphenylamine	<4.7		ug/L	1.7	4.7	1.0
4,6-Dinitro-2-methylphenol	<19		ug/L	4.7	19	1.0
Phenanthrene	<4.7		ug/L	1.3	4.7	1.0
Anthracene	<4.7		ug/L	1.3	4.7	1.0

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Job Number: 500-29861-1

Client Sample ID: GWOUE (12142010)
Lab Sample ID: 500-29861-4

Date Sampled: 12/14/2010 1131
Date Received: 12/15/2010 1030
Client Matrix: Water

Analyte	Result/Qualifier		Unit	MDL	RL	Dilution
Dibenzofuran	<4.7		ug/L	1.4	4.7	1.0
Di-n-butyl phthalate	<4.7		ug/L	1.1	4.7	1.0
Benzidine	<47	*	ug/L	9.3	47	1.0
Fluoranthene	<4.7		ug/L	1.3	4.7	1.0
Pyrene	<4.7		ug/L	1.3	4.7	1.0
Butyl benzyl phthalate	<4.7		ug/L	1.2	4.7	1.0
Benzo[a]anthracene	<4.7		ug/L	1.1	4.7	1.0
Chrysene	<4.7		ug/L	1.2	4.7	1.0
3,3'-Dichlorobenzidine	<4.7		ug/L	1.2	4.7	1.0
Bis(2-ethylhexyl) phthalate	<9.3		ug/L	1.0	9.3	1.0
Di-n-octyl phthalate	<9.3		ug/L	1.5	9.3	1.0
Benzo[b]fluoranthene	<4.7		ug/L	1.1	4.7	1.0
Benzo[k]fluoranthene	<4.7		ug/L	1.3	4.7	1.0
Benzo[a]pyrene	<4.7		ug/L	1.1	4.7	1.0
Indeno[1,2,3-cd]pyrene	<4.7		ug/L	1.2	4.7	1.0
Dibenz(a,h)anthracene	<4.7		ug/L	1.4	4.7	1.0
Benzo[g,h,i]perylene	<4.7		ug/L	1.3	4.7	1.0
3 & 4 Methylphenol	21		ug/L	1.2	4.7	1.0

Surrogate			Acceptance Limits
2-Fluorophenol	36	%	10 - 110
Phenol-d5	24	%	10 - 110
Nitrobenzene-d5	66	%	28 - 110
2-Fluorobiphenyl	70	%	31 - 110
2,4,6-Tribromophenol	116	%	34 - 116
Terphenyl-d14	99	%	20 - 133

Method: 1664A			Date Analyzed:		12/17/2010 1237	
Prep Method: 1664A			Date Prepared:		12/17/2010 0848	
HEM (Oil & Grease)	2.0	J	mg/L	1.8	5.1	1.0
Method: SM 2540D			Date Analyzed:		12/16/2010 1904	
Total Suspended Solids	3.0	J	mg/L	1.0	5.0	1.0
Method: SM 5210B			Date Analyzed:		12/15/2010 1621	
Biochemical Oxygen Demand	4.8		mg/L	2.0	2.0	1.0

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Job Number: 500-29861-1

Client Sample ID: **GWOUC (12142010)**
Lab Sample ID: **500-29861-5**

Date Sampled: 12/14/2010 1145
Date Received: 12/15/2010 1030
Client Matrix: Water

Analyte	Result/Qualifier	Unit	MDL	RL	Dilution
Method: 1664A		Date Analyzed:		12/17/2010 1241	
Prep Method: 1664A		Date Prepared:		12/17/2010 0903	
HEM (Oil & Grease)	5.9	mg/L	1.8	5.1	1.0
Method: SM 2540D		Date Analyzed:		12/16/2010 1907	
Total Suspended Solids	34	mg/L	1.0	5.0	1.0

DATA REPORTING QUALIFIERS

Client: Bodine Environmental Services

Job Number: 500-29861-1

Lab Section	Qualifier	Description
GC/MS VOA		
	J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.
GC/MS Semi VOA		
	*	LCS or LCSD exceeds the control limits
	J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.
	X	Surrogate is outside control limits
	D	Surrogate or matrix spike recoveries were not obtained because the extract was diluted for analysis; also compounds analyzed at a dilution may be flagged with a D.
General Chemistry		
	J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.

QUALITY CONTROL RESULTS

Client: Bodine Environmental Services

Job Number: 500-29861-1

QC Association Summary

Lab Sample ID	Client Sample ID	Report Basis	Client Matrix	Method	Prep Batch
GC/MS VOA					
Analysis Batch:500-102155					
LCS 500-102155/4	Lab Control Sample	T	Water	624	
MB 500-102155/3	Method Blank	T	Water	624	
500-29861-2	GWOUA (12142010)	T	Water	624	

Report Basis
T = Total

GC/MS Semi VOA					
Prep Batch: 500-101978					
LCS 500-101978/2-A	Lab Control Sample	T	Water	625	
MB 500-101978/1-A	Method Blank	T	Water	625	
500-29861-2	GWOUA (12142010)	T	Water	625	
500-29861-2DL	GWOUA (12142010)	T	Water	625	
500-29861-4	GWOUE (12142010)	T	Water	625	
Analysis Batch:500-102141					
500-29861-2	GWOUA (12142010)	T	Water	625	500-101978
Analysis Batch:500-102244					
LCS 500-101978/2-A	Lab Control Sample	T	Water	625	500-101978
MB 500-101978/1-A	Method Blank	T	Water	625	500-101978
500-29861-2DL	GWOUA (12142010)	T	Water	625	500-101978
500-29861-4	GWOUE (12142010)	T	Water	625	500-101978

Report Basis
T = Total

Client: Bodine Environmental Services

Job Number: 500-29861-1

QC Association Summary

Lab Sample ID	Client Sample ID	Report Basis	Client Matrix	Method	Prep Batch
General Chemistry					
Analysis Batch:500-101908					
LCS 500-101908/2	Lab Control Sample	T	Water	SM 5210B	
USB 500-101908/1	Unseeded Control Blank	T	Water	SM 5210B	
500-29861-4	GWOUE (12142010)	T	Water	SM 5210B	
Prep Batch: 500-102070					
LCS 500-102070/2-A	Lab Control Sample	T	Water	1664A	
MB 500-102070/1-A	Method Blank	T	Water	1664A	
500-29861-1	GWOUB (12142010)	T	Water	1664A	
500-29861-2	GWOUA (12142010)	T	Water	1664A	
500-29861-3	GWOUD (12142010)	T	Water	1664A	
500-29861-4	GWOUE (12142010)	T	Water	1664A	
500-29861-5	GWOUC (12142010)	T	Water	1664A	
Analysis Batch:500-102071					
LCS 500-102070/2-A	Lab Control Sample	T	Water	1664A	500-102070
MB 500-102070/1-A	Method Blank	T	Water	1664A	500-102070
500-29861-1	GWOUB (12142010)	T	Water	1664A	500-102070
500-29861-2	GWOUA (12142010)	T	Water	1664A	500-102070
500-29861-3	GWOUD (12142010)	T	Water	1664A	500-102070
500-29861-4	GWOUE (12142010)	T	Water	1664A	500-102070
500-29861-5	GWOUC (12142010)	T	Water	1664A	500-102070
Analysis Batch:500-102077					
LCS 500-102077/2	Lab Control Sample	T	Water	SM 2540D	
MB 500-102077/1	Method Blank	T	Water	SM 2540D	
500-29861-1	GWOUB (12142010)	T	Water	SM 2540D	
500-29861-4	GWOUE (12142010)	T	Water	SM 2540D	
500-29861-5	GWOUC (12142010)	T	Water	SM 2540D	

Report Basis
T = Total

Client: Bodine Environmental Services

Job Number: 500-29861-1

Surrogate Recovery Report

624 Volatile Organic Compounds (GC/MS)

Client Matrix: Water

Lab Sample ID	Client Sample ID	TOL %Rec	BFB %Rec	DCA %Rec
500-29861-2	GWOUA (12142010)	94	94	94
MB 500-102155/3		99	94	99
LCS 500-102155/4		97	97	88

Surrogate	Acceptance Limits
TOL = Toluene-d8 (Surr)	79-120
BFB = 4-Bromofluorobenzene (Surr)	72-120
DCA = 1,2-Dichloroethane-d4 (Surr)	80-120

Client: Bodine Environmental Services

Job Number: 500-29861-1

Surrogate Recovery Report

625 Semivolatile Organic Compounds (GC/MS)

Client Matrix: Water

Lab Sample ID	Client Sample ID	2FP %Rec	PHL %Rec	NBZ %Rec	FBP %Rec	TBP %Rec	TPH %Rec
500-29861-2	GWOUA (12142010)	44	32	77	90	118X	110
500-29861-2 DL	GWOUA (12142010) DL	0D	0D	0D	0D	0D	0D
500-29861-4	GWOUE (12142010)	36	24	66	70	116	99
MB 500-101978/1-A		36	23	68	66	93	97
LCS 500-101978/2-A		39	29	65	74	111	116

Surrogate	Acceptance Limits
2FP = 2-Fluorophenol	10-110
PHL = Phenol-d5	10-110
NBZ = Nitrobenzene-d5	28-110
FBP = 2-Fluorobiphenyl	31-110
TBP = 2,4,6-Tribromophenol	34-116
TPH = Terphenyl-d14	20-133

Client: Bodine Environmental Services

Job Number: 500-29861-1

Method Blank - Batch: 500-102155

Method: 624
Preparation: N/A

Lab Sample ID: MB 500-102155/3
Client Matrix: Water
Dilution: 1.0
Date Analyzed: 12/17/2010 1244
Date Prepared: N/A

Analysis Batch: 500-102155
Prep Batch: N/A
Units: ug/L

Instrument ID: MS19
Lab File ID: 19M1217.D
Initial Weight/Volume: 5 mL
Final Weight/Volume: 5 mL

Analyte	Result	Qual	MDL	RL
Chloromethane	<10		0.88	10
Vinyl chloride	<10		1.1	10
Bromomethane	<10		0.99	10
Chloroethane	<10		1.6	10
Acrolein	<200		36	200
1,1-Dichloroethene	<5.0		1.0	5.0
Methylene Chloride	<5.0		1.0	5.0
trans-1,2-Dichloroethene	<5.0		0.61	5.0
Acrylonitrile	<40		6.0	40
1,1-Dichloroethane	<5.0		0.45	5.0
Chloroform	<5.0		0.61	5.0
1,1,1-Trichloroethane	<5.0		0.76	5.0
Carbon tetrachloride	<5.0		0.74	5.0
Benzene	<5.0		0.84	5.0
1,2-Dichloroethane	<5.0		0.65	5.0
Trichloroethene	<5.0		0.73	5.0
1,2-Dichloropropane	<5.0		0.82	5.0
Bromodichloromethane	<5.0		0.59	5.0
2-Chloroethyl vinyl ether	<10		3.5	10
cis-1,3-Dichloropropene	<5.0		0.70	5.0
Toluene	<5.0		0.60	5.0
trans-1,3-Dichloropropene	<5.0		0.74	5.0
1,1,2-Trichloroethane	<5.0		1.0	5.0
Tetrachloroethene	<5.0		0.61	5.0
Dibromochloromethane	<5.0		1.1	5.0
Chlorobenzene	<5.0		0.61	5.0
Ethylbenzene	<5.0		0.73	5.0
Bromoform	<5.0		0.84	5.0
1,1,2,2-Tetrachloroethane	<5.0		0.77	5.0
1,2-Dichlorobenzene	<5.0		0.81	5.0
1,3-Dichlorobenzene	<5.0		0.66	5.0
1,4-Dichlorobenzene	<5.0		0.64	5.0
1,3-Dichloropropene, Total	<5.0		0.74	5.0

Surrogate	% Rec	Acceptance Limits
Toluene-d8 (Surr)	99	79 - 120
4-Bromofluorobenzene (Surr)	94	72 - 120
1,2-Dichloroethane-d4 (Surr)	99	80 - 120

Client: Bodine Environmental Services

Job Number: 500-29861-1

Lab Control Sample - Batch: 500-102155

Method: 624
Preparation: N/A

Lab Sample ID: LCS 500-102155/4
Client Matrix: Water
Dilution: 1.0
Date Analyzed: 12/17/2010 1309
Date Prepared: N/A

Analysis Batch: 500-102155
Prep Batch: N/A
Units: ug/L

Instrument ID: MS19
Lab File ID: 19S1217.D
Initial Weight/Volume: 5 mL
Final Weight/Volume: 5 mL

Analyte	Spike Amount	Result	% Rec.	Limit	Qual
Chloromethane	20.0	18.0	90	10 - 273	
Vinyl chloride	20.0	17.9	90	10 - 251	
Bromomethane	20.0	18.1	90	10 - 242	
Chloroethane	20.0	18.3	92	14 - 230	
1,1-Dichloroethene	20.0	15.1	76	10 - 234	
Methylene Chloride	20.0	17.6	88	10 - 221	
trans-1,2-Dichloroethene	20.0	15.8	79	54 - 156	
1,1-Dichloroethane	20.0	14.4	72	59 - 155	
Chloroform	20.0	15.6	78	51 - 138	
1,1,1-Trichloroethane	20.0	15.5	78	52 - 162	
Carbon tetrachloride	20.0	15.9	80	70 - 140	
Benzene	20.0	15.4	77	37 - 151	
1,2-Dichloroethane	20.0	15.7	78	49 - 155	
Trichloroethene	20.0	18.2	91	71 - 157	
1,2-Dichloropropane	20.0	15.8	79	10 - 210	
Bromodichloromethane	20.0	16.9	85	35 - 155	
2-Chloroethyl vinyl ether	20.0	6.11	31	10 - 305	J
cis-1,3-Dichloropropene	21.5	16.8	78	10 - 227	
Toluene	20.0	17.6	88	47 - 150	
trans-1,3-Dichloropropene	19.4	16.1	83	17 - 183	
1,1,2-Trichloroethane	20.0	17.0	85	52 - 150	
Tetrachloroethene	20.0	19.7	98	64 - 148	
Dibromochloromethane	20.0	18.2	91	53 - 149	
Chlorobenzene	20.0	18.2	91	37 - 160	
Ethylbenzene	20.0	18.5	92	37 - 162	
Bromoform	20.0	19.0	95	45 - 169	
1,1,2,2-Tetrachloroethane	20.0	18.1	91	46 - 157	
1,2-Dichlorobenzene	20.0	21.2	106	18 - 190	
1,3-Dichlorobenzene	20.0	21.1	105	59 - 156	
1,4-Dichlorobenzene	20.0	20.7	103	18 - 190	

Surrogate	% Rec	Acceptance Limits
Toluene-d8 (Surr)	97	79 - 120
4-Bromofluorobenzene (Surr)	97	72 - 120
1,2-Dichloroethane-d4 (Surr)	88	80 - 120

Client: Bodine Environmental Services

Job Number: 500-29861-1

Method Blank - Batch: 500-101978

Method: 625
Preparation: 625

Lab Sample ID: MB 500-101978/1-A
Client Matrix: Water
Dilution: 1.0
Date Analyzed: 12/20/2010 1505
Date Prepared: 12/15/2010 1723

Analysis Batch: 500-102244
Prep Batch: 500-101978
Units: ug/L

Instrument ID: CMS01
Lab File ID: 101975M.D
Initial Weight/Volume: 1000 mL
Final Weight/Volume: 1.0 mL
Injection Volume: 1 uL

Analyte	Result	Qual	MDL	RL
N-Nitrosodimethylamine	<10		5.2	10
Phenol	<10		0.89	10
Bis(2-chloroethyl)ether	<5.0		1.4	5.0
2,2'-oxybis[1-chloropropane]	<5.0		1.4	5.0
N-Nitrosodi-n-propylamine	<5.0		1.6	5.0
Hexachloroethane	<5.0		1.2	5.0
2-Chlorophenol	<5.0		1.1	5.0
2-Methylphenol	<5.0		1.1	5.0
Nitrobenzene	<5.0		1.3	5.0
Bis(2-chloroethoxy)methane	<5.0		1.4	5.0
1,2,4-Trichlorobenzene	<5.0		1.4	5.0
Isophorone	<5.0		1.4	5.0
2,4-Dimethylphenol	<5.0		1.6	5.0
Hexachlorobutadiene	<5.0		1.5	5.0
Naphthalene	<5.0		1.4	5.0
2,4-Dichlorophenol	<5.0		1.3	5.0
2,4,6-Trichlorophenol	<5.0		1.1	5.0
Hexachlorocyclopentadiene	<10		1.3	10
2-Chloronaphthalene	<5.0		1.4	5.0
4-Chloro-3-methylphenol	<5.0		1.4	5.0
2,6-Dinitrotoluene	<5.0		1.3	5.0
2-Nitrophenol	<5.0		1.2	5.0
Dimethyl phthalate	<5.0		1.2	5.0
2,4-Dinitrophenol	<20		8.1	20
Acenaphthylene	<5.0		1.5	5.0
2,4-Dinitrotoluene	<5.0		1.5	5.0
Acenaphthene	<5.0		1.5	5.0
4-Nitrophenol	<20		3.6	20
Fluorene	<5.0		1.6	5.0
1,2-Diphenylhydrazine	<5.0		1.4	5.0
4-Bromophenyl phenyl ether	<5.0		1.4	5.0
Hexachlorobenzene	<5.0		1.3	5.0
Diethyl phthalate	<5.0		1.3	5.0
4-Chlorophenyl phenyl ether	<5.0		1.3	5.0
Pentachlorophenol	<20		7.5	20
N-Nitrosodiphenylamine	<5.0		1.8	5.0
4,6-Dinitro-2-methylphenol	<20		5.0	20
Phenanthrene	<5.0		1.4	5.0
Anthracene	<5.0		1.4	5.0
Dibenzofuran	<5.0		1.5	5.0
Di-n-butyl phthalate	<5.0		1.2	5.0
Benzidine	<50		10	50
Fluoranthene	<5.0		1.4	5.0

Client: Bodine Environmental Services

Job Number: 500-29861-1

Method Blank - Batch: 500-101978

Method: 625
Preparation: 625

Lab Sample ID: MB 500-101978/1-A
Client Matrix: Water
Dilution: 1.0
Date Analyzed: 12/20/2010 1505
Date Prepared: 12/15/2010 1723

Analysis Batch: 500-102244
Prep Batch: 500-101978
Units: ug/L

Instrument ID: CMS01
Lab File ID: 101975M.D
Initial Weight/Volume: 1000 mL
Final Weight/Volume: 1.0 mL
Injection Volume: 1 uL

Analyte	Result	Qual	MDL	RL
Pyrene	<5.0		1.4	5.0
Butyl benzyl phthalate	<5.0		1.3	5.0
Benzo[a]anthracene	<5.0		1.1	5.0
Chrysene	<5.0		1.3	5.0
3,3'-Dichlorobenzidine	<5.0		1.3	5.0
Bis(2-ethylhexyl) phthalate	<10		1.1	10
Di-n-octyl phthalate	<10		1.6	10
Benzo[b]fluoranthene	<5.0		1.1	5.0
Benzo[k]fluoranthene	<5.0		1.4	5.0
Benzo[a]pyrene	<5.0		1.2	5.0
Indeno[1,2,3-cd]pyrene	<5.0		1.3	5.0
Dibenz(a,h)anthracene	<5.0		1.4	5.0
Benzo[g,h,i]perylene	<5.0		1.4	5.0
3 & 4 Methylphenol	<5.0		1.3	5.0

Surrogate	% Rec	Acceptance Limits
2-Fluorophenol	36	10 - 110
Phenol-d5	23	10 - 110
Nitrobenzene-d5	68	28 - 110
2-Fluorobiphenyl	66	31 - 110
2,4,6-Tribromophenol	93	34 - 116
Terphenyl-d14	97	20 - 133

Client: Bodine Environmental Services

Job Number: 500-29861-1

Lab Control Sample - Batch: 500-101978

Method: 625
Preparation: 625

Lab Sample ID: LCS 500-101978/2-A
Client Matrix: Water
Dilution: 1.0
Date Analyzed: 12/20/2010 1712
Date Prepared: 12/15/2010 1723

Analysis Batch: 500-102244
Prep Batch: 500-101978
Units: ug/L

Instrument ID: CMS01
Lab File ID: 101975BS.D
Initial Weight/Volume: 1000 mL
Final Weight/Volume: 1.0 mL
Injection Volume: 1 uL

Analyte	Spike Amount	Result	% Rec.	Limit	Qual
N-Nitrosodimethylamine	50.0	20.1	40	10 - 200	
Phenol	50.0	15.7	31	5 - 112	
Bis(2-chloroethyl)ether	50.0	32.2	64	12 - 158	
2,2'-oxybis[1-chloropropane]	50.0	31.1	62	36 - 166	
N-Nitrosodi-n-propylamine	50.0	44.7	89	10 - 230	
Hexachloroethane	50.0	24.1	48	40 - 113	
2-Chlorophenol	50.0	32.6	65	23 - 134	
2-Methylphenol	50.0	33.6	67	30 - 146	
Nitrobenzene	50.0	34.0	68	35 - 180	
Bis(2-chloroethoxy)methane	50.0	38.9	78	33 - 184	
1,2,4-Trichlorobenzene	50.0	25.9	52	44 - 142	
Isophorone	50.0	39.8	80	21 - 196	
2,4-Dimethylphenol	50.0	21.5	43	32 - 119	
Hexachlorobutadiene	50.0	26.6	53	24 - 116	
Naphthalene	50.0	27.9	56	21 - 133	
2,4-Dichlorophenol	50.0	40.5	81	39 - 135	
2,4,6-Trichlorophenol	50.0	42.8	86	37 - 144	
Hexachlorocyclopentadiene	50.0	21.9	44	10 - 200	
2-Chloronaphthalene	50.0	30.9	62	60 - 118	
4-Chloro-3-methylphenol	50.0	49.2	98	22 - 147	
2,6-Dinitrotoluene	50.0	57.6	115	50 - 158	
2-Nitrophenol	50.0	38.9	78	29 - 182	
Dimethyl phthalate	50.0	49.7	99	10 - 112	
2,4-Dinitrophenol	50.0	64.3	129	10 - 191	
Acenaphthylene	50.0	36.5	73	33 - 145	
2,4-Dinitrotoluene	50.0	59.3	119	39 - 139	
Acenaphthene	50.0	39.3	79	47 - 145	
4-Nitrophenol	50.0	21.7	43	10 - 132	
Fluorene	50.0	43.9	88	59 - 121	
4-Bromophenyl phenyl ether	50.0	49.4	99	53 - 127	
Hexachlorobenzene	50.0	50.9	102	10 - 152	
Diethyl phthalate	50.0	51.5	103	10 - 114	
4-Chlorophenyl phenyl ether	50.0	44.3	89	25 - 158	
Pentachlorophenol	50.0	50.9	102	14 - 176	
N-Nitrosodiphenylamine	50.0	48.9	98	10 - 200	
4,6-Dinitro-2-methylphenol	50.0	62.2	124	10 - 181	
Phenanthrene	50.0	48.4	97	54 - 120	
Anthracene	50.0	48.0	96	27 - 133	
Dibenzofuran	50.0	40.7	81		
Di-n-butyl phthalate	50.0	54.1	108	1 - 118	
Benzidine	50.0	<50	0	10 - 200	
Fluoranthene	50.0	53.7	107	26 - 137	
Pyrene	50.0	56.0	112	52 - 115	

Client: Bodine Environmental Services

Job Number: 500-29861-1

Lab Control Sample - Batch: 500-101978

Method: 625
Preparation: 625

Lab Sample ID: LCS 500-101978/2-A
Client Matrix: Water
Dilution: 1.0
Date Analyzed: 12/20/2010 1712
Date Prepared: 12/15/2010 1723

Analysis Batch: 500-102244
Prep Batch: 500-101978
Units: ug/L

Instrument ID: CMS01
Lab File ID: 101975BS.D
Initial Weight/Volume: 1000 mL
Final Weight/Volume: 1.0 mL
Injection Volume: 1 uL

Analyte	Spike Amount	Result	% Rec.	Limit	Qual
Butyl benzyl phthalate	50.0	54.4	109	10 - 152	
Benzo[a]anthracene	50.0	48.4	97	33 - 143	
Chrysene	50.0	48.1	96	17 - 168	
3,3'-Dichlorobenzidine	50.0	38.2	76	10 - 262	
Bis(2-ethylhexyl) phthalate	50.0	49.7	99	8 - 158	
Di-n-octyl phthalate	50.0	54.4	109	4 - 146	
Benzo[b]fluoranthene	50.0	47.1	94	24 - 159	
Benzo[k]fluoranthene	50.0	52.9	106	11 - 162	
Benzo[a]pyrene	50.0	48.6	97	17 - 163	
Indeno[1,2,3-cd]pyrene	50.0	53.8	108	10 - 171	
Dibenz(a,h)anthracene	50.0	51.1	102	10 - 227	
Benzo[g,h,i]perylene	50.0	53.0	106	10 - 219	
3 & 4 Methylphenol	50.0	34.5	69	11 - 150	

Surrogate	% Rec	Acceptance Limits
2-Fluorophenol	39	10 - 110
Phenol-d5	29	10 - 110
Nitrobenzene-d5	65	28 - 110
2-Fluorobiphenyl	74	31 - 110
2,4,6-Tribromophenol	111	34 - 116
Terphenyl-d14	116	20 - 133

Client: Bodine Environmental Services

Job Number: 500-29861-1

Method Blank - Batch: 500-102070

Method: 1664A
Preparation: 1664A

Lab Sample ID: MB 500-102070/1-A
Client Matrix: Water
Dilution: 1.0
Date Analyzed: 12/17/2010 1140
Date Prepared: 12/17/2010 0515

Analysis Batch: 500-102071
Prep Batch: 500-102070
Units: mg/L

Instrument ID: No Equipment Assigned
Lab File ID: N/A
Initial Weight/Volume: 1000 mL
Final Weight/Volume: 1000 mL

Analyte	Result	Qual	MDL	RL
HEM (Oil & Grease)	<5.0		1.8	5.0

Lab Control Sample - Batch: 500-102070

Method: 1664A
Preparation: 1664A

Lab Sample ID: LCS 500-102070/2-A
Client Matrix: Water
Dilution: 1.0
Date Analyzed: 12/17/2010 1144
Date Prepared: 12/17/2010 0530

Analysis Batch: 500-102071
Prep Batch: 500-102070
Units: mg/L

Instrument ID: No Equipment Assigned
Lab File ID: N/A
Initial Weight/Volume: 1000 mL
Final Weight/Volume: 1000 mL

Analyte	Spike Amount	Result	% Rec.	Limit	Qual
HEM (Oil & Grease)	40.0	31.8	80	78 - 114	

Client: Bodine Environmental Services

Job Number: 500-29861-1

Method Blank - Batch: 500-102077

Method: SM 2540D
Preparation: N/A

Lab Sample ID: MB 500-102077/1
Client Matrix: Water
Dilution: 1.0
Date Analyzed: 12/16/2010 1842
Date Prepared: N/A

Analysis Batch: 500-102077
Prep Batch: N/A
Units: mg/L

Instrument ID: No Equipment Assigned
Lab File ID: N/A
Initial Weight/Volume: 200 mL
Final Weight/Volume: 200 mL

Analyte	Result	Qual	MDL	RL
Total Suspended Solids	<5.0		1.0	5.0

Lab Control Sample - Batch: 500-102077

Method: SM 2540D
Preparation: N/A

Lab Sample ID: LCS 500-102077/2
Client Matrix: Water
Dilution: 1.0
Date Analyzed: 12/16/2010 1845
Date Prepared: N/A

Analysis Batch: 500-102077
Prep Batch: N/A
Units: mg/L

Instrument ID: No Equipment Assigned
Lab File ID: N/A
Initial Weight/Volume: 200 mL
Final Weight/Volume: 200 mL

Analyte	Spike Amount	Result	% Rec.	Limit	Qual
Total Suspended Solids	200	192	96	80 - 120	

Client: Bodine Environmental Services

Job Number: 500-29861-1

Unseeded Control Blank - Batch: 500-101908

Method: SM 5210B
Preparation: N/A

Lab Sample ID: USB 500-101908/1
Client Matrix: Water
Dilution: 1.0
Date Analyzed: 12/15/2010 0754
Date Prepared: N/A

Analysis Batch: 500-101908
Prep Batch: N/A
Units: mg/L

Instrument ID: No Equipment Assigned
Lab File ID: N/A
Initial Weight/Volume: 1.0 mL
Final Weight/Volume: 1.0 mL

Analyte	Result	Qual	MDL	RL
Biochemical Oxygen Demand	<2.0		2.0	2.0

Lab Control Sample - Batch: 500-101908

Method: SM 5210B
Preparation: N/A

Lab Sample ID: LCS 500-101908/2
Client Matrix: Water
Dilution: 1.0
Date Analyzed: 12/15/2010 0754
Date Prepared: N/A

Analysis Batch: 500-101908
Prep Batch: N/A
Units: mg/L

Instrument ID: No Equipment Assigned
Lab File ID: N/A
Initial Weight/Volume: 1.0 mL
Final Weight/Volume: 1.0 mL

Analyte	Spike Amount	Result	% Rec.	Limit	Qual
Biochemical Oxygen Demand	198	220	111	85 - 115	

TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING

2417 Bond Street, University Park, IL 60484
Phone: 708.534.5200 Fax: 708.534.5211

(optional)
Report To
Contact:
Company:
Address:
Address:
Phone:
Fax:
E-Mail:

(optional)
Bill To
Contact:
Company:
Address:
Address:
Phone:
Fax:
PO#/Reference#

Chain of Custody Record

Lab Job #: 500-29861

Chain of Custody Number:

Page ____ of ____

Temperature °C of Cooler: (2.3) (2.1)

Client: BODINE ENVIRONMENTAL
Client Project #: 119386-11
Project Name: IEPA JENNISON WRIGHT
Project Location/State: GRANITE CITY, IL
Lab Project #:
Sampler: BRETT BAKER
Lab PM:

Preservative Key
1. HCL, Cool to 4°
2. H2SO4, Cool to 4°
3. HNO3, Cool to 4°
4. NaOH, Cool to 4°
5. NaOH/Zn, Cool to 4°
6. NaHSO4
7. Cool to 4°
8. None
9. Other

Lab ID	MS/MSD	Sample ID	Sampling Date	Sampling Time	# of Containers	Matrix	TSS (8)	OIL + GREASE (2)	TSS + BOD (8)	SVOCs (8)	VOCs (1)					Comments
1		GWOUB (12140010)	12/14/10	1106	2	WW	X	X								
2		GWOUA (12142010)	12/14/10	1121	6	WW		X		X	X					
3		GWOUD (12142010)	12/14/10	1125	1	WW		X								
4		GWOUE (12142010)	12/14/10	1131	4	WW		X	X	X						
5		GWOUC (12142010)	12/14/10	1145	2	WW	X	X								

Turnaround Time Required (Business Days)
___ 1 Day ___ 2 Days ___ 5 Days X 7 Days ___ 10 Days ___ 15 Days ___ Other
Requested Due Date ____

Sample Disposal
[ ] Return to Client [X] Disposal by Lab [ ] Archive for ____ Months (A fee may be assessed if samples are retained longer than 1 month)

Relinquished By	Company	Date	Time	Received By	Company	Date	Time
BRETT BAKER	BODINE	12/14/10	1221	[signature]	TA	12/15/10	1030

Lab Courier:
Shipped: FED EX
Hand Delivered:

Matrix Key
WW - Wastewater
W - Water
S - Soil
SL - Sludge
MS - Miscellaneous
OL - Oil
A - Air
SE - Sediment
SO - Soil
L - Leachate
WI - Wipe
DW - Drinking Water
O - Other

Client Comments:

Lab Comments:

12/22/2010
TAL-4124-500 (1209)

Login Sample Receipt Check List

Client: Bodine Environmental Services

Job Number: 500-29861-1

Login Number: 29861
Creator: Lunt, Jeff T
List Number: 1

List Source: TestAmerica Chicago

Question	T / F/ NA	Comment
Radioactivity either was not measured or, if measured, is at or below background	True	
The cooler's custody seal, if present, is intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	2.3,2.1
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the sample IDs on the containers and the COC.	True	
Samples are received within Holding Time.	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified	True	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
VOA sample vials do not have headspace or bubble is <6mm (1/4") in diameter.	True	
If necessary, staff have been informed of any short hold time or quick TAT needs	True	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	

APPENDIX D

October 2010 Groundwater Analytical Results

TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING

ANALYTICAL REPORT

Job Number: 500-28530-1

Job Description: Jennison Wright

For:
Bodine Environmental Services
5350 East Firehouse Road
Decatur, IL 62521-9601

Attention: Troy McFate

Approved for release.
Richard C Wright
Project Manager II
10/28/2010 5:04 PM

Richard C Wright
Project Manager II
richard.wright@testamericainc.com
10/28/2010

These test results meet all the requirements of NELAC for accredited parameters.

The Lab Certification ID#:
TestAmerica Chicago 100201
TestAmerica West Sacramento CA00044

All questions regarding this test report should be directed to the TestAmerica Project Manager whose signature appears on this report. All pages of this report are integral parts of the analytical data. Therefore, this report should be reproduced only in its entirety.

Reporting limits are adjusted for sample size used, dilutions and moisture content if applicable.

TestAmerica Laboratories, Inc.
TestAmerica Chicago 2417 Bond Street, University Park, IL 60484
Tel (708) 534-5200 Fax (708) 534-5211 www.testamericainc.com

ACCREDITED IN ACCORDANCE WITH nelac

Comments
No additional comments.

Receipt
Sample MW-5D we received both 1L amber bottles broken - no sample remains. Per discussion with Bodine, this sample will be recollected.

All other samples were received in good condition within temperature requirements.

GC/MS Semi VOA
Method(s) 8270C: Due to the level of dilution required for the following secondary dilutions, surrogate recoveries are not reported: MW-22 (500-28530-8), MW-23 (500-28530-9), MW-5S (500-28530-5), MW-5S DUP (500-28530-6).

Method(s) 8270C: Surrogate recovery for the following samples was outside control limits: MW-23 (500-28530-9), MW-5S (500-28530-5), MW-5S DUP (500-28530-6), MW-8S (500-28530-2). Evidence of matrix interference is present; therefore, re-extraction and/or re-analysis was not performed.

Method(s) 8270C: The laboratory control sample (LCS) and the laboratory control sample duplicate (LCSD) for batch 97259 exceeded control limits for the non-controlled analyte Benzidine. No corrective action was required. MW-18S (500-28530-1), MW-20 (500-28530-7), MW-22 (500-28530-8), MW-23 (500-28530-9), MW-5S (500-28530-5), MW-5S DUP (500-28530-6), MW-8D (500-28530-4), MW-8M (500-28530-3), MW-8S (500-28530-2)

Method(s) 8270C: The following sample was diluted due to the abundance of non-target analytes: MW-22 (500-28530-8), MW-23 (500-28530-9), MW-5S (500-28530-5), MW-5S DUP (500-28530-6), MW-8S (500-28530-2). Elevated reporting limits (RLs) are provided.

No other analytical or quality issues were noted.

GC Semi VOA
Method(s) 8151A: The following samples were diluted due to the abundance of target analytes: MW-22 (500-28530-8), MW-23 (500-28530-9), MW-5S (500-28530-5), MW-5S DUP (500-28530-6), MW-8M (500-28530-3), MW-8S (500-28530-2). Elevated reporting limits (RLs) are provided.

Method(s) 8151A: Due to the level of dilution required for the following samples, surrogate recoveries are not reported: MW-22 (500-28530-8), MW-23 (500-28530-9), MW-5S (500-28530-5), MW-5S DUP (500-28530-6), MW-8S (500-28530-2).

No other analytical or quality issues were noted.

Organic Prep
No analytical or quality issues were noted.

EXECUTIVE SUMMARY - Detections

Client: Bodine Environmental Services

Job Number: 500-28530-1

Lab Sample ID / Analyte	Client Sample ID	Result / Qualifier		Reporting Limit	Units	Method
500-28530-1	**MW-18S**					
Anthracene		0.50	J	0.93	ug/L	8270C
Fluoranthene		0.23	J	0.93	ug/L	8270C
Pyrene		0.16	J	0.93	ug/L	8270C
Pentachlorophenol		0.10	J	0.47	ug/L	8151A
500-28530-2	**MW-8S**					
Naphthalene		110		9.3	ug/L	8270C
2-Methylnaphthalene		170		4.7	ug/L	8270C
Acenaphthene		11		9.3	ug/L	8270C
Dibenzofuran		12	J	19	ug/L	8270C
Fluorene		13		9.3	ug/L	8270C
Phenanthrene		14		9.3	ug/L	8270C
3 & 4 Methylphenol		4.8	J	19	ug/L	8270C
Pentachlorophenol		86000		47000	ug/L	8151A
500-28530-3	**MW-8M**					
1,2-Dichlorobenzene		0.64	J	1.9	ug/L	8270C
Naphthalene		67		0.94	ug/L	8270C
2-Methylnaphthalene		0.25	J	0.47	ug/L	8270C
Acenaphthylene		0.83	J	0.94	ug/L	8270C
Acenaphthene		70		0.94	ug/L	8270C
Fluorene		15		0.94	ug/L	8270C
Phenanthrene		0.17	J	0.94	ug/L	8270C
Anthracene		0.20	J	0.94	ug/L	8270C
Carbazole		4.9		4.7	ug/L	8270C
Bis(2-ethylhexyl) phthalate		1.9	J	9.4	ug/L	8270C
3 & 4 Methylphenol		0.56	J	1.9	ug/L	8270C
Pentachlorophenol		12		4.8	ug/L	8151A
500-28530-4	**MW-8D**					
2-Methylphenol		0.64	J	1.9	ug/L	8270C
Naphthalene		11		0.93	ug/L	8270C
Acenaphthene		0.10	J	0.93	ug/L	8270C
Bis(2-ethylhexyl) phthalate		1.8	J	9.3	ug/L	8270C
3 & 4 Methylphenol		0.78	J	1.9	ug/L	8270C

EXECUTIVE SUMMARY - Detections

Client: Bodine Environmental Services

Job Number: 500-28530-1

Lab Sample ID Analyte	Client Sample ID	Result / Qualifier		Reporting Limit	Units	Method
500-28530-5	**MW-5S**					
Phenol		210		47	ug/L	8270C
2-Methylphenol		2700		190	ug/L	8270C
2,4-Dimethylphenol		13000		9400	ug/L	8270C
Naphthalene		35000		940	ug/L	8270C
2-Methylnaphthalene		990		47	ug/L	8270C
Acenaphthylene		96		9.4	ug/L	8270C
Acenaphthene		750		9.4	ug/L	8270C
Dibenzofuran		390		19	ug/L	8270C
Fluorene		350		9.4	ug/L	8270C
Phenanthrene		370		9.4	ug/L	8270C
Anthracene		32		9.4	ug/L	8270C
Carbazole		1300		470	ug/L	8270C
Fluoranthene		42		9.4	ug/L	8270C
Pyrene		31		9.4	ug/L	8270C
Benzo[a]anthracene		1.4	J	1.9	ug/L	8270C
Chrysene		1.2	J	4.7	ug/L	8270C
3 & 4 Methylphenol		4300		190	ug/L	8270C
Pentachlorophenol		1300		480	ug/L	8151A
500-28530-6	**MW-5S DUP**					
Phenol		190		47	ug/L	8270C
2-Methylphenol		2500		190	ug/L	8270C
2,4-Dimethylphenol		13000		9400	ug/L	8270C
Naphthalene		36000		940	ug/L	8270C
2-Methylnaphthalene		1000		47	ug/L	8270C
4-Chloro-3-methylphenol		38	J	94	ug/L	8270C
Acenaphthylene		97		9.4	ug/L	8270C
Acenaphthene		730		9.4	ug/L	8270C
Dibenzofuran		390		19	ug/L	8270C
Fluorene		350		9.4	ug/L	8270C
Phenanthrene		380		9.4	ug/L	8270C
Anthracene		33		9.4	ug/L	8270C
Carbazole		730		47	ug/L	8270C
Fluoranthene		46		9.4	ug/L	8270C
Pyrene		33		9.4	ug/L	8270C
Benzo[a]anthracene		1.3	J	1.9	ug/L	8270C
Chrysene		1.7	J	4.7	ug/L	8270C
3 & 4 Methylphenol		3900		190	ug/L	8270C
Pentachlorophenol		1200		480	ug/L	8151A

EXECUTIVE SUMMARY - Detections

Client: Bodine Environmental Services

Job Number: 500-28530-1

Lab Sample ID / Analyte	Client Sample ID	Result / Qualifier		Reporting Limit	Units	Method
500-28530-7	**MW-20**					
2-Methylphenol		0.77	J	1.9	ug/L	8270C
2,4-Dimethylphenol		2.3	J	9.3	ug/L	8270C
Naphthalene		23		0.93	ug/L	8270C
2-Methylnaphthalene		0.37	J	0.47	ug/L	8270C
Acenaphthylene		0.17	J	0.93	ug/L	8270C
Acenaphthene		4.7		0.93	ug/L	8270C
Dibenzofuran		2.8		1.9	ug/L	8270C
Fluorene		2.2		0.93	ug/L	8270C
Phenanthrene		5.6		0.93	ug/L	8270C
Anthracene		0.80	J	0.93	ug/L	8270C
Carbazole		4.9		4.7	ug/L	8270C
Fluoranthene		3.2		0.93	ug/L	8270C
Pyrene		2.1		0.93	ug/L	8270C
Benzo[a]anthracene		0.32		0.19	ug/L	8270C
Chrysene		0.23	J	0.47	ug/L	8270C
Bis(2-ethylhexyl) phthalate		2.7	J	9.3	ug/L	8270C
Benzo[b]fluoranthene		0.14	J	0.19	ug/L	8270C
Benzo[a]pyrene		0.12	J	0.19	ug/L	8270C
Indeno[1,2,3-cd]pyrene		0.074	J	0.19	ug/L	8270C
3 & 4 Methylphenol		1.0	J	1.9	ug/L	8270C
Pentachlorophenol		0.17	J	0.47	ug/L	8151A
500-28530-8	**MW-22**					
Phenol		140		47	ug/L	8270C
2-Methylphenol		2000		190	ug/L	8270C
2,4-Dimethylphenol		9000		4700	ug/L	8270C
Naphthalene		17000		470	ug/L	8270C
2-Methylnaphthalene		480		4.7	ug/L	8270C
Acenaphthylene		50		9.3	ug/L	8270C
Acenaphthene		340		9.3	ug/L	8270C
Dibenzofuran		220		19	ug/L	8270C
Fluorene		200		9.3	ug/L	8270C
Phenanthrene		190		9.3	ug/L	8270C
Anthracene		32		9.3	ug/L	8270C
Carbazole		1100		470	ug/L	8270C
Fluoranthene		32		9.3	ug/L	8270C
Pyrene		22		9.3	ug/L	8270C
Chrysene		1.9	J	4.7	ug/L	8270C
3 & 4 Methylphenol		3900		190	ug/L	8270C
Pentachlorophenol		1200		490	ug/L	8151A

EXECUTIVE SUMMARY - Detections

Client: Bodine Environmental Services

Job Number: 500-28530-1

Lab Sample ID Analyte	Client Sample ID	Result / Qualifier		Reporting Limit	Units	Method
500-28530-9	**MW-23**					
Phenol		390		47	ug/L	8270C
2-Methylphenol		1600		190	ug/L	8270C
2,4-Dimethylphenol		3800		930	ug/L	8270C
Naphthalene		29000		470	ug/L	8270C
Acenaphthylene		42		9.3	ug/L	8270C
Acenaphthene		480		9.3	ug/L	8270C
Dibenzofuran		330		19	ug/L	8270C
Fluorene		280		9.3	ug/L	8270C
Phenanthrene		270		9.3	ug/L	8270C
Anthracene		49		9.3	ug/L	8270C
Carbazole		1900		470	ug/L	8270C
Fluoranthene		39		9.3	ug/L	8270C
Pyrene		25		9.3	ug/L	8270C
Benzo[a]anthracene		2.4		1.9	ug/L	8270C
Chrysene		2.3	J	4.7	ug/L	8270C
Benzo[b]fluoranthene		1.1	J	1.9	ug/L	8270C
3 & 4 Methylphenol		4800		190	ug/L	8270C
Pentachlorophenol		1900		470	ug/L	8151A

METHOD SUMMARY

Client: Bodine Environmental Services

Job Number: 500-28530-1

Description	Lab Location	Method	Preparation Method
Matrix: Water			
Semivolatile Compounds by Gas Chromatography/Mass Spectrometry (GC/MS)	TAL CHI	SW846 8270C	
Liquid-Liquid Extraction (Separatory Funnel)	TAL CHI		SW846 3510C
Herbicides (GC)	TAL CHI	SW846 8151A	
Extraction (Herbicides)	TAL CHI		SW846 8151A

Lab References:

TAL CHI = TestAmerica Chicago

Method References:

SW846 = "Test Methods For Evaluating Solid Waste, Physical/Chemical Methods", Third Edition, November 1986 And Its Updates.

METHOD / ANALYST SUMMARY

Client: Bodine Environmental Services

Job Number: 500-28530-1

Method	Analyst	Analyst ID
SW846 8270C	Akcakal, Duran	DA
SW846 8270C	Bergen, Joe	JB
SW846 8151A	Mroz, Krzysztof A	KAM

SAMPLE SUMMARY

Client: Bodine Environmental Services

Job Number: 500-28530-1

Lab Sample ID	Client Sample ID	Client Matrix	Date/Time Sampled	Date/Time Received
500-28530-1	MW-18S	Water	10/12/2010 0957	10/14/2010 1030
500-28530-2	MW-8S	Water	10/12/2010 1044	10/14/2010 1030
500-28530-3	MW-8M	Water	10/12/2010 1116	10/14/2010 1030
500-28530-4	MW-8D	Water	10/12/2010 1318	10/14/2010 1030
500-28530-5	MW-5S	Water	10/12/2010 1349	10/14/2010 1030
500-28530-6	MW-5S DUP	Water	10/12/2010 1349	10/14/2010 1030
500-28530-7	MW-20	Water	10/13/2010 1121	10/14/2010 1030
500-28530-8	MW-22	Water	10/13/2010 1155	10/14/2010 1030
500-28530-9	MW-23	Water	10/13/2010 1225	10/14/2010 1030

SAMPLE RESULTS

Troy McFate
Bodine Environmental Services
5350 East Firehouse Road
Decatur, IL 62521-9601

Job Number: 500-28530-1

Client Sample ID: MW-18S
Lab Sample ID: 500-28530-1

Date Sampled: 10/12/2010 0957
Date Received: 10/14/2010 1030
Client Matrix: Water

Analyte	Result/Qualifier	Unit	MDL	RL	Dilution
Method: 8270C		Date Analyzed:	10/27/2010 1948		
Prep Method: 3510C		Date Prepared:	10/15/2010 2013		
Phenol	<4.7	ug/L	0.72	4.7	1.0
Bis(2-chloroethyl)ether	<1.9	ug/L	0.42	1.9	1.0
1,3-Dichlorobenzene	<1.9	ug/L	0.20	1.9	1.0
1,4-Dichlorobenzene	<1.9	ug/L	0.22	1.9	1.0
1,2-Dichlorobenzene	<1.9	ug/L	0.23	1.9	1.0
Benzyl alcohol	<19	ug/L	4.6	19	1.0
2-Methylphenol	<1.9	ug/L	0.23	1.9	1.0
2,2'-oxybis[1-chloropropane]	<1.9	ug/L	0.24	1.9	1.0
N-Nitrosodi-n-propylamine	<0.47	ug/L	0.14	0.47	1.0
Hexachloroethane	<4.7	ug/L	1.1	4.7	1.0
2-Chlorophenol	<4.7	ug/L	1.0	4.7	1.0
Nitrobenzene	<0.93	ug/L	0.35	0.93	1.0
Bis(2-chloroethoxy)methane	<1.9	ug/L	0.24	1.9	1.0
1,2,4-Trichlorobenzene	<1.9	ug/L	0.24	1.9	1.0
Benzoic acid	<19	ug/L	4.4	19	1.0
Isophorone	<1.9	ug/L	0.24	1.9	1.0
2,4-Dimethylphenol	<9.3	ug/L	1.5	9.3	1.0
Hexachlorobutadiene	<4.7	ug/L	1.4	4.7	1.0
Naphthalene	<0.93	ug/L	0.13	0.93	1.0
2,4-Dichlorophenol	<9.3	ug/L	0.93	9.3	1.0
4-Chloroaniline	<9.3	ug/L	1.2	9.3	1.0
2,4,6-Trichlorophenol	<4.7	ug/L	1.0	4.7	1.0
2,4,5-Trichlorophenol	<9.3	ug/L	1.7	9.3	1.0
Hexachlorocyclopentadiene	<19	ug/L	5.1	19	1.0
2-Methylnaphthalene	<0.47	ug/L	0.14	0.47	1.0
2-Nitroaniline	<4.7	ug/L	1.3	4.7	1.0
2-Chloronaphthalene	<1.9	ug/L	0.21	1.9	1.0
4-Chloro-3-methylphenol	<9.3	ug/L	1.3	9.3	1.0
2,6-Dinitrotoluene	<0.47	ug/L	0.12	0.47	1.0
2-Nitrophenol	<9.3	ug/L	1.3	9.3	1.0
3-Nitroaniline	<9.3	ug/L	1.8	9.3	1.0
Dimethyl phthalate	<1.9	ug/L	0.69	1.9	1.0
2,4-Dinitrophenol	<19	ug/L	7.3	19	1.0
Acenaphthylene	<0.93	ug/L	0.093	0.93	1.0
2,4-Dinitrotoluene	<0.93	ug/L	0.26	0.93	1.0
Acenaphthene	<0.93	ug/L	0.085	0.93	1.0
Dibenzofuran	<1.9	ug/L	0.26	1.9	1.0
4-Nitrophenol	<19	ug/L	3.5	19	1.0
Fluorene	<0.93	ug/L	0.11	0.93	1.0

Troy McFate
Bodine Environmental Services
5350 East Firehouse Road
Decatur, IL 62521-9601

Job Number: 500-28530-1

Client Sample ID: MW-18S
Lab Sample ID: 500-28530-1

Date Sampled: 10/12/2010 0957
Date Received: 10/14/2010 1030
Client Matrix: Water

Analyte	Result/Qualifier		Unit	MDL	RL	Dilution
4-Nitroaniline	<9.3		ug/L	1.9	9.3	1.0
4-Bromophenyl phenyl ether	<4.7		ug/L	1.3	4.7	1.0
Hexachlorobenzene	<0.47		ug/L	0.088	0.47	1.0
Diethyl phthalate	<1.9		ug/L	0.29	1.9	1.0
4-Chlorophenyl phenyl ether	<4.7		ug/L	1.2	4.7	1.0
N-Nitrosodiphenylamine	<0.93		ug/L	0.23	0.93	1.0
4,6-Dinitro-2-methylphenol	<19		ug/L	4.7	19	1.0
Phenanthrene	<0.93		ug/L	0.073	0.93	1.0
Anthracene	0.50	J	ug/L	0.11	0.93	1.0
Carbazole	<4.7		ug/L	1.2	4.7	1.0
Di-n-butyl phthalate	<4.7		ug/L	1.1	4.7	1.0
Benzidine	<37	*	ug/L	3.8	37	1.0
Fluoranthene	0.23	J	ug/L	0.093	0.93	1.0
Pyrene	0.16	J	ug/L	0.089	0.93	1.0
Butyl benzyl phthalate	<1.9		ug/L	0.28	1.9	1.0
Benzo[a]anthracene	<0.19		ug/L	0.050	0.19	1.0
Chrysene	<0.47		ug/L	0.10	0.47	1.0
3,3'-Dichlorobenzidine	<4.7		ug/L	1.2	4.7	1.0
Bis(2-ethylhexyl) phthalate	<9.3		ug/L	1.1	9.3	1.0
Di-n-octyl phthalate	<9.3		ug/L	1.5	9.3	1.0
Benzo[b]fluoranthene	<0.19		ug/L	0.064	0.19	1.0
Benzo[k]fluoranthene	<0.19		ug/L	0.087	0.19	1.0
Benzo[a]pyrene	<0.19		ug/L	0.042	0.19	1.0
Indeno[1,2,3-cd]pyrene	<0.19		ug/L	0.062	0.19	1.0
Dibenz(a,h)anthracene	<0.28		ug/L	0.11	0.28	1.0
Benzo[g,h,i]perylene	<0.93		ug/L	0.10	0.93	1.0
3 & 4 Methylphenol	<1.9		ug/L	0.23	1.9	1.0

Surrogate			Acceptance Limits
2-Fluorophenol	30	%	20 - 100
Phenol-d5	20	%	20 - 100
Nitrobenzene-d5	64	%	38 - 109
2-Fluorobiphenyl	57	%	37 - 102
2,4,6-Tribromophenol	74	%	41 - 134
Terphenyl-d14	85	%	47 - 120

Method: 8151A Date Analyzed: 10/27/2010 0301
Prep Method: 8151A Date Prepared: 10/18/2010 1115

Pentachlorophenol	0.10	J	ug/L	0.077	0.47	1.0

Surrogate			Acceptance Limits
DCAA	58	%	31 - 110

Troy McFate
Bodine Environmental Services
5350 East Firehouse Road
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Job Number: 500-28530-1

Client Sample ID: MW-8S
Lab Sample ID: 500-28530-2

Date Sampled: 10/12/2010 1044
Date Received: 10/14/2010 1030
Client Matrix: Water

Analyte	Result/Qualifier		Unit	MDL	RL	Dilution
Method: 8270C			Date Analyzed:	10/27/2010 2119		
Prep Method: 3510C			Date Prepared:	10/15/2010 2013		
Phenol	<47		ug/L	7.2	47	10
Bis(2-chloroethyl)ether	<19		ug/L	4.2	19	10
1,3-Dichlorobenzene	<19		ug/L	2.0	19	10
1,4-Dichlorobenzene	<19		ug/L	2.2	19	10
1,2-Dichlorobenzene	<19		ug/L	2.3	19	10
Benzyl alcohol	<190		ug/L	46	190	10
2-Methylphenol	<19		ug/L	2.3	19	10
2,2'-oxybis[1-chloropropane]	<19		ug/L	2.4	19	10
N-Nitrosodi-n-propylamine	<4.7		ug/L	1.4	4.7	10
Hexachloroethane	<47		ug/L	11	47	10
2-Chlorophenol	<47		ug/L	10	47	10
Nitrobenzene	<9.3		ug/L	3.5	9.3	10
Bis(2-chloroethoxy)methane	<19		ug/L	2.4	19	10
1,2,4-Trichlorobenzene	<19		ug/L	2.4	19	10
Benzoic acid	<190		ug/L	44	190	10
Isophorone	<19		ug/L	2.4	19	10
2,4-Dimethylphenol	<93		ug/L	15	93	10
Hexachlorobutadiene	<47		ug/L	14	47	10
Naphthalene	110		ug/L	1.3	9.3	10
2,4-Dichlorophenol	<93		ug/L	9.3	93	10
4-Chloroaniline	<93		ug/L	12	93	10
2,4,6-Trichlorophenol	<47		ug/L	10	47	10
2,4,5-Trichlorophenol	<93		ug/L	17	93	10
Hexachlorocyclopentadiene	<190		ug/L	51	190	10
2-Methylnaphthalene	170		ug/L	1.4	4.7	10
2-Nitroaniline	<47		ug/L	13	47	10
2-Chloronaphthalene	<19		ug/L	2.1	19	10
4-Chloro-3-methylphenol	<93		ug/L	13	93	10
2,6-Dinitrotoluene	<4.7		ug/L	1.2	4.7	10
2-Nitrophenol	<93		ug/L	13	93	10
3-Nitroaniline	<93		ug/L	18	93	10
Dimethyl phthalate	<19		ug/L	6.9	19	10
2,4-Dinitrophenol	<190		ug/L	73	190	10
Acenaphthylene	<9.3		ug/L	0.93	9.3	10
2,4-Dinitrotoluene	<9.3		ug/L	2.6	9.3	10
Acenaphthene	11		ug/L	0.85	9.3	10
Dibenzofuran	12	J	ug/L	2.6	19	10
4-Nitrophenol	<190		ug/L	35	190	10
Fluorene	13		ug/L	1.1	9.3	10

Troy McFate
Bodine Environmental Services
5350 East Firehouse Road
Decatur, IL 62521-9601

Job Number: 500-28530-1

Client Sample ID: MW-8S
Lab Sample ID: 500-28530-2

Date Sampled: 10/12/2010 1044
Date Received: 10/14/2010 1030
Client Matrix: Water

Analyte	Result/Qualifier		Unit	MDL	RL	Dilution
4-Nitroaniline	<93		ug/L	19	93	10
4-Bromophenyl phenyl ether	<47		ug/L	13	47	10
Hexachlorobenzene	<4.7		ug/L	0.88	4.7	10
Diethyl phthalate	<19		ug/L	2.9	19	10
4-Chlorophenyl phenyl ether	<47		ug/L	12	47	10
N-Nitrosodiphenylamine	<9.3		ug/L	2.3	9.3	10
4,6-Dinitro-2-methylphenol	<190		ug/L	47	190	10
Phenanthrene	14		ug/L	0.73	9.3	10
Anthracene	<9.3		ug/L	1.1	9.3	10
Carbazole	<47		ug/L	12	47	10
Di-n-butyl phthalate	<47		ug/L	11	47	10
Benzidine	<370	*	ug/L	38	370	10
Fluoranthene	<9.3		ug/L	0.93	9.3	10
Pyrene	<9.3		ug/L	0.89	9.3	10
Butyl benzyl phthalate	<19		ug/L	2.8	19	10
Benzo[a]anthracene	<1.9		ug/L	0.50	1.9	10
Chrysene	<4.7		ug/L	1.0	4.7	10
3,3'-Dichlorobenzidine	<47		ug/L	12	47	10
Bis(2-ethylhexyl) phthalate	<93		ug/L	11	93	10
Di-n-octyl phthalate	<93		ug/L	15	93	10
Benzo[b]fluoranthene	<1.9		ug/L	0.64	1.9	10
Benzo[k]fluoranthene	<1.9		ug/L	0.87	1.9	10
Benzo[a]pyrene	<1.9		ug/L	0.42	1.9	10
Indeno[1,2,3-cd]pyrene	<1.9		ug/L	0.62	1.9	10
Dibenz(a,h)anthracene	<2.8		ug/L	1.1	2.8	10
Benzo[g,h,i]perylene	<9.3		ug/L	1.0	9.3	10
3 & 4 Methylphenol	4.8	J	ug/L	2.3	19	10

Surrogate				Acceptance Limits
2-Fluorophenol	30		%	20 - 100
Phenol-d5	27		%	20 - 100
Nitrobenzene-d5	32	X	%	38 - 109
2-Fluorobiphenyl	74		%	37 - 102
2,4,6-Tribromophenol	70		%	41 - 134
Terphenyl-d14	76		%	47 - 120

Method: 8151A Date Analyzed: 10/27/2010 0344
Prep Method: 8151A Date Prepared: 10/18/2010 1115

Pentachlorophenol	86000		ug/L	7700	47000	100000

Surrogate				Acceptance Limits
DCAA	0	D	%	31 - 110

Troy McFate
Bodine Environmental Services
5350 East Firehouse Road
Decatur, IL 62521-9601

Job Number: 500-28530-1

Client Sample ID: MW-8M
Lab Sample ID: 500-28530-3

Date Sampled: 10/12/2010 1116
Date Received: 10/14/2010 1030
Client Matrix: Water

Analyte	Result/Qualifier		Unit	MDL	RL	Dilution
Method: 8270C			Date Analyzed:	10/27/2010 2010		
Prep Method: 3510C			Date Prepared:	10/15/2010 2013		
Phenol	<4.7		ug/L	0.73	4.7	1.0
Bis(2-chloroethyl)ether	<1.9		ug/L	0.42	1.9	1.0
1,3-Dichlorobenzene	<1.9		ug/L	0.20	1.9	1.0
1,4-Dichlorobenzene	<1.9		ug/L	0.23	1.9	1.0
1,2-Dichlorobenzene	0.64	J	ug/L	0.24	1.9	1.0
Benzyl alcohol	<19		ug/L	4.6	19	1.0
2-Methylphenol	<1.9		ug/L	0.24	1.9	1.0
2,2'-oxybis[1-chloropropane]	<1.9		ug/L	0.25	1.9	1.0
N-Nitrosodi-n-propylamine	<0.47		ug/L	0.14	0.47	1.0
Hexachloroethane	<4.7		ug/L	1.1	4.7	1.0
2-Chlorophenol	<4.7		ug/L	1.0	4.7	1.0
Nitrobenzene	<0.94		ug/L	0.35	0.94	1.0
Bis(2-chloroethoxy)methane	<1.9		ug/L	0.25	1.9	1.0
1,2,4-Trichlorobenzene	<1.9		ug/L	0.25	1.9	1.0
Benzoic acid	<19		ug/L	4.4	19	1.0
Isophorone	<1.9		ug/L	0.25	1.9	1.0
2,4-Dimethylphenol	<9.4		ug/L	1.5	9.4	1.0
Hexachlorobutadiene	<4.7		ug/L	1.4	4.7	1.0
Naphthalene	67		ug/L	0.13	0.94	1.0
2,4-Dichlorophenol	<9.4		ug/L	0.94	9.4	1.0
4-Chloroaniline	<9.4		ug/L	1.2	9.4	1.0
2,4,6-Trichlorophenol	<4.7		ug/L	1.0	4.7	1.0
2,4,5-Trichlorophenol	<9.4		ug/L	1.7	9.4	1.0
Hexachlorocyclopentadiene	<19		ug/L	5.2	19	1.0
2-Methylnaphthalene	0.25	J	ug/L	0.14	0.47	1.0
2-Nitroaniline	<4.7		ug/L	1.3	4.7	1.0
2-Chloronaphthalene	<1.9		ug/L	0.21	1.9	1.0
4-Chloro-3-methylphenol	<9.4		ug/L	1.3	9.4	1.0
2,6-Dinitrotoluene	<0.47		ug/L	0.12	0.47	1.0
2-Nitrophenol	<9.4		ug/L	1.3	9.4	1.0
3-Nitroaniline	<9.4		ug/L	1.8	9.4	1.0
Dimethyl phthalate	<1.9		ug/L	0.70	1.9	1.0
2,4-Dinitrophenol	<19		ug/L	7.4	19	1.0
Acenaphthylene	0.83	J	ug/L	0.094	0.94	1.0
2,4-Dinitrotoluene	<0.94		ug/L	0.26	0.94	1.0
Acenaphthene	70		ug/L	0.086	0.94	1.0
Dibenzofuran	<1.9		ug/L	0.26	1.9	1.0
4-Nitrophenol	<19		ug/L	3.5	19	1.0
Fluorene	15		ug/L	0.11	0.94	1.0

Troy McFate
Bodine Environmental Services
5350 East Firehouse Road
Decatur, IL 62521-9601

Job Number: 500-28530-1

Client Sample ID: MW-8M
Lab Sample ID: 500-28530-3

Date Sampled: 10/12/2010 1116
Date Received: 10/14/2010 1030
Client Matrix: Water

Analyte	Result/Qualifier		Unit	MDL	RL	Dilution
4-Nitroaniline	<9.4		ug/L	1.9	9.4	1.0
4-Bromophenyl phenyl ether	<4.7		ug/L	1.3	4.7	1.0
Hexachlorobenzene	<0.47		ug/L	0.089	0.47	1.0
Diethyl phthalate	<1.9		ug/L	0.29	1.9	1.0
4-Chlorophenyl phenyl ether	<4.7		ug/L	1.2	4.7	1.0
N-Nitrosodiphenylamine	<0.94		ug/L	0.24	0.94	1.0
4,6-Dinitro-2-methylphenol	<19		ug/L	4.7	19	1.0
Phenanthrene	0.17	J	ug/L	0.074	0.94	1.0
Anthracene	0.20	J	ug/L	0.11	0.94	1.0
Carbazole	4.9		ug/L	1.2	4.7	1.0
Di-n-butyl phthalate	<4.7		ug/L	1.1	4.7	1.0
Benzidine	<38	*	ug/L	3.9	38	1.0
Fluoranthene	<0.94		ug/L	0.094	0.94	1.0
Pyrene	<0.94		ug/L	0.090	0.94	1.0
Butyl benzyl phthalate	<1.9		ug/L	0.28	1.9	1.0
Benzo[a]anthracene	<0.19		ug/L	0.051	0.19	1.0
Chrysene	<0.47		ug/L	0.10	0.47	1.0
3,3'-Dichlorobenzidine	<4.7		ug/L	1.2	4.7	1.0
Bis(2-ethylhexyl) phthalate	1.9	J	ug/L	1.1	9.4	1.0
Di-n-octyl phthalate	<9.4		ug/L	1.5	9.4	1.0
Benzo[b]fluoranthene	<0.19		ug/L	0.065	0.19	1.0
Benzo[k]fluoranthene	<0.19		ug/L	0.088	0.19	1.0
Benzo[a]pyrene	<0.19		ug/L	0.042	0.19	1.0
Indeno[1,2,3-cd]pyrene	<0.19		ug/L	0.062	0.19	1.0
Dibenz(a,h)anthracene	<0.28		ug/L	0.11	0.28	1.0
Benzo[g,h,i]perylene	<0.94		ug/L	0.10	0.94	1.0
3 & 4 Methylphenol	0.56	J	ug/L	0.24	1.9	1.0

Surrogate			Acceptance Limits
2-Fluorophenol	33	%	20 - 100
Phenol-d5	22	%	20 - 100
Nitrobenzene-d5	69	%	38 - 109
2-Fluorobiphenyl	58	%	37 - 102
2,4,6-Tribromophenol	74	%	41 - 134
Terphenyl-d14	94	%	47 - 120

Method: 8151A Date Analyzed: 10/27/2010 0428
Prep Method: 8151A Date Prepared: 10/18/2010 1115

Pentachlorophenol	12	ug/L	0.78	4.8	10

Surrogate			Acceptance Limits
DCAA	71	%	31 - 110

Troy McFate
Bodine Environmental Services
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Job Number: 500-28530-1

Client Sample ID: MW-8D
Lab Sample ID: 500-28530-4

Date Sampled: 10/12/2010 1318
Date Received: 10/14/2010 1030
Client Matrix: Water

Analyte	Result/Qualifier		Unit	MDL	RL	Dilution
Method: 8270C			Date Analyzed:	10/27/2010 2033		
Prep Method: 3510C			Date Prepared:	10/15/2010 2013		
Phenol	<4.7		ug/L	0.72	4.7	1.0
Bis(2-chloroethyl)ether	<1.9		ug/L	0.42	1.9	1.0
1,3-Dichlorobenzene	<1.9		ug/L	0.20	1.9	1.0
1,4-Dichlorobenzene	<1.9		ug/L	0.22	1.9	1.0
1,2-Dichlorobenzene	<1.9		ug/L	0.23	1.9	1.0
Benzyl alcohol	<19		ug/L	4.6	19	1.0
2-Methylphenol	0.64	J	ug/L	0.23	1.9	1.0
2,2'-oxybis[1-chloropropane]	<1.9		ug/L	0.24	1.9	1.0
N-Nitrosodi-n-propylamine	<0.47		ug/L	0.14	0.47	1.0
Hexachloroethane	<4.7		ug/L	1.1	4.7	1.0
2-Chlorophenol	<4.7		ug/L	1.0	4.7	1.0
Nitrobenzene	<0.93		ug/L	0.35	0.93	1.0
Bis(2-chloroethoxy)methane	<1.9		ug/L	0.24	1.9	1.0
1,2,4-Trichlorobenzene	<1.9		ug/L	0.24	1.9	1.0
Benzoic acid	<19		ug/L	4.4	19	1.0
Isophorone	<1.9		ug/L	0.24	1.9	1.0
2,4-Dimethylphenol	<9.3		ug/L	1.5	9.3	1.0
Hexachlorobutadiene	<4.7		ug/L	1.4	4.7	1.0
Naphthalene	11		ug/L	0.13	0.93	1.0
2,4-Dichlorophenol	<9.3		ug/L	0.93	9.3	1.0
4-Chloroaniline	<9.3		ug/L	1.2	9.3	1.0
2,4,6-Trichlorophenol	<4.7		ug/L	1.0	4.7	1.0
2,4,5-Trichlorophenol	<9.3		ug/L	1.7	9.3	1.0
Hexachlorocyclopentadiene	<19		ug/L	5.1	19	1.0
2-Methylnaphthalene	<0.47		ug/L	0.14	0.47	1.0
2-Nitroaniline	<4.7		ug/L	1.3	4.7	1.0
2-Chloronaphthalene	<1.9		ug/L	0.21	1.9	1.0
4-Chloro-3-methylphenol	<9.3		ug/L	1.3	9.3	1.0
2,6-Dinitrotoluene	<0.47		ug/L	0.12	0.47	1.0
2-Nitrophenol	<9.3		ug/L	1.3	9.3	1.0
3-Nitroaniline	<9.3		ug/L	1.8	9.3	1.0
Dimethyl phthalate	<1.9		ug/L	0.69	1.9	1.0
2,4-Dinitrophenol	<19		ug/L	7.3	19	1.0
Acenaphthylene	<0.93		ug/L	0.093	0.93	1.0
2,4-Dinitrotoluene	<0.93		ug/L	0.26	0.93	1.0
Acenaphthene	0.10	J	ug/L	0.085	0.93	1.0
Dibenzofuran	<1.9		ug/L	0.26	1.9	1.0
4-Nitrophenol	<19		ug/L	3.5	19	1.0
Fluorene	<0.93		ug/L	0.11	0.93	1.0

Troy McFate
Bodine Environmental Services
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Decatur, IL 62521-9601

Job Number: 500-28530-1

Client Sample ID: MW-8D
Lab Sample ID: 500-28530-4

Date Sampled: 10/12/2010 1318
Date Received: 10/14/2010 1030
Client Matrix: Water

Analyte	Result/Qualifier		Unit	MDL	RL	Dilution
4-Nitroaniline	<9.3		ug/L	1.9	9.3	1.0
4-Bromophenyl phenyl ether	<4.7		ug/L	1.3	4.7	1.0
Hexachlorobenzene	<0.47		ug/L	0.088	0.47	1.0
Diethyl phthalate	<1.9		ug/L	0.29	1.9	1.0
4-Chlorophenyl phenyl ether	<4.7		ug/L	1.2	4.7	1.0
N-Nitrosodiphenylamine	<0.93		ug/L	0.23	0.93	1.0
4,6-Dinitro-2-methylphenol	<19		ug/L	4.7	19	1.0
Phenanthrene	<0.93		ug/L	0.073	0.93	1.0
Anthracene	<0.93		ug/L	0.11	0.93	1.0
Carbazole	<4.7		ug/L	1.2	4.7	1.0
Di-n-butyl phthalate	<4.7		ug/L	1.1	4.7	1.0
Benzidine	<37	*	ug/L	3.8	37	1.0
Fluoranthene	<0.93		ug/L	0.093	0.93	1.0
Pyrene	<0.93		ug/L	0.089	0.93	1.0
Butyl benzyl phthalate	<1.9		ug/L	0.28	1.9	1.0
Benzo[a]anthracene	<0.19		ug/L	0.050	0.19	1.0
Chrysene	<0.47		ug/L	0.10	0.47	1.0
3,3'-Dichlorobenzidine	<4.7		ug/L	1.2	4.7	1.0
Bis(2-ethylhexyl) phthalate	1.8	J	ug/L	1.1	9.3	1.0
Di-n-octyl phthalate	<9.3		ug/L	1.5	9.3	1.0
Benzo[b]fluoranthene	<0.19		ug/L	0.064	0.19	1.0
Benzo[k]fluoranthene	<0.19		ug/L	0.087	0.19	1.0
Benzo[a]pyrene	<0.19		ug/L	0.042	0.19	1.0
Indeno[1,2,3-cd]pyrene	<0.19		ug/L	0.062	0.19	1.0
Dibenz(a,h)anthracene	<0.28		ug/L	0.11	0.28	1.0
Benzo[g,h,i]perylene	<0.93		ug/L	0.10	0.93	1.0
3 & 4 Methylphenol	0.78	J	ug/L	0.23	1.9	1.0

Surrogate			Acceptance Limits
2-Fluorophenol	32	%	20 - 100
Phenol-d5	21	%	20 - 100
Nitrobenzene-d5	66	%	38 - 109
2-Fluorobiphenyl	58	%	37 - 102
2,4,6-Tribromophenol	60	%	41 - 134
Terphenyl-d14	88	%	47 - 120

Method: 8151A Date Analyzed: 10/27/2010 0449
Prep Method: 8151A Date Prepared: 10/18/2010 1115

Pentachlorophenol	<0.47	ug/L	0.077	0.47	1.0

Surrogate			Acceptance Limits
DCAA	55	%	31 - 110

Troy McFate
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Job Number: 500-28530-1

Client Sample ID: MW-5S
Lab Sample ID: 500-28530-5

Date Sampled: 10/12/2010 1349
Date Received: 10/14/2010 1030
Client Matrix: Water

Analyte	Result/Qualifier	Unit	MDL	RL	Dilution
Method: 8270C		Date Analyzed:	10/27/2010 2204		
Prep Method: 3510C		Date Prepared:	10/15/2010 2013		
Phenol	210	ug/L	7.3	47	10
Bis(2-chloroethyl)ether	<19	ug/L	4.2	19	10
1,3-Dichlorobenzene	<19	ug/L	2.0	19	10
1,4-Dichlorobenzene	<19	ug/L	2.3	19	10
1,2-Dichlorobenzene	<19	ug/L	2.4	19	10
Benzyl alcohol	<190	ug/L	46	190	10
2,2'-oxybis[1-chloropropane]	<19	ug/L	2.5	19	10
N-Nitrosodi-n-propylamine	<4.7	ug/L	1.4	4.7	10
Hexachloroethane	<47	ug/L	11	47	10
2-Chlorophenol	<47	ug/L	10	47	10
Nitrobenzene	<9.4	ug/L	3.5	9.4	10
Bis(2-chloroethoxy)methane	<19	ug/L	2.5	19	10
1,2,4-Trichlorobenzene	<19	ug/L	2.5	19	10
Benzoic acid	<190	ug/L	44	190	10
Isophorone	<19	ug/L	2.5	19	10
Hexachlorobutadiene	<47	ug/L	14	47	10
2,4-Dichlorophenol	<94	ug/L	9.4	94	10
4-Chloroaniline	<94	ug/L	12	94	10
2,4,6-Trichlorophenol	<47	ug/L	10	47	10
2,4,5-Trichlorophenol	<94	ug/L	17	94	10
Hexachlorocyclopentadiene	<190	ug/L	52	190	10
2-Nitroaniline	<47	ug/L	13	47	10
2-Chloronaphthalene	<19	ug/L	2.1	19	10
4-Chloro-3-methylphenol	<94	ug/L	13	94	10
2,6-Dinitrotoluene	<4.7	ug/L	1.2	4.7	10
2-Nitrophenol	<94	ug/L	13	94	10
3-Nitroaniline	<94	ug/L	18	94	10
Dimethyl phthalate	<19	ug/L	7.0	19	10
2,4-Dinitrophenol	<190	ug/L	74	190	10
Acenaphthylene	96	ug/L	0.94	9.4	10
2,4-Dinitrotoluene	<9.4	ug/L	2.6	9.4	10
Acenaphthene	750	ug/L	0.86	9.4	10
Dibenzofuran	390	ug/L	2.6	19	10
4-Nitrophenol	<190	ug/L	35	190	10
Fluorene	350	ug/L	1.1	9.4	10
4-Nitroaniline	<94	ug/L	19	94	10
4-Bromophenyl phenyl ether	<47	ug/L	13	47	10
Hexachlorobenzene	<4.7	ug/L	0.89	4.7	10
Diethyl phthalate	<19	ug/L	2.9	19	10

Troy McFate
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5350 East Firehouse Road
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Job Number: 500-28530-1

Client Sample ID: MW-5S
Lab Sample ID: 500-28530-5

Date Sampled: 10/12/2010 1349
Date Received: 10/14/2010 1030
Client Matrix: Water

Analyte	Result/Qualifier		Unit	MDL	RL	Dilution
4-Chlorophenyl phenyl ether	<47		ug/L	12	47	10
N-Nitrosodiphenylamine	<9.4		ug/L	2.4	9.4	10
4,6-Dinitro-2-methylphenol	<190		ug/L	47	190	10
Phenanthrene	370		ug/L	0.74	9.4	10
Anthracene	32		ug/L	1.1	9.4	10
Di-n-butyl phthalate	<47		ug/L	11	47	10
Benzidine	<380	*	ug/L	39	380	10
Fluoranthene	42		ug/L	0.94	9.4	10
Pyrene	31		ug/L	0.90	9.4	10
Butyl benzyl phthalate	<19		ug/L	2.8	19	10
Benzo[a]anthracene	1.4	J	ug/L	0.51	1.9	10
Chrysene	1.2	J	ug/L	1.0	4.7	10
3,3'-Dichlorobenzidine	<47		ug/L	12	47	10
Bis(2-ethylhexyl) phthalate	<94		ug/L	11	94	10
Di-n-octyl phthalate	<94		ug/L	15	94	10
Benzo[b]fluoranthene	<1.9		ug/L	0.65	1.9	10
Benzo[k]fluoranthene	<1.9		ug/L	0.88	1.9	10
Benzo[a]pyrene	<1.9		ug/L	0.42	1.9	10
Indeno[1,2,3-cd]pyrene	<1.9		ug/L	0.62	1.9	10
Dibenz(a,h)anthracene	<2.8		ug/L	1.1	2.8	10
Benzo[g,h,i]perylene	<9.4		ug/L	1.0	9.4	10

Surrogate				Acceptance Limits
2-Fluorophenol	59		%	20 - 100
Phenol-d5	41		%	20 - 100
Nitrobenzene-d5	353	X	%	38 - 109
2-Fluorobiphenyl	103	X	%	37 - 102
2,4,6-Tribromophenol	122		%	41 - 134
Terphenyl-d14	128	X	%	47 - 120

Method: 8270C Run Type: DL Date Analyzed: 10/27/2010 2226
Prep Method: 3510C Date Prepared: 10/15/2010 2013

2-Methylphenol	2700		ug/L	24	190	100
2-Methylnaphthalene	990		ug/L	14	47	100
Carbazole	1300		ug/L	120	470	100
3 & 4 Methylphenol	4300		ug/L	24	190	100

Surrogate				Acceptance Limits
2-Fluorophenol	0	D	%	20 - 100
Phenol-d5	0	D	%	20 - 100
Nitrobenzene-d5	0	D	%	38 - 109
2-Fluorobiphenyl	0	D	%	37 - 102

Troy McFate
Bodine Environmental Services
5350 East Firehouse Road
Decatur, IL 62521-9601

Job Number: 500-28530-1

Client Sample ID: MW-5S
Lab Sample ID: 500-28530-5

Date Sampled: 10/12/2010 1349
Date Received: 10/14/2010 1030
Client Matrix: Water

Analyte	Result/Qualifier		Unit	MDL	RL	Dilution
Surrogate					Acceptance Limits	
2,4,6-Tribromophenol	0	D	%		41 - 134	
Terphenyl-d14	0	D	%		47 - 120	
Method: 8270C Run Type: DL2			Date Analyzed:		10/28/2010 1400	
Prep Method: 3510C			Date Prepared:		10/15/2010 2013	
2,4-Dimethylphenol	13000		ug/L	1500	9400	1000
Naphthalene	35000		ug/L	130	940	1000
Surrogate					Acceptance Limits	
2-Fluorophenol	0	D	%		20 - 100	
Phenol-d5	0	D	%		20 - 100	
Nitrobenzene-d5	0	D	%		38 - 109	
2-Fluorobiphenyl	0	D	%		37 - 102	
2,4,6-Tribromophenol	0	D	%		41 - 134	
Terphenyl-d14	0	D	%		47 - 120	
Method: 8151A			Date Analyzed:		10/27/2010 0511	
Prep Method: 8151A			Date Prepared:		10/18/2010 1115	
Pentachlorophenol	1300		ug/L	78	480	1000
Surrogate					Acceptance Limits	
DCAA	0	D	%		31 - 110	

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Job Number: 500-28530-1

Client Sample ID: MW-5S DUP
Lab Sample ID: 500-28530-6

Date Sampled: 10/12/2010 1349
Date Received: 10/14/2010 1030
Client Matrix: Water

Analyte	Result/Qualifier		Unit	MDL	RL	Dilution
Method: 8270C			Date Analyzed:	10/27/2010 2249		
Prep Method: 3510C			Date Prepared:	10/15/2010 2013		
Phenol	190		ug/L	7.3	47	10
Bis(2-chloroethyl)ether	<19		ug/L	4.2	19	10
1,3-Dichlorobenzene	<19		ug/L	2.0	19	10
1,4-Dichlorobenzene	<19		ug/L	2.3	19	10
1,2-Dichlorobenzene	<19		ug/L	2.4	19	10
Benzyl alcohol	<190		ug/L	46	190	10
2,2'-oxybis[1-chloropropane]	<19		ug/L	2.5	19	10
N-Nitrosodi-n-propylamine	<4.7		ug/L	1.4	4.7	10
Hexachloroethane	<47		ug/L	11	47	10
2-Chlorophenol	<47		ug/L	10	47	10
Nitrobenzene	<9.4		ug/L	3.5	9.4	10
Bis(2-chloroethoxy)methane	<19		ug/L	2.5	19	10
1,2,4-Trichlorobenzene	<19		ug/L	2.5	19	10
Benzoic acid	<190		ug/L	44	190	10
Isophorone	<19		ug/L	2.5	19	10
Hexachlorobutadiene	<47		ug/L	14	47	10
2,4-Dichlorophenol	<94		ug/L	9.4	94	10
4-Chloroaniline	<94		ug/L	12	94	10
2,4,6-Trichlorophenol	<47		ug/L	10	47	10
2,4,5-Trichlorophenol	<94		ug/L	17	94	10
Hexachlorocyclopentadiene	<190		ug/L	52	190	10
2-Nitroaniline	<47		ug/L	13	47	10
2-Chloronaphthalene	<19		ug/L	2.1	19	10
4-Chloro-3-methylphenol	38	J	ug/L	13	94	10
2,6-Dinitrotoluene	<4.7		ug/L	1.2	4.7	10
2-Nitrophenol	<94		ug/L	13	94	10
3-Nitroaniline	<94		ug/L	18	94	10
Dimethyl phthalate	<19		ug/L	7.0	19	10
2,4-Dinitrophenol	<190		ug/L	74	190	10
Acenaphthylene	97		ug/L	0.94	9.4	10
2,4-Dinitrotoluene	<9.4		ug/L	2.6	9.4	10
Acenaphthene	730		ug/L	0.86	9.4	10
Dibenzofuran	390		ug/L	2.6	19	10
4-Nitrophenol	<190		ug/L	35	190	10
Fluorene	350		ug/L	1.1	9.4	10
4-Nitroaniline	<94		ug/L	19	94	10
4-Bromophenyl phenyl ether	<47		ug/L	13	47	10
Hexachlorobenzene	<4.7		ug/L	0.89	4.7	10
Diethyl phthalate	<19		ug/L	2.9	19	10

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Job Number: 500-28530-1

Client Sample ID: MW-5S DUP
Lab Sample ID: 500-28530-6

Date Sampled: 10/12/2010 1349
Date Received: 10/14/2010 1030
Client Matrix: Water

Analyte	Result/Qualifier		Unit	MDL	RL	Dilution
4-Chlorophenyl phenyl ether	<47		ug/L	12	47	10
N-Nitrosodiphenylamine	<9.4		ug/L	2.4	9.4	10
4,6-Dinitro-2-methylphenol	<190		ug/L	47	190	10
Phenanthrene	380		ug/L	0.74	9.4	10
Anthracene	33		ug/L	1.1	9.4	10
Carbazole	730		ug/L	12	47	10
Di-n-butyl phthalate	<47		ug/L	11	47	10
Benzidine	<380	*	ug/L	39	380	10
Fluoranthene	46		ug/L	0.94	9.4	10
Pyrene	33		ug/L	0.90	9.4	10
Butyl benzyl phthalate	<19		ug/L	2.8	19	10
Benzo[a]anthracene	1.3	J	ug/L	0.51	1.9	10
Chrysene	1.7	J	ug/L	1.0	4.7	10
3,3'-Dichlorobenzidine	<47		ug/L	12	47	10
Bis(2-ethylhexyl) phthalate	<94		ug/L	11	94	10
Di-n-octyl phthalate	<94		ug/L	15	94	10
Benzo[b]fluoranthene	<1.9		ug/L	0.65	1.9	10
Benzo[k]fluoranthene	<1.9		ug/L	0.88	1.9	10
Benzo[a]pyrene	<1.9		ug/L	0.42	1.9	10
Indeno[1,2,3-cd]pyrene	<1.9		ug/L	0.62	1.9	10
Dibenz(a,h)anthracene	<2.8		ug/L	1.1	2.8	10
Benzo[g,h,i]perylene	<9.4		ug/L	1.0	9.4	10

Surrogate				Acceptance Limits
2-Fluorophenol	57		%	20 - 100
Phenol-d5	41		%	20 - 100
Nitrobenzene-d5	277	X	%	38 - 109
2-Fluorobiphenyl	101		%	37 - 102
2,4,6-Tribromophenol	119		%	41 - 134
Terphenyl-d14	123	X	%	47 - 120

Method: 8270C Run Type: DL Date Analyzed: 10/27/2010 2312
Prep Method: 3510C Date Prepared: 10/15/2010 2013

2-Methylphenol	2500		ug/L	24	190	100
2-Methylnaphthalene	1000		ug/L	14	47	100
3 & 4 Methylphenol	3900		ug/L	24	190	100

Surrogate				Acceptance Limits
2-Fluorophenol	0	D	%	20 - 100
Phenol-d5	0	D	%	20 - 100
Nitrobenzene-d5	0	D	%	38 - 109
2-Fluorobiphenyl	0	D	%	37 - 102

Troy McFate
Bodine Environmental Services
5350 East Firehouse Road
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Job Number: 500-28530-1

Client Sample ID: MW-5S DUP
Lab Sample ID: 500-28530-6

Date Sampled: 10/12/2010 1349
Date Received: 10/14/2010 1030
Client Matrix: Water

Analyte	Result/Qualifier		Unit	MDL	RL	Dilution
Surrogate					Acceptance Limits	
2,4,6-Tribromophenol	0	D	%		41 - 134	
Terphenyl-d14	0	D	%		47 - 120	
Method: 8270C Run Type: DL2			Date Analyzed:		10/28/2010 1423	
Prep Method: 3510C			Date Prepared:		10/15/2010 2013	
2,4-Dimethylphenol	13000		ug/L	1500	9400	1000
Naphthalene	36000		ug/L	130	940	1000
Surrogate					Acceptance Limits	
2-Fluorophenol	0	D	%		20 - 100	
Phenol-d5	0	D	%		20 - 100	
Nitrobenzene-d5	0	D	%		38 - 109	
2-Fluorobiphenyl	0	D	%		37 - 102	
2,4,6-Tribromophenol	0	D	%		41 - 134	
Terphenyl-d14	0	D	%		47 - 120	
Method: 8151A			Date Analyzed:		10/27/2010 0533	
Prep Method: 8151A			Date Prepared:		10/18/2010 1115	
Pentachlorophenol	1200		ug/L	79	480	1000
Surrogate					Acceptance Limits	
DCAA	0	D	%		31 - 110	

Troy McFate
Bodine Environmental Services
5350 East Firehouse Road
Decatur, IL 62521-9601

Job Number: 500-28530-1

Client Sample ID: MW-20
Lab Sample ID: 500-28530-7

Date Sampled: 10/13/2010 1121
Date Received: 10/14/2010 1030
Client Matrix: Water

Analyte	Result/Qualifier		Unit	MDL	RL	Dilution
Method: 8270C			Date Analyzed:		10/27/2010 2056	
Prep Method: 3510C			Date Prepared:		10/15/2010 2013	
Phenol	<4.7		ug/L	0.72	4.7	1.0
Bis(2-chloroethyl)ether	<1.9		ug/L	0.42	1.9	1.0
1,3-Dichlorobenzene	<1.9		ug/L	0.20	1.9	1.0
1,4-Dichlorobenzene	<1.9		ug/L	0.22	1.9	1.0
1,2-Dichlorobenzene	<1.9		ug/L	0.23	1.9	1.0
Benzyl alcohol	<19		ug/L	4.6	19	1.0
2-Methylphenol	0.77	J	ug/L	0.23	1.9	1.0
2,2'-oxybis[1-chloropropane]	<1.9		ug/L	0.24	1.9	1.0
N-Nitrosodi-n-propylamine	<0.47		ug/L	0.14	0.47	1.0
Hexachloroethane	<4.7		ug/L	1.1	4.7	1.0
2-Chlorophenol	<4.7		ug/L	1.0	4.7	1.0
Nitrobenzene	<0.93		ug/L	0.35	0.93	1.0
Bis(2-chloroethoxy)methane	<1.9		ug/L	0.24	1.9	1.0
1,2,4-Trichlorobenzene	<1.9		ug/L	0.24	1.9	1.0
Benzoic acid	<19		ug/L	4.4	19	1.0
Isophorone	<1.9		ug/L	0.24	1.9	1.0
2,4-Dimethylphenol	2.3	J	ug/L	1.5	9.3	1.0
Hexachlorobutadiene	<4.7		ug/L	1.4	4.7	1.0
Naphthalene	23		ug/L	0.13	0.93	1.0
2,4-Dichlorophenol	<9.3		ug/L	0.93	9.3	1.0
4-Chloroaniline	<9.3		ug/L	1.2	9.3	1.0
2,4,6-Trichlorophenol	<4.7		ug/L	1.0	4.7	1.0
2,4,5-Trichlorophenol	<9.3		ug/L	1.7	9.3	1.0
Hexachlorocyclopentadiene	<19		ug/L	5.1	19	1.0
2-Methylnaphthalene	0.37	J	ug/L	0.14	0.47	1.0
2-Nitroaniline	<4.7		ug/L	1.3	4.7	1.0
2-Chloronaphthalene	<1.9		ug/L	0.21	1.9	1.0
4-Chloro-3-methylphenol	<9.3		ug/L	1.3	9.3	1.0
2,6-Dinitrotoluene	<0.47		ug/L	0.12	0.47	1.0
2-Nitrophenol	<9.3		ug/L	1.3	9.3	1.0
3-Nitroaniline	<9.3		ug/L	1.8	9.3	1.0
Dimethyl phthalate	<1.9		ug/L	0.69	1.9	1.0
2,4-Dinitrophenol	<19		ug/L	7.3	19	1.0
Acenaphthylene	0.17	J	ug/L	0.093	0.93	1.0
2,4-Dinitrotoluene	<0.93		ug/L	0.26	0.93	1.0
Acenaphthene	4.7		ug/L	0.085	0.93	1.0
Dibenzofuran	2.8		ug/L	0.26	1.9	1.0
4-Nitrophenol	<19		ug/L	3.5	19	1.0
Fluorene	2.2		ug/L	0.11	0.93	1.0

Troy McFate
Bodine Environmental Services
5350 East Firehouse Road
Decatur, IL 62521-9601

Job Number: 500-28530-1

Client Sample ID: MW-20
Lab Sample ID: 500-28530-7

Date Sampled: 10/13/2010 1121
Date Received: 10/14/2010 1030
Client Matrix: Water

Analyte	Result/Qualifier		Unit	MDL	RL	Dilution
4-Nitroaniline	<9.3		ug/L	1.9	9.3	1.0
4-Bromophenyl phenyl ether	<4.7		ug/L	1.3	4.7	1.0
Hexachlorobenzene	<0.47		ug/L	0.088	0.47	1.0
Diethyl phthalate	<1.9		ug/L	0.29	1.9	1.0
4-Chlorophenyl phenyl ether	<4.7		ug/L	1.2	4.7	1.0
N-Nitrosodiphenylamine	<0.93		ug/L	0.23	0.93	1.0
4,6-Dinitro-2-methylphenol	<19		ug/L	4.7	19	1.0
Phenanthrene	5.6		ug/L	0.073	0.93	1.0
Anthracene	0.80	J	ug/L	0.11	0.93	1.0
Carbazole	4.9		ug/L	1.2	4.7	1.0
Di-n-butyl phthalate	<4.7		ug/L	1.1	4.7	1.0
Benzidine	<37	*	ug/L	3.8	37	1.0
Fluoranthene	3.2		ug/L	0.093	0.93	1.0
Pyrene	2.1		ug/L	0.089	0.93	1.0
Butyl benzyl phthalate	<1.9		ug/L	0.28	1.9	1.0
Benzo[a]anthracene	0.32		ug/L	0.050	0.19	1.0
Chrysene	0.23	J	ug/L	0.10	0.47	1.0
3,3'-Dichlorobenzidine	<4.7		ug/L	1.2	4.7	1.0
Bis(2-ethylhexyl) phthalate	2.7	J	ug/L	1.1	9.3	1.0
Di-n-octyl phthalate	<9.3		ug/L	1.5	9.3	1.0
Benzo[b]fluoranthene	0.14	J	ug/L	0.064	0.19	1.0
Benzo[k]fluoranthene	<0.19		ug/L	0.087	0.19	1.0
Benzo[a]pyrene	0.12	J	ug/L	0.042	0.19	1.0
Indeno[1,2,3-cd]pyrene	0.074	J	ug/L	0.062	0.19	1.0
Dibenz(a,h)anthracene	<0.28		ug/L	0.11	0.28	1.0
Benzo[g,h,i]perylene	<0.93		ug/L	0.10	0.93	1.0
3 & 4 Methylphenol	1.0	J	ug/L	0.23	1.9	1.0

Surrogate			Acceptance Limits
2-Fluorophenol	32	%	20 - 100
Phenol-d5	22	%	20 - 100
Nitrobenzene-d5	69	%	38 - 109
2-Fluorobiphenyl	59	%	37 - 102
2,4,6-Tribromophenol	76	%	41 - 134
Terphenyl-d14	89	%	47 - 120

Method: 8151A Date Analyzed: 10/27/2010 0616
Prep Method: 8151A Date Prepared: 10/18/2010 1115

Pentachlorophenol	0.17	J	ug/L	0.077	0.47	1.0

Surrogate			Acceptance Limits
DCAA	57	%	31 - 110

Troy McFate
Bodine Environmental Services
5350 East Firehouse Road
Decatur, IL 62521-9601

Job Number: 500-28530-1

Client Sample ID: MW-22
Lab Sample ID: 500-28530-8

Date Sampled: 10/13/2010 1155
Date Received: 10/14/2010 1030
Client Matrix: Water

Analyte	Result/Qualifier	Unit	MDL	RL	Dilution
Method: 8270C		Date Analyzed:	10/27/2010 2334		
Prep Method: 3510C		Date Prepared:	10/15/2010 2013		
Phenol	140	ug/L	7.2	47	10
Bis(2-chloroethyl)ether	<19	ug/L	4.2	19	10
1,3-Dichlorobenzene	<19	ug/L	2.0	19	10
1,4-Dichlorobenzene	<19	ug/L	2.2	19	10
1,2-Dichlorobenzene	<19	ug/L	2.3	19	10
Benzyl alcohol	<190	ug/L	46	190	10
2,2'-oxybis[1-chloropropane]	<19	ug/L	2.4	19	10
N-Nitrosodi-n-propylamine	<4.7	ug/L	1.4	4.7	10
Hexachloroethane	<47	ug/L	11	47	10
2-Chlorophenol	<47	ug/L	10	47	10
Nitrobenzene	<9.3	ug/L	3.5	9.3	10
Bis(2-chloroethoxy)methane	<19	ug/L	2.4	19	10
1,2,4-Trichlorobenzene	<19	ug/L	2.4	19	10
Benzoic acid	<190	ug/L	44	190	10
Isophorone	<19	ug/L	2.4	19	10
Hexachlorobutadiene	<47	ug/L	14	47	10
2,4-Dichlorophenol	<93	ug/L	9.3	93	10
4-Chloroaniline	<93	ug/L	12	93	10
2,4,6-Trichlorophenol	<47	ug/L	10	47	10
2,4,5-Trichlorophenol	<93	ug/L	17	93	10
Hexachlorocyclopentadiene	<190	ug/L	51	190	10
2-Methylnaphthalene	480	ug/L	1.4	4.7	10
2-Nitroaniline	<47	ug/L	13	47	10
2-Chloronaphthalene	<19	ug/L	2.1	19	10
4-Chloro-3-methylphenol	<93	ug/L	13	93	10
2,6-Dinitrotoluene	<4.7	ug/L	1.2	4.7	10
2-Nitrophenol	<93	ug/L	13	93	10
3-Nitroaniline	<93	ug/L	18	93	10
Dimethyl phthalate	<19	ug/L	6.9	19	10
2,4-Dinitrophenol	<190	ug/L	73	190	10
Acenaphthylene	50	ug/L	0.93	9.3	10
2,4-Dinitrotoluene	<9.3	ug/L	2.6	9.3	10
Acenaphthene	340	ug/L	0.85	9.3	10
Dibenzofuran	220	ug/L	2.6	19	10
4-Nitrophenol	<190	ug/L	35	190	10
Fluorene	200	ug/L	1.1	9.3	10
4-Nitroaniline	<93	ug/L	19	93	10
4-Bromophenyl phenyl ether	<47	ug/L	13	47	10
Hexachlorobenzene	<4.7	ug/L	0.88	4.7	10

Troy McFate
Bodine Environmental Services
5350 East Firehouse Road
Decatur, IL 62521-9601

Job Number: 500-28530-1

Client Sample ID: MW-22
Lab Sample ID: 500-28530-8

Date Sampled: 10/13/2010 1155
Date Received: 10/14/2010 1030
Client Matrix: Water

Analyte	Result/Qualifier		Unit	MDL	RL	Dilution
Diethyl phthalate	<19		ug/L	2.9	19	10
4-Chlorophenyl phenyl ether	<47		ug/L	12	47	10
N-Nitrosodiphenylamine	<9.3		ug/L	2.3	9.3	10
4,6-Dinitro-2-methylphenol	<190		ug/L	47	190	10
Phenanthrene	190		ug/L	0.73	9.3	10
Anthracene	32		ug/L	1.1	9.3	10
Di-n-butyl phthalate	<47		ug/L	11	47	10
Benzidine	<370	*	ug/L	38	370	10
Fluoranthene	32		ug/L	0.93	9.3	10
Pyrene	22		ug/L	0.89	9.3	10
Butyl benzyl phthalate	<19		ug/L	2.8	19	10
Benzo[a]anthracene	<1.9		ug/L	0.50	1.9	10
Chrysene	1.9	J	ug/L	1.0	4.7	10
3,3'-Dichlorobenzidine	<47		ug/L	12	47	10
Bis(2-ethylhexyl) phthalate	<93		ug/L	11	93	10
Di-n-octyl phthalate	<93		ug/L	15	93	10
Benzo[b]fluoranthene	<1.9		ug/L	0.64	1.9	10
Benzo[k]fluoranthene	<1.9		ug/L	0.87	1.9	10
Benzo[a]pyrene	<1.9		ug/L	0.42	1.9	10
Indeno[1,2,3-cd]pyrene	<1.9		ug/L	0.62	1.9	10
Dibenz(a,h)anthracene	<2.8		ug/L	1.1	2.8	10
Benzo[g,h,i]perylene	<9.3		ug/L	1.0	9.3	10

Surrogate			Acceptance Limits
2-Fluorophenol	39	%	20 - 100
Phenol-d5	28	%	20 - 100
Nitrobenzene-d5	91	%	38 - 109
2-Fluorobiphenyl	72	%	37 - 102
2,4,6-Tribromophenol	79	%	41 - 134
Terphenyl-d14	80	%	47 - 120

Method: 8270C Run Type: DL
Prep Method: 3510C

Date Analyzed: 10/27/2010 2357
Date Prepared: 10/15/2010 2013

2-Methylphenol	2000		ug/L	23	190	100
Carbazole	1100		ug/L	120	470	100
3 & 4 Methylphenol	3900		ug/L	23	190	100

Surrogate				Acceptance Limits
2-Fluorophenol	0	D	%	20 - 100
Phenol-d5	0	D	%	20 - 100
Nitrobenzene-d5	0	D	%	38 - 109
2-Fluorobiphenyl	0	D	%	37 - 102

Troy McFate
Bodine Environmental Services
5350 East Firehouse Road
Decatur, IL 62521-9601

Job Number: 500-28530-1

Client Sample ID: MW-22
Lab Sample ID: 500-28530-8

Date Sampled: 10/13/2010 1155
Date Received: 10/14/2010 1030
Client Matrix: Water

Analyte	Result/Qualifier		Unit	MDL	RL	Dilution
Surrogate					Acceptance Limits	
2,4,6-Tribromophenol	0	D	%		41 - 134	
Terphenyl-d14	0	D	%		47 - 120	
Method: 8270C Run Type: DL2			Date Analyzed:		10/28/2010 1445	
Prep Method: 3510C			Date Prepared:		10/15/2010 2013	
2,4-Dimethylphenol	9000		ug/L	750	4700	500
Naphthalene	17000		ug/L	65	470	500
Surrogate					Acceptance Limits	
2-Fluorophenol	0	D	%		20 - 100	
Phenol-d5	0	D	%		20 - 100	
Nitrobenzene-d5	0	D	%		38 - 109	
2-Fluorobiphenyl	0	D	%		37 - 102	
2,4,6-Tribromophenol	0	D	%		41 - 134	
Terphenyl-d14	0	D	%		47 - 120	
Method: 8151A			Date Analyzed:		10/27/2010 0638	
Prep Method: 8151A			Date Prepared:		10/18/2010 1115	
Pentachlorophenol	1200		ug/L	80	490	1000
Surrogate					Acceptance Limits	
DCAA	0	D	%		31 - 110	

Troy McFate
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5350 East Firehouse Road
Decatur, IL 62521-9601

Job Number: 500-28530-1

Client Sample ID: MW-23
Lab Sample ID: 500-28530-9

Date Sampled: 10/13/2010 1225
Date Received: 10/14/2010 1030
Client Matrix: Water

Analyte	Result/Qualifier	Unit	MDL	RL	Dilution
Method: 8270C		Date Analyzed:	10/28/2010 0019		
Prep Method: 3510C		Date Prepared:	10/15/2010 2013		
Phenol	390	ug/L	7.2	47	10
Bis(2-chloroethyl)ether	<19	ug/L	4.2	19	10
1,3-Dichlorobenzene	<19	ug/L	2.0	19	10
1,4-Dichlorobenzene	<19	ug/L	2.2	19	10
1,2-Dichlorobenzene	<19	ug/L	2.3	19	10
Benzyl alcohol	<190	ug/L	46	190	10
2,2'-oxybis[1-chloropropane]	<19	ug/L	2.4	19	10
N-Nitrosodi-n-propylamine	<4.7	ug/L	1.4	4.7	10
Hexachloroethane	<47	ug/L	11	47	10
2-Chlorophenol	<47	ug/L	10	47	10
Nitrobenzene	<9.3	ug/L	3.5	9.3	10
Bis(2-chloroethoxy)methane	<19	ug/L	2.4	19	10
1,2,4-Trichlorobenzene	<19	ug/L	2.4	19	10
Benzoic acid	<190	ug/L	44	190	10
Isophorone	<19	ug/L	2.4	19	10
Hexachlorobutadiene	<47	ug/L	14	47	10
2,4-Dichlorophenol	<93	ug/L	9.3	93	10
4-Chloroaniline	<93	ug/L	12	93	10
2,4,6-Trichlorophenol	<47	ug/L	10	47	10
2,4,5-Trichlorophenol	<93	ug/L	17	93	10
Hexachlorocyclopentadiene	<190	ug/L	51	190	10
2-Methylnaphthalene	<4.7	ug/L	1.4	4.7	10
2-Nitroaniline	<47	ug/L	13	47	10
2-Chloronaphthalene	<19	ug/L	2.1	19	10
4-Chloro-3-methylphenol	<93	ug/L	13	93	10
2,6-Dinitrotoluene	<4.7	ug/L	1.2	4.7	10
2-Nitrophenol	<93	ug/L	13	93	10
3-Nitroaniline	<93	ug/L	18	93	10
Dimethyl phthalate	<19	ug/L	6.9	19	10
2,4-Dinitrophenol	<190	ug/L	73	190	10
Acenaphthylene	42	ug/L	0.93	9.3	10
2,4-Dinitrotoluene	<9.3	ug/L	2.6	9.3	10
Acenaphthene	480	ug/L	0.85	9.3	10
Dibenzofuran	330	ug/L	2.6	19	10
4-Nitrophenol	<190	ug/L	35	190	10
Fluorene	280	ug/L	1.1	9.3	10
4-Nitroaniline	<93	ug/L	19	93	10
4-Bromophenyl phenyl ether	<47	ug/L	13	47	10
Hexachlorobenzene	<4.7	ug/L	0.88	4.7	10

Troy McFate
Bodine Environmental Services
5350 East Firehouse Road
Decatur, IL 62521-9601

Job Number: 500-28530-1

Client Sample ID: MW-23
Lab Sample ID: 500-28530-9

Date Sampled: 10/13/2010 1225
Date Received: 10/14/2010 1030
Client Matrix: Water

Analyte	Result/Qualifier		Unit	MDL	RL	Dilution
Diethyl phthalate	<19		ug/L	2.9	19	10
4-Chlorophenyl phenyl ether	<47		ug/L	12	47	10
N-Nitrosodiphenylamine	<9.3		ug/L	2.3	9.3	10
4,6-Dinitro-2-methylphenol	<190		ug/L	47	190	10
Phenanthrene	270		ug/L	0.73	9.3	10
Anthracene	49		ug/L	1.1	9.3	10
Di-n-butyl phthalate	<47		ug/L	11	47	10
Benzidine	<370	*	ug/L	38	370	10
Fluoranthene	39		ug/L	0.93	9.3	10
Pyrene	25		ug/L	0.89	9.3	10
Butyl benzyl phthalate	<19		ug/L	2.8	19	10
Benzo[a]anthracene	2.4		ug/L	0.50	1.9	10
Chrysene	2.3	J	ug/L	1.0	4.7	10
3,3'-Dichlorobenzidine	<47		ug/L	12	47	10
Bis(2-ethylhexyl) phthalate	<93		ug/L	11	93	10
Di-n-octyl phthalate	<93		ug/L	15	93	10
Benzo[b]fluoranthene	1.1	J	ug/L	0.64	1.9	10
Benzo[k]fluoranthene	<1.9		ug/L	0.87	1.9	10
Benzo[a]pyrene	<1.9		ug/L	0.42	1.9	10
Indeno[1,2,3-cd]pyrene	<1.9		ug/L	0.62	1.9	10
Dibenz(a,h)anthracene	<2.8		ug/L	1.1	2.8	10
Benzo[g,h,i]perylene	<9.3		ug/L	1.0	9.3	10

Surrogate				Acceptance Limits
2-Fluorophenol	54		%	20 - 100
Phenol-d5	40		%	20 - 100
Nitrobenzene-d5	172	X	%	38 - 109
2-Fluorobiphenyl	95		%	37 - 102
2,4,6-Tribromophenol	115		%	41 - 134
Terphenyl-d14	91		%	47 - 120

Method: 8270C Run Type: DL
Prep Method: 3510C

Date Analyzed: 10/28/2010 0042
Date Prepared: 10/15/2010 2013

2-Methylphenol	1600		ug/L	23	190	100
2,4-Dimethylphenol	3800		ug/L	150	930	100
Carbazole	1900		ug/L	120	470	100
3 & 4 Methylphenol	4800		ug/L	23	190	100

Surrogate				Acceptance Limits
2-Fluorophenol	0	D	%	20 - 100
Phenol-d5	0	D	%	20 - 100
Nitrobenzene-d5	0	D	%	38 - 109

Troy McFate
Bodine Environmental Services
5350 East Firehouse Road
Decatur, IL 62521-9601

Job Number: 500-28530-1

Client Sample ID: MW-23
Lab Sample ID: 500-28530-9

Date Sampled: 10/13/2010 1225
Date Received: 10/14/2010 1030
Client Matrix: Water

Analyte	Result/Qualifier		Unit	MDL	RL	Dilution
Surrogate					Acceptance Limits	
2-Fluorobiphenyl	0	D	%		37 - 102	
2,4,6-Tribromophenol	0	D	%		41 - 134	
Terphenyl-d14	0	D	%		47 - 120	
Method: 8270C Run Type: DL2			Date Analyzed:		10/28/2010 1507	
Prep Method: 3510C			Date Prepared:		10/15/2010 2013	
Naphthalene	29000		ug/L	65	470	500
Surrogate					Acceptance Limits	
2-Fluorophenol	0	D	%		20 - 100	
Phenol-d5	0	D	%		20 - 100	
Nitrobenzene-d5	0	D	%		38 - 109	
2-Fluorobiphenyl	0	D	%		37 - 102	
2,4,6-Tribromophenol	0	D	%		41 - 134	
Terphenyl-d14	0	D	%		47 - 120	
Method: 8151A			Date Analyzed:		10/27/2010 0700	
Prep Method: 8151A			Date Prepared:		10/18/2010 1115	
Pentachlorophenol	1900		ug/L	77	470	1000
Surrogate					Acceptance Limits	
DCAA	0	D	%		31 - 110	

DATA REPORTING QUALIFIERS

Client: Bodine Environmental Services

Job Number: 500-28530-1

Lab Section	Qualifier	Description
GC/MS Semi VOA		
	*	LCS or LCSD exceeds the control limits
	J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.
	*	RPD of the LCS and LCSD exceeds the control limits
	D	Sample results are obtained from a dilution; the surrogate or matrix spike recoveries reported are calculated from diluted samples.
	X	Surrogate is outside control limits
GC Semi VOA		
	J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.
	D	Surrogate or matrix spike recoveries were not obtained because the extract was diluted for analysis; also compounds analyzed at a dilution may be flagged with a D.

QUALITY CONTROL RESULTS

Client: Bodine Environmental Services

Job Number: 500-28530-1

QC Association Summary

Lab Sample ID	Client Sample ID	Report Basis	Client Matrix	Method	Prep Batch
GC/MS Semi VOA					
Prep Batch: 500-97259					
LCS 500-97259/2-A	Lab Control Sample	T	Water	3510C	
LCSD 500-97259/3-A	Lab Control Sample Duplicate	T	Water	3510C	
MB 500-97259/1-A	Method Blank	T	Water	3510C	
500-28530-1	MW-18S	T	Water	3510C	
500-28530-2	MW-8S	T	Water	3510C	
500-28530-3	MW-8M	T	Water	3510C	
500-28530-4	MW-8D	T	Water	3510C	
500-28530-5	MW-5S	T	Water	3510C	
500-28530-5DL	MW-5S	T	Water	3510C	
500-28530-5DL2	MW-5S	T	Water	3510C	
500-28530-6	MW-5S DUP	T	Water	3510C	
500-28530-6DL	MW-5S DUP	T	Water	3510C	
500-28530-6DL2	MW-5S DUP	T	Water	3510C	
500-28530-7	MW-20	T	Water	3510C	
500-28530-8	MW-22	T	Water	3510C	
500-28530-8DL	MW-22	T	Water	3510C	
500-28530-8DL2	MW-22	T	Water	3510C	
500-28530-9	MW-23	T	Water	3510C	
500-28530-9DL	MW-23	T	Water	3510C	
500-28530-9DL2	MW-23	T	Water	3510C	
Analysis Batch:500-98228					
LCS 500-97259/2-A	Lab Control Sample	T	Water	8270C	500-97259
LCSD 500-97259/3-A	Lab Control Sample Duplicate	T	Water	8270C	500-97259
MB 500-97259/1-A	Method Blank	T	Water	8270C	500-97259
500-28530-1	MW-18S	T	Water	8270C	500-97259
500-28530-2	MW-8S	T	Water	8270C	500-97259
500-28530-3	MW-8M	T	Water	8270C	500-97259
500-28530-4	MW-8D	T	Water	8270C	500-97259
500-28530-5	MW-5S	T	Water	8270C	500-97259
500-28530-5DL	MW-5S	T	Water	8270C	500-97259
500-28530-6	MW-5S DUP	T	Water	8270C	500-97259
500-28530-6DL	MW-5S DUP	T	Water	8270C	500-97259
500-28530-7	MW-20	T	Water	8270C	500-97259
500-28530-8	MW-22	T	Water	8270C	500-97259
500-28530-8DL	MW-22	T	Water	8270C	500-97259
500-28530-9	MW-23	T	Water	8270C	500-97259
500-28530-9DL	MW-23	T	Water	8270C	500-97259
Analysis Batch:500-98349					
500-28530-5DL2	MW-5S	T	Water	8270C	500-97259
500-28530-6DL2	MW-5S DUP	T	Water	8270C	500-97259
500-28530-8DL2	MW-22	T	Water	8270C	500-97259
500-28530-9DL2	MW-23	T	Water	8270C	500-97259

Client: Bodine Environmental Services

Job Number: 500-28530-1

QC Association Summary

Lab Sample ID	Client Sample ID	Report Basis	Client Matrix	Method	Prep Batch
Report Basis					
T = Total					
GC Semi VOA					
Prep Batch: 500-97350					
LCS 500-97350/2-A	Lab Control Sample	T	Water	8151A	
LCSD 500-97350/3-A	Lab Control Sample Duplicate	T	Water	8151A	
MB 500-97350/1-A	Method Blank	T	Water	8151A	
500-28530-1	MW-18S	T	Water	8151A	
500-28530-2	MW-8S	T	Water	8151A	
500-28530-3	MW-8M	T	Water	8151A	
500-28530-4	MW-8D	T	Water	8151A	
500-28530-5	MW-5S	T	Water	8151A	
500-28530-6	MW-5S DUP	T	Water	8151A	
500-28530-7	MW-20	T	Water	8151A	
500-28530-8	MW-22	T	Water	8151A	
500-28530-9	MW-23	T	Water	8151A	
Analysis Batch:500-98241					
LCS 500-97350/2-A	Lab Control Sample	T	Water	8151A	500-97350
LCSD 500-97350/3-A	Lab Control Sample Duplicate	T	Water	8151A	500-97350
MB 500-97350/1-A	Method Blank	T	Water	8151A	500-97350
500-28530-1	MW-18S	T	Water	8151A	500-97350
500-28530-2	MW-8S	T	Water	8151A	500-97350
500-28530-3	MW-8M	T	Water	8151A	500-97350
500-28530-4	MW-8D	T	Water	8151A	500-97350
500-28530-5	MW-5S	T	Water	8151A	500-97350
500-28530-6	MW-5S DUP	T	Water	8151A	500-97350
500-28530-7	MW-20	T	Water	8151A	500-97350
500-28530-8	MW-22	T	Water	8151A	500-97350
500-28530-9	MW-23	T	Water	8151A	500-97350

Report Basis
T = Total

Client: Bodine Environmental Services

Job Number: 500-28530-1

Surrogate Recovery Report

8270C Semivolatile Compounds by Gas Chromatography/Mass Spectrometry (GC/MS)

Client Matrix: Water

Lab Sample ID	Client Sample ID	2FP %Rec	PHL %Rec	NBZ %Rec	FBP %Rec	TBP %Rec	TPH %Rec
500-28530-1	MW-18S	30	20	64	57	74	85
500-28530-2	MW-8S	30	27	32X	74	70	76
500-28530-3	MW-8M	33	22	69	58	74	94
500-28530-4	MW-8D	32	21	66	58	60	88
500-28530-5	MW-5S	59	41	353X	103X	122	128X
500-28530-5 DL	MW-5S DL	0D	0D	0D	0D	0D	0D
500-28530-5 DL2	MW-5S DL2	0D	0D	0D	0D	0D	0D
500-28530-6	MW-5S DUP	57	41	277X	101	119	123X
500-28530-6 DL	MW-5S DUP DL	0D	0D	0D	0D	0D	0D
500-28530-6 DL2	MW-5S DUP DL2	0D	0D	0D	0D	0D	0D
500-28530-7	MW-20	32	22	69	59	76	89
500-28530-8	MW-22	39	28	91	72	79	80
500-28530-8 DL	MW-22 DL	0D	0D	0D	0D	0D	0D
500-28530-8 DL2	MW-22 DL2	0D	0D	0D	0D	0D	0D
500-28530-9	MW-23	54	40	172X	95	115	91
500-28530-9 DL	MW-23 DL	0D	0D	0D	0D	0D	0D
500-28530-9 DL2	MW-23 DL2	0D	0D	0D	0D	0D	0D
MB 500-97259/1-A		43	30	85	72	77	100
LCS 500-97259/2-A		43	31	88	80	84	97
LCSD 500-97259/3-A		40	29	82	74	88	90

Surrogate	Acceptance Limits
2FP = 2-Fluorophenol	20-100
PHL = Phenol-d5	20-100
NBZ = Nitrobenzene-d5	38-109
FBP = 2-Fluorobiphenyl	37-102
TBP = 2,4,6-Tribromophenol	41-134
TPH = Terphenyl-d14	47-120

Client: Bodine Environmental Services

Job Number: 500-28530-1

Surrogate Recovery Report

8151A Herbicides (GC)

Client Matrix: Water

Lab Sample ID	Client Sample ID	DCPA2 %Rec
500-28530-1	MW-18S	58
500-28530-2	MW-8S	0D
500-28530-3	MW-8M	71
500-28530-4	MW-8D	55
500-28530-5	MW-5S	0D
500-28530-6	MW-5S DUP	0D
500-28530-7	MW-20	57
500-28530-8	MW-22	0D
500-28530-9	MW-23	0D
MB 500-97350/1-A		42
LCS 500-97350/2-A		43
LCSD 500-97350/3-A		44

Surrogate	Acceptance Limits
DCPA = DCAA	31-110

Client: Bodine Environmental Services

Job Number: 500-28530-1

Method Blank - Batch: 500-97259

Method: 8270C
Preparation: 3510C

Lab Sample ID: MB 500-97259/1-A
Client Matrix: Water
Dilution: 1.0
Date Analyzed: 10/27/2010 1733
Date Prepared: 10/15/2010 2013

Analysis Batch: 500-98228
Prep Batch: 500-97259
Units: ug/L

Instrument ID: CMS20
Lab File ID: 97259M.D
Initial Weight/Volume: 1000 mL
Final Weight/Volume: 1.0 mL
Injection Volume: 1 uL

Analyte	Result	Qual	MDL	RL
Phenol	<5.0		0.77	5.0
Bis(2-chloroethyl)ether	<2.0		0.45	2.0
1,3-Dichlorobenzene	<2.0		0.21	2.0
1,4-Dichlorobenzene	<2.0		0.24	2.0
1,2-Dichlorobenzene	<2.0		0.25	2.0
Benzyl alcohol	<20		4.9	20
2-Methylphenol	<2.0		0.25	2.0
2,2'-oxybis[1-chloropropane]	<2.0		0.26	2.0
N-Nitrosodi-n-propylamine	<0.50		0.15	0.50
Hexachloroethane	<5.0		1.2	5.0
2-Chlorophenol	<5.0		1.1	5.0
Nitrobenzene	<1.0		0.37	1.0
Bis(2-chloroethoxy)methane	<2.0		0.26	2.0
1,2,4-Trichlorobenzene	<2.0		0.26	2.0
Benzoic acid	<20		4.7	20
Isophorone	<2.0		0.26	2.0
2,4-Dimethylphenol	<10		1.6	10
Hexachlorobutadiene	<5.0		1.5	5.0
Naphthalene	<1.0		0.14	1.0
2,4-Dichlorophenol	<10		1.0	10
4-Chloroaniline	<10		1.3	10
2,4,6-Trichlorophenol	<5.0		1.1	5.0
2,4,5-Trichlorophenol	<10		1.8	10
Hexachlorocyclopentadiene	<20		5.5	20
2-Methylnaphthalene	<0.50		0.15	0.50
2-Nitroaniline	<5.0		1.4	5.0
2-Chloronaphthalene	<2.0		0.22	2.0
4-Chloro-3-methylphenol	<10		1.4	10
2,6-Dinitrotoluene	<0.50		0.13	0.50
2-Nitrophenol	<10		1.4	10
3-Nitroaniline	<10		1.9	10
Dimethyl phthalate	<2.0		0.74	2.0
2,4-Dinitrophenol	<20		7.8	20
Acenaphthylene	<1.0		0.10	1.0
2,4-Dinitrotoluene	<1.0		0.28	1.0
Acenaphthene	<1.0		0.091	1.0
Dibenzofuran	<2.0		0.28	2.0
4-Nitrophenol	<20		3.7	20
Fluorene	<1.0		0.12	1.0
4-Nitroaniline	<10		2.0	10
4-Bromophenyl phenyl ether	<5.0		1.4	5.0
Hexachlorobenzene	<0.50		0.094	0.50
Diethyl phthalate	<2.0		0.31	2.0

Client: Bodine Environmental Services

Job Number: 500-28530-1

Method Blank - Batch: 500-97259

Method: 8270C
Preparation: 3510C

Lab Sample ID: MB 500-97259/1-A
Client Matrix: Water
Dilution: 1.0
Date Analyzed: 10/27/2010 1733
Date Prepared: 10/15/2010 2013

Analysis Batch: 500-98228
Prep Batch: 500-97259
Units: ug/L

Instrument ID: CMS20
Lab File ID: 97259M.D
Initial Weight/Volume: 1000 mL
Final Weight/Volume: 1.0 mL
Injection Volume: 1 uL

Analyte	Result	Qual	MDL	RL
4-Chlorophenyl phenyl ether	<5.0		1.3	5.0
N-Nitrosodiphenylamine	<1.0		0.25	1.0
4,6-Dinitro-2-methylphenol	<20		5.0	20
Phenanthrene	<1.0		0.078	1.0
Anthracene	<1.0		0.12	1.0
Carbazole	<5.0		1.3	5.0
Di-n-butyl phthalate	<5.0		1.2	5.0
Benzidine	<40		4.1	40
Fluoranthene	<1.0		0.10	1.0
Pyrene	<1.0		0.095	1.0
Butyl benzyl phthalate	<2.0		0.30	2.0
Benzo[a]anthracene	<0.20		0.054	0.20
Chrysene	<0.50		0.11	0.50
3,3'-Dichlorobenzidine	<5.0		1.3	5.0
Bis(2-ethylhexyl) phthalate	<10		1.2	10
Di-n-octyl phthalate	<10		1.6	10
Benzo[b]fluoranthene	<0.20		0.069	0.20
Benzo[k]fluoranthene	<0.20		0.093	0.20
Benzo[a]pyrene	<0.20		0.045	0.20
Indeno[1,2,3-cd]pyrene	<0.20		0.066	0.20
Dibenz(a,h)anthracene	<0.30		0.12	0.30
Benzo[g,h,i]perylene	<1.0		0.11	1.0
3 & 4 Methylphenol	<2.0		0.25	2.0

Surrogate	% Rec	Acceptance Limits
2-Fluorophenol	43	20 - 100
Phenol-d5	30	20 - 100
Nitrobenzene-d5	85	38 - 109
2-Fluorobiphenyl	72	37 - 102
2,4,6-Tribromophenol	77	41 - 134
Terphenyl-d14	100	47 - 120

Client: Bodine Environmental Services

Job Number: 500-28530-1

Lab Control Sample/
Lab Control Sample Duplicate Recovery Report - Batch: 500-97259

Method: 8270C
Preparation: 3510C

LCS Lab Sample ID: LCS 500-97259/2-A
Client Matrix: Water
Dilution: 1.0
Date Analyzed: 10/27/2010 1756
Date Prepared: 10/15/2010 2013

Analysis Batch: 500-98228
Prep Batch: 500-97259
Units: ug/L

Instrument ID: CMS20
Lab File ID: 97259BS.D
Initial Weight/Volume: 1000 mL
Final Weight/Volume: 1.0 mL
Injection Volume: 1 uL

LCSD Lab Sample ID: LCSD 500-97259/3-A
Client Matrix: Water
Dilution: 1.0
Date Analyzed: 10/27/2010 1818
Date Prepared: 10/15/2010 2013

Analysis Batch: 500-98228
Prep Batch: 500-97259
Units: ug/L

Instrument ID: CMS20
Lab File ID: 97259BD.D
Initial Weight/Volume: 1000 mL
Final Weight/Volume: 1.0 mL
Injection Volume: 1 uL

Analyte	% Rec. LCS	% Rec. LCSD	Limit	RPD	RPD Limit	LCS Qual	LCSD Qual
Phenol	42	39	21 - 100	8	20		
Bis(2-chloroethyl)ether	106	99	43 - 106	7	20		
1,3-Dichlorobenzene	56	52	33 - 100	7	20		
1,4-Dichlorobenzene	57	53	33 - 100	7	20		
1,2-Dichlorobenzene	61	56	35 - 100	8	20		
Benzyl alcohol	80	74	47 - 100	8	20		
2-Methylphenol	73	67	49 - 100	8	20		
2,2'-oxybis[1-chloropropane]	86	80	44 - 100	7	20		
N-Nitrosodi-n-propylamine	108	98	53 - 110	10	20		
Hexachloroethane	59	55	31 - 100	8	20		
2-Chlorophenol	75	72	58 - 100	5	20		
Nitrobenzene	88	83	56 - 100	6	20		
Bis(2-chloroethoxy)methane	89	82	61 - 100	8	20		
1,2,4-Trichlorobenzene	58	55	51 - 100	6	20		
Benzoic acid	23	24	10 - 100	4	20	J	J
Isophorone	90	82	60 - 100	9	20		
2,4-Dimethylphenol	71	67	44 - 103	5	20		
Hexachlorobutadiene	56	53	30 - 100	5	20		
Naphthalene	70	67	43 - 100	5	20		
2,4-Dichlorophenol	84	79	57 - 102	6	20		
4-Chloroaniline	92	85	54 - 100	7	20		
2,4,6-Trichlorophenol	83	79	54 - 103	5	20		
2,4,5-Trichlorophenol	90	88	54 - 110	3	20		
Hexachlorocyclopentadiene	49	47	18 - 100	3	20		
2-Methylnaphthalene	70	65	44 - 100	8	20		
2-Nitroaniline	104	102	71 - 113	2	20		
2-Chloronaphthalene	73	69	48 - 100	7	20		
4-Chloro-3-methylphenol	96	92	58 - 106	5	20		
2,6-Dinitrotoluene	99	98	60 - 111	1	20		
2-Nitrophenol	83	77	53 - 103	7	20		
3-Nitroaniline	90	92	49 - 116	2	20		
Dimethyl phthalate	95	94	57 - 108	2	20		
2,4-Dinitrophenol	81	89	40 - 124	10	20		

Client: Bodine Environmental Services

Job Number: 500-28530-1

Lab Control Sample/
Lab Control Sample Duplicate Recovery Report - Batch: 500-97259

Method: 8270C
Preparation: 3510C

LCS Lab Sample ID: LCS 500-97259/2-A
Client Matrix: Water
Dilution: 1.0
Date Analyzed: 10/27/2010 1756
Date Prepared: 10/15/2010 2013

Analysis Batch: 500-98228
Prep Batch: 500-97259
Units: ug/L

Instrument ID: CMS20
Lab File ID: 97259BS.D
Initial Weight/Volume: 1000 mL
Final Weight/Volume: 1.0 mL
Injection Volume: 1 uL

LCSD Lab Sample ID: LCSD 500-97259/3-A
Client Matrix: Water
Dilution: 1.0
Date Analyzed: 10/27/2010 1818
Date Prepared: 10/15/2010 2013

Analysis Batch: 500-98228
Prep Batch: 500-97259
Units: ug/L

Instrument ID: CMS20
Lab File ID: 97259BD.D
Initial Weight/Volume: 1000 mL
Final Weight/Volume: 1.0 mL
Injection Volume: 1 uL

Analyte	% Rec. LCS	% Rec. LCSD	Limit	RPD	RPD Limit	LCS Qual	LCSD Qual
Acenaphthylene	84	79	48 - 100	6	20		
2,4-Dinitrotoluene	100	101	56 - 119	2	20		
Acenaphthene	78	75	48 - 100	4	20		
Dibenzofuran	86	83	53 - 100	4	20		
4-Nitrophenol	56	57	22 - 100	2	20		
Fluorene	90	89	53 - 103	1	20		
4-Nitroaniline	93	97	48 - 122	4	20		
4-Bromophenyl phenyl ether	87	85	51 - 112	2	20		
Hexachlorobenzene	90	89	52 - 115	1	20		
Diethyl phthalate	103	101	59 - 110	2	20		
4-Chlorophenyl phenyl ether	84	83	51 - 102	1	20		
N-Nitrosodiphenylamine	99	99	46 - 118	1	20		
4,6-Dinitro-2-methylphenol	89	98	58 - 116	9	20		
Phenanthrene	94	99	52 - 112	5	20		
Anthracene	96	98	50 - 111	2	20		
Carbazole	96	97	58 - 112	1	20		
Di-n-butyl phthalate	108	106	57 - 118	2	20		
Benzidine	3	2	10 - 100	67	20	*	*
Fluoranthene	100	102	54 - 120	2	20		
Pyrene	105	94	61 - 130	11	20		
Butyl benzyl phthalate	112	106	72 - 129	5	20		
Benzo[a]anthracene	94	95	66 - 121	0	20		
Chrysene	98	93	61 - 127	5	20		
3,3'-Dichlorobenzidine	85	88	60 - 127	3	20		
Bis(2-ethylhexyl) phthalate	112	108	71 - 125	4	20		
Di-n-octyl phthalate	101	92	56 - 146	10	20		
Benzo[b]fluoranthene	84	94	60 - 143	12	20		
Benzo[k]fluoranthene	93	87	50 - 145	7	20		
Benzo[a]pyrene	88	90	61 - 137	2	20		
Indeno[1,2,3-cd]pyrene	93	94	60 - 151	1	20		
Dibenz(a,h)anthracene	94	95	60 - 146	1	20		
Benzo[g,h,i]perylene	88	86	57 - 152	2	20		
3 & 4 Methylphenol	77	72	47 - 100	6	20		

Client: Bodine Environmental Services

Job Number: 500-28530-1

Surrogate	LCS % Rec	LCSD % Rec	Acceptance Limits
2-Fluorophenol	43	40	20 - 100
Phenol-d5	31	29	20 - 100
Nitrobenzene-d5	88	82	38 - 109
2-Fluorobiphenyl	80	74	37 - 102
2,4,6-Tribromophenol	84	88	41 - 134
Terphenyl-d14	97	90	47 - 120

Client: Bodine Environmental Services

Job Number: 500-28530-1

Method Blank - Batch: 500-97350

Method: 8151A
Preparation: 8151A

Lab Sample ID: MB 500-97350/1-A
Client Matrix: Water
Dilution: 1.0
Date Analyzed: 10/27/2010 0155
Date Prepared: 10/18/2010 1115

Analysis Batch: 500-98241
Prep Batch: 500-97350
Units: ug/L

Instrument ID: INST41-42
Lab File ID: 10211042_132.d
Initial Weight/Volume: 1000 mL
Final Weight/Volume: 10.0 mL
Injection Volume: 1 uL
Column ID: PRIMARY

Analyte	Result	Qual	MDL	RL
Pentachlorophenol	<0.50		0.082	0.50

Surrogate	% Rec	Acceptance Limits
DCAA	42	31 - 110

Lab Control Sample/
Lab Control Sample Duplicate Recovery Report - Batch: 500-97350

Method: 8151A
Preparation: 8151A

LCS Lab Sample ID: LCS 500-97350/2-A
Client Matrix: Water
Dilution: 1.0
Date Analyzed: 10/27/2010 0217
Date Prepared: 10/18/2010 1115

Analysis Batch: 500-98241
Prep Batch: 500-97350
Units: ug/L

Instrument ID: INST41-42
Lab File ID: 10211042_133.d
Initial Weight/Volume: 1000 mL
Final Weight/Volume: 10.0 mL
Injection Volume: 1 uL
Column ID: PRIMARY

LCSD Lab Sample ID: LCSD 500-97350/3-A
Client Matrix: Water
Dilution: 1.0
Date Analyzed: 10/27/2010 0239
Date Prepared: 10/18/2010 1115

Analysis Batch: 500-98241
Prep Batch: 500-97350
Units: ug/L

Instrument ID: INST41-42
Lab File ID: 10211042_134.d
Initial Weight/Volume: 1000 mL
Final Weight/Volume: 10.0 mL
Injection Volume: 1 uL
Column ID: PRIMARY

Analyte	% Rec. LCS	% Rec. LCSD	Limit	RPD	RPD Limit	LCS Qual	LCSD Qual
Pentachlorophenol	77	76	45 - 107	1	20		

Surrogate	LCS % Rec	LCSD % Rec	Acceptance Limits
DCAA	43	44	31 - 110

TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING

2417 Bond Street, University Park, IL 60484
Phone: 708.534.5200 Fax: 708.534.5211

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Address:
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PO#/Reference#

Chain of Custody Record

Lab Job #: 500-28530

Chain of Custody Number:

Page 1 of 1

Temperature °C of Cooler:

Client: Boeing Environmental
Client Project #: 119386-11
Project Name: IEPA - Jennison Wright NPL Site
Project Location/State: Granite City, IL
Lab Project #: 500034418
Sampler: Brett Baker
Lab PM: Dick Wright

Preservative Key
1. HCL, Cool to 4°
2. H2SO4, Cool to 4°
3. HNO3, Cool to 4°
4. NaOH, Cool to 4°
5. NaOH/Zn, Cool to 4°
6. NaHSO4
7. Cool to 4°
8. None
9. Other

Lab ID	MS/MSD	Sample ID	Sampling Date	Sampling Time	# of Containers	Matrix	Preservative: 8 / Parameter: SVOCs-8270	Preservative: 8 / Parameter: PCP-8151								Comments
5		MW-5S	10/12/10	1349	2	W	X	X								
6		MW-5S Dup	↓	1349	2	W	X	X								
7		MW-5D		1424	2	W	X	X								

Turnaround Time Required (Business Days)
___ 1 Day ___ 2 Days ___ 5 Days ___ 7 Days X 10 Days ___ 15 Days _____ Other
Requested Due Date _____

Sample Disposal
☐ Return to Client ☒ Disposal by Lab ☐ Archive for _____ Months (A fee may be assessed if samples are retained longer than 1 month)

Relinquished By	Company	Date	Time	Received By	Company	Date	Time
[signature]	Boeing	10/13/10	4:30 pm	[signature]	TA	10/14/10	1030
Relinquished By	Company	Date	Time	Received By	Company	Date	Time
Relinquished By	Company	Date	Time	Received By	Company	Date	Time

Lab Courier
Shipped: FedEx
Hand Delivered

Matrix Key
WW – Wastewater
W – Water
S – Soil
SL – Sludge
MS – Miscellaneous
OL – Oil
A – Air
SE – Sediment
SO – Soil
L – Leachate
WI – Wipe
DW – Drinking Water
O – Other

Client Comments

Lab Comments:

10/28/2010

TAL-4124-500 (1209)

TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING

2417 Bond Street, University Park, IL 60484
Phone: 708.534.5200 Fax: 708.534.5211

(optional)
Report To
Contact:
Company:
Address:
Address:
Phone:
Fax:
E-Mail:

(optional)
Bill To
Contact:
Company:
Address:
Address:
Phone:
Fax:
PO#/Reference#

Chain of Custody Record

Lab Job #: 500-28530
Chain of Custody Number:
Page 1 of 1
Temperature °C of Cooler: (3.4) (4.1) (3.5)

Client: BURNS ENVIRONMENTAL
Client Project #: 119386-11
Project Name: IEPA – JENNISON WRIGHT NPL SITE
Project Location/State: GRANITE CITY, IL
Lab Project #: 50003448
Sampler: BRETT BAKER
Lab PM: DICK WRIGHT

Preservative Key
1. HCL, Cool to 4°
2. H2SO4, Cool to 4°
3. HNO3, Cool to 4°
4. NaOH, Cool to 4°
5. NaOH/Zn, Cool to 4°
6. NaHSO4
7. Cool to 4°
8. None
9. Other

Lab ID	MS/MSD	Sample ID	Sampling Date	Sampling Time	# of Containers	Matrix	Preservative / Parameter: SVOCs-8270	PCP-8151								Comments
1		MW-18S	10/12/10	0957	2	W	X	X								
2		MW-8S	↓	1044	2	W	X	X								
3		MW-8M		1116	2	W	X	X								
4		MW-8D	✓	1318	2	W	X	X								

Turnaround Time Required (Business Days)
___ 1 Day ___ 2 Days ___ 5 Days ___ 7 Days X 10 Days ___ 15 Days _____ Other
Requested Due Date _____

Sample Disposal
☐ Return to Client ☒ Disposal by Lab ☐ Archive for _____ Months (A fee may be assessed if samples are retained longer than 1 month)

Relinquished By	Company	Date	Time	Received By	Company	Date	Time
[signature]	BURNS	10/13/10	4:30pm	[signature]	TA	10/14/10	1030
Relinquished By	Company	Date	Time	Received By	Company	Date	Time
Relinquished By	Company	Date	Time	Received By	Company	Date	Time

Lab Courier
Shipped: FED EX
Hand Delivered

Matrix Key
WW – Wastewater
W – Water
S – Soil
SL – Sludge
MS – Miscellaneous
OL – Oil
A – Air
SE – Sediment
SO – Soil
L – Leachate
WI – Wipe
DW – Drinking Water
O – Other

Client Comments

Lab Comments:

10/28/2010

TAL-4124-506 (1209)

TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING

2417 Bond Street, University Park, IL 60484
Phone: 708.534.5200 Fax: 708.534.5211

(optional)
Report To
Contact:
Company:
Address:
Address:
Phone:
Fax:
E-Mail:

(optional)
Bill To
Contact:
Company:
Address:
Address:
Phone:
Fax:
PO#/Reference#

Chain of Custody Record

Lab Job #: 500-28530
Chain of Custody Number:
Page ____ of ____
Temperature °C of Cooler:

Client: BUDENE
Client Project #: 119386-11
Project Name: IRPA - JOHNSON WRIGHT
Project Location/State: GRANITE CITY, IL
Lab Project #:
Sampler: BRETT BAKER
Lab PM:

Preservative Key
1. HCL, Cool to 4°
2. H2SO4, Cool to 4°
3. HNO3, Cool to 4°
4. NaOH, Cool to 4°
5. NaOH/Zn, Cool to 4°
6. NaHSO4
7. Cool to 4°
8. None
9. Other

	Lab ID	MS/MSD	Sample ID	Sampling Date	Sampling Time	# of Containers	Matrix	Preservative: 8 / Parameter: SVOCs-8270	Preservative: 8 / Parameter: PCP-8151							Comments
7	8		MW-20	10/13/10	1121 AM	2	W	X	X							
8	9		MW-22	10/13/10	1155 AM	2	W	X	X							
9	10		MW-23	10/13/10	1225	2	W	X	X							

Turnaround Time Required (Business Days)
___ 1 Day ___ 2 Days ___ 5 Days ___ 7 Days X 10 Days ___ 15 Days ___ Other
Requested Due Date ____

Sample Disposal
☐ Return to Client ☐ Disposal by Lab ☐ Archive for ____ Months (A fee may be assessed if samples are retained longer than 1 month)

Relinquished By	Company	Date	Time	Received By	Company	Date	Time
[signature]	Batten	10/13/10	4:30PM	[signature]	TA	10/14/10	1030
Relinquished By	Company	Date	Time	Received By	Company	Date	Time
Relinquished By	Company	Date	Time	Received By	Company	Date	Time

Lab Courier
Shipped
Hand Delivered

Matrix Key
WW – Wastewater
W – Water
S – Soil
SL – Sludge
MS – Miscellaneous
OL – Oil
A – Air
SE – Sediment
SO – Soil
L – Leachate
WI – Wipe
DW – Drinking Water
O – Other

Client Comments

Lab Comments:

10/28/2010
TAL-4124-500 (1209)

Login Sample Receipt Check List

Client: Bodine Environmental Services

Job Number: 500-28530-1

Login Number: 28530
Creator: Lunt, Jeff T
List Number: 1

List Source: TestAmerica Chicago

Question	T / F/ NA	Comment
Radioactivity either was not measured or, if measured, is at or below background	True	
The cooler's custody seal, if present, is intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	3.4,4.1,3.9
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the sample IDs on the containers and the COC.	True	
Samples are received within Holding Time.	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	False	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified	True	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
VOA sample vials do not have headspace or bubble is <6mm (1/4") in diameter.	True	
If necessary, staff have been informed of any short hold time or quick TAT needs	True	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	

APPENDIX E

Groundwater Sampling Forms

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Air Monitoring
Spill Response
RCRA Closures

Environmental Consulting & Contracting

Monitoring Well Sampling Form

Client: IEPA/Jennison Wright NPL BES Job #: 119386-11

Facility Location: Galesburg, Illinois

Well ID#: MW-18S Sampling Date: 10/12/2010 Time: 0957 hr

Weather Conditions: Partly Sunny Air Temp: 69°F

Observations Upon Opening Well (damage, unlocked, odors, PID, casing condition, frost heave)

Purge Method: Peristaltic Pump Purge Date: 10/12/10

A. Well Diameter: 2"=0.167 feet Purge Start: 9:30

B. Well Depth: 31.00 feet (from TOC) Purge Stop: 10:00

C. Water Level: 16.17 feet (measured) Purge Rate: .5 mL/m

D. Height of Water: _____ feet (B-C) Volume Purged: _____

E. Casing Volume: _____ gallons (D * 0.17 gal/ft for 2" well, D * 0.66 gal/ft for 4" well) Purged by: B Baker

F. Number of Gallons to Purge: _____ Witness: Revey

Sampling Date: 10/12/10 Sampling Time: 0957

Sampling Method: Peristaltic Pump Depth of Sample: 24' BGS

pH: _____ Dissolved O_2: _____ (mg/l) Spec. Conductivity: _____ (umhos)

Temperature: _____ °F Metals Filtered _____ Yes _____ No: Filter size: _____

Sample Appearance: _____

Other notes: _____

Sampler: Brett Baker Witness: Revey

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WATER QUALITY/STABILIZATION READINGS

WELL ID# MW-185

	TIME	PURGE VOLUME	TEMP. ° F	SPEC. COND. (umhos)	DO (mg/L)	pH	WATER LEVEL
	0934		60.05	1.348	.99	6.45	16.32
	0935		60.27	1.348	.94	6.51	
	0936		60.18	1.354	.70	6.56	
	0941		60.64	1.360	.45	6.69	
Battery	0944		59.65	1.377	.47	6.75	
	0946		59.34	1.378	.38	6.80	
	0948		59.31	1.382	.34	6.84	
	0950	7 liters	59.21	1.384	.31	6.84	
	0952	8 liters.	59.21	1.384	.28	6.81	
	0954	9 liters	59.26	1.382	.25	6.82	
	0957	10 liters	59.30	1.381	.25	6.84	

Additional Comments: Sample time 09:57, sampled after 10 liters

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Monitoring Well Sampling Form

Client: IEPA/Jennison Wright NPL BES Job #: 119386-11

Facility Location: Galesburg, Illinois

Well ID#: MW-85R Sampling Date: 10/12/2010 Time: 1042 hr

Weather Conditions: Partly Sunny Air Temp: 70°

Observations Upon Opening Well (damage, unlocked, odors, PID, casing condition, frost heave)

Purge Method: PERSTALTIC PUMP Purge Date: 10/12/10

A. Well Diameter: 2"=0.167 feet Purge Start: 1015

B. Well Depth: 25.00 feet (from TOC) Purge Stop: 1042

C. Water Level: 16.82 feet (measured) Purge Rate: .5 l/m

D. Height of Water: _____ feet (B-C) Volume Purged: _____

E. Casing Volume: _____ gallons (D * 0.17 gal/ft for 2" well, D * 0.66 gal/ft for 4" well) Purged by: B. Baker

F. Number of Gallons to Purge: _____ Witness: R. Evey

Sampling Date: 10/12/10 Sampling Time: 1042

Sampling Method: PERSTALTIC PUMP Depth of Sample: 20' BGS

pH: _____ Dissolved O_2: _____ (mg/l) Spec. Conductivity: _____ (umhos)

Temperature: _____ °F Metals Filtered _____ Yes _____ No: Filter size: _____

Sample Appearance: _____

Other notes: _____

Sampler: BRETT BAKER Witness: R. EVEY

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WATER QUALITY/STABILIZATION READINGS

WELL ID# MW-85R

TIME	PURGE VOLUME	TEMP. ° F	SPEC. COND. (umhos)	DO (mg/L)	pH	WATER LEVEL
1018	1 liter	61.19	1.413	3.06	6.82	14.95
1020	2 liters	60.21	1.409	0.64	6.78	
1022	3 liters	60.65	1.406	0.44	6.82	
1024	4 liters	60.45	1.406	0.30	6.91	
1027	5 liters	60.46	1.404	0.23	6.98	
1029	6 liters	60.29	1.404	0.22	7.07	
1031	7 liters	60.37	1.400	0.22	7.20	
1033	8 liters	60.46	1.396	0.19	7.30	
1035	9 liters	60.52	1.395	0.17	7.40	
1038	10 liters	60.40	1.394	0.16	7.46	
1040	11 liters	60.33	1.395	0.14	7.48	
1042	12 liters	60.37	1.392	0.14	7.50	

Additional Comments: Start @ 10:15 AM.

Sample Time: 1042 AM, Sampled after 12 liters

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Monitoring Well Sampling Form

Client: IEPA/Jennison Wright NPL BES Job #: 119386-11

Facility Location: Galesburg, Illinois

Well ID#: MW-8MR Sampling Date: 10/12/2010 Time: 1116 hr

Weather Conditions: Partly Sunny Air Temp: 70°F

Observations Upon Opening Well (damage, unlocked, odors, PID, casing condition, frost heave)

Purge Method: Peristaltic Purge Date: 10/12/10

A. Well Diameter: 2"=0.167 feet Purge Start: 1054

B. Well Depth: 52.5 feet (from TOC) Purge Stop: 1116

C. Water Level: 15.83 feet (measured) Purge Rate: .5 l/m

D. Height of Water: _____ feet (B-C) Volume Purged: _____

E. Casing Volume: _____ gallons (D * 0.17 gal/ft for 2" well, D * 0.66 gal/ft for 4" well) Purged by: BBaker

F. Number of Gallons to Purge: _____ Witness: REvey

Sampling Date: 10/12/10 Sampling Time: 1116

Sampling Method: Peristaltic Pump Depth of Sample: 47.5' BGS

pH: _____ Dissolved O_2: _____ (mg/l) Spec. Conductivity: _____ (umhos)

Temperature: _____ °F Metals Filtered _____ Yes _____ No: Filter size: _____

Sample Appearance: _____

Other notes: _____

Sampler: BBaker Witness: REvey

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WATER QUALITY/STABILIZATION READINGS

WELL ID# MW-8MR

TIME	PURGE VOLUME	TEMP. ° F	SPEC. COND. (umhos)	DO (mg/L)	pH	WATER LEVEL
1058	1 liter	59.29	0.857	1.27	7.56	15.90
1101	2 liter	59.15	0.849	0.64	7.96	
1103	3 liter	59.18	0.843	0.48	8.02	
1105	4 liter	58.92	0.844	0.36	8.08	
1107	5 liter	58.85	0.843	0.31	8.10	
1110	6 liter	58.84	0.845	0.25	8.10	
1112	7 liter	58.83	0.846	0.21	8.08	
1114	8 liter	58.90	0.847	0.19	8.05	
1116	9 liter	59.14	0.845	0.18	8.04	

Additional Comments: Started @ 1054, Sampled after 11 liters

Sampled @ 1116 A.M

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Monitoring Well Sampling Form

Client: IEPA/Jennison Wright NPL BES Job #: 119386-11

Facility Location: Galesburg, Illinois

Well ID#: MW-8D Sampling Date: 10/12/2010 Time: 1:18 hr

Weather Conditions: P. Sunny Air Temp: 75°

Observations Upon Opening Well (damage, unlocked, odors, PID, casing condition, frost heave)

Purge Method: Peristaltic Purge Date: 10/12/10

A. Well Diameter: 2"=0.167 feet Purge Start: 12:55 Pm

B. Well Depth: 117.0 feet (from TOC) Purge Stop: 1:18 PM

C. Water Level: 17.47 feet (measured) Purge Rate: .5 l/m

D. Height of Water: _____ feet (B-C) Volume Purged: _____

E. Casing Volume: _____ gallons (D * 0.17 gal/ft for 2" well, D * 0.66 gal/ft for 4" well) Purged by: B. Baker

F. Number of Gallons to Purge: _____ Witness: R. Evey

Sampling Date: 10/12/10 Sampling Time: 7:18 P.M.

Sampling Method: Peristaltic pump Depth of Sample: 112' bgs

pH: _____ Dissolved O_2: _____ (mg/l) Spec. Conductivity: _____ (umhos)

Temperature: _____ °F Metals Filtered _____ Yes _____ No: Filter size: _____

Sample Appearance: _____

Other notes: _____

Sampler: Brett Baker Witness: R. Evey

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WATER QUALITY/STABILIZATION READINGS

WELL ID# MW-8D

TIME	PURGE VOLUME	TEMP. ° F	SPEC. COND. (umhos)	DO (mg/L)	pH	WATER LEVEL
1259	1 liter	64.26	0.904	2.75	7.26	17.53
103	2 liters	63.47	1.006	1.13	7.35	
105	3 liters	62.90	1.020	0.76	7.41	
107	4 liters	62.84	1.022	0.58	7.51	
109	5 liters	62.70	1.028	0.44	7.57	
112	6 liters	62.66	1.030	0.36	7.58	
115	7 liters	62.73	1.032	0.31	7.57	
118	8 liters	62.55	1.034	0.29	7.56	

Additional Comments: Start @ 12:55; Sampled After 8 Liters

Sampled @ 1:18 p.m.

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Monitoring Well Sampling Form

Client: IEPA/Jennison Wright NPL BES Job #: 119386-11

Facility Location: Galesburg, Illinois

Well ID#: MW-55 Sampling Date: 10/12/2010 Time: 1:49 hr

Weather Conditions: R. Every Air Temp: 76°

Observations Upon Opening Well (damage, unlocked, odors, PID, casing condition, frost heave)

Purge Method: Peristaltic Pump Purge Date: 10/12/10

A. Well Diameter: 2"=0.167 feet Purge Start: 1:31 p.m.

B. Well Depth: 27.00 feet (from TOC) Purge Stop: 1:49 p.m.

C. Water Level: 16.66 feet (measured) Purge Rate: .5 l/m

D. Height of Water: _____ feet (B-C) Volume Purged: _____

E. Casing Volume: _____ gallons (D * 0.17 gal/ft for 2" well, D * 0.66 gal/ft for 4" well) Purged by: D. Baker

F. Number of Gallons to Purge: _____ Witness: R. Every

Sampling Date: Peristaltic Pump Sampling Time: 1:49 p.m.

Sampling Method: _____ Depth of Sample: 22.0' BGS

pH: _____ Dissolved O_2: _____ (mg/l) Spec. Conductivity: _____ (umhos)

Temperature: _____ °F Metals Filtered _____ Yes _____ No: Filter size: _____

Sample Appearance: _____

Other notes: _____

Sampler: Brett Baker Witness: R. Every

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WATER QUALITY/STABILIZATION READINGS

WELL ID# MW-55

TIME	PURGE VOLUME	TEMP. ° F	SPEC. COND. (umhos)	DO (mg/L)	pH	WATER LEVEL
135	1 liter	90.5	0.942	0.35	6.67	16.75
137	2 liters	91.34	0.941	0.21	6.67	
139	3 liters	92.42	0.942	0.23	6.68	
141	4 liters	93.38	0.940	0.16	6.65	
143	5 liters	94.23	0.934	0.12	6.63	
145	6 liters	94.69	0.929	0.11	6.64	
147	7 liters	95.29	0.921	0.14	6.62	
149	8 liters	95.55	0.918	0.14	6.61	

Additional Comments: start @ 10:31 AM ; sampled after 8 liters
sampled @ 1:49 P.M.

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Monitoring Well Sampling Form

Client: IEPA/Jennison Wright NPL BES Job #: 119386-11

Facility Location: Galesburg, Illinois

Well ID#: MW-5D Sampling Date: 10/12/2010 Time: 224 hr

Weather Conditions: P.Sunny Air Temp: 78

Observations Upon Opening Well (damage, unlocked, odors, PID, casing condition, frost heave)

Purge Method: Peristaltic Pump Purge Date: 10/12/10

A. Well Diameter: 2"=0.167 feet Purge Start: 2:04 PM

B. Well Depth: 110.5 feet (from TOC) Purge Stop: 2:24 PM

C. Water Level: 15.46 feet (measured) Purge Rate: .5 l/m

D. Height of Water: _____ feet (B-C) Volume Purged: _____

E. Casing Volume: _____ gallons (D * 0.17 gal/ft for 2" well, D * 0.66 gal/ft for 4" well) Purged by: B. Baker

F. Number of Gallons to Purge: _____ Witness: R. Eveley

Sampling Date: 10/12/10 Sampling Time: 2:24 p.m

Sampling Method: Peristaltic Pump Depth of Sample: 105.5' BGS

pH: _____ Dissolved O_2: _____ (mg/l) Spec. Conductivity: _____ (umhos)

Temperature: _____ °F Metals Filtered _____ Yes _____ No: Filter size: _____

Sample Appearance: _____

Other notes: Guys were mean to me.

Sampler: Brett Baker Witness: Rick Eveley

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WATER QUALITY/STABILIZATION READINGS

WELL ID# MW-5D

TIME	PURGE VOLUME	TEMP. ° F	SPEC. COND. (umhos)	DO (mg/L)	pH	WATER LEVEL
209	1 liter	64.17	0.950	0.93	6.95	15.47
212	2 liters	64.30	0.928	0.52	7.08	
214	3 liters	64.14	0.905	0.43	7.09	
216	4 liters	64.01	0.892	0.38	7.11	
218	5 liters	63.61	0.856	0.35	7.14	
221	6 liters	63.48	0.852	0.35	7.20	
224	7 liters	63.36	0.851	0.37	7.19	

Additional Comments: STARTED PURGING @ 204 AFTER 7 LITERS
STARTED SAMPLING @ 224

NICE FRESH SUSPENDED SOLIDS. VISIBLE

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Environmental Consulting & Contracting

Monitoring Well Sampling Form

Client: IEPA/Jennison Wright NPL BES Job #: 119386-11

Facility Location: Galesburg, Illinois

Well ID#: MW-20 Sampling Date: 10/13/2010 Time: 1121 hr

Weather Conditions: P. Sunny Air Temp: 60°

Observations Upon Opening Well (damage, unlocked, odors, PID, casing condition, frost heave)

Purge Method: Peristaltic Pump Purge Date: 10/13/10

A. Well Diameter: 2"=0.167 feet Purge Start: 1059 AM

B. Well Depth: 119.5 feet (from TOC) Purge Stop: 1120 AM

C. Water Level: 17.39 feet (measured) Purge Rate: .5 l/m

D. Height of Water: _____ feet (B-C) Volume Purged: _____

E. Casing Volume: _____ gallons (D * 0.17 gal/ft for 2" well, D * 0.66 gal/ft for 4" well) Purged by: B. Baker

F. Number of Gallons to Purge: _____ Witness: L. Eury

Sampling Date: 10/13/10 Sampling Time: 1121

Sampling Method: Peristaltic Pump Depth of Sample: 35'

pH: _____ Dissolved O_2: _____ (mg/l) Spec. Conductivity: _____ (umhos)

Temperature: _____ °F Metals Filtered _____ Yes _____ No: Filter size: _____

Sample Appearance: _____

Other notes: _____

Sampler: Brent Baker Witness: L. Eury

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WATER QUALITY/STABILIZATION READINGS

WELL ID# MW-20

TIME	PURGE VOLUME	TEMP. °F	SPEC. COND. (umhos)	DO (mg/L)	pH	WATER LEVEL
1103	1 liter	77.73	0.963	0.90	6.46	17.48
1108	2 liters	78.79	0.932	0.39	6.45	
1110	3 liters	79.26	0.919	0.32	6.50	
1112	4 liters	79.34	0.905	0.28	6.53	
1114	5 liters	79.38	0.904	0.27	6.53	
1116	6 liters	79.48	0.892	0.26	6.55	
1118	7 liters	79.51	0.885	0.23	6.55	
1120	8 liters	79.92	0.89	0.21	6.56	
	N/A					

Fixed Flow well (leaking)

Additional Comments: Sampled @ 10:59 AM; Sampled after 8 liters
Sampled @ 1121 A.M.

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Monitoring Well Sampling Form

Client: IEPA/Jennison Wright NPL BES Job #: 119386-11

Facility Location: Galesburg, Illinois

Well ID#: MW-22 Sampling Date: 10/13/2010 Time: 1155 hr

Weather Conditions: P. Sunny Air Temp: 65°

Observations Upon Opening Well (damage, unlocked, odors, PID, casing condition, frost heave)

Purge Method: Peristaltic Pump Purge Date: 10/13/10

A. Well Diameter: 2"=0.167 feet Purge Start: 1135

B. Well Depth: 119.5 feet (from TOC) Purge Stop: 1154

C. Water Level: 16.93 feet (measured) Purge Rate: .5 l/m

D. Height of Water: _____ feet (B-C) Volume Purged: _____

E. Casing Volume: _____ gallons (D * 0.17 gal/ft for 2" well, D * 0.66 gal/ft for 4" well) Purged by: B. Baker

F. Number of Gallons to Purge: _____ Witness: K. Eng

Sampling Date: 10/13/10 Sampling Time: 1155

Sampling Method: Peristaltic Pump Depth of Sample: 35'

pH: _____ Dissolved O_2: _____ (mg/l) Spec. Conductivity: _____ (umhos)

Temperature: _____ °F Metals Filtered _____ Yes _____ No: Filter size: _____

Sample Appearance: _____

Other notes: _____

Sampler: Robert Baker Witness: Rick Eng

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WATER QUALITY/STABILIZATION READINGS

WELL ID# MW-22

TIME	PURGE VOLUME	TEMP. ° F	SPEC. COND. (umhos)	DO (mg/L)	pH	WATER LEVEL
1139	1 liter	103.62	1.075	0.20	6.45	17.02
1141	2 liters	105.00	1.077	0.12	6.48	
1143	3 liters	105.34	1.078	0.09	6.49	
1145	4 liters	105.18	1.078	0.12	6.48	
1147	5 liters	105.19	1.077	0.08	6.46	
1149	6 liters	105.02	1.072	0.07	6.44	
1151	7 liters	105.00	1.069	0.07	6.43	
1157	8 liters	105.00	1.065	0.07	6.42	

Additional Comments: Start: 1135 AM, Sampled after 8 liters.
Start Sampling: 1155 AM

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Monitoring Well Sampling Form

Client: IEPA/Jennison Wright NPL BES Job #: 119386-11

Facility Location: Galesburg, Illinois

Well ID#: MW-23 Sampling Date: 10/13/2010 Time: 1225 hr

Weather Conditions: P. Sunny Air Temp: 70°

Observations Upon Opening Well (damage, unlocked, odors, PID, casing condition, frost heave)

Purge Method: Peristaltic Pump Purge Date: 10/13/10

A. Well Diameter: 2"=0.167 feet Purge Start: 1209 PM

B. Well Depth: 119.5 feet (from TOC) Purge Stop: 1224 PM

C. Water Level: 16.88 feet (measured) Purge Rate: .5 l/m

D. Height of Water: _____ feet (B-C) Volume Purged: _____

E. Casing Volume: _____ gallons (D * 0.17 gal/ft for 2" well, D * 0.66 gal/ft for 4" well) Purged by: B. Aska

F. Number of Gallons to Purge: _____ Witness: R. Gray

Sampling Date: 10/13/10 Sampling Time: 1225 PM

Sampling Method: Peristaltic Pump Depth of Sample: 35'

pH: _____ Dissolved O_2: _____ (mg/l) Spec. Conductivity: _____ (umhos)

Temperature: _____ °F Metals Filtered _____ Yes _____ No: Filter size: _____

Sample Appearance: _____

Other notes: _____

Sampler: Brett Aska Witness: Rich Gray

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WATER QUALITY/STABILIZATION READINGS

WELL ID# mw-23

TIME	PURGE VOLUME	TEMP. ° F	SPEC. COND. (umhos)	DO (mg/L)	pH	WATER LEVEL
1210	1 liter	106.72	0.890	0.35	6.27	16.98
1212	2 liters	107.19	0.889	0.21	6.34	
1214	3 liters	106.11	0.888	0.18	6.39	
1216	4 liters	105.33	0.890	0.16	6.36	
1218	5 liters	104.54	0.894	0.15	6.39	
1220	6 liters	103.43	0.901	0.14	6.39	
1222	7 liters	103.12	0.906	0.14	6.40	
1224	8 liters	102.88	0.911	0.13	6.41	
	0					

Additional Comments: Start @ 1209 PM; Sampling after 8 liters
Sampled @ 1225 P.M

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APPENDIX F

Photograph Log

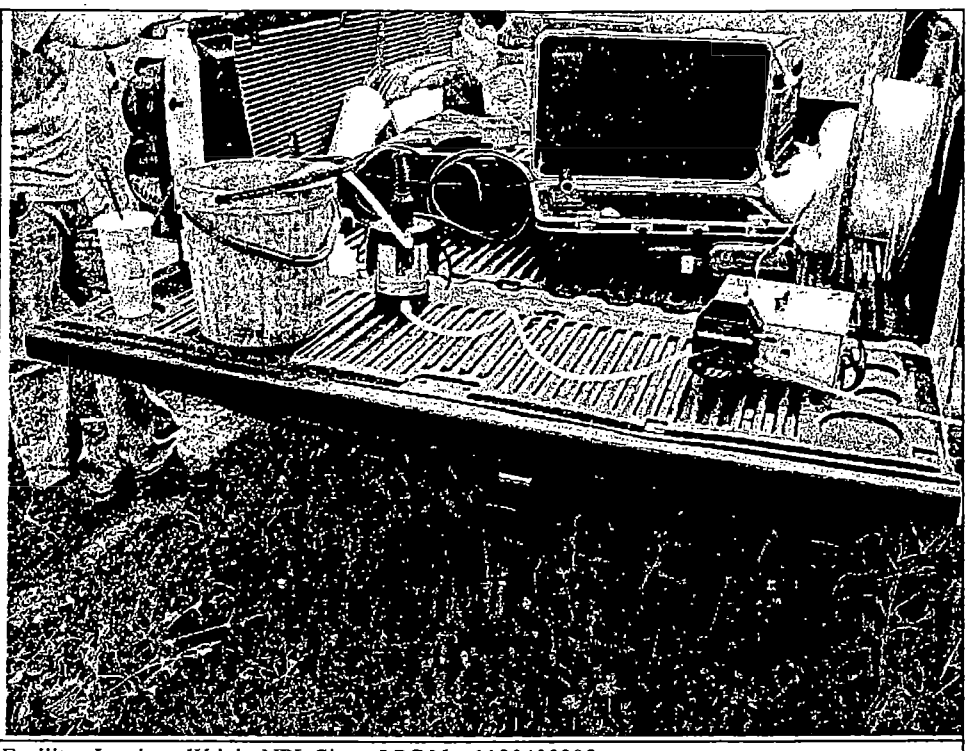
Photo #1	
Illinois Environmental Protection Agency	
Subject: Jennison Wright NPL Site Remediation	
Taken by: Rick Evey	
October 12, 2010	
Bodine Project No. 119386	Facility: Jennison Wright NPL Site – LPC No. 1190400008
	Location: 900 W. 22nd Street, Granite City, Illinois
	Description: Bodine field supervisor collecting groundwater sample from monitoring well utilizing low flow sampling.

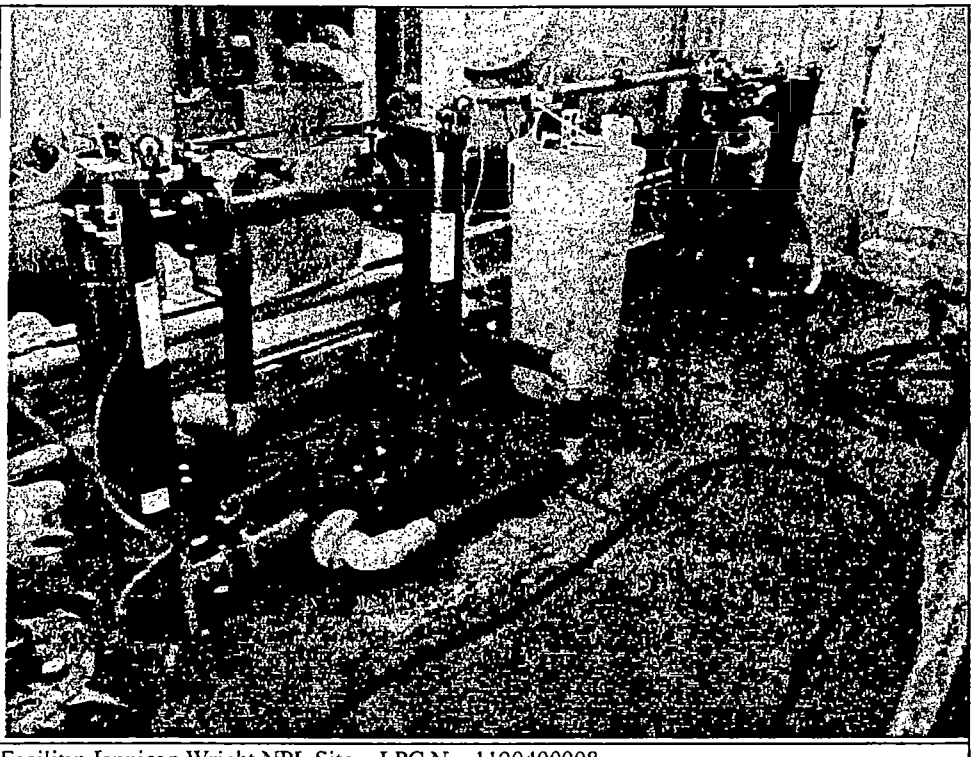
Photo #2	
Illinois Environmental Protection Agency	
Subject: Jennison Wright NPL Site Remediation	
Taken by: Rick Evey	
November 10, 2010	
Bodine Project No. 119386	Facility: Jennison Wright NPL Site – LPC No. 1190400008
	Location: 900 W. 22nd Street, Granite City, Illinois
	Description: A photo of the new bag filter units.

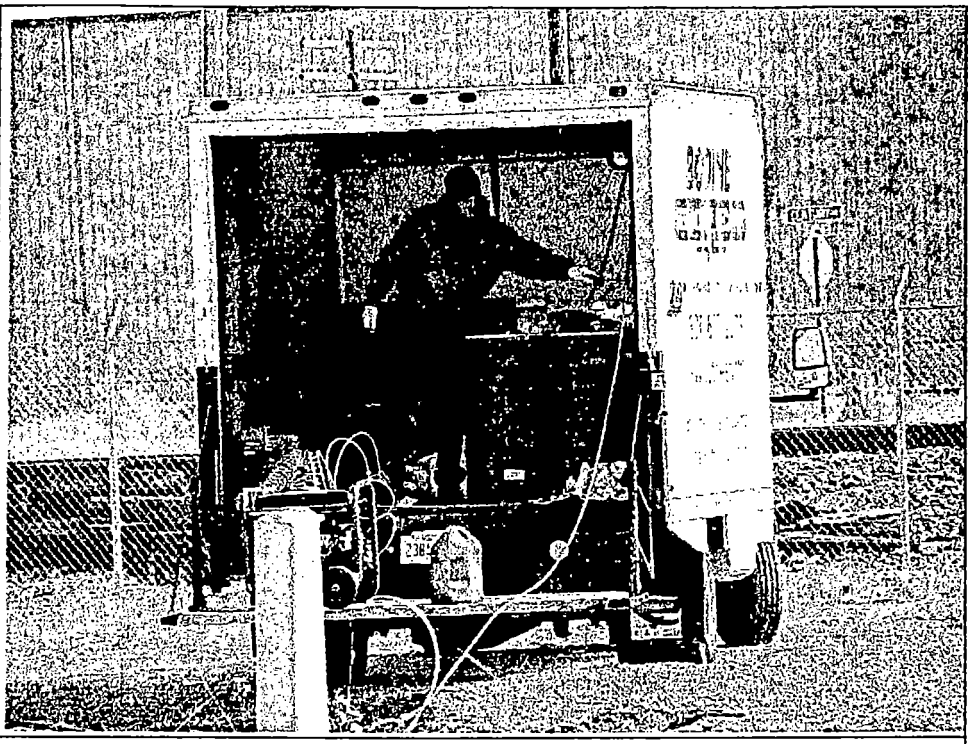
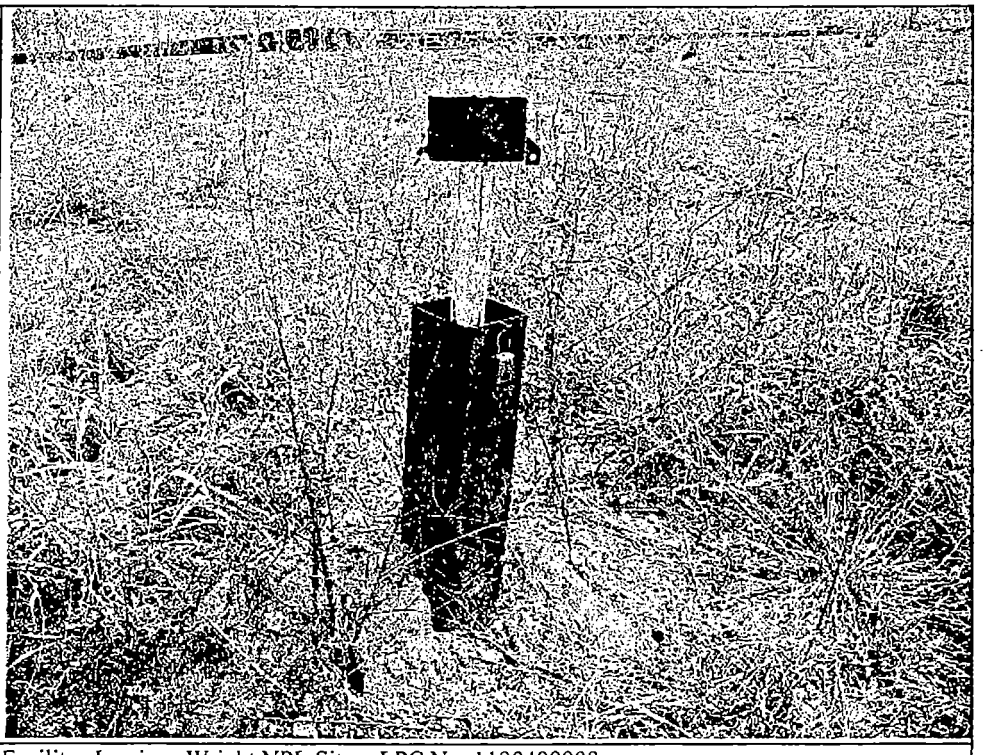
Photo #3	
Illinois Environmental Protection Agency	
Subject: Jennison Wright NPL Site Remediation	
Taken by: Rick Evey	
December 8, 2010	
Bodine Project No. 119386	Facility: Jennison Wright NPL Site – LPC No. 1190400008
	Location: 900 W. 22nd Street, Granite City, Illinois
	Description: A view of Bodine project technician pumping DNAPL from the bottom of MW-21D.

Photo #4	
Illinois Environmental Protection Agency	
Subject: Jennison Wright NPL Site Remediation	
Taken by: Troy M. McFate	
December 8, 2010	
Bodine Project No. 119386	Facility: Jennison Wright NPL Site – LPC No. 1190400008
	Location: 900 W. 22nd Street, Granite City, Illinois
	Description: View of heaved well MW-9S, prior to abandonment.