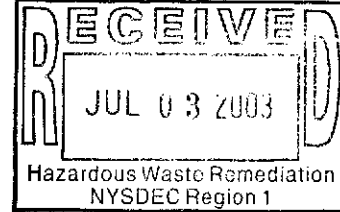




2 July 2003



Mr. Girish Desai, P.E.
Environmental Engineer 2
New York State Department of Environmental Conservation
Region 1
Division of Environmental Remediation
Building 40, State University of New York
Stony Brook, New York 11790-2356

RE: Final Supplemental Remedial Investigation Report
Peerless Photo Products Site, Shoreham, New York
Site ID No. 1-52-031

Dear Mr. Desai:

Enclosed please find the Final Supplemental Remedial Investigation Report for the Peerless Photo Products Site in Shoreham, New York for your review. The report summarizes the results of the additional ground-water investigation performed in November and December 2003, and incorporates responses to the comments in your letter dated 6 June 2003.

Agfa Corporation and EA Engineering, Science, and Technology remain committed to the successful completion of this project, and appreciate the New York State Department of Environmental Conservation's continued support toward that end. If you have any questions regarding the report, please call me at (732) 404-9370, extension 220, or Charlene Graff of Agfa at (201) 440-2500, extension 4613.

Sincerely,

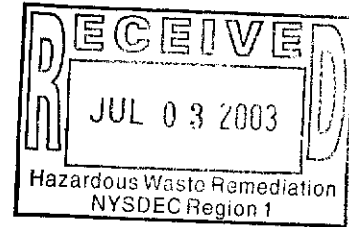
EA ENGINEERING, SCIENCE,
AND TECHNOLOGY, INC.

A handwritten signature in black ink, appearing to read 'Christopher J. Kerlish'.

Christopher J. Kerlish
Project Manager

Attachment

Cc: S. Calabufo, Suffolk County Water Authority
C. Graff, Agfa Corporation
W. Parrish, NYSDEC (w/o attachment)
L. Rafferty, New York State Department of Health
S. Robbins, Suffolk County Department of Health Services



**Supplemental Phase II Remedial Investigation Report
Peerless Photo Products Site
Shoreham, New York
I.D. No. 1-52-031**

Prepared for

Agfa Corporation
100 Challenger Road
MS 100-7D
Ridgefield Park, New Jersey 07660-2199

Prepared by

EA Engineering, Science, and Technology
485 Route One South
Building C – Suite 260
Iselin, New Jersey 08830
(732) 404-9370

June 2003
FINAL
Project No. 13712.11

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ACRONYMS

AMSL	Above Mean Sea Level
APC	Area of Potential Concern
bgs	Below ground surface
ID	Inside diameter
MDL	Method Detection Limit
NYSDEC	New York State Department of Environmental Conservation
OD	Outside diameter
ppb	Part(s) per billion
PVC	Polyvinyl chloride
QA	Quality assurance
QC	Quality control
RI	Remedial investigation
RIWP	Remedial Investigation Work Plan
SCG	Site Cleanup Goal

1. INTRODUCTION

This purpose of this report is to present the results of the field sampling and analysis program conducted during the Supplemental Phase II Remedial Investigation (RI) at the Peerless Photo Products Site in Shoreham, New York. This work was performed on behalf of Agfa Corporation by EA Engineering, Science, and Technology in accordance with the Order of Consent (W10428-89-07) active for this site.

1.1 PURPOSE OF THE INVESTIGATION

The purpose of the Supplemental Phase II RI at the Peerless Photo Products site was to collect additional data to refine the findings of the Phase II RI and to assess the chemical and geophysical characteristics of the lower aquifer unit onsite and in downgradient offsite areas. The additional data will also be used to evaluate remedial alternatives applicable to the site and to complete a Feasibility Study. Supplemental Phase II RI activities were initiated at the Peerless Photo Products site in November 2002.

1.2 SITE LOCATION AND DESCRIPTION

The site is located in the village of Shoreham, in the town of Brookhaven, Suffolk County, New York (Figure 1-1). The site is bordered to the south by Route 25A (also known as Port Jefferson—Riverhead Road), to the west by Randall Road, to the north by residences and the Long Island Lighting Company Right-of-Way (LILCO ROW)¹, and to the east by Tesla Street and residential properties (Fluor Daniel GTI 1998).

A more detailed explanation of the site location and description can be found in the Phase I (Fluor Daniel GTI 1996) and Phase II RI reports (Fluor Daniel GTI 1998).

1.3 HISTORICAL INFORMATION

1.3.1 Site History

Nikola Tesla purchased the site from James D. Warden, manager and director of Suffolk County Land Company in 1901. In 1903, Mr. Tesla first developed the site by constructing a building that served as a residence and a laboratory. This original building is now part of Building 1 (Figure 1-2). He also constructed a radio tower, which was demolished between 1917 and 1918. The foundation of the former radio tower, called the Tesla Tower Base, is located at the southeastern corner of the site (Figure 1-2).

¹ LILCO refers to the Long Island Lighting Company, which historically owned the Right-of-Way (ROW). The ROW is currently owned by LILCO's successor, the Long Island Power Authority (LIPA), but is referred to as the LILCO ROW in this report for consistency with prior reports prepared for the Peerless Photo Products Site.

Peerless Photo Products, Inc. began operations at the site in 1939. In 1969, Agfa-Gevaert, Inc., purchased the site. After several company mergers and/or name changes from 1991 to the present, the site is presently owned by Agfa Corporation.

Peerless Photo Products, Inc. produced photographic emulsions used for the manufacture of photographic film and photographic paper from 1939 to 1969. Untreated process water was discharged to the North Recharge Basins (now part of the LILCO ROW on the north side of the site) from 1939 to 1979. A wastewater treatment plant was constructed at the site in 1979. From 1979 to 1987, treated process water was discharged into the North Recharge Basins. Manufacturing operations at the site began to decrease in 1984. All manufacturing operations ceased in mid 1987. The wastewater treatment plant ceased operations on 31 July 1987.

For a more detailed discussion on the site's history, please refer to the Phase II RI Report (Fluor Daniel GTI 1998).

1.3.2 Previous Investigations

Previous investigations conducted at the site include:

- A ground-water investigation conducted by Malcolm Pirnie, Inc. in 1980
- A Phase I Preliminary Investigation conducted by the New York State Department of Environmental Conservation (NYSDEC) in 1983
- A Phase II Site Investigation conducted by Agfa between 1986 and 1988
- An underground storage tank removal program conducted by Agfa in 1990
- A survey of significant features, areas of potential concern (APC), sanitary pools, and stormwater drywells conducted in 1992
- A Phase I RI conducted by Fluor Daniel GTI between 1994 and 1995
- Two interim remedial measures at 2 APC conducted by Agfa in 1996
- A Phase II RI conducted by Agfa in 1996.

For a more detailed discussion on previous investigations performed at the Peerless Photo Products Site, please refer to the Phase II RI Report (Fluor Daniel GTI 1998).

1.4 REPORT ORGANIZATION

This Supplemental Phase II RI Report is organized as follows:

- The purpose of the investigation, a description of the site, the history of site development, and a summary of previous investigations are presented in Chapter 1.
- A summary of the physical setting of the site, including site geology and hydrogeology, is presented in Chapter 2.

- A description of the field activities performed during the Supplemental Phase II RI is included in Chapter 3.
- A summary of field and analytical results, a comparison of those results to applicable NYSDEC criteria, and a discussion of the Supplemental Phase II RI findings are presented in Chapter 4.
- Conclusions and recommendations based on the Supplemental Phase II RI findings are presented in Chapter 5.

Seven appendixes are included at the end of this report. Well construction diagrams are presented in Appendix A. Well development records and purge data sheets are presented in Appendix B. Soil boring logs are presented in Appendix C. Soil and ground-water results from the analytical laboratory report (Form Is) are included in Appendix D and E, respectively. Chains-of-custody are provided in Appendix F. A Data Validation Summary Report for ground-water analytical data is provided in Appendix G.

2. PHYSICAL SETTING

2.1 LAND USE

The site is located on 16.2 acres in a primarily residential area. The LILCO Right-Of-Way borders and overlaps the site immediately to the north, with residential properties consisting mainly of single-family homes, located further to the north. Residential properties also occupy areas immediately to the east and west of the site, with commercial properties further east-and-westward along Route 25A. Route 25A borders the site immediately to the south with primarily residential properties further southward. The Suffolk County Water Authority, Briarcliff Road former public supply well field (formerly owned by Shorewood Water Supply Company), is located approximately 600 ft northwest of the site.

The site is enclosed by a 6-ft high chain-link fence and is guarded 24 hours a day. The former wastewater treatment plant recharge basins (North Recharge Basins) are located along the northern side of the site beneath the LILCO transmission lines. The primary structures, including the wastewater treatment plant and the North Recharge Basins, are illustrated in Figure 2.

For additional details regarding the site's land use, please refer to the Phase II RI Report by Fluor Daniel GTI (Fluor Daniel GTI 1998).

2.2 GEOLOGY/HYDROGEOLOGY

2.2.1 Regional Characteristics

The site is located on glacial outwash deposits between 2 terminal moraines, the Harbor Hill to the north and the Ronkonkoma to the south. The U. S. Geological Survey describes Long Island, New York as underlain by a mass of unconsolidated deposits of clay, silt, sand, and gravel that overlie southward sloping consolidated bedrock. These deposits are thinnest in northern Queens County (northwestern Long Island), where outcrops of bedrock are evident, and increased to a maximum thickness of 2,000 ft in southeastern Long Island. The sequence of unconsolidated deposits consists of several geologic units ranging in age from later Cretaceous through Pleistocene, with some recent deposits near shores and streams. (Fluor Daniel GTI 1998). The surficial deposits encountered during the installation of the 6 monitoring wells were generally typical of these glacial outwash deposits.

2.2.2 Site-Specific Characteristics

The geology encountered during the Supplemental Phase II RI drilling program consisted primarily of a mixture of sands and quartz gravel, with lesser amounts of silt. Continuous split-spoon samples were not collected during the Supplemental Phase II RI drilling program. The geologic description of soils encountered during the drilling of the 6 monitoring wells is based upon a combination of the following methods: 1) soil cuttings coming to the surface during

drilling, 2) soil collected from split-spoon samples collected approaching the anticipated water table and the lower aquifer unit (where applicable), and 3) changes in drilling characteristics noted by the driller. During the drilling of the temporary monitoring wells (TW-1 to TW-3), generally a mixture of brown to whitish-tan medium to fine sand with traces of medium to fine gravel were encountered down to the completion depths of 126-127 ft below ground surface (bgs). Based on changes in drilling characteristics and cuttings coming to the surface, intermittent lenses of coarse to fine gravel may exist from approximately ground surface to 100 ft bgs. An increased abundance of coarse to fine gravel was encountered from approximately 3 to 8 ft bgs during the drilling of TW-1, TW-2, and TW-3. A thin (0.5 ft) silt layer was encountered during the drilling of TW-3 from approximately 111.5 to 112 ft bgs. Small mica flakes were observed from soil samples collected during the drilling of TW-1 and TW-3 near the water table (at approximately 112 ft bgs).

Similar to the materials encountered during drilling of the temporary monitoring wells, the geology encountered during drilling of MW-10D was primarily a mixture of medium to fine sands with traces of fine quartz gravel to the water table (at approximately 112 ft bgs). Based on soil samples collected from approximately 140 to 157 ft bgs, the geology encountered approaching, and slightly into, the lower aquifer unit consisted of primarily a mixture of coarser sands and fine quartz gravel.

During drilling of offsite well MW-11S, generally a mixture of fine to very fine sands with traces of silt and fine gravel was encountered from ground surface to approximately 93.5 ft bgs. A perched water table was encountered at 87 ft bgs overlying a silt layer from approximately 93.5 to 98 ft bgs. Generally well sorted whitish-tan medium to very fine sand was encountered from 98 to 149 ft bgs. During drilling of MW-11D, the soils encountered from 200 to 204 ft bgs based upon 2 limited split-spoon sample recoveries, were primarily brown coarse to fine sands with some fine quartz gravel.

2.2.3 Hydrogeology

According to the U.S. Geological Survey, there are 8 distinct hydrogeologic units that underlie Long Island, New York (U. S. Geological Survey Report No. Atlas HA-709, 1989). The units are listed below in ascending order:

- Consolidated bedrock
- Lloyd aquifer
- Raritan confining layer
- Magothy aquifer
- Monmouth greensand
- Jameco aquifer
- Gardiners Clay
- Unconsolidated upper glacial aquifer.

The relevant hydrogeologic units in the northern portion of the town of Brookhaven, adjacent to the site, include the consolidated bedrock, the Lloyd aquifer, the Raritan confining unit, the Magothy aquifer, and the upper glacial aquifer. The Jameco aquifer is located farther west in Kings County and Queens County, New York. The Monmouth greensand and the Gardiners Clay units are pinched out further south, closer to the south shore of Long Island (Fluor Daniel GTI 1998).

The two primary sources of potable water in the town of Brookhaven are the upper glacial aquifer and the Magothy aquifer. There is no distinct designation between extracted water from these 2 aquifers near the site. According to the NYSDEC and the U.S. Environmental Protection Agency, all water pumped from the ground is considered a potable water source (Fluor Daniel GTI 1996 and 1998). Please refer to the Phase I RI Report (Fluor Daniel GTI 1996) for a complete description of the hydrogeologic background of the site and surrounding area.

Synoptic rounds of water level data were collected from all accessible onsite and offsite wells on 17 January 2002, 22 November 2002, and 4 December 2002 (Table 2-1). Ground-water contour maps from the January and November 2002 gauging events are presented in Figures 2-1 and 2-2, respectively. A ground-water contour map was not generated for the 4 December 2002 gauging event because this gauging event was performed solely to aid in the development of a more accurate ground-water model. Ground-water flow direction was mapped toward the north-northeast from the data collected from the three gauging events. This flow direction is consistent with previous gauging events performed at the site and is consistent with the regional ground-water flow direction (Fluor Daniel GTI 1996).

Depth to ground water measured during the installation of the 6 new monitoring wells ranged from 110.5 ft (onsite at MW-10D) to 141 ft bgs (offsite at MW-11S/D). The differences in the depth to the water table were directly related to the change in topography. The water table elevations normalized to feet above mean sea level (AMSL) ranged from approximately 27 ft AMSL onsite to 23 ft AMSL offsite. Of the six newly installed monitoring wells, 4 wells (TW-1, TW-2, TW-3, and MW-11S) were installed in the upper aquifer unit and 2 wells (MW-10D and MW-11D) were installed in the lower aquifer unit.

3. FIELD INVESTIGATION

This chapter describes the scope of the Supplemental Phase II RI field investigation, including soil and ground-water sampling locations, sampling procedures, and analytical methods used.

3.1 AREAS OF INVESTIGATION

The Phase I RI (Fluor Daniel GTI 1996) evaluated a total of 12 APCs. The results of the Phase I RI indicated that 6 of these APCs required further action. The Phase II RI evaluated these 6 APCs during field work conducted between June and October 1996. The results of the Phase II RI (Fluor Daniel GTI 1998) indicated that 5 of the 6 APCs required further investigation as part of a Feasibility Study. After several iterations, the Supplemental Phase II RI work plan was revised based upon a conference call between Agfa, EA, NYSDEC, and the Suffolk County Department of Health Services on 18 September 2002. The objectives of the Supplemental RI included the following:

- Delineation of cadmium in ground water in excess of the Site Cleanup Goal (SCG) of 10 parts per billion (ppb) downgradient of MW-7S
- Further assessment of onsite cadmium concentration in the lower portion of the aquifer
- Collection of additional data between MW-6 and MW-10 to allow development of a more accurate ground-water model.

The Supplemental Phase II RI field investigation was conducted between 14 October and 6 December 2002.

3.2 WELL LOCATION AND RATIONALE

A total of 3 permanent (MW-10D, MW-11S, and MS-11D) and 3 temporary (TW-1, TW-2, and TW-3) monitoring wells were installed onsite and offsite to evaluate cadmium concentrations in the ground water and to fill in data gaps to aid in the development of a ground-water model. The 6 monitoring wells were installed between 14 October and 21 November 2002. The monitoring well locations are shown on Figure 2. Construction details for the wells installed during the Supplemental Phase II RI, including total well depths and screened intervals, are indicated on Table 3-1. The monitoring wells installed and the rationale for their installation is provided below.

MW-10D

Monitoring well MW-10D was installed onsite adjacent to existing monitoring well MW-10 (Figure 2). This well was installed below the completion depth of MW-10 to characterize the concentration of cadmium in the ground water in the lower aquifer unit. This well is screened entirely within the lower aquifer unit to a completion depth of 179 ft bgs.

MW-11S

Monitoring well MW-11S was installed hydraulically downgradient of MW-7S at the southeast corner of Walnut Drive and Mary Pitkin Path (Figure 1-2) to a completion depth of 172 ft bgs. This well was installed to assess the cadmium concentration in the ground water of the upper aquifer unit downgradient of MW-7S. During the February 2001 and January 2002 sampling events, cadmium concentrations were reported above the SCG of 10 ppb in MW-7S. MW-11S was installed to serve as a potential sentinel well in the upper aquifer unit.

MW-11D

Monitoring well MW-11D was installed hydraulically downgradient of MW-7D at the southeast corner of Walnut Drive and Mary Pitkin Path (Figure 2), near MW-11S. This well was installed to characterize the cadmium concentration in the ground water of the lower aquifer unit downgradient of MW-7D. This well was installed to serve as a potential sentinel well in the lower aquifer unit. MW-11D is screened entirely within the lower aquifer unit to a completion depth of 220 ft bgs.

TW-1

Temporary monitoring well TW-1 was installed onsite to a completion depth of 127 ft bgs, downgradient to the northwest of MW-6 (Figure 2). This well was installed in roughly a straight line with TW-2 and TW-3 (discussed below) parallel to the original Tesla building, down- and sidegradient of the Tesla Tower Base. This well was installed to collect additional data to allow the development of a more accurate ground-water model.

TW-2

Temporary monitoring well TW-2 was installed onsite to a completion depth of 127 ft bgs, downgradient to the north of MW-6 (Figure 2). This well was installed in roughly a straight line with TW-1 (discussed above) and TW-3 (discussed below) parallel to the original Tesla building, directly downgradient of the Tesla Tower Base. This well was installed to collect additional data to allow the development of a more accurate ground-water model.

TW-3

Temporary monitoring well TW-3 was installed onsite to a completion depth of 126 ft bgs, downgradient to the north-northeast of MW-6 (Figure 2). This well was installed in roughly a straight line with TW-1 and TW-2 (discussed above) parallel to the original Tesla building, down-and-sidegradient of the Tesla Tower Base. This well was installed to collect additional data to allow the development of a more accurate ground-water model.

3.3 FIELD PROCEDURES

3.3.1 Soil Sampling

Soil boring and sampling activities were performed in accordance with the approved Supplemental Phase II Remedial Investigation Work Plan (RIWP) (EA 2002). Soil sampling location details are provided in Table 3-2. Soil boring logs are provided in Appendix C.

Prior to field activities, underground utilities within the area of investigation were identified and marked to prevent damage during intrusive activities.

Drilling and well installation were performed by Aquifer Drilling and Testing, Inc. (ADT), with oversight by EA geologists. The drilling rig and equipment in contact with subsurface soils were steam cleaned prior to drilling at the boring locations. Potable water was used to assist in drilling operations, where needed. The test borings were advanced using an F-10 drilling rig using hollow-stem auger drilling techniques. Test borings were first advanced using either 3¼-in. or 4¼-in. inside diameter (ID) augers, then reamed out using 6⅝-in. ID augers.

Split-spoon samples were collected approaching the water table to characterize the geology, collect sample(s) for chemical and geophysical analysis (if desired), and to more accurately assess the ground-water elevation. Split-spoon samples were also collected approaching, and into, the lower aquifer unit, where applicable, to characterize the geology and collect samples for chemical and geophysical analysis to aid in the development of a conceptual ground-water model.

Soil samples were obtained from the test borings using a 24-in. long, 2-in. outside diameter (OD) split-spoon sampler driven up to 24 in. with a 140-lb hammer free-falling 30 in. within the annulus of the augers. ADT provided the EA geologist with the number of blows required to drive the sampler each 6-in. of penetration, or inches driven before refusal was encountered. Generally, refusal was obtained after the split-spoon had been driven by more than 100 hammer-blows and had advanced less than 6 in. Following recovery, the sampler was opened and logged in accordance with the Burmister and Unified Soil Classification System to complete a detailed stratigraphic column at the boring locations.

Samples collected for laboratory analyses were placed in laboratory-prepared sample containers using stainless steel trowels. Sample containers were properly labeled, and documented following proper chain-of-custody procedures in accordance with the Supplemental Phase II RIWP (EA 2002).

The remaining soil cuttings were collected and stored in U.S. Department of Transportation approved 55-gal drums. The drums were appropriately labeled and staged onsite inside the loading bay building for later disposal.

3.3.2 Monitoring Well Installation

Well drilling permits were obtained from the Town of Brookhaven prior to drilling.

Following soil sampling, monitoring wells were installed at 6 locations by a New York State licensed well driller under the supervision of an EA geologist. Well installation procedures were in accordance with the approved Supplemental Phase II RIWP and NYSDEC protocols. The wells were completed with 2-in. ID polyvinyl chloride (PVC) screen with a slot size of 0.01-in. (10 slot) and the appropriate length of threaded PVC riser to establish a flush-mount surface.

After the appropriate completion depth was reached, the screen and riser pipe assembly was lowered into the borehole through hollow-stem augers to the appropriate depth. Screen lengths of 10-20 ft were used, based upon the intended purpose of the well. The offsite, downgradient well couplet (MW-11S and MW-11D) intended as potential sentinel wells for the upper and lower aquifer units, respectively, was installed using 20-ft well screens. The remaining wells were installed using 10-ft screens. A filter pack of No. 1 Morie sand was installed around the screen through the augers as the augers were slowly retracted, and was extended to approximately 2 ft above the screen. The formation sand was then allowed to collapse above the sand pack to act as a choker sand layer of approximately 3-5 ft above the filter pack. A cement-bentonite grout mixture was then set from the choker sand layer to ground surface. The wells were finished with locking 2-in. expandable gripper plugs and flush-mount steel covers grouted in place. Well construction diagrams are included in Appendix A.

Monitoring wells were developed using a submersible pump. The wells were surged by raising and lowering the pump through the screened interval to induce flow from the aquifer and remove fines from around the well screen and filter pack. Development continued until a sediment-free flow was obtained, and the volume of water used during drilling was evacuated. Development water was temporarily contained in a 500-gal truck-mounted polyethylene tank and transported onsite to a 4,900-gal polyethylene tank for later disposal. Development record sheets are included in Appendix B.

3.4 SURVEYING

Following well installation and development, a site survey was performed by Geod Corporation, a New York State licensed surveyor. Horizontal control for the wells was obtained to the nearest 0.1 ft. Vertical control was obtained to the nearest 0.01 ft AMSL. The elevations of ground surface, top of inner casing, and top of protective outer casing were surveyed for the wells and are included in Table 3-3.

3.5 MONITORING WELL SAMPLING

Following development, the 6 newly installed monitoring wells were allowed to equilibrate for a minimum of 14 days prior to collecting ground-water samples, pursuant to NYSDEC requirements. Sampling was performed in accordance with the approved Supplemental Phase II RIWP. Water-level measurements were collected prior to purging to assess static potentiometric

conditions and hydraulic gradient and also collected after sampling was performed to aid in the development of a ground-water model.

Wells were sampled using the U.S. Environmental Protection Agency's low-flow purge method. To avoid stirring up sediment, the submersible pump intake was set in the approximate middle of the screened interval. If there was not sufficient water, the pump was set a minimum of 3 ft above the bottom of the well, with the depth of the submersible pump noted on the field record sheet. Ground water was pumped at a rate of approximately 0.5 L/min. Pumping rates, adjustments, and water level were recorded on the field record sheet. The purge water was temporarily containerized in U.S. Department of Transportation-approved 55-gal drums in the back of a pickup truck, then transferred to a 4,900-gal polyethylene tank staged onsite to await proper disposal. The wells were not pumped dry during the Supplemental Phase II RI ground-water sampling events.

Samples were collected in appropriate laboratory-prepared sample containers. Quality assurance samples were also collected as per the Quality Assurance/Quality Control (QA/QC) requirements outlined in the Supplemental Phase II RIWP (EA 2002). Samples were labeled and placed in a chilled cooler (4°C) following proper chain-of-custody procedures.

3.6 ANALYTICAL PARAMETERS

3.6.1 Soil Samples

Soil samples collected for chemical analysis were transported via laboratory courier service to Integrated Analytical Laboratories in Randolph, New Jersey at the end of each week that sampling was conducted, and analyzed for the following parameters:

- Total Organic Carbon.

Soil samples collected for geophysical testing were transported via laboratory courier service to Princeton Geotechnical & Materials Services, LLC in Trenton, New Jersey at the end of each week that sampling was conducted, and analyzed for the following parameters:

- Bulk Density
- Void Ratio/Porosity
- Natural Moisture Content.

Analytical methodology and laboratory deliverable requirements were specified in the approved Phase II RIWP (EA 2002). The analytical methods used for analysis of soil samples collected during this investigation are presented in Table 3-4.

3.6.2 Ground-Water Samples

Ground-water samples collected for chemical analysis were transported via laboratory courier service to Integrated Analytical Laboratories in Randolph, New Jersey at the end of the week that sampling was conducted, and analyzed for total concentrations of the following metals:

- Cadmium
- Chromium
- Lead
- Mercury
- Silver.

Analytical methodology and laboratory deliverable requirements were specified in the approved Phase II RIWP (EA 2002). The analytical parameters and methods for analysis of ground-water samples collected during the investigation are presented in Table 3-4.

3.7 QUALITY ASSURANCE/QUALITY CONTROL

QA/QC procedures included, but were not limited to, proper sample receipt and handling, approved testing methods, proper equipment calibration, data reduction, and validation in the laboratory, and efficient records management.

Laboratory quality control procedures included analysis of laboratory control samples, method blanks, calibration standards, and matrix-specific spiked samples. The laboratory control sample consisted of a control matrix (analyte-free water) spiked with analytes of known concentrations representative of the target analytes. These samples were analyzed with each batch of samples (e.g., every 20 samples) to verify the precision and bias of the analytical technique. Method blanks were analyzed with each batch of samples to assess potential laboratory contamination. Calibration standards, analyzed daily, were sampled with up to three analyte standards set at varying concentrations. The response factors of the analyses must have been within a certain percentage of the standard concentration to ensure that the equipment was running properly. Other samples spiked with certain concentration of analytes and matrix spike duplicates were analyzed to ensure that the equipment was properly calibrated.

Field QC samples were handled, transported, and analyzed in the same manner as the samples to which they were associated. QA samples were also submitted for laboratory analysis in accordance with the approved Phase II RIWP (EA 2002). QA/QC samples included field blanks and duplicate samples.

3.7.1 Field Blanks

Field blank QC samples provided information on potential contamination resulting from the dedicated field equipment, or sample collection methods. Field blanks were only collected during ground-water sampling activities. Field blanks consisted of 2 sets of identical bottles; 1 filled with demonstrated analyte-free water, and 1 empty. The blank water was poured from

1 set of sample bottles over a decontaminated submersible pump, and collected in the second set of sample bottles. Field blanks were analyzed for the parameters of concern.

One field blank was collected during the November/December 2002 sampling event. The field blank was maintained onsite with the associated ground-water samples, and was shipped to the laboratory in a chilled cooler maintained at approximately 4°C.

3.7.2 Field Duplicates

A field duplicate sample was collected during the January 2002 ground-water sampling event. The duplicate sample consisted of a split sample from a designated well to assess consistency of sampling, sample homogeneity, and laboratory analytical precision. The duplicate sample was submitted to the laboratory as a blind duplicate to minimize analytical bias and to facilitate analytical precision.

The field duplicate was maintained onsite with the associated ground-water samples, and was shipped to the laboratory in a chilled cooler maintained at approximately 4°C.

4. RESULTS

This chapter presents the results of the field activities performed during the installation of 6 monitoring wells at the Peerless Photo Products Site from 14 October to 6 December 2002. Well construction details are summarized in Table 3-1. Soil sampling location details are provided in Table 3-2. Laboratory analytical and geophysical results are presented in Table 4-1. Analytical results for ground-water samples collected during the Supplemental Phase II RI field work are summarized in Tables 4-2A and 4-2B. Well construction diagrams for the 6 wells are provided in Appendix A. Well development records and purge data sheets are provided in Appendix B. Soil boring logs are presented in Appendix C. Soil and ground-water results from the analytical laboratory report (Form Is) are included in Appendixes D and E, respectively. Chains-of-custody are provided in Appendix F.

The following sections provide a brief discussion summarizing the installation of the 6 monitoring wells.

4.1 SOIL RESULTS

4.1.1 MW-10D

During the installation of MW-10D, split-spoon samples were collected approaching the water table to characterize the geology and to more accurately assess the ground-water elevation. Ground water was encountered at approximately 112 ft bgs during drilling. The geology surrounding the water table consisted primarily of medium to very fine sand, with traces of fine sub-rounded quartz gravel.

Several attempts were made to collect a representative soil sample from the lower aquifer unit to aid in the development of a conceptual ground-water model; however, due to heaving sands filling the annulus of the augers, a soil sample could not be collected for analysis. Based upon a change in drilling conditions and limited soil recoveries obtained from split-spoon samples approaching the lower aquifer unit, the top of the lower aquifer unit was estimated to begin at approximately 151 ft bgs. The geology of the lower aquifer unit in this area, based upon limited split-spoon recoveries approaching the top of the unit, is estimated to be primarily fine gravel and coarse sand.

Due to heaving sands while drilling at depth, no soil samples were collected for laboratory testing for geotechnical or chemical parameters.

4.1.2 MW-11S

During the installation of MW-11S, split-spoon samples were collected approaching the water table to characterize the geology and to more accurately assess the ground-water elevation. During drilling of MW-11S, wet cuttings began to surface at approximately 71 ft bgs, well before the expected depth of ground water (estimated to be deeper than 120 ft bgs). However, there was no measurable water at the bottom of the hole when measured with an electronic water

level indicator. In an attempt to characterize the geology, split-spoon samples were collected from 71 to 76 ft bgs, then every 5 ft to approximately 149 ft bgs. A perched water table was encountered at approximately 87 ft bgs. The geology overlying this perched water table consisted of primarily very fine sand and traces of silt down to approximately 93.5 ft bgs. The geology from 93.5 to 98 ft bgs consisted of primarily silt with traces of very fine sand. The geology from 98 to 149 ft bgs consisted of primarily medium to very fine sand. The actual ground water table was encountered at approximately 141 ft bgs.

During the installation of MW-11S, 1 soil sample was collected in the upper aquifer unit from 148.5-149 ft bgs and submitted for chemical and geophysical analysis as discussed in Section 3.6.1. Laboratory analytical and geophysical results are presented in Table 4-1.

4.1.3 MW-11D

During the installation of MW-11D, split-spoon samples were not collected approaching the water table because a detailed geologic description was logged at the adjacent well location MW-11S. Due to the difficulties in trying to collect a soil sample at depth (e.g., beyond 150 or 160 ft) as encountered during drilling of MW-10D, smaller 3¼ -in. ID augers were used during the initial drilling of this well.

Furthermore, only two attempts were made to collect a split-spoon sample for fear of heaving sands running up inside the augers. Based upon a change in drilling conditions noted by the driller, the top of the lower aquifer unit was estimated to begin around 185 ft bgs.

One soil sample was collected in the lower aquifer unit from 200-204 ft bgs and submitted for chemical and geophysical analysis as discussed in Section 3.6.1. The geology from 200-204 ft bgs consisted of primarily coarse sand with some fine rounded quartz gravel.

Upon retracting the 3¼ -in. ID augers from the hole, an auger snapped, resulting in numerous augers stuck in the ground. After assessing the situation, it was determined that approximately 117 ft of 3¼ -in. ID augers were stuck in the ground from roughly 24 to 141 ft bgs. Unfortunately, because the augers did not fail at a connection point (where subsequent 5-ft lengths of augers are bolted together), these augers could not be reasonably retrieved. Therefore, this location was abandoned by filling the hole with cement-bentonite grout to the surface, and MW-11D was moved 3-4 ft to the east.

Laboratory analytical and geophysical results are presented in Table 4-1.

4.1.4 TW-1

During the installation of TW-1, split-spoon samples were collected approaching the water table to characterize the geology and to more accurately assess the ground-water elevation. Ground water was encountered at approximately 112 ft bgs during drilling. The geology surrounding the water table consisted primarily of medium to very fine sand, with traces of fine sub-rounded quartz gravel.

During the installation of TW-1, 3 soil samples were collected in the upper aquifer unit from 113-114 ft bgs, 118-119 ft bgs, and 126-127 ft bgs, and submitted for chemical and geophysical analysis as discussed in Section 3.6.1. Laboratory analytical and geophysical results are presented in Table 4-1.

4.1.5 TW-2

During the installation of TW-2, split-spoon samples were collected approaching the water table to characterize the geology and to more accurately assess the ground-water elevation. Ground water was encountered at approximately 111.5 ft bgs during drilling. The geology surrounding the water table consisted primarily of medium to very fine sand, with traces of fine sub-rounded quartz gravel.

During the installation of TW-2, 3 soil samples were collected in the upper aquifer unit from 113.5-114 ft bgs, 118.5-119 ft bgs, and 125-125.5 ft bgs, and submitted for chemical and geophysical analysis as discussed in Section 3.6.1. Laboratory analytical and geophysical results are presented in Table 4-1.

4.1.6 TW-3

During the installation of TW-3, split-spoon samples were collected approaching the water table to characterize the geology and to more accurately assess the ground-water elevation. Ground water was encountered at approximately 110.5 ft bgs during drilling. The geology surrounding the water table consisted primarily of medium to very fine sand, with traces of fine sub-rounded quartz gravel.

During the installation of TW-3, 3 soil samples were collected in the upper aquifer unit from 111.5-112 ft bgs, 118-118.5 ft bgs, and 123.5-124 ft bgs and submitted for chemical and geophysical analysis as discussed in Section 3.6.1. Laboratory analytical and geophysical results are presented in Table 4-1.

4.2 GROUND-WATER RESULTS

Prior to ground-water sampling activities, the water levels were gauged and recorded in the field logbook. Ground-water contour maps from the January 2002 and November/December 2002 sampling events are presented as Figures 2-1 and 2-2, respectively.

Prior to the installation of the 6 new monitoring wells discussed in this report, a full round of ground-water sampling was conducted in January 2002. After the installation of the 6 new monitoring wells, a full round of sampling (including the newly installed wells) was performed in November/December 2002. Ground-water analytical results from samples collected during these 2 rounds are presented in Table 4-2A and Table 4-2B, respectively. Historical ground-water analytical results from pre-existing onsite and offsite wells are presented in Table 4-3 and Figure 4-1. A brief discussion of the ground-water results from the 6 newly installed wells and pre-existing wells is presented below. The discussion will focus primarily on

the data collected during the most recent round of ground-water sampling in November/December 2002 (Table 4-2B).

4.2.1 Onsite

Cadmium was reported at concentrations that exceed the NYSDEC Ambient Water Quality Standard, in 3 onsite wells during the November/December 2002 sampling event (Table 4-2B). These 3 onsite wells (MW-6, TW-2, and MW-10) are in a straight line along the apparent ground-water flow direction from the Tesla Tower Base (MW-6) downgradient to TW-2 and MW-10. Cadmium concentrations from wells upgradient (MW-1) and sidegradient (TW-1, TW-3, and MW-9) of the Tesla Tower Base were either below method detection limits (MDLs), or reported below the NYSDEC Ambient Water Quality Standard. Chromium was detected in one well (MW-2) at a concentration in excess of the NYSDEC Ambient Water Quality Standard. No other metals were detected at concentrations exceeding their respective NYSDEC Ambient Water Quality Standards.

Although cadmium was reported above the NYSDEC Ambient Water Quality Standard in MW-10, cadmium concentrations were not detected above the MDL of 1 µg/L (Table 4-2B) in MW-10D, confirming that ground water in the lower aquifer unit onsite is not impacted with cadmium above the NYSDEC Ambient Water Quality Standard.

4.2.2 Offsite

Of the five metals (cadmium, chromium, lead, mercury, and silver) analyzed for total metal concentrations, only cadmium was reported above the NYSDEC Ambient Water Quality Standard in 3 offsite wells during the November/December 2002 sampling event (Table 4-2B). These 3 wells (MW-2, MW-3, and MW-4) are located within approximately 300 ft downgradient of the site's north property boundary. Of these 3 wells, the highest cadmium concentration was reported in MW-2, located directly downgradient from 3 onsite wells with reported cadmium concentrations above the NYSDEC Ambient Water Quality Standard. Wells located further downgradient (MW-7S, MW-8S, and MW-11S) featured reported cadmium concentrations well below the NYSDEC Ambient Water Quality Standard.

Ground-water samples collected from offsite wells in the lower aquifer unit (MW-2A, MW-7D, and MW-10D) contained cadmium at concentrations well below the Ambient Water Quality Standard. This strongly suggests that ground water in the lower aquifer unit offsite is not impacted with cadmium above the NYSDEC Ambient Water Quality Standard.

5. CONCLUSIONS AND RECOMMENDATIONS

As discussed in Section 1, the primary objectives of the Supplemental Phase II RI are as follows:

- Delineation of cadmium concentrations in excess of the SCG of 5 ppb in ground water downgradient of MW-7S
- Assessment of cadmium concentrations in the lower portion of the aquifer, particularly onsite
- Collection of geotechnical data for soils and additional ground-water data between MW-6 and MW-10 for use in development of the ground-water model.

Geotechnical data was collected to assist modeling efforts only; no conclusions or recommendations related to geotechnical data are included in this report. Based on the ground-water analytical data obtained during the Supplemental Phase II RI, the following conclusions relative to the RI objectives and concentration trends are made.

- No constituents were detected at concentrations in excess of the NYSDEC Ambient Water Quality Standards in monitoring wells MW-11S and MW-11D. The MW-11 couplet is suitable for use as a downgradient sentinel location.
- As noted in Section 4, cadmium was detected in only 1 of 4 lower-aquifer monitoring wells (MW-2A) at a concentration of 1.6 ppb, well below the SCG of 5 ppb. Table 4-3 summarizes historical ground-water monitoring data for each of the monitoring wells at the site. With the exception of samples collected from MW-2A during July 1996 and May 1997, none of the 4 wells screened in the lower layer (MW-2A, MW-7D, MW-10D, MW-11D) have exhibited concentrations of cadmium in excess of the SCG. As such, impacts do not appear to extend to the lower layer of the aquifer. While these wells may be included in future monitoring events, further investigation of the lower layer (i.e., additional monitoring wells) is not warranted at this time.
- Concentrations of cadmium were highest at locations extending directly downgradient from the Tesla Tower Base to North Country Road, including MW-6, TW-2, MW-10, and MW-2 in sequence. As noted in Table 4-2B, cadmium concentrations in the existing monitoring wells during the current monitoring event were generally consistent with past monitoring events with the following exceptions:
 - Cadmium was detected at concentrations ranging from 30 to 36 ppb in MW-7S during 2001 and January 2002. Cadmium was detected in MW-7S at a concentration of 2.92 ppb in December 2002, below the SCG. Should subsequent sampling events indicate cadmium concentrations at MW-7S consistently below SCG, resumption of use of the MW-7 couplet as a downgradient sentinel location may be warranted.

- Concentrations of cadmium in laterally-located TW-1 and TW-3 did not contain cadmium in excess of the SCG. Likewise, although MW-3 and MW-4, located west and east, respectively, of MW-2 exhibited cadmium concentrations that slightly exceed the SCG, the significant decrease in concentration away from the MW-6 to MW-2 centerline indicates that the lateral extent of cadmium in ground water is limited.
- With the exception of cadmium in several wells and chromium in MW-2, none of the constituents were detected at concentrations that approach or exceed their respective NYSDEC Ambient Water Quality Standards. As noted in Table 4-3, concentrations of metals other than cadmium have been fairly consistent over time and have remained below NYSDEC Ambient Water Quality Standards with few exceptions. In light of historically low concentrations in ground water, elimination of these metals (chromium, lead, mercury, and silver) from future ground-water monitoring events is recommended.
 - Upgradient monitoring well MW-5 has not been sampled since 1997, because location of the well in the field has not been possible. During recent field activities, EA worked with our surveying subcontractor to approximate the location of MW-5. Our investigation indicates that MW-5 was covered with concrete during installation of a sidewalk along Port Jefferson-Riverhead Road at some time prior to 2001. Because MW-5 is located upgradient of historically impacted areas, and is similar in location and function to MW-1, replacement of MW-5 is not warranted at this time.

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EA Engineering, Science, and Technology, Inc. 2002. Supplemental Remedial Investigation Work Plan. September.

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GT Engineering, P.C. 1998. Phase 2 Remedial Investigation Report. March.

IT Corporation. 1999. Preliminary Investigation Results Report. December.

Tables

TABLE 2-1 WELL GAUGING DATA
17 JANUARY 2002

Well No.	Inner Casing Elevation (NAD 88)	Depth to Water (ft btoc)	Water Table Elevation (ft AMSL)
MW-1	140.00	109.30	30.7
MW-2	150.59	121.94	28.65
MW-2A	149.82	120.01	29.81
MW-3	145.76	NA	NA
MW-4	142.09	112.38	29.71
MW-5	139.81	NA	NA
MW-6	139.25	108.50	30.75
MW-7S	184.61	156.07	28.54
MW-7D	183.15	154.48	28.67
MW-8S	150.26	120.54	29.72
MW-9	134.08	104.02	30.06
MW-10	139.62	109.41	30.21
MW-10D	138.64	NA	NA
MW-11S	163.95	NA	NA
MW-11D	164.05	NA	NA
TW-1	140.59	NA	NA
TW-2	140.41	NA	NA
TW-3	139.61	NA	NA

NOTE: NA = Not Available
NAVD 88 = North American Vertical Datum of 1988
btoc = below top of casing
AMSL = Above Mean Sea Level
MW-5 could not be located

TABLE 2-2 WELL GAUGING DATA
22 NOVEMBER 2002

Well No.	Inner Casing Elevation (NAD 88)	Depth to Water (ft btoc)	Water Table Elevation (ft AMSL)
MW-1	140.00	112.15	27.85
MW-2	150.59	123.72	26.87
MW-2A	149.82	123.13	26.69
MW-3	145.76	118.77	26.99
MW-4	142.09	113.05	29.04
MW-5	139.81	NA	NA
MW-6	139.25	111.38	27.87
MW-7S	184.61	159.05	25.56
MW-7D	183.15	157.45	25.70
MW-8S	150.26	123.33	26.93
MW-9	134.08	106.82	27.26
MW-10	139.62	112.23	27.39
MW-10D	138.64	112.55	26.09
MW-11S	163.95	140.00	23.95
MW-11D	164.05	140.15	23.90
TW-1	140.59	113.86	26.73
TW-2	140.41	113.76	26.65
TW-3	139.61	112.90	26.71

NOTE: N/A = Not Available
NAVD 88 = North American Vertical Datum of 1988
btoc = below top of casing
AMSL = Above Mean Sea Level
MW-5 could not be located

TABLE 2-3 WELL GAUGING DATA
4 DECEMBER 2002

Well No.	Inner Casing Elevation (NAD 88)	Depth to Water (ft btoc)	Water Table Elevation (ft AMSL)
MW-1	140.00	112.26	27.74
MW-2	150.59	123.81	26.78
MW-2A	149.82	123.25	26.57
MW-3	145.76	118.88	26.88
MW-4	142.09	115.29	26.80
MW-5	139.81	NA	NA
MW-6	139.25	111.45	27.80
MW-7S	184.61	159.26	25.35
MW-7D	183.15	157.64	25.51
MW-8S	150.26	123.41	26.85
MW-9	134.08	106.87	27.21
MW-10	139.62	112.31	27.31
MW-10D	138.64	112.62	26.02
MW-11S	163.95	140.30	23.65
MW-11D	164.05	140.45	23.60
TW-1	140.59	113.96	26.63
TW-2	140.41	113.84	26.57
TW-3	139.61	112.98	26.63

NOTE: N/A = Not Available
NAVD 88 = North American Vertical Datum of 1988
btoc = below top of casing
AMSL = Above Mean Sea Level
MW-5 could not be located

TABLE 3-1 WELL CONSTRUCTION DETAILS

Well No.	Date Completed	Total Depth (ft bgs)	Screen Length (ft)	Screened Interval (ft bgs)	Casing Interval (4-in.)
MW-10D	10/21/02	179	10	169-179	0-169
MW-11S	11/6/02	172	20	152-172	0-152
MW-11D	11/20/02	220	20	200-220	0-200
TW-1	10/24/02	127	10	117-127	0*-117
TW-2	10/30/02	127	10	117-127	0*-117
TW-3	10/28/02	126	10	116-126	0*-126

NOTE: ft bgs = Feet below ground surface.
* = The casings stick up approximately 1.5-2 ft above ground surface

TABLE 3-2 SOIL SAMPLING LOCATION DETAILS

Boring Location	Date Completed	Total Depth (ft bgs)	Sampling Intervals (ft bgs)		
			First	Second	Third
MW-10D	10/21/02	179	---	---	---
MW-11S	11/6/02	172	148.5-149	---	---
MW-11D	11/20/02	220	200-204	---	---
TW-1	10/24/02	127	113-114	118-119	126-127
TW-2	10/30/02	127	113.5-114	118.5-119	125-125.5
TW-3	10/28/02	126	111.5-112	118-118.5	123.5-124

NOTE: ft bgs = Feet below ground surface.
Dashes (---) indicate no analytical soil sample collected.

TABLE 3-3 WELL SURVEY INFORMATION

Well No.	Northing (NAD 83)	Easting (NAD 83)	Ground Elevation (NAVD 88)	PVC Inner Casing Elevation (NAVD 88)	Outer Protective Casing Elevation (NAVD 88)
MW-10D	286855.12	1288657.39	138.90	138.64	138.91
MW-11S	289547.73	1289242.52	164.08	163.95	164.16
MW-11D	289551.07	1289249.68	164.23	164.05	164.26
TW-1	286556.69	1288477.81	138.92	140.59	N/A
TW-2	286525.09	1288633.68	137.85	140.41	N/A
TW-3	286504.28	1288751.65	136.76	139.61	N/A

NOTE: N/A = Not Applicable
NAD 83 = North American Datum of 1983
NAVD 88 = North American Vertical Datum of 1988
Surveying information based on survey conducted by Geod Corporation on 12/6/02

TABLE 3-4 ANALYTICAL PARAMETERS AND METHODS FOR
SOIL AND GROUND-WATER SAMPLES

SOIL	
Analyte	Method
Total Organic Carbon	EPA 415.1
Bulk Density	ASTM D2937
Void Ratio/Porosity	N/A
Natural Moisture Content	ASTM D2216
NOTE: EPA = U.S. Environmental Protection Agency. ASTM = American Society for Testing and Materials N/A = Not Applicable	

GROUND WATER	
Analyte	Method
Cadmium, Chromium, Lead, Silver (total metals)	EPA 200.8
Mercury (total)	EPA 245.1
NOTE: EPA = U.S. Environmental Protection Agency.	

TABLE 4-1 SOIL CHEMICAL AND GEOTECHNICAL RESULTS
 PEERLESS PHOTO PRODUCTS SITE
 SHOREHAM, NEW YORK
 OCTOBER TO NOVEMBER 2002

Sample ID	Sample Depth (ft bgs)	TOC (ppm)	Bulk Density (pcf)	Natural Moisture Content (%)	Voids Ratio (e)	Porosity (n)
MW-10D	NS	NS	NS	NS	NS	NS
MW-11S	148.5 - 149	ND	114.6	19.5	0.73	0.42
MW-11D	200 - 204	ND	134.5	16.4	0.43	0.30
TW-1A	113 - 114	ND	114.9	24.2	0.79	0.44
TW-1B	118 - 119	ND	117.5	17.8	0.66	0.40
TW-1C	126 - 127	276	128.4	10.4	0.42	0.30
TW-2A	113.5 - 114	ND	111.5	18.6	0.76	0.43
TW-2B	118.5 - 119	ND	116.0	23.1	0.76	0.43
TW-2C	125 - 125.5	433	127.5	10.9	0.44	0.30
TW-3A	111.5 - 112	ND	96.9	27.7	1.17	0.54
TW-3B	118 - 118.5	ND	117.4	12.6	0.59	0.37
TW-3C	123.5 - 124	241	129.3	11.3	0.42	0.30

Notes :

Specific Gravity was assumed to be equal to 2.65

NS = Not Sampled

ND = Not Detected

bgs = below ground surface

pcf = pounds per cubic foot

ppm = parts per million

TABLE 4-2A GROUND-WATER ANALYTICAL RESULTS
 PEERLESS PHOTO PRODUCTS SITE
 SHOREHAM, NEW YORK
 JANUARY 2002

Analyte	NYSDEC Ambient Water Quality Standards	Well ID											
		MW-1	MW-2	MW-2A*	MW-3	MW-4	MW-5	MW-6	MW-7S	MW-7D*	MW-8S	MW-9	MW-10
Cadmium	5	1 U	80 U	1 U	11 U	2.6 U	NS	36 U	30 U	1.4 U	1 U	11 U	57 U
Chromium	50	8 U	8 U	8 U	8 U	20 U	NS	8 U	15 U	8 U	8.6 U	8 U	8 U
Lead	25	2 U	2 U	2 U	2 U	4.3 U	NS	2 U	2.1 U	2 U	3.7 U	2 U	2 U
Mercury	0.7	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	NS	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
Silver	50	2 U	2 U	2 U	2 U	2 U	NS	2 U	2 U	2 U	2 U	2 U	2 U

Notes :

Analytical results are reported in ug/L.

Shaded areas indicate results were reported above NYSDEC Class GA Ground Water Quality Criteria.

U - Indicates the compound was analyzed for but undetected at the Method Detection Limit.

NS - Not sampled. MW-05 could not be located during this sampling event.

* - Samples were collected using the standard purge method A14.

TABLE 4-2B GROUND-WATER ANALYTICAL RESULTS
 PEERLESS PHOTO PRODUCTS SITE
 SHOREHAM, NEW YORK
 NOVEMBER/DECEMBER 2002

Analyte	Public Water System Maximum Contaminant Levels	NYSDEC Ambient Water Quality Standards	Well ID									
			MW-1	MW-2	MW-2A	MW-3	MW-4	MW-5	MW-6	MW-7S	MW-7D	
Cadmium	5	5	U	79.8	1.6	13.5	12.3	7.67	NS	2.92	1	U
Chromium	100	50	8.83	72.3	32.7	19	20.9	10.4	NS	18.4	20.3	U
Lead	15	25	2	U	5.56	2.19	2	2	NS	2	2	U
Mercury	2	0.7	0.5	U	0.5	0.5	0.5	0.5	NS	0.5	0.5	U
Silver	100	50	2	U	2	2	2	2	NS	2	2	U

Analyte	Public Water System Maximum Contaminant Levels	NYSDEC Ambient Water Quality Standards	Well ID									
			MW-8S	MW-9	MW-10	MW-10D	MW-11S	MW-11D	TW-1	TW-2	TW-3	
Cadmium	5	5	U	U	51.9	1	U	1	U	3.65	1	U
Chromium	100	50	11.1	17.5	16	8.14	13.4	10.7	10.7	13.9	24.1	11.7
Lead	15	25	2	U	2	2	2	2	2	2	2	2
Mercury	2	0.7	0.5	U	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5
Silver	100	50	2	U	2	2	2	2	2	2	2	2

Notes :

Analytical results reported in ug/L.

Shaded areas indicate results were reported above NYSDEC Class GA Ground Water Quality Criteria.

U - Indicates the compound was analyzed for but undetected at the Method Detection Limit.

NS - Not sampled. MW-05 could not be located during this sampling event.

TABLE 4-2A GROUND-WATER ANALYTICAL RESULTS
 PEERLESS PHOTO PRODUCTS SITE
 SHOREHAM, NEW YORK
 JANUARY 2002

Analyte	Public Water System Maximum Contaminant Levels	NYSDEC Ambient Water Quality Standards	Well ID											
			MW-1	MW-2	MW-2A*	MW-3	MW-4	MW-5	MW-6	MW-7S	MW-7D*	MW-8S	MW-9	MW-10
Cadmium	5	5	1 U	80 U	1 U	11 U	2.6 U	NS	36 U	30 U	1.4 U	1 U	11 U	57 U
Chromium	100	50	8 U	8 U	8 U	8 U	20 U	NS	8 U	15 U	8 U	8.6 U	8 U	8 U
Lead	15	25	2 U	2 U	2 U	2 U	4.3 U	NS	2 U	2.1 U	2 U	3.7 U	2 U	2 U
Mercury	2	0.7	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	NS	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
Silver	100	50	2 U	2 U	2 U	2 U	2 U	NS	2 U	2 U	2 U	2 U	2 U	2 U

Notes :
 Analytical results are reported in ug/L.
 Shaded areas indicate results were reported above NYSDEC Class GA Ground Water Quality Criteria.
 U - Indicates the compound was analyzed for but undetected at the Method Detection Limit.
 NS - Not sampled. MW-05 could not be located during this sampling event.
 * - Samples were collected using the standard purge method A14.

TABLE 4-2A GROUND-WATER ANALYTICAL RESULTS
 PEERLESS PHOTO PRODUCTS SITE
 SHOREHAM, NEW YORK
 JANUARY 2002

Analyte	Public Water System Maximum Contaminant Levels	NYSDEC Ambient Water Quality Standards	Well ID										
			MW-1	MW-2	MW-2A*	MW-3	MW-4	MW-5	MW-6	MW-7S	MW-7D*	MW-8S	MW-9
Cadmium	5	5	1 U	80 U	1 U	11 U	2.6 U	NS	36 U	1.4 U	1 U	11 U	57 U
Chromium	100	50	8 U	8 U	8 U	8 U	20 U	NS	8 U	8 U	8.6 U	8 U	8 U
Lead	15	25	2 U	2 U	2 U	2 U	4.3 U	NS	2 U	2 U	2 U	2 U	2 U
Mercury	2	0.7	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	NS	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
Silver	100	50	2 U	2 U	2 U	2 U	2 U	NS	2 U	2 U	2 U	2 U	2 U

Notes :
 Analytical results are reported in ug/L.
 Shaded areas indicate results were reported above NYSDEC Class GA Ground Water Quality Criteria.
 U - Indicates the compound was analyzed for but undetected at the Method Detection Limit.
 NS - Not sampled. MW-05 could not be located during this sampling event.
 * - Samples were collected using the standard purge method A14.

TABLE 4-2B GROUND-WATER ANALYTICAL RESULTS
 PEERLESS PHOTO PRODUCTS SITE
 SHOREHAM, NEW YORK
 NOVEMBER/DECEMBER 2002

Analyte	Public Water System Maximum Contaminant Levels	NYSDEC Ambient Water Quality Standards	Well ID									
			MW-1	MW-2	MW-2A	MW-3	MW-4	MW-5	MW-6	MW-7S	MW-7D	
Cadmium	5	5	1 U	79.8	1.6	13.5	12.3	7.67	2.92	1 U	U	
Chromium	100	50	8.83	72.3	32.7	19	20.9	10.4	18.4	20.3	U	
Lead	15	25	2 U	2 U	5.56	2.19	2 U	2 U	2 U	2 U	U	
Mercury	2	0.7	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	U	
Silver	100	50	2 U	2 U	2 U	2 U	2 U	2 U	2 U	2 U	U	

Analyte	Public Water System Maximum Contaminant Levels	NYSDEC Ambient Water Quality Standards	Well ID										
			MW-8S	MW-9	MW-10	MW-10D	MW-11S	MW-11D	TW-1	TW-2	TW-3		
Cadmium	5	5	1 U	1 U	51.9	1 U	1 U	1 U	1 U	1 U	3.65	24.1	1 U
Chromium	100	50	11.1	17.5	16	8.14	13.4	13.9	10.7	12	11.7	11.7	U
Lead	15	25	2 U	2 U	2 U	2 U	2 U	2 U	2 U	2 U	2 U	2 U	U
Mercury	2	0.7	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	U
Silver	100	50	2 U	2 U	2 U	2 U	2 U	2 U	2 U	2 U	2 U	2 U	U

Notes :
 Analytical results reported in ug/L.
 Shaded areas indicate results were reported above NYSDEC Class GA Ground Water Quality Criteria.
 U - Indicates the compound was analyzed for but undetected at the Method Detection Limit.
 NS - Not sampled. MW-05 could not be located during this sampling event.

TABLE 4-3
 SUMMARY OF HISTORICAL GROUND-WATER ANALYTICAL RESULTS FOR MW-1
 PEERLESS PHOTO PRODUCTS SITE
 SHOREHAM, NEW YORK

Analyte	NYSDEC Ambient Water Quality Standards	Drinking Water MCL	Date Sampled														
			8/15/1994	11/29/1994	3/28/1996	7/17/1996	5/28/1997	2/13/2001	1/21/2002	11/21/2002	Standard	Standard	Standard	Low Flow			
Cadmium	5	5	4.8 J	<3.0 U	<1 U	<1 U	0.5 U	0.5 U	<0.5 U	<1 U	<1 U	<1 U	<1 U	<1 U	<1 U	<1 U	<1 U
Chromium	50	100	18.6	21	64	6.7 B	16.5 B	10.5	10.5	10.5	10.5	10.5	10.5	10.5	10.5	10.5	8.83
Lead	25	15	29.8	34 J	14.4	4.6 J	6.2 J	3.4	3.4	3.4	3.4	3.4	3.4	3.4	3.4	3.4	<2
Mercury	0.7	2	<0.24 U	<0.24 U	0.19 J	<0.08 U	0.06 U	0.06 U	<0.1 U	<0.1 U	<0.1 U	<0.1 U	<0.1 U	<0.1 U	<0.1 U	<0.1 U	<0.5
Silver	50	100	<2 U	<2 U	1.5 B	1.2 B	2 U	2 U	<2.4 U	<2.4 U	<2.4 U	<2.4 U	<2.4 U	<2.4 U	<2.4 U	<2.4 U	<2
pH			--	--	--	--	--	--	--	--	--	--	--	--	--	--	--

Notes :
 Analytical results are reported in ug/L.
 Shaded areas indicate results were reported above NYSDEC Class GA Ground Water Quality Criteria.
 U - Indicates the compound was analyzed for but undetected at the Method Detection Limit.

TABLE 4-3 (CONTINUED)
 SUMMARY OF HISTORICAL GROUND-WATER ANALYTICAL RESULTS FOR MW-2
 PEERLESS PHOTO PRODUCTS SITE
 SHOREHAM, NEW YORK

Analytic	NYSDEC Ambient Water Quality	Drinking Water MCL	Date Sampled												
			8/15/1994	11/29/1994	3/26/1996	7/16/1996	5/29/1997	2/13/2001	1/21/2002	11/21/2002	Standard	Standard	Low Flow	Low Flow	
Cadmium	5	5	135	107 J	115	84.7	150	77.1	76	80	79.8	U	U	U	U
Chromium	50	100	<11.1 U	8.9 B	17.8	7.7 B	18.9	27.8	<8 U	<8 U	72.3	U	U	U	U
Lead	25	15	<20.3 U	<10.2 U	7.4	3 J	15.8	4.4	<2 U	<2 U	,2	U	U	U	U
Mercury	0.7	2	<0.24 U	<0.24 U	0.15	<0.08 U	0.06 U	<0.1 U	<0.5 U	<0.5 U	<0.5	U	U	U	U
Silver	50	100	3 J	<2 U	1.2 B	<1 U	2 U	<2.3 U	<2 U	<2 U	<2	U	U	U	U
pH			--	--	--	--	--	--	5.6	--	--	--	--	--	--

Notes :

Analytical results are reported in ug/L.

Shaded areas indicate results were reported above NYSDEC Class GA Ground Water Quality Criteria.

U - Indicates the compound was analyzed for but undetected at the Method Detection Limit.

TABLE 4-3 (CONTINUED)
 SUMMARY OF HISTORICAL GROUND-WATER ANALYTICAL RESULTS FOR MW-2A
 PEERLESS PHOTO PRODUCTS SITE
 SHOREHAM, NEW YORK

Analyte	NYSDEC Ambient Water Quality Standards	Drinking Water MCL	Date Sampled																		
			8/17/1994		12/1/1994		3/28/1996		7/18/1996		5/30/1997		2/14/2001		1/18/2002		11/21/2002				
			Standard	Standard	Standard	Standard	Standard	Standard	Standard	Standard	Standard	Standard	Standard	Standard	Standard	Standard	Standard	Low Flow			
Cadmium	5	5	3.4 J	6.2 J	5.1 J	8.8 J	8.8 J	10 J	0.68 B	<1 U	7.9	1.6	8.6 B	7.7 B	<3.6 U	<4 U	5.1 B	<2.1 U	<8 U	<8 U	32.7
Chromium	50	100	<11.2 U	<7.4 U	<2 U	2.1 J	2.1 J	4.7	<2.6 U	<2 U	6.7	5.56	<0.24 U	<0.24 U	<0.15 U	<0.08 U	0.06 U	<0.1 U	<0.5 U	<0.5 U	5.56
Lead	25	15	2.5 J	<2 U	<1 U	1.2 B	1.2 B	2 U	<2.3 U	<2 U	<2 U	<2 U	<0.24 U	<2 U	<2 U	<2 U	2 U	<2.3 U	<2 U	<2 U	<2 U
Mercury	0.7	2	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Silver	50	100	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
pH																					

Notes :

Analytical results are reported in ug/L.

Shaded areas indicate results were reported above NYSDEC Class GA Ground Water Quality Criteria.

U - Indicates the compound was analyzed for but undetected at the Method Detection Limit.

TABLE 4-3 (CONTINUED)
 SUMMARY OF HISTORICAL GROUND-WATER ANALYTICAL RESULTS FOR MW-3
 PEERLESS PHOTO PRODUCTS SITE
 SHOREHAM, NEW YORK

Analyte	NYSDEC Ambient Water Quality Standards	Drinking Water MCL	Date Sampled															
			8/15/1994		11/29/1994		3/26/1996		7/16/1996		5/29/1997		2/13/2001		1/21/2002		11/21/2002	
			Standard	Result	Standard	Result	Standard	Result	Standard	Result	Standard	Result	Standard	Result	Standard	Result	Standard	Result
Cadmium	5	5	11.2 J	17.3 J	<15.9 U	13.4 U	18.4 U	13.8 U	11 U	11 U	13.5 U	11 U	11 U	11 U	11 U	11 U	13.5 U	
Chromium	50	100	<6.4 U	2.1 B	<3.5 U	<4 U	3.5 B	7.2 B	<8 U	<8 U	19 U	<8 U	<8 U	<8 U	<8 U	<8 U	19 U	
Lead	25	15	<28.3 U	<20.4 U	5.3 U	3.8 J	9 U	16.1 U	<2 U	<2 U	2.19 U	8.1 U	<2 U	8.1 U	<2 U	8.1 U	2.19 U	
Mercury	0.7	2	<0.24 U	<0.24 U	<0.15 U	<0.08 U	0.06 U	<0.1 U	<0.5 U	<0.5 U	<0.5 U	<0.5 U	<0.5 U	<0.5 U	<0.5 U	<0.5 U	<0.5 U	
Silver	50	100	2 K	<2 U	<1 U	<1 U	2 U	<2.5 U	<2 U	<2 U	<2 U	<2 U	<2 U	<2 U	<2 U	<2 U	<2 U	
pH			--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	

Notes :

Analytical results are reported in ug/L.

Shaded areas indicate results were reported above NYSDEC Class GA Ground Water Quality Criteria.

U - Indicates the compound was analyzed for but undetected at the Method Detection Limit.

TABLE 4-3 (CONTINUED)
 SUMMARY OF HISTORICAL GROUND-WATER ANALYTICAL RESULTS FOR MW-4
 PEERLESS PHOTO PRODUCTS SITE
 SHOREHAM, NEW YORK

Analyte	NYSDEC Ambient Water Quality Standards	Drinking Water MCL	Date Sampled											
			8/17/1994	11/30/1994	3/29/1996	7/17/1996	5/30/1997	2/14/2001	1/18/2002		11/21/2002			
			Standard	Standard	Standard	Standard	Standard	Standard	Standard	Standard	Standard	Standard	Low Flow	Low Flow
Cadmium	5	5	30.8	12.8 J	2.6 B	10.9	36.8	16.4	3	2.6	12.3	2.6	12.3	12.3
Chromium	50	100	<2 U	2.4 B	<2.4 U	<4 U	1.8	3.2 B	<8 U	20	20.9	20	20.9	20.9
Lead	25	15	<1.6 U	<4.3 U	<2 U	<2 U	2.5 B	<2.6 U	<2 U	4.3	<2 U	4.3	<2 U	<2 U
Mercury	0.7	2	<0.24 U	<0.24 U	0.15	<0.08 U	0.06 U	<0.1 U	<0.5 U	<0.5 U	<0.5 U	<0.5 U	<0.5 U	<0.5 U
Silver	50	100	<2 U	<2 U	1 B	<1 U	2 U	<2.3 U	<2 U	<2 U	<2 U	<2 U	<2 U	<2 U
pH			--	--	--	--	--	--	5.6	--	--	--	--	--

Notes :
 Analytical results are reported in ug/L.
 Shaded areas indicate results were reported above NYSDEC Class GA Ground Water Quality Criteria.
 U - Indicates the compound was analyzed for but undetected at the Method Detection Limit.

TABLE 4-3 (CONTINUED)
 SUMMARY OF HISTORICAL GROUND-WATER ANALYTICAL RESULTS FOR MW-5
 PEERLESS PHOTO PRODUCTS SITE
 SHOREHAM, NEW YORK

Analyte	NYSDEC Ambient Water Quality Standards	Drinking Water MCL	Date Sampled													
			8/15/1994	11/29/1994	3/28/1996	7/16/1996	5/28/1997	2/13/2001	1/21/2002		11/21/2002					
			Standard	Standard	Standard	Standard	Standard	Standard	Standard	Standard	Standard	Low Flow	Standard	Low Flow	Standard	Low Flow
Cadmium	5	5	3.9 J	<3 U	<1 U	<1 U	<1 U	2.9 B	NS	NS	NS	NS	NS	NS	NS	NS
Chromium	50	100	<2 U	4.7 B	1.2	<4 U	14.1	NS	NS	NS	NS	NS	NS	NS	NS	NS
Lead	25	15	<5.1 U	22.2 J	<2 U	2.1 J	3.8	NS	NS	NS	NS	NS	NS	NS	NS	NS
Mercury	0.7	2	<0.24 U	<0.24 U	<0.15 U	0.09 B	0.06 U	NS	NS	NS	NS	NS	NS	NS	NS	NS
Silver	50	100	<2 U	2.4 B	<1 U	<1 U	2 U	NS	NS	NS	NS	NS	NS	NS	NS	NS
pH			--	--	--	--	--	--	--	--	--	--	--	--	--	--

Notes :

Analytical results are reported in ug/L.

Shaded areas indicate results were reported above NYSDEC Class GA Ground Water Quality Criteria.

U - Indicates the compound was analyzed for but undetected at the Method Detection Limit.

TABLE 4-3 (CONTINUED)
 SUMMARY OF HISTORICAL GROUND-WATER ANALYTICAL RESULTS FOR MW-6
 PEERLESS PHOTO PRODUCTS SITE
 SHOREHAM, NEW YORK

Analyte	NYSDEC Ambient Water Quality Standards	Drinking Water MCL	Date Sampled													
			8/18/1994	12/1/1994	3/28/1996	7/17/1996	5/29/1997	2/14/2001	1/29/2002		11/21/2002					
			Standard	Standard	Standard	Standard	Standard	Standard	Standard	Standard	Standard	Low Flow	Standard	Low Flow	Standard	Low Flow
Cadmium	5	5	269	165 U	33.9	192	163	80	21	36	7.67					
Chromium	50	100	2.3 B	5 B	<1 U	<4 U	2.4 B	<2.1 U	<8 U	<8 U	10.4					
Lead	25	15	<3.2 U	<11.3 U	<2 U	<2 U	2.2 B	<2.6 U	<2 U	<2 U	<2					
Mercury	0.7	2	<0.24 U	<0.24 U	<0.15 U	<0.08 U	0.06 U	<0.1 U	<0.5 U	<0.5 U	<0.5					
Silver	50	100	<2 U	2.6 B	<1 U	<1 U	2 U	2.4 B	<2 U	<2 U	<2					
pH			--	--	--	--	--	--	4.8	--	--					

Notes :

Analytical results are reported in ug/L.

Shaded areas indicate results were reported above NYSDEC Class GA Ground Water Quality Criteria.

U - Indicates the compound was analyzed for but undetected at the Method Detection Limit.

TABLE 4-3 (CONTINUED)
 SUMMARY OF HISTORICAL GROUND-WATER ANALYTICAL RESULTS FOR MW-7S
 PEERLESS PHOTO PRODUCTS SITE
 SHOREHAM, NEW YORK

Analyte	NYSDEC Ambient Water Quality Standards	Drinking Water MCL	Date Sampled									
			7/16/1996		5/30/1997		2/5/2001		1/21/2002		11/21/2002	
			Standard	Standard	Standard	Standard	Standard	Standard	Standard	Standard	Standard	Standard
Cadmium	5	5	<1 U	2.9 B	36.2	9	30	2.92				
Chromium	50	100	10.1	8.3 B	5.2 B	<8 U	15	18.4				
Lead	25	15	<2 U	3 B	<2.6 U	<2 U	2.1	2				U
Mercury	0.7	2	<0.08 U	0.06 U	<0.1 U	<0.5 U	<0.5 U	0.5				U
Silver	50	100	<1 U	2 U	<2.3 U	<2 U	<2 U	2				U
pH			--	--	--	5.8	--	--				--

Notes :

Analytical results are reported in ug/L.

Shaded areas indicate results were reported above NYSDEC Class GA Ground Water Quality Criteria.

U - Indicates the compound was analyzed for but undetected at the Method Detection Limit.

TABLE 4-3 (CONTINUED)
 SUMMARY OF HISTORICAL GROUND-WATER ANALYTICAL RESULTS FOR MW-7D
 PEERLESS PHOTO PRODUCTS SITE
 SHOREHAM, NEW YORK

Analyte	NYSDEC Ambient Water Quality Standards	Drinking Water MCL	Date Sampled									
			7/16/1996		5/30/1997		2/15/2001		1/29/2002		11/21/2002	
			Standard	Result	Standard	Result	Standard	Result	Standard	Result	Standard	Result
Cadmium	5	5	<1 U	0.5 U	2.4 B	1.2	1	NS	1	U		
Chromium	50	100	<4 U	2.1 B	2.2 B	<8 U	20.3	NS	20.3	U		
Lead	25	15	3.4 J	1.6 U	<2.6 U	<2 U	2	NS	2	U		
Mercury	0.7	2	<0.08 U	0.1 B	<0.1 U	<0.5 U	0.5	NS	0.5	U		
Silver	50	100	<1 U	2 U	<2.3 U	<2 U	2	NS	2	U		
pH			--	--	--	5.4	--	--	--	--		

Notes :

Analytical results are reported in ug/L.

Shaded areas indicate results were reported above NYSDEC Class GA Ground Water Quality Criteria.

U - Indicates the compound was analyzed for but undetected at the Method Detection Limit.

TABLE 4-3 (CONTINUED)
 SUMMARY OF HISTORICAL GROUND-WATER ANALYTICAL RESULTS FOR MW-8S
 PEERLESS PHOTO PRODUCTS SITE
 SHOREHAM, NEW YORK

Analyte	NYSDEC Ambient Water Quality Standards	Drinking Water MCL	Date Sampled									
			9/12/1996		5/29/1997		2/14/2001		1/18/2002		11/21/2002	
			Standard	U	Standard	U	Standard	U	Standard	U	Standard	U
Cadmium	5	5	<1	U	0.5	U	<0.5	U	<1	U	<1	U
Chromium	50	100	<4	U	5.2	B	2.9	B	<8	U	8.6	U
Lead	25	15	<2	U	4	U	<2.6	U	<2	U	3.7	U
Mercury	0.7	2	<0.05	U	0.06	U	<0.1	U	<0.5	U	<0.5	U
Silver	50	100	<1	U	2	U	<2.3	U	<2	U	<2	U
pH			--		--		--		5.6		--	--

Notes :

Analytical results are reported in ug/L.

Shaded areas indicate results were reported above NYSDEC Class GA Ground Water Quality Criteria.

U - Indicates the compound was analyzed for but undetected at the Method Detection Limit.

TABLE 4-3 (CONTINUED)
 SUMMARY OF HISTORICAL GROUND-WATER ANALYTICAL RESULTS FOR MW-9
 PEERLESS PHOTO PRODUCTS SITE
 SHOREHAM, NEW YORK

Analyte	NYSDEC Ambient Water Quality Standards	Drinking Water MCL	Date Sampled															
			8/18/1994	12/1/1994	3/29/1996	7/18/1996	5/30/1997	2/13/2001	1/22/2002	11/21/2002	Standard	Low Flow	Standard	Low Flow				
Cadmium	5	5	57.8	36.4 J	17.3	16.1	16.5	14.5	11	11	11	11	11	11	11	11	<1	U
Chromium	50	100	<2	U	9.3 B	15.6	7.5 B	13.7	<8	U	<8	U	<8	U	<8	U	17.5	U
Lead	25	15	5	<17	10	14.7	1.8 B	<2.6	U	<2	U	<2	U	<2	U	<2	<2	U
Mercury	0.7	2	<0.24	U	<0.15	<0.08	0.06 U	<0.1	U	<0.5	U	<0.5	U	<0.5	U	<0.5	<0.5	U
Silver	50	100	<2	U	1.3 B	1.4 B	2.7 B	2.5 B	<2	U	<2	U	<2	U	<2	U	<2	U
pH			--	--	--	--	--	5.2	--	--	--	--	--	--	--	--	--	U

Notes :

Analytical results are reported in ug/L.

Shaded areas indicate results were reported above NYSDEC Class GA Ground Water Quality Criteria.

U - Indicates the compound was analyzed for but undetected at the Method Detection Limit.

TABLE 4-3 (CONTINUED)
 SUMMARY OF HISTORICAL GROUND-WATER ANALYTICAL RESULTS FOR MW-10
 PEERLESS PHOTO PRODUCTS SITE
 SHOREHAM, NEW YORK

Analyte	NYSDEC Ambient Water Quality Standards	Drinking Water MCL	Date Sampled													
			8/17/1994	11/29/1994	3/26/1996	7/18/1996	5/29/1997	2/15/2001	1/23/2002		11/21/2002					
			Standard	Standard	Standard	Standard	Standard	Standard	Standard	Standard	Standard	Low Flow	Standard	Low Flow	Standard	Low Flow
Cadmium	5	5	46.4	73.4	44.1	14.9	68.7	50.2	43	57	51.9					
Chromium	50	100	<2 U	<2 U	<2.2 U	<4 U	2.4 B	<2.1 U	<8 U	<8 U	16					
Lead	25	15	<2.7 U	20.3 J	<2 U	<2 U	2.5 B	<2.6 U	<2 U	<2 U	2					
Mercury	0.7	2	<0.24 U	<0.24 U	<0.15 U	<0.08 U	0.06 U	<0.1 U	<0.5 U	<0.5 U	0.5					
Silver	50	100	<2 U	<2 U	<1 U	<1 U	2 U	<2.3 U	<2 U	<2 U	2					
pH			--	--	--	--	--	--	5	--	--					

Notes :

Analytical results are reported in ug/L.

Shaded areas indicate results were reported above NYSDEC Class GA Ground Water Quality Criteria.

U - Indicates the compound was analyzed for but undetected at the Method Detection Limit.

TABLE 4-3 (CONTINUED)
 SUMMARY OF HISTORICAL GROUND-WATER ANALYTICAL RESULTS FOR MW-10D
 PEERLESS PHOTO PRODUCTS SITE
 SHOREHAM, NEW YORK

Analyte	NYSDEC Ambient Water Quality Standards	Drinking Water MCL	Date Sampled	
			11/21/2002	Low Flow
Cadmium	5	5	1	U
Chromium	50	100	8.14	U
Lead	25	15	2	U
Mercury	0.7	2	0.5	U
Silver	50	100	2	U
pH			--	

Notes :

Analytical results are reported in ug/L.

Shaded areas indicate results were reported above NYSDEC Class GA Ground Water Quality Criteria.

U - Indicates the compound was analyzed for but undetected at the Method Detection Limit.

TABLE 4-3 (CONTINUED)
 SUMMARY OF HISTORICAL GROUND-WATER ANALYTICAL RESULTS FOR MW-11S
 PEERLESS PHOTO PRODUCTS SITE
 SHOREHAM, NEW YORK

Analyte	NYSDEC Ambient Water Quality Standards	Drinking Water MCL	Date Sampled	
			Low Flow	
Cadmium	5	5	1	U
Chromium	50	100	13.4	
Lead	25	15	2	U
Mercury	0.7	2	0.5	U
Silver	50	100	2	U
pH			--	

Notes :

Analytical results are reported in ug/L.

Shaded areas indicate results were reported above NYSDEC Class GA Ground Water Quality Criteria.

U - Indicates the compound was analyzed for but undetected at the Method Detection Limit.

TABLE 4-3 (CONTINUED)
 SUMMARY OF HISTORICAL GROUND-WATER ANALYTICAL RESULTS FOR MW-11D
 PEERLESS PHOTO PRODUCTS SITE
 SHOREHAM, NEW YORK

Analyte	NYSDEC Ambient Water Quality Standards	Drinking Water MCL	Date Sampled	
			11/21/2002	Low Flow
Cadmium	5	5	1	U
Chromium	50	100	10.7	
Lead	25	15	2	U
Mercury	0.7	2	0.5	U
Silver	50	100	2	U
pH			--	

Notes :

Analytical results are reported in ug/L.

Shaded areas indicate results were reported above NYSDEC Class GA Ground Water Quality Criteria.

U - Indicates the compound was analyzed for but undetected at the Method Detection Limit.

TABLE 4-3 (CONTINUED)
 SUMMARY OF HISTORICAL GROUND-WATER ANALYTICAL RESULTS FOR TW-1
 PEERLESS PHOTO PRODUCTS SITE
 SHOREHAM, NEW YORK

Analyte	NYSDEC Ambient Water Quality Standards	Drinking Water MCL	Date Sampled	
			Low Flow	11/21/2002
Cadmium	5	5	3.65	
Chromium	50	100	13.9	
Lead	25	15	2	U
Mercury	0.7	2	0.5	U
Silver	50	100	2	U
pH			--	

Notes :

Analytical results are reported in ug/L.

Shaded areas indicate results were reported above NYSDEC Class GA Ground Water Quality Criteria.
 U - Indicates the compound was analyzed for but undetected at the Method Detection Limit.

TABLE 4-3 (CONTINUED)
 SUMMARY OF HISTORICAL GROUND-WATER ANALYTICAL RESULTS FOR TW-2
 PEERLESS PHOTO PRODUCTS SITE
 SHOREHAM, NEW YORK

Analyte	NYSDEC Ambient Water Quality Standards	Drinking Water MCL	Date Sampled	
			11/21/2002	Low Flow
Cadmium	5	5	24.1	
Chromium	50	100	12	
Lead	25	15	2	U
Mercury	0.7	2	0.5	U
Silver	50	100	2	U
pH			--	

Notes :

Analytical results are reported in ug/L.

Shaded areas indicate results were reported above NYSDEC Class GA Ground Water Quality Criteria.

U - Indicates the compound was analyzed for but undetected at the Method Detection Limit.

TABLE 4-3 (CONTINUED)
 SUMMARY OF HISTORICAL GROUND-WATER ANALYTICAL RESULTS FOR TW-3
 PEERLESS PHOTO PRODUCTS SITE
 SHOREHAM, NEW YORK

Analyte	NYSDEC Ambient Water Quality Standards	Drinking Water MCL	Date Sampled	
			Low Flow	11/21/2002
Cadmium	5	5	1	U
Chromium	50	100	11.7	
Lead	25	15	2	U
Mercury	0.7	2	0.5	U
Silver	50	100	2	U
pH			--	

Notes :

Analytical results are reported in ug/L.

Shaded areas indicate results were reported above NYSDEC Class GA Ground Water Quality Criteria.

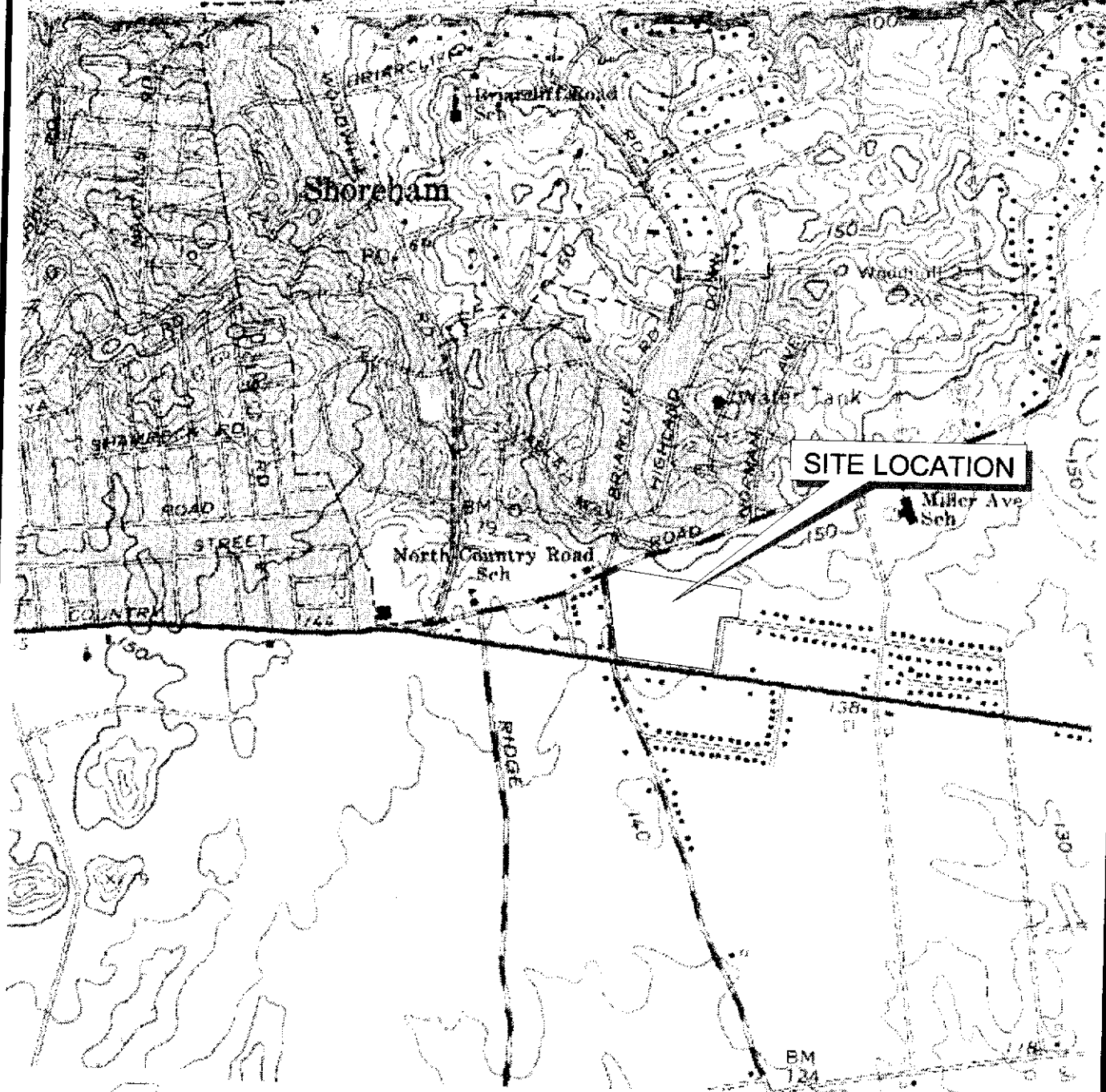
U - Indicates the compound was analyzed for but undetected at the Method Detection Limit.

Figures

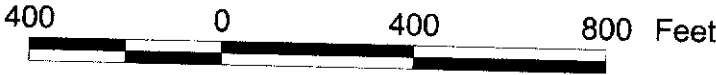
LONG ISLAND SOUND


each

Shoreham Beach

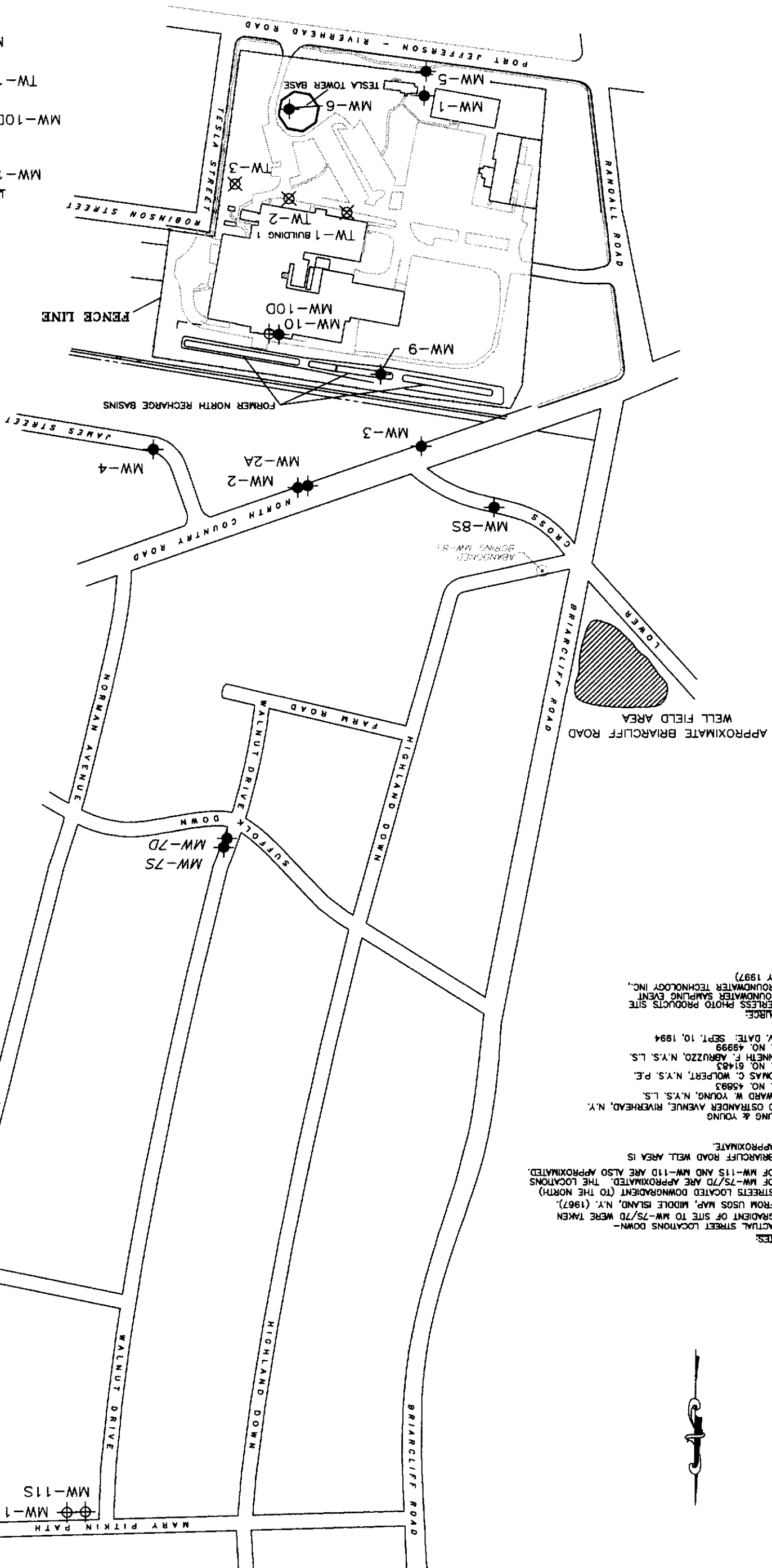


SITE LOCATION



 EA ENGINEERING, SCIENCE, AND TECHNOLOGY		PEERLESS PHOTO SITE SHOREHAM, NEW YORK		FIGURE 1-1 SITE LOCATION MAP			
PROJECT MGR: PN	DESIGNED BY: DC	CREATED BY: DC	CHECKED BY: PN	SCALE: AS SHOWN	DATE: 20 NOV 2002	PROJECT NO: 1371211	FILE NO: I:\AGFA\ AGFA.APR

- LEGEND
- MW-1 ● EXISTING MONITORING WELL
 - MW-1 ○ BORING (ABANDONED WELL LOCATION)
 - MW-10D ⊕ NEW MONITORING WELL (NOV 2002)
 - TW-1 ⊗ NEW TEMPORARY WELL POINT (NOV 2002)
 - MW-1 # WELL ID #
 - x- CHAIN LINK FENCE
 - PROPERTY LINE



NOTES:
1) ACTUAL STREET LOCATIONS DOWN-GRADIENT OF SITE TO MW-7S/7D WERE TAKEN FROM USGS MAP, MIDDLE ISLAND, N.Y. (1967).
STREETS LOCATED DOWNGRADIENT (TO THE NORTH) OF MW-7S/7D ARE APPROXIMATED. THE LOCATIONS OF MW-11S AND MW-11D ARE ALSO APPROXIMATED.
2) BRIARCLIFF ROAD WELL AREA IS APPROXIMATE.
YOUNG & YOUNG
400 OSTRANDER AVENUE, RIVERHEAD, N.Y.
L.C. NO. 45893
HOWARD W. YOUNG, N.Y.S. L.S.
L.C. NO. 61483
THOMAS C. WOLPERT, N.Y.S. P.E.
L.C. NO. 61483
KENNETH F. ABRUZZO, N.Y.S. L.S.
L.C. NO. 49999
REV. DATE: SEPT. 10, 1994
SOURCE:
PEERLESS PHOTO PRODUCTS SITE
GROUNDWATER SAMPLING EVENT
(GROUNDWATER TECHNOLOGY INC.,
MAY 1997)

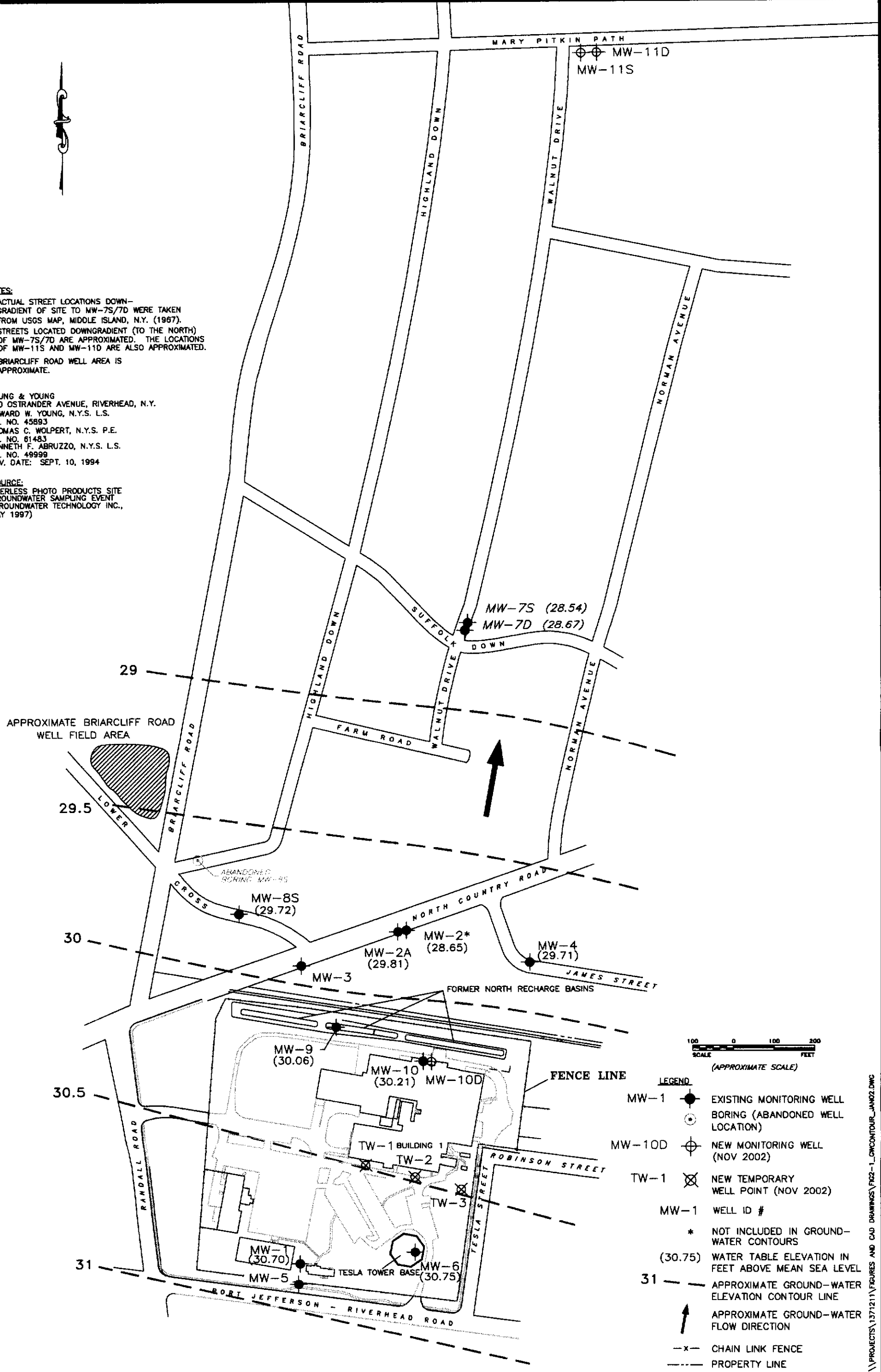




NOTES:
 1) ACTUAL STREET LOCATIONS DOWN-GRADIENT OF SITE TO MW-7S/7D WERE TAKEN FROM USGS MAP, MIDDLE ISLAND, N.Y. (1987). STREETS LOCATED DOWNGRADIENT (TO THE NORTH) OF MW-7S/7D ARE APPROXIMATED. THE LOCATIONS OF MW-11S AND MW-11D ARE ALSO APPROXIMATED.
 2) BRIARCLIFF ROAD WELL AREA IS APPROXIMATE.

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 L.C. NO. 49999
 REV. DATE: SEPT. 10, 1994

SOURCE:
 PEERLESS PHOTO PRODUCTS SITE
 GROUNDWATER SAMPLING EVENT
 (GROUNDWATER TECHNOLOGY INC.,
 MAY 1997)



- LEGEND**
- MW-1 ● EXISTING MONITORING WELL
 - BORING (ABANDONED WELL LOCATION)
 - MW-10D ⊕ NEW MONITORING WELL (NOV 2002)
 - TW-1 ⊗ NEW TEMPORARY WELL POINT (NOV 2002)
 - MW-1 WELL ID #
 - * NOT INCLUDED IN GROUND-WATER CONTOURS
 - (30.75) WATER TABLE ELEVATION IN FEET ABOVE MEAN SEA LEVEL
 - 31 - - - APPROXIMATE GROUND-WATER ELEVATION CONTOUR LINE
 - ↑ APPROXIMATE GROUND-WATER FLOW DIRECTION
 - x- CHAIN LINK FENCE
 - - - PROPERTY LINE

\\PROJECTS\1371211\FIGURES AND CAD DRAWINGS\FIG-1_GWCONTOUR_JAN02.DWG



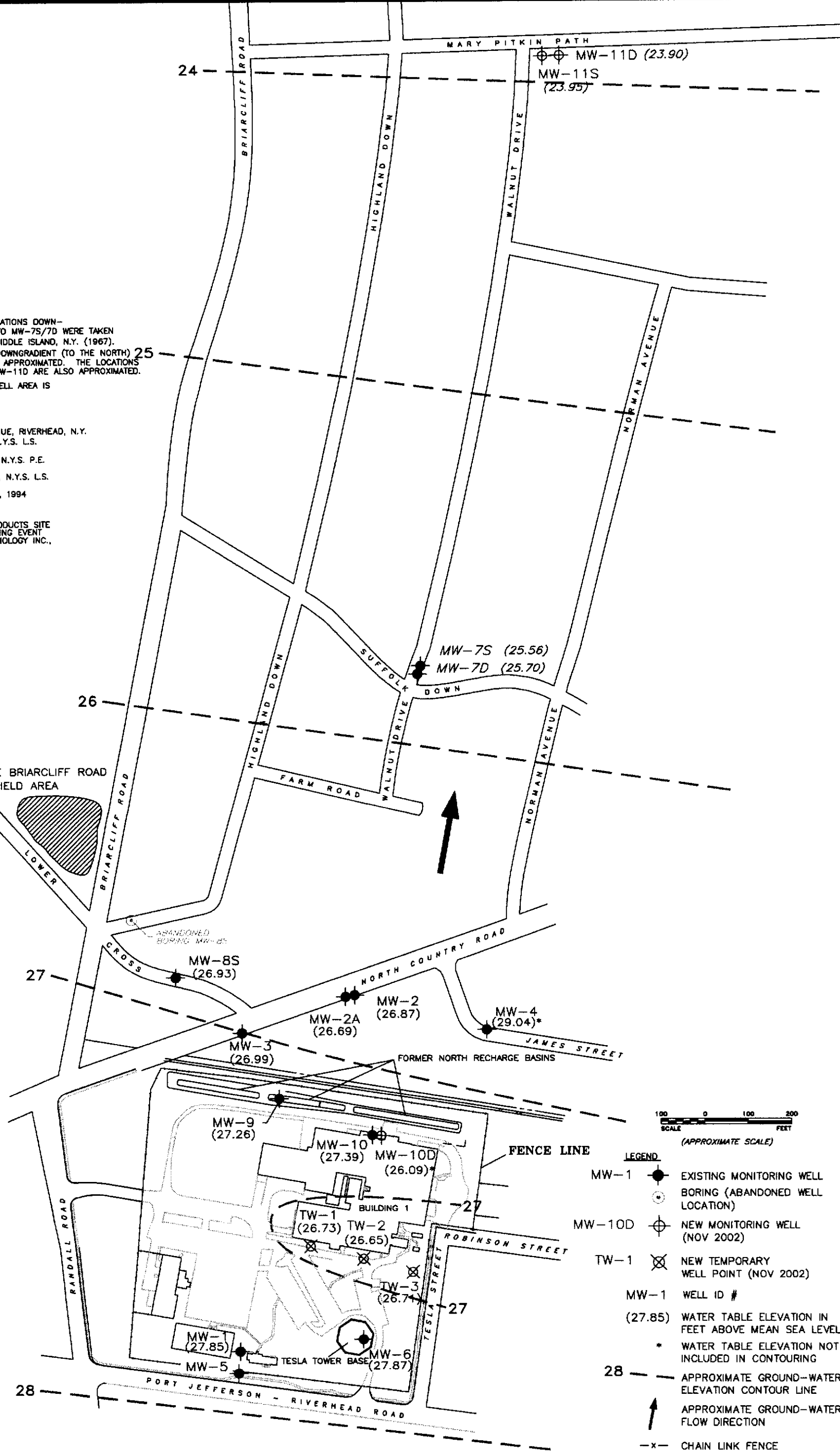
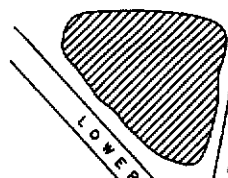
NOTES:

- 1) ACTUAL STREET LOCATIONS DOWN-GRADIENT OF SITE TO MW-7S/7D WERE TAKEN FROM USGS MAP, MIDDLE ISLAND, N.Y. (1967). STREETS LOCATED DOWNGRADIENT (TO THE NORTH) OF MW-7S/7D ARE APPROXIMATED. THE LOCATIONS OF MW-11S AND MW-11D ARE ALSO APPROXIMATED.
- 2) BRIARCLIFF ROAD WELL AREA IS APPROXIMATE.

YOUNG & YOUNG
 400 OSTRANDER AVENUE, RIVERHEAD, N.Y.
 HOWARD W. YOUNG, N.Y.S. L.S.
 LIC. NO. 45893
 THOMAS C. WOLPERT, N.Y.S. P.E.
 LIC. NO. 01483
 KENNETH F. ABRUZZO, N.Y.S. L.S.
 LIC. NO. 49999
 REV. DATE: SEPT. 10, 1994

SOURCE:
 PEERLESS PHOTO PRODUCTS SITE
 GROUNDWATER SAMPLING EVENT
 (GROUNDWATER TECHNOLOGY INC.,
 MAY 1997)

APPROXIMATE BRIARCLIFF ROAD
 WELL FIELD AREA



LEGEND

- MW-1 ● EXISTING MONITORING WELL
- BORING (ABANDONED WELL LOCATION)
- MW-10D ⊕ NEW MONITORING WELL (NOV 2002)
- TW-1 ⊗ NEW TEMPORARY WELL POINT (NOV 2002)
- MW-1 WELL ID #
- (27.85) WATER TABLE ELEVATION IN FEET ABOVE MEAN SEA LEVEL
- * WATER TABLE ELEVATION NOT INCLUDED IN CONTOURING
- 28 - - - APPROXIMATE GROUND-WATER ELEVATION CONTOUR LINE
- ↑ APPROXIMATE GROUND-WATER FLOW DIRECTION
- x- CHAIN LINK FENCE
- - - PROPERTY LINE

EA EA ENGINEERING,
 SCIENCE, AND
 TECHNOLOGY

PEERLESS PHOTO SITE
 SHOREHAM, NEW YORK

GROUND-WATER
 CONTOUR MAP
 22 NOVEMBER 2002

DATE
 28 FEB 2003

SCALE
 AS SHOWN

DRAWN BY
 TB

PROJECT MGR.
 CK

PROJECT NO.
 13712.11

CHECKED BY
 TB

FIGURE
 2-2

\\PROJECTS\1371211\FIGURES AND CAD DRAWINGS\FIG2-2_GWCONTOUR_NOV02.DWG

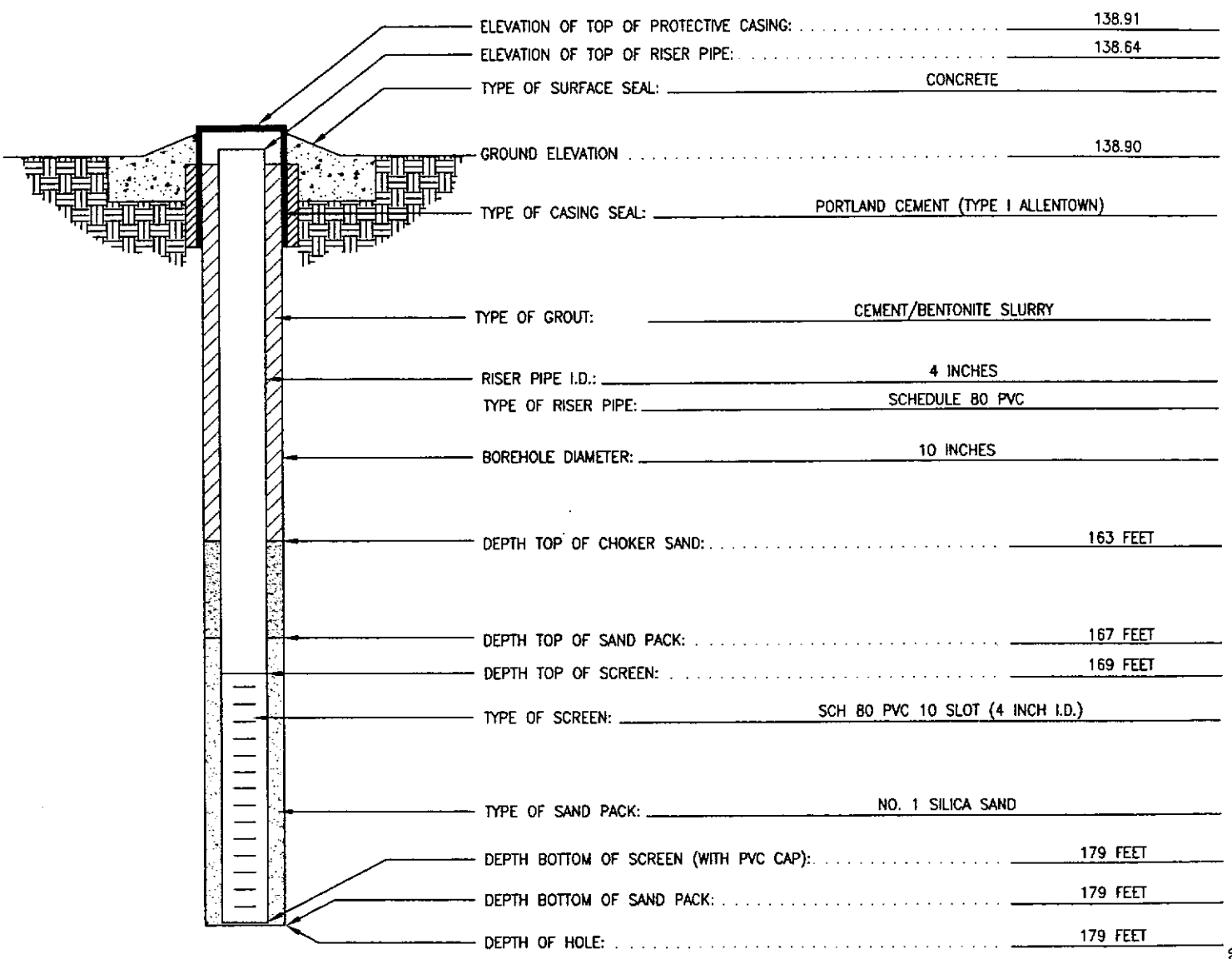
Appendix A

Well Construction Diagrams



PROJECT: AGFA PEERLESS PHOTO LOCATION: SHOREHAM, NY
 PROJECT NO.: 13712.11 BORING: MW-10D
 DATE: 10/21/02
 FIELD GEOLOGIST: TOM BIOLSI

DRILLER SHAWN MILLER (AQUIFER DRILLING & TESTING)
 DRILLING METHOD HOLLOW-STEM AUGER
 DEVELOPMENT METHOD SUBMERSIBLE PUMP (GRUNDFOS)



FILE: \PROJECTS\1371211\MW-10D



AGFA PEERLESS PHOTO PRODUCTS SITE
 SHOREHAM, NEW YORK

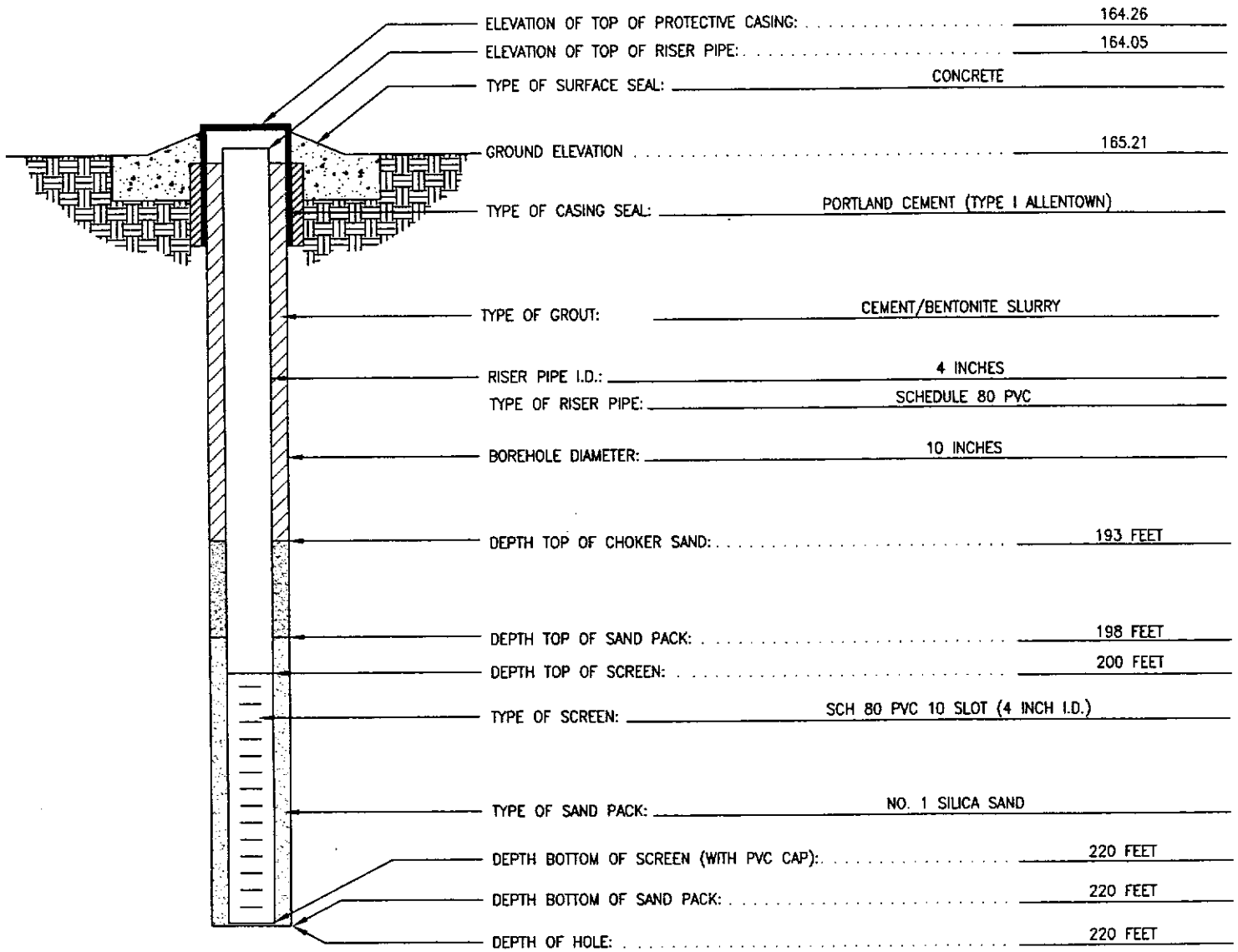
WELL CONSTRUCTION DIAGRAM
 OVERBURDEN MONITORING WELL
 MW-10D

PROJECT MGR | DESIGNED BY | DRAWN BY | CHECKED BY | SCALE | DATE | PROJECT NO | FIGURE



PROJECT: AGFA PEERLESS PHOTO LOCATION: SHOREHAM, NY
 PROJECT NO.: 13712.11 BORING: MW-11D
 DATE: 11/20/02
 FIELD GEOLOGIST: TOM BIOLSI

DRILLER SHAWN MILLER
(AQUIFER DRILLING & TESTING)
 DRILLING METHOD HOLLOW-STEM AUGER
 DEVELOPMENT METHOD SUBMERSIBLE PUMP
(GRUNDFOS)



FILE: \PROJECTS\1371211\MW-11D



AGFA PEERLESS PHOTO PRODUCTS SITE
 SHOREHAM, NEW YORK

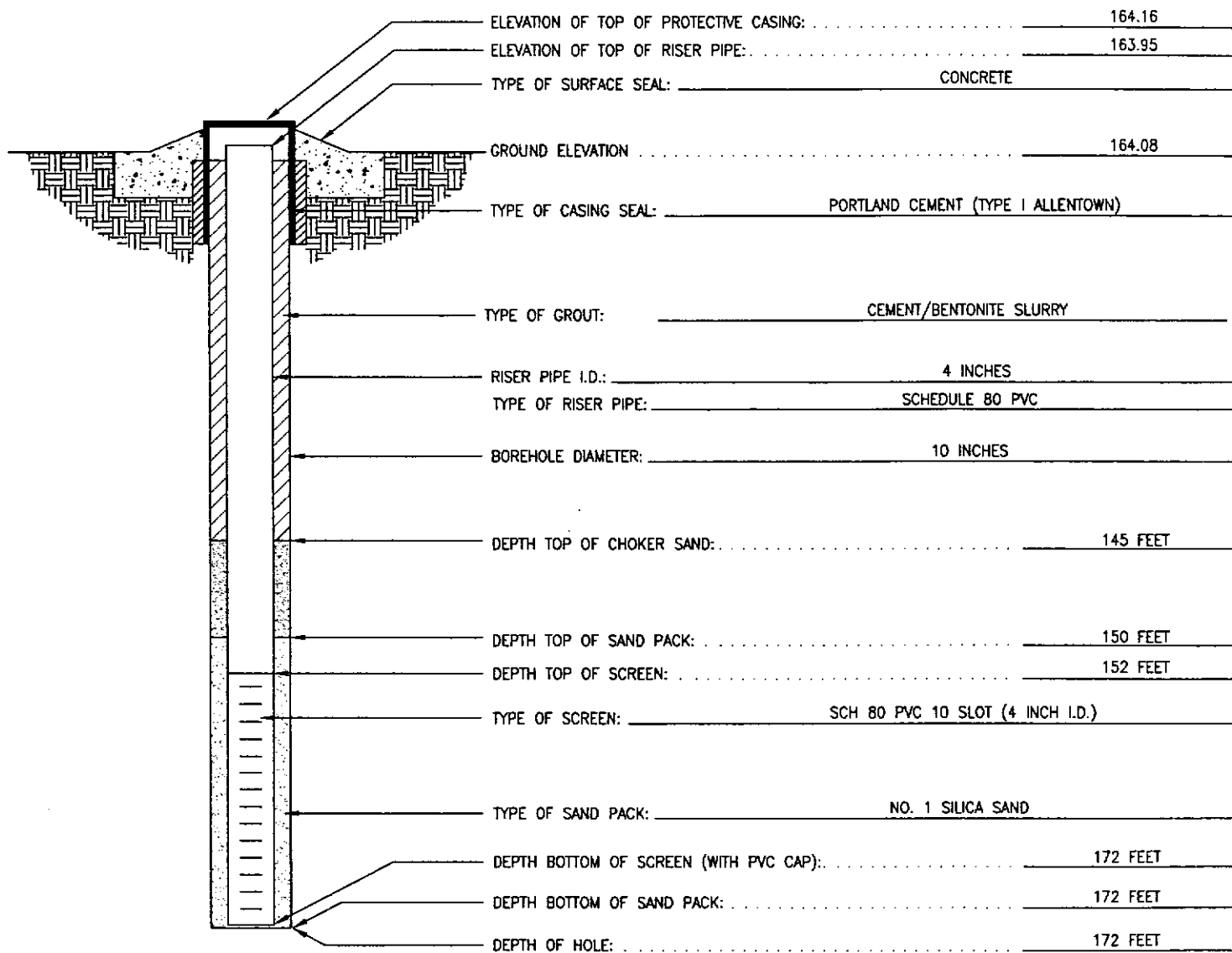
WELL CONSTRUCTION DIAGRAM
 OVERBURDEN MONITORING WELL
 MW-11D

PROJECT MGR	DESIGNED BY	DRAWN BY	CHECKED BY	SCALE	DATE	PROJECT NO	FIGURE
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PROJECT: AGFA PEERLESS PHOTO LOCATION: SHOREHAM, NY
 PROJECT NO.: 13712.11 BORING: MW-11S
 DATE: 11/6/02
 FIELD GEOLOGIST: TOM BIOLSI

DRILLER SHAWN MILLER
(AQUIFER DRILLING & TESTING)
 DRILLING METHOD HOLLOW-STEM AUGER
 DEVELOPMENT METHOD SUBMERSIBLE PUMP
(GRUNDFOS)



FILE: \PROJECTS\137121\MW-11S



AGFA PEERLESS PHOTO PRODUCTS SITE
 SHOREHAM, NEW YORK

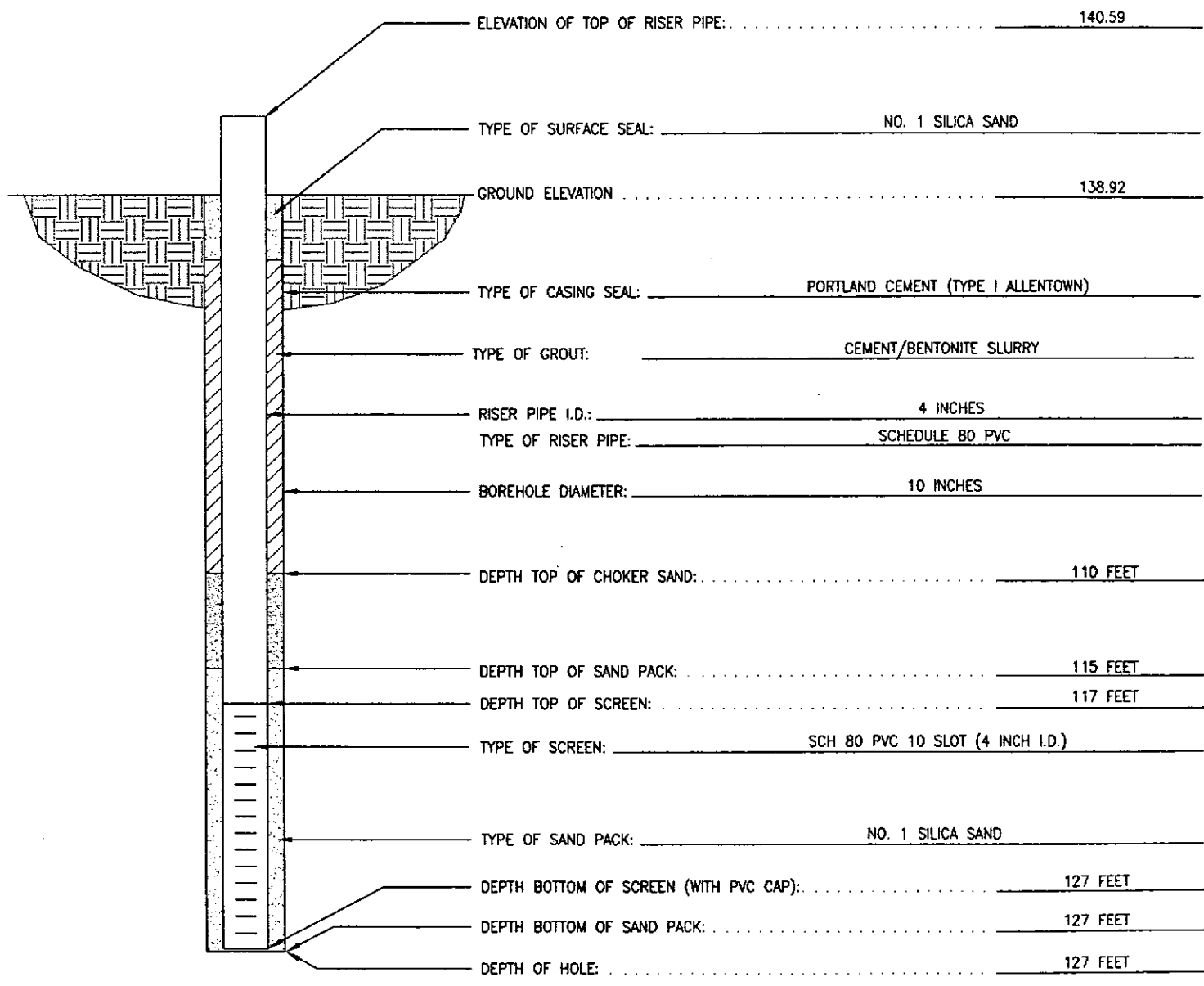
WELL CONSTRUCTION DIAGRAM
 OVERBURDEN MONITORING WELL
 MW-11S

PROJECT MGR | DESIGNED BY | DRAWN BY | CHECKED BY | SCALE | DATE | PROJECT NO | FIGURE



PROJECT: AGFA PEERLESS PHOTO LOCATION: SHOREHAM, NY
 PROJECT NO.: 13712.11 BORING: TW-1
 DATE: 10/24/02
 FIELD GEOLOGIST: TOM BIOLSI

DRILLER SHAWN MILLER (AQUIFER DRILLING & TESTING)
 DRILLING METHOD HOLLOW-STEM AUGER
 DEVELOPMENT METHOD SUBMERSIBLE PUMP (GRUNDFOS)



FILE: \PROJECTS\1371211\TW-1.DWG



AGFA PEERLESS PHOTO PRODUCTS SITE
 SHOREHAM, NEW YORK

WELL CONSTRUCTION DIAGRAM
 TEMPORARY MONITORING WELL
 TW-1

PROJECT MGR | DESIGNED BY | DRAWN BY | CHECKED BY | SCALE | DATE | PROJECT NO | FIGURE

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PROJECT: AGFA PEERLESS PHOTO LOCATION: SHOREHAM, NY

PROJECT NO.: 13712.11 BORING: TW-2

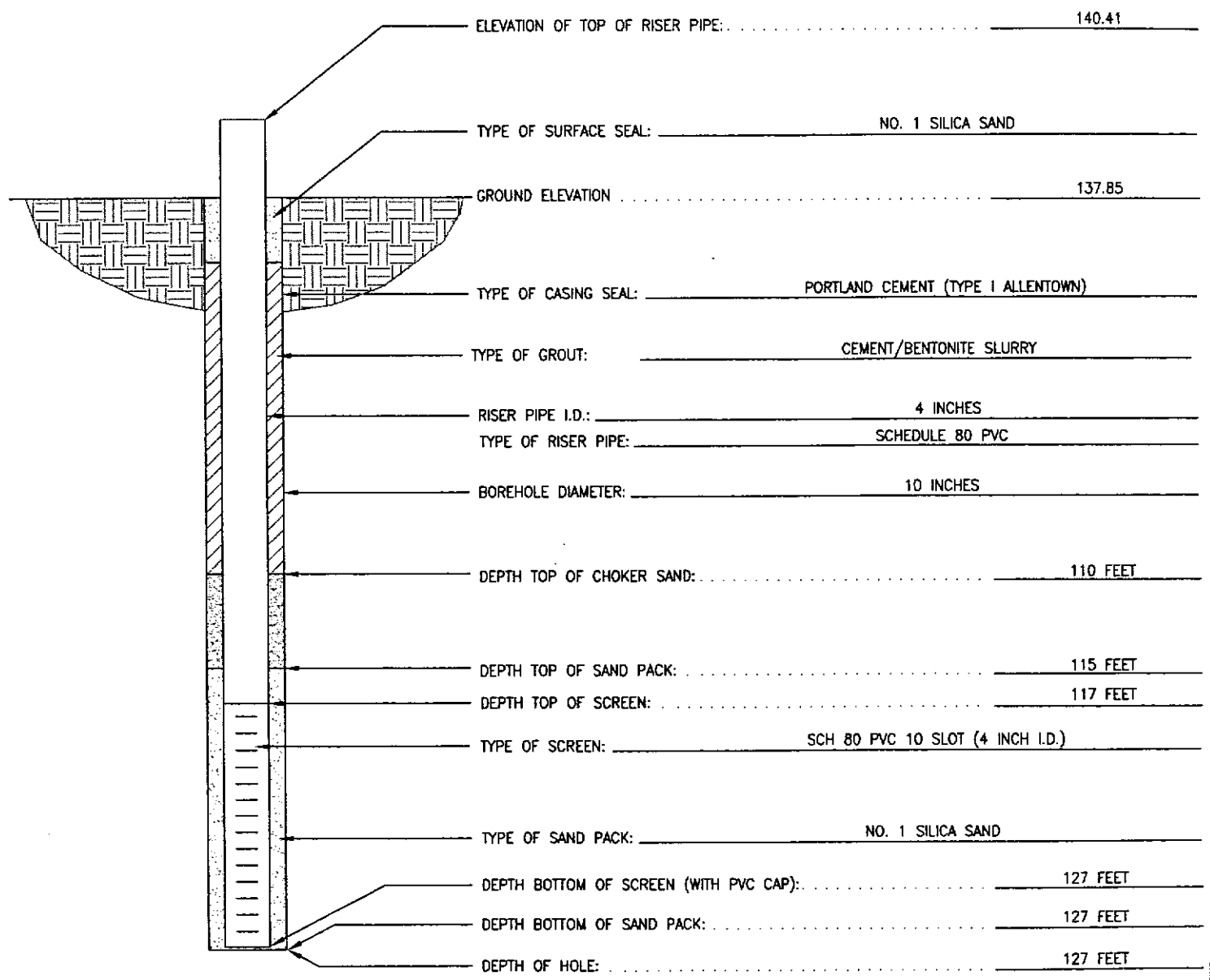
DATE: 10/30/02

FIELD GEOLOGIST: TOM BIOLSI

DRILLER SHAWN MILLER
(AQUIFER DRILLING & TESTING)

DRILLING METHOD HOLLOW-STEM AUGER

DEVELOPMENT METHOD SUBMERSIBLE PUMP
(GRUNDFOS)



FILE: \PROJECTS\137121\TW-2.DWG



AGFA PEERLESS PHOTO PRODUCTS SITE
SHOREHAM, NEW YORK

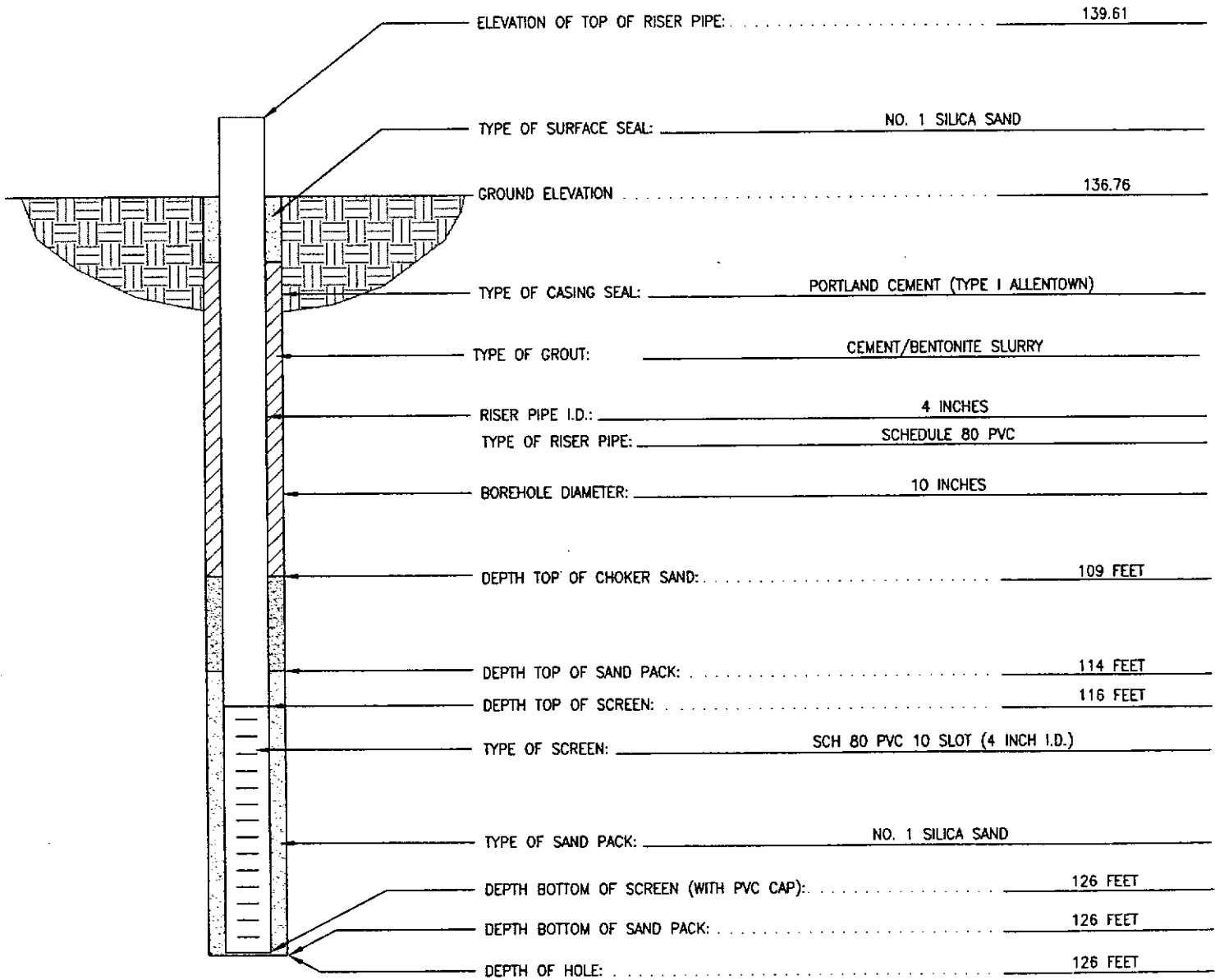
WELL CONSTRUCTION DIAGRAM
TEMPORARY MONITORING WELL
TW-2

PROJECT MGR	DESIGNED BY	DRAWN BY	CHECKED BY	SCALE	DATE	PROJECT NO	FIGURE
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PROJECT: AGFA PEERLESS PHOTO LOCATION: SHOREHAM, NY
 PROJECT NO.: 13712.11 BORING: TW-3
 DATE: 10/28/02
 FIELD GEOLOGIST: TOM BIOLSI

DRILLER SHAWN MILLER
(AQUIFER DRILLING & TESTING)
 DRILLING METHOD HOLLOW-STEM AUGER
 DEVELOPMENT METHOD SUBMERSIBLE PUMP
(GRUNDFOS)



FILE: \PROJECTS\1371211\TW-3.DWG



AGFA PEERLESS PHOTO PRODUCTS SITE
 SHOREHAM, NEW YORK

WELL CONSTRUCTION DIAGRAM
 TEMPORARY MONITORING WELL
 TW-3

PROJECT MGR | DESIGNED BY | DRAWN BY | CHECKED BY | SCALE | DATE | PROJECT NO | FIGURE



Appendix B

Well Development Records and Purge Data Sheets





FIELD RECORD OF WELL GAUGING, PURGING, AND SAMPLING ^{Development}

SITE NAME: AGFA Peerless Photo PROJECT NUMBER: 1371201
 WELL I.D.: TN-1 WELL LOCK STATUS: Unlocked
 WELL CONDITION: New WEATHER: Cloudy windy ~50°
 GAUGE DATE: 11-18-02 GAUGE TIME: 10:22
 SOUNDING METHOD: WLT MEASUREMENT REF: @ TOE ~~to~~ ground level
 STICK UP/DOWN (ft): Stick up ~ 1.45' WELL DIAMETER (in.): 4"
 PURGE DATE: 11-18-02 PURGE TIME: 1051
 PURGE METHOD: Hybrid FIELD PERSONNEL: JN(EA) Chris(ADT)
 AMBIENT AIR VOCs (ppm) Start: — End: — WELL MOUTH VOCs (ppm): Start: — End: —

- A. TOTAL WELL DEPTH (ft): 127.20*
- B. OPEN INTERVAL (ft): 10
- C. DEPTH TO WATER (ft): 112.20
- D. H₂O COLUMN(ft) (A-C): 15.0
- E. CASING VOLUME/FT (GAL): 0.653
- F. CASING VOLUME (GAL) (D*E): 9.8
- G. ³/₀ CASING VOLUMES (GAL) (F*³/₀): 29.4

Parameter	Beginning	1 well Volume	2 well Volumes	3 well Volumes	4 well Volumes	5 well Volumes
Time (min)	1051	1054	1057	1100	1103	1106
Depth to Water (ft)	112.25	112.41	112.41	112.41	112.41	112.41
Purge Rate (L/min) gal/min	3	3	3	3	3	3
Volume Purged (gal)	—	10	20	30	40	50
pH	5.28	5.10	5.10	5.04	5.03	5.00
Temperature (°C)	11.6	11.7	11.7	11.7	11.7	11.7
Conductivity (mS/cm)	0.222	0.216	0.216	0.216	0.215	0.213
Dissolved Oxygen (mg/L)	10.35	10.34	10.34	10.40	10.41	10.42
Turbidity (NTU)	125	170	153	32.2	21	8
Eh (mv)	199	206	208	213	217	221

TOTAL VOLUME WATER PURGED: 77.5 GAL
 SAMPLERS: N/A SAMPLING TIME (START/END): N/A
 SAMPLING DATE: N/A DECONTAMINATION FLUIDS USED: DI
 SAMPLE TYPE: N/A SAMPLE PRESERVATIVES: N/A
 SAMPLE BOTTLE IDs: N/A
 SAMPLE PARAMETERS: N/A

COMMENTS AND OBSERVATIONS: No Samples Collected - Well Development.
* Depth to bottom is taken from ground level.
115 Switch to low flow
** Surged well
PUMP #: ADT'S Pump
PUMP SET DEPTH: 123'
FINAL Depth To Bottom is 127.15 ft bgs
Measured from ground level) ODOR: NONE



FIELD RECORD OF WELL GAUGING, PURGING, AND SAMPLING (OVERFLOW PAGE)

Site Name: NAWC TRENTON	Project No.: 1371209	Date: 11-18-02
Well ID: TW-1	Field Personnel: JN	

Parameter	* Switched to Low flow	7	*	9	*	11
Time (min.)	1115	1120	1125	1130	1135	1140
Depth to Water (ft)	112.25	112.31	112.31	112.31	112.31	112.31
Purge Rate (L/min) 8.5 gal/min	0.5	0.5	0.5	0.5	0.5	0.5
Volume Purged (L) gal	52.5	55	57.5	60	62.5	65
pH	5.05	5.08	5.30	5.07	5.11	5.11
Temperature (°C)	12.2	12.9	12.8	12.9	13	12.9
Conductivity (Units: ms/cm)	0.216	0.208	0.213	0.212	0.212	0.213
Dissolved Oxygen (mg/L)	10.29	10.17	10.33	10.28	10.25	10.29
Turbidity (NTU)	8	36	16	18	13	11
Eh (mv)	222	222	220	224	225	224

Parameter	*	13	*	15	16	17
Time (min)	1145	1150	1155	1200	1205	
Depth to Water (ft)	112.31	112.31	112.31	112.31	112.31	
Purge Rate (GAL/min)	0.5	0.5	0.5	0.5	0.5	
Volume Purged (GAL)	67.5	70	72.5	75	77.5	
pH	5.12	5.12	5.10	5.09	5.08	
Temperature (°C)	12.4	12.4	12.6	12.4	12.4	
Conductivity (Units: ms/cm)	0.211	0.211	0.209	0.210	0.209	
Dissolved Oxygen (mg/L)	10.37	10.29	10.30	10.30	10.31	
Turbidity (NTU)	7	3	0	0	0	
Eh (mv)	227	227	228	229	230	

COMMENTS AND OBSERVATIONS: * Surged (switched on and off flow)

Development
**FIELD RECORD OF WELL GAUGING,
 PURGING, AND SAMPLING**

SITE NAME: AGFA Peerless Photo PROJECT NUMBER: 137120
 WELL I.D.: TW-2 WELL LOCK STATUS: unlocked
 WELL CONDITION: New WEATHER: Sunny, Windy ~ 50°
 GAUGE DATE: 11-18-02 GAUGE TIME: 1302
 SOUNDING METHOD: WLI MEASUREMENT REF: Ground level
 STICK UP/DOWN (ft): Stick up ~ 2.45'
 STICK UP ~ 2.45'
 STICK DOWN ~ 2.45'
 WELL DIAMETER (in.): 4"
 PURGE DATE: 11-18-02 PURGE TIME: 1305
 PURGE METHOD: Hybrid FIELD PERSONNEL: JW
 AMBIENT AIR VOCs (ppm) Start: — End: — WELL MOUTH VOCs (ppm) Start: — End: —

A. TOTAL WELL DEPTH (ft): 127.40 E. CASING VOLUME/FT (GAL): 0.653
 B. OPEN INTERVAL (ft): 10 F. CASING VOLUME (GAL) (D*E): 0.48
 C. DEPTH TO WATER (ft): 111.35 G. CASING VOLUMES (GAL) (E*F): 31.44
 D. H₂O COLUMN(ft) (A-C): 16.05 3 3

* Surge
 * S. report

Parameter	Beginning	One well 1 Volume	2 well 2 Volumes	3 well 3 Volumes	4 well 4 Volumes	5 well 5 Volumes
Time (min)	1305	1309	1313	1317	1320	1323
Depth to Water (ft)	111.35	111.35	111.35	111.35	111.35	111.35
Purge Rate (L/min) gal/min	3	3	3	3	3	3
Volume Purged (ft) gal	—	10	21	32.33	45	57
pH	5.47	5.31	5.29	5.29	5.29	5.29
Temperature (°C)	11.6	11.8	11.9	11.9	11.8	11.8
Conductivity (ms/cm)	0.212	0.224	0.222	0.222	0.221	0.221
Dissolved Oxygen (mg/L)	11.03	9.87	9.92	9.91	9.92	9.92
Turbidity (NTU)	52	57	26	2	0	0
Eh (mv)	235	231	231	230	229	229

TOTAL VOLUME WATER PURGED: 71 GAL

SAMPLERS: N/A SAMPLING TIME (START/END): N/A
 SAMPLING DATE: N/A DECONTAMINATION FLUIDS USED: DI
 SAMPLE TYPE: N/A SAMPLE PRESERVATIVES: N/A
 SAMPLE BOTTLE IDs: N/A
 SAMPLE PARAMETERS: N/A

COMMENTS AND OBSERVATIONS: No sample collected - Well Development
(Well Depth measured from ground level.
pump stopped 1355, tubing detached from pump. fixed and restarted
1420. Low flow started 1330.

PUMP #: ADTS
 PUMP SET DEPTH: 122'

ODOR: NONE



FIELD RECORD OF WELL GAUGING, PURGING, AND SAMPLING (OVERFLOW PAGE)

Site Name: NAWC TRENTON	Project No.: 1371209	Date: 11-18-02
Well ID: TW-2	Field Personnel: JN	

Parameter	* Switched To Overflow	Surged		Surged		* Pumps Stopped
		7	8	9	10	
Time (min)	1330	1335	1340	1345	1350	1355
Depth to Water (ft)	111.35	111.35	111.35	111.35	111.35	X
Purge Rate (L/min) gal/min	0.25	0.25	0.25	0.25	0.25	
Volume Purged (L) gal	58	59	60	61	62	
pH	5.33	5.34	5.33	5.35	5.39	
Temperature (°C)	12.7	12.7	12.7	12.7	12.5	
Conductivity (Units: ms/cm)	0.215	0.218	0.220	0.221	0.217	
Dissolved Oxygen (mg/L)	9.73	9.75	9.86	9.81	9.74	
Turbidity (NTU)	0	0	0	0	0	
Eh (mv)	226	226	224	225	224	

Parameter	Surged		Surged		Surged	
	12	13	14	15	16	17
Time (min)	1420	1425	1430	1435	1440	1445
Depth to Water (ft)	111.35	111.35	111.35	111.35	111.35	111.35
Purge Rate (GAL/min)	0.25	0.25	0.25	0.25	0.25	0.25
Volume Purged (GAL)	62	63	64	65	66	67
pH	5.46	5.42	5.41	5.41	5.43	5.43
Temperature (°C)	13.8	13.5 5.44	13.3	13.0	13.0	12.9
Conductivity (Units: ms/cm)	0.221	0.224	0.224	0.223	0.223	0.223
Dissolved Oxygen (mg/L)	10.36	10.12	10.07	9.93	9.95	9.96
Turbidity (NTU)	106	36	29	19	14	8
Eh (mv)	223	221	221	220	219	219

COMMENTS AND OBSERVATIONS _____



FIELD RECORD OF WELL GAUGING, PURGING, AND SAMPLING (OVERFLOW PAGE)

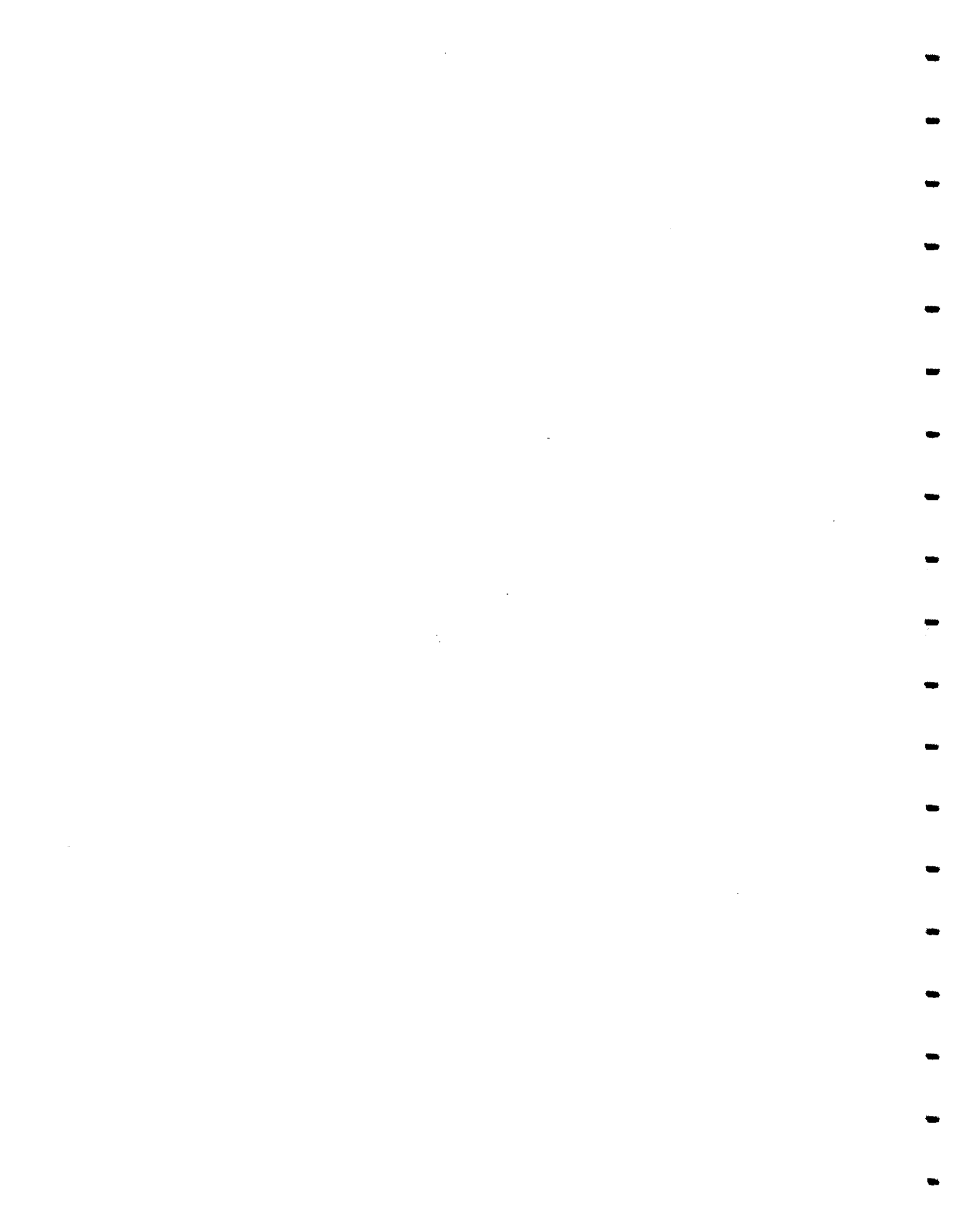
Site Name: NAWC TRENTON	Project No.: 1371209	Date: 11-18-02
Well ID: <u>W-2</u>	Field Personnel: <u>JW</u>	

Surgeed

Parameter	18	19	20	21	22	23
Time (min.)	1450	1455	1500	1505		
Depth to Water (ft)	111.35	111.35	111.35	111.35		
Purge Rate (L/min) gal/min	0.25	0.25	0.25	0.25		
Volume Purged (L) gal	68	69	70	71		
pH	5.40	5.40	5.38	5.40		
Temperature (°C)	12.8	12.9	12.9	12.8		
Conductivity (µS/cm)	0.222	0.222	0.222	0.222		
Dissolved Oxygen (mg/L)	9.91	9.89	9.89	9.88		
Turbidity (NTU)	3	0	0	0		
Eh (mv)	218	218	218	218		

Parameter	24	25	26	27	28	29
Time (min)						
Depth to Water (ft)						
Purge Rate (L/min)						
Volume Purged (L)						
pH						
Temperature (°C)						
Conductivity ()						
Dissolved Oxygen (mg/L)						
Turbidity (NTU)						
Eh (mv)						

REMARKS AND OBSERVATIONS _____



Development

FIELD RECORD OF WELL GAUGING, PURGING, AND SAMPLING

SITE NAME: AGFA Peerless Photo PROJECT NUMBER: 137124
 WELL I.D.: TW-3 WELL LOCK STATUS: Unlocked
 WELL CONDITION: New WEATHER: Sunny Windy ~50
 GAUGE DATE: 11-18-02 GAUGE TIME: 1525
 SOUNDING METHOD: LLT MEASUREMENT REF: Ground level
 STICK UP/DOWN (ft): 2.5' WELL DIAMETER (in.): 4"
 PURGE DATE: 11-18-02 PURGE TIME: 1530
 PURGE METHOD: Hybrid FIELD PERSONNEL: JW
 AMBIENT AIR VOCs (ppm) Start: — End: — WELL MOUTH VOCs (ppm) Start: — End: —

A. TOTAL WELL DEPTH (ft): 127.24 E. CASING VOLUME/FT (GAL): 0.653
 B. OPEN INTERVAL (ft): 10 F. CASING VOLUME (GAL) (D*E): 11.09
 C. DEPTH TO WATER (ft): 110.25 G. CASING VOLUMES (GAL) (F*G): 33.3
 D. H₂O COLUMN(ft) (A-C): 14.99

Parameter	Beginning	* Surged				
		1 well Volume	2 well Volumes	3 well Volumes	4 well Volumes	5 well Volumes
Time (min)	1530	1534	1538	1542	1546	1550
Depth to Water (ft)	110.27	110.29	110.30	110.30	110.29	110.29
Purge Rate (L/min) gal/min	3	3	3	3	3	3
Volume Purged (L)	—	12	24	36	48	60
pH	5.34	5.36	5.30	5.14	5.13	5.14
Temperature (°C)	11.8	11.8	11.8	11.8	11.8	11.8
Conductivity (ms/cm)	0.237	0.230	0.230	0.224	0.227	0.228
Dissolved Oxygen (mg/L)	10.50	10.30	10.30	10.37	10.36	10.55
Turbidity (NTU)	53	31	13	1	0	0
Eh (mv)	225	223	224	227	228	228

TOTAL VOLUME WATER PURGED: 60 GAL
 SAMPLERS: N/A SAMPLING TIME (START/END): N/A
 SAMPLING DATE: N/A DECONTAMINATION FLUIDS USED: DI
 SAMPLE TYPE: N/A SAMPLE PRESERVATIVES: N/A
 SAMPLE BOTTLE IDs: N/A
 SAMPLE PARAMETERS: N/A

COMMENTS AND OBSERVATIONS: No Sample Collected - Well Development
Depth to bottom is taken from Ground level. Switched to low flow at 1550

PUMP #: ADT's ODOR: None
 PUMP SET DEPTH: 120'

FIELD RECORD OF WELL GAUGING, PURGING, AND SAMPLING (OVERFLOW PAGE)

Site Name: NAWC TRENTON	Project No.: 1371209	Date: 11-18-02
Well ID: TW-3	Field Personnel: JW	

** Surged*

Parameter	6	7	8	9	10	11
Time (min.)	1555	1600	1405	1610		
Depth to Water (ft)	110.25	110.25	110.25	110.25		
Purge Rate (ft/min) gal/min	0.25	0.25	0.25	0.25		
Volume Purged (gal)	61	62	63	64		
pH	5.16	5.19	5.19	5.18		
Temperature (°C)	12.6	12.6	12.8	12.7		
Conductivity (Units: ms/cm)	0.229	0.226	0.227	0.226		
Dissolved Oxygen (mg/L)	10.43	10.34	10.32	10.38		
Turbidity (NTU)	0	0	0	0		
Eh (mv)	226	226	225	226		

Parameter	12	13	14	15	16	17
Time (min)						
Depth to Water (ft)						
Purge Rate (GAL/min)						
Volume Purged (GAL)						
pH						
Temperature (°C)						
Conductivity (Units:)						
Dissolved Oxygen (mg/L)						
Turbidity (NTU)						
Eh (mv)						

COMMENTS AND OBSERVATIONS _____



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**FIELD RECORD OF WELL GAUGING,
PURGING, AND SAMPLING**

SITE NAME: AGFA Peerless Photo PROJECT NUMBER: 1371211
 WELL I.D.: MW-10D WELL LOCK STATUS: Unlocked
 WELL CONDITION: New WEATHER: Partly Cloudy ~ 55°
 GAUGE DATE: 11-18-02 GAUGE TIME: 0743
 SOUNDING METHOD: WGI MEASUREMENT REF: TOC
 STICK UP/DOWN (ft): Flushmount WELL DIAMETER (in.): 4"
 PURGE DATE: 11-19-02 + 11-20-02 PURGE TIME: 0850
 PURGE METHOD: Hybrid FIELD PERSONNEL: JW
 AMBIENT AIR VOCs (ppm) Start: — End: — WELL MOUTH VOCs (ppm): Start: — End: —

- Field measured*
- A. TOTAL WELL DEPTH (ft): 779 178.34 E. CASING VOLUME FT (GAL): 0.653
 B. OPEN INTERVAL (ft): 10 F. CASING VOLUME (GAL) (D*E): 42.9
 C. DEPTH TO WATER (ft): 112.66 G. CASING VOLUMES (GAL) (F*N): 128.67
 D. H₂O COLUMN(ft) (A-C): 65.68 3 3

Parameter	Beginning	11-19-02	11-20-02			
		1 well Volume ₁	2 well Volume ₂	3 well Volume ₃	4 well Volume ₄	5 well Volume ₅
Time (min)	0850	1123	1137	1151	1205	1219
Depth to Water (ft)	112.74	112.73	112.72	112.72	112.72	
Purge Rate (l/min) Gal/min	3	3	3	3	3	3
Volume Purged (ft) G	—	1300	1342	1384	1398	1412
pH	8.20	5.80	5.81	5.81	5.81	5.80
Temperature (°C)	10.9	11.4	11.4	11.4	11.4	11.4
Conductivity (ms/cm)	0.166	0.106	0.104	0.103	0.103	0.103
Dissolved Oxygen (mg/L)	10.63	11.68	10.53	10.49	10.47	10.44
Turbidity (NTU)	39	0	0	0	0	0
Eh (mv)	180	196	189	189	189	189

TOTAL VOLUME WATER PURGED: 1418 GAL

SAMPLERS: N/A SAMPLING TIME (START/END): N/A
 SAMPLING DATE: N/A DECONTAMINATION FLUIDS USED: DI
 SAMPLE TYPE: N/A SAMPLE PRESERVATIVES: N/A
 SAMPLE BOTTLE IDs: N/A
 SAMPLE PARAMETERS: N/A

COMMENTS AND OBSERVATIONS: No samples collected - Well Development
Switched to low flow @ 1219

PUMP #: ADT 3
 PUMP SET DEPTH: 171'

ODOR: None

FIELD RECORD OF WELL GAUGING, PURGING, AND SAMPLING (OVERFLOW PAGE)

Site Name: NAWC TRENTON	Project No.: 1371209	Date: 11-20-02
Well ID: MW-10D	Field Personnel: JN	

Parameter	6	7	8	9	10	11
Time (min.)	1220	1225	1230	1235	1240	1245
Depth to Water (ft)	112.72	112.72	112.72	112.72	112.72	112.72
Purge Rate (L/min) gal/min	0.25	0.25	0.25	0.25	0.25	0.25
Volume Purged (L) G	1413	1414	1415	1416	1417	1418
pH	5.90	5.89	5.88	6.11	6.16	6.18
Temperature (°C)	11.4	11.5	12.2	12.6	12.7	12.8
Conductivity (Units: mS/cm)	0.103	0.103	0.117	0.112	0.110	0.108
Dissolved Oxygen (mg/L)	10.32	10.03	9.94	10.13	10.17	10.09
Turbidity (NTU)	0	0	0	0	0	0
Eh (mv)	184	184	184	178	176	175

Parameter	12	13	14	15	16	17
Time (min)						
Depth to Water (ft)						
Purge Rate (GAL/min)						
Volume Purged (GAL)						
pH						
Temperature (°C)						
Conductivity (Units:)						
Dissolved Oxygen (mg/L)						
Turbidity (NTU)						
Eh (mv)						

COMMENTS AND OBSERVATIONS _____

Development

FIELD RECORD OF WELL GAUGING, PURGING, AND SAMPLING

SITE NAME: AGFA Peerless Photo PROJECT NUMBER: 1371211
 WELL ID.: MW-11D WELL LOCK STATUS: Ported
 WELL CONDITION: New WEATHER: Sunny Breezy ~55°
 GAUGE DATE: 11-20-02 GAUGE TIME: 1450
 SOUNDING METHOD: WLI MEASUREMENT REF: Top
 STICK UP/DOWN (ft): flushmount WELL DIAMETER (in.): 4"
 PURGE DATE: 11-20-02 PURGE TIME: 1500
 PURGE METHOD: WLI FIELD PERSONNEL: JW
 AMBIENT AIR VOCs (ppm) Start: — End: — WELL MOUTH VOCs (ppm) Start: — End: —

A. TOTAL WELL DEPTH (ft): 220 E. CASING VOLUME/FT (GAL): 0.653
 B. OPEN INTERVAL (ft): 20 F. CASING VOLUME (GAL) (D*E): 51.8
 C. DEPTH TO WATER (ft): 140.72 G. ~~TS~~ CASING VOLUMES (GAL) (F*Ts): 156.3
 D. H₂O COLUMN(ft) (A-C): 79.28 3 3

Parameter	Beginning	1	2	3	4	5
Time (min)	1500	1610	1627	1644	1701	1718
Depth to Water (ft)	140.72	140.74	140.74	140.74	140.74	140.74
Purge Rate (D Gal/min)	3	3	3	3	3	3
Volume Purged (D Gal)	—	350	401	452	503	554
pH	5.56	5.53	5.53	5.52	5.53	5.53
Temperature (°C)	12.2	12.2	12.2	12.2	12.2	12.2
Conductivity (µm/cm)	0.230	0.231	0.230	0.230	0.230	0.231
Dissolved Oxygen (mg/L)	11.25	11.03	9.32	10.41	9.41	9.26
Turbidity (NTU)	0	0	0	0	0	0
Eh (mv)	186	201	199	206	203	204

TOTAL VOLUME WATER PURGED: ~560 GAL
 SAMPLERS: N/A SAMPLING TIME (START/END): N/A
 SAMPLING DATE: N/A DECONTAMINATION FLUIDS USED: DI
 SAMPLE TYPE: N/A SAMPLE PRESERVATIVES: N/A
 SAMPLE BOTTLE IDs: N/A
 SAMPLE PARAMETERS: N/A

COMMENTS AND OBSERVATIONS: NO Sample Collected - Well Development
Switched to low flow at 1720

PUMP #: AJST'S ODOR: NONE
 PUMP SET DEPTH: 208



FIELD RECORD OF WELL GAUGING, PURGING, AND SAMPLING (OVERFLOW PAGE)

Site Name: NAWC TRENTON	Project No.: 1371209	Date: 11-20-02
Well ID: MW-11D	Field Personnel: JN	

Parameter	6	7	8	9	10	11
Time (min.)	1720	1735	1740	1745	1750	
Depth to Water (ft)	140.74	140.73	140.73	140.73	140.73	
Purge Rate (L/min) <i>(G/min)</i>	0.25	0.25	0.25	0.25	0.25	
Volume Purged (L) <i>(G)</i>	555	556	557	558	559	
pH	5.48	5.48	5.54	5.55	5.56	
Temperature (°C)	11.9	11.8	12.4	12.6	12.8	
Conductivity (Units <i>Ms/cm</i>)	0.209	0.229	0.230	0.230	0.230	
Dissolved Oxygen (mg/L)	9.31	9.71	9.18	9.16	9.20	
Turbidity (NTU)	0	0	0	0	0	
Eh (mv)	201	205	207	206	206	

Parameter	12	13	14	15	16	17
Time (min)						
Depth to Water (ft)						
Purge Rate (GAL/min)						
Volume Purged (GAL)						
pH						
Temperature (°C)						
Conductivity (Units:)						
Dissolved Oxygen (mg/L)						
Turbidity (NTU)						
Eh (mv)						

COMMENTS AND OBSERVATIONS: Generate eff of gas 1720



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**FIELD RECORD OF WELL GAUGING,
PURGING, AND SAMPLING**

SITE NAME: AGFA Peerless Photo PROJECT NUMBER: 1371209
 WELL I.D.: MW-115 WELL LOCK STATUS: Rotated
 WELL CONDITION: New WEATHER: Foggy, Cloudy, ~50°
 GAUGE DATE: 11-21-02 GAUGE TIME: 0850
 SOUNDING METHOD: WTI MEASUREMENT REF: ROC
 STICK UP/DOWN (ft): Flushmount WELL DIAMETER (in.): 4"
 PURGE DATE: 11-21-02 PURGE TIME: 0856
 PURGE METHOD: Hybrid FIELD PERSONNEL: JW
 AMBIENT AIR VOCs (ppm) Start: End: WELL MOUTH VOCs (ppm): Start: End:

A. TOTAL WELL DEPTH (ft): 172.85 E. CASING VOLUME/FT (GAL): 0.653
 B. OPEN INTERVAL (ft): 20 F. CASING VOLUME (GAL) (D*E): 21.4
 C. DEPTH TO WATER (ft): 140.15 G. CASING VOLUMES (GAL) (F*H): 64.05
 D. H₂O COLUMN(ft) (A-C): 32.7

Parameter	Beginning	1 Well Volume	2 Well Volumes	3 Well Volumes	4 Well Volumes	5 Well Volumes
Time (min)	0856	1100	1107	1114	1121	1128
Depth to Water (ft)	140.17	140.17	140.17	140.17	140.17	140.17
Purge Rate (min) gal/min	3	422	3	3	3	3
Volume Purged (G)	0	444	444	466	488	510
pH		6.91	5.95	5.96	5.97	5.97
Temperature (°C)		12.3	12.3	12.3	12.3	12.3
Conductivity (ms/cm)		0.130	0.132	0.130	0.129	0.130
Dissolved Oxygen (mg/L)		9.85	9.35	9.33	9.28	9.38
Turbidity (NTU)		0	2	1	0	0
Eh (mv)		218	213	213	210	209

TOTAL VOLUME WATER PURGED: GAL
 SAMPLERS: N/A SAMPLING TIME (START/END): N/A
 SAMPLING DATE: N/A DECONTAMINATION FLUIDS USED: DI
 SAMPLE TYPE: N/A SAMPLE PRESERVATIVES: N/A
 SAMPLE BOTTLE IDs: N/A
 SAMPLE PARAMETERS: N/A

COMMENTS AND OBSERVATIONS: No Sample Collected - Well Development
* Can not take beginning reading no turba.

Switch to low flow @ 1130
 PUMP #: ADT'S ODOR: Nswe
 PUMP SET DEPTH: 160'

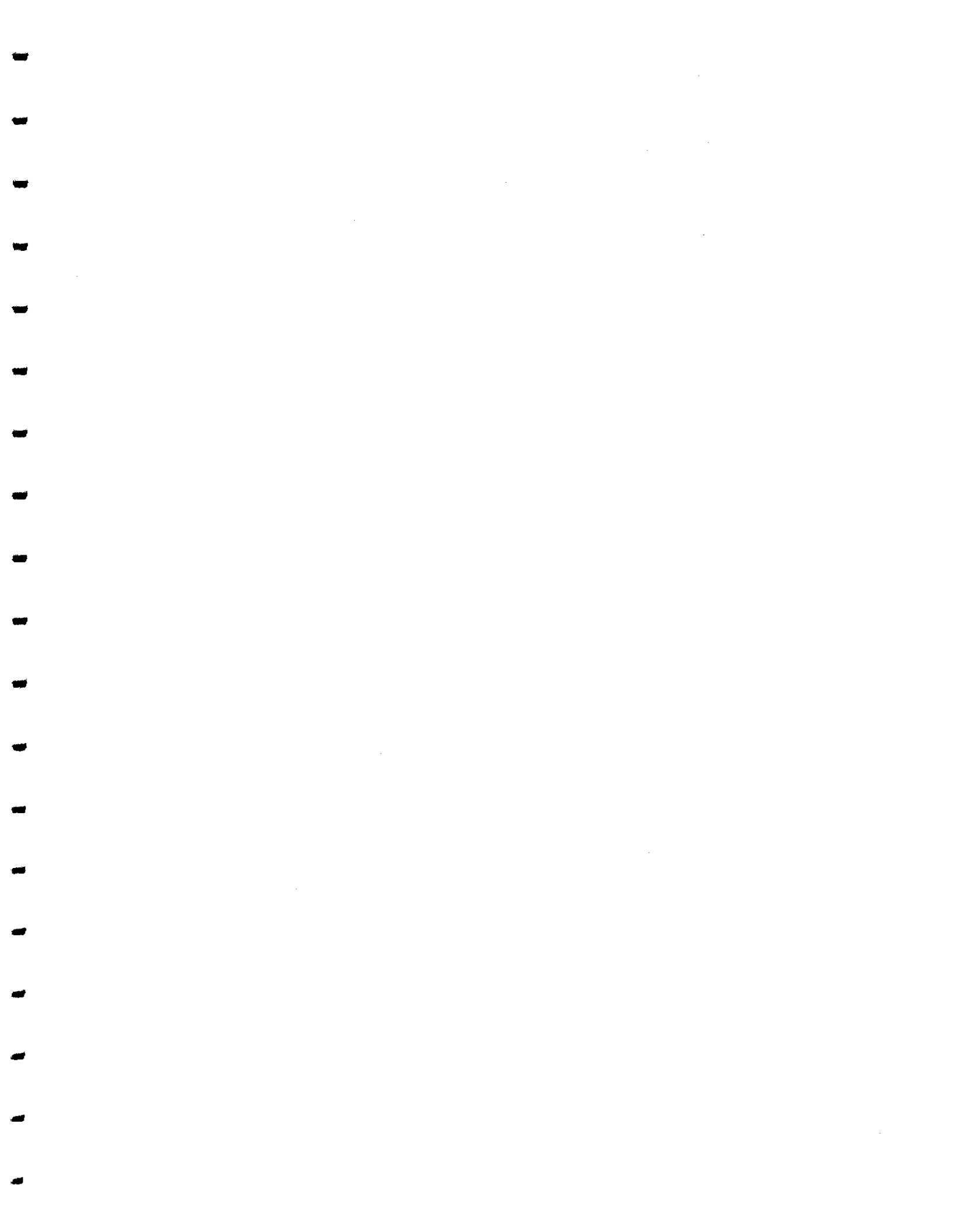
FIELD RECORD OF WELL GAUGING, PURGING, AND SAMPLING (OVERFLOW PAGE)

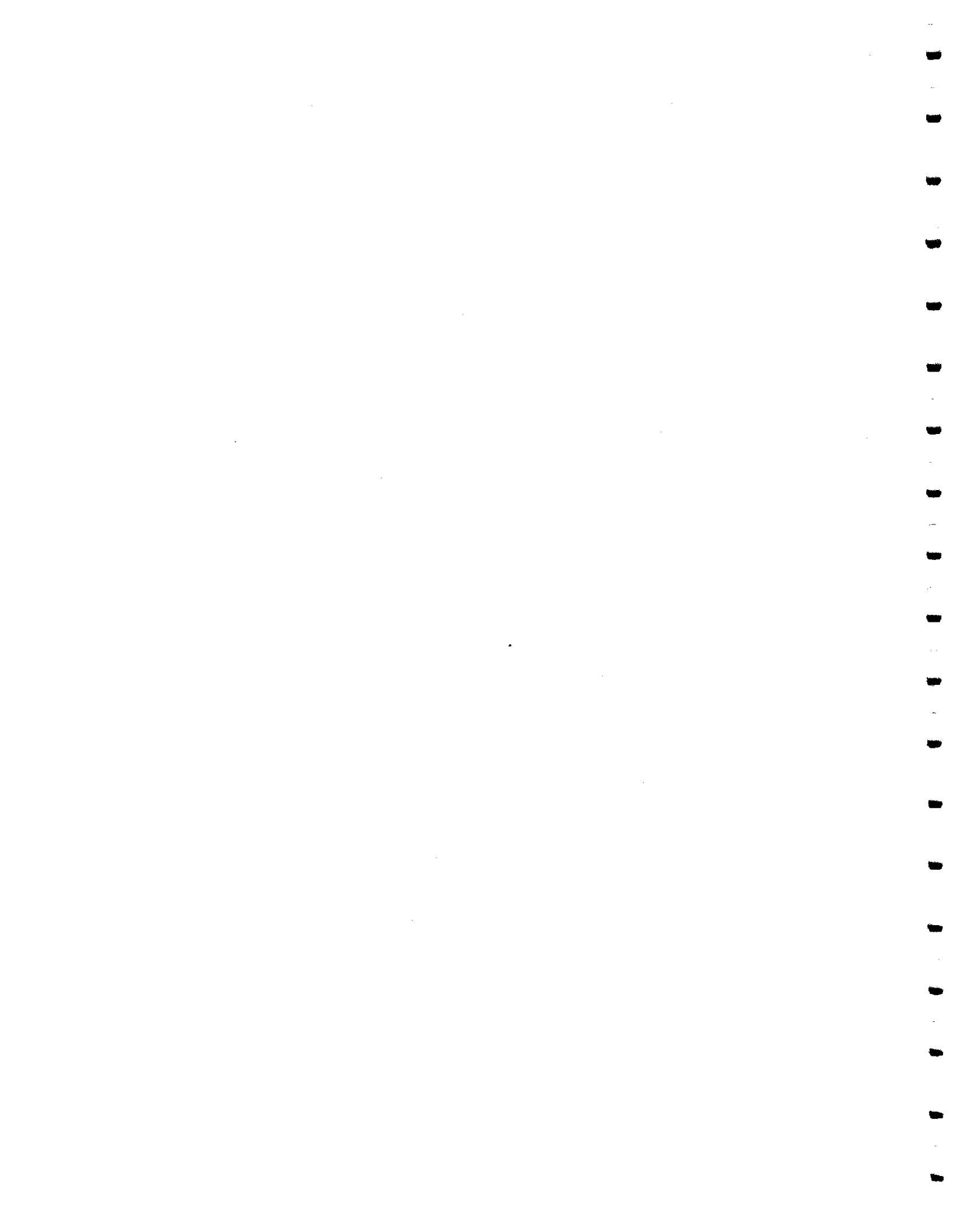
Site Name: NAWC TRENTON	Project No.: 1371209	Date: 11-21-02
Well ID: MW-115	Field Personnel: JW	

Parameter	6	7	8	9	10	11
Time (min.)	1130	1135	1140			
Depth to Water (ft)	140.15	140.15	140.15			
Purge Rate (L/min) <i>gal/min</i>	0.25	0.25	0.25			
Volume Purged (L) <i>(GAL)</i>	511	512	513			
pH	6.01	6.02	6.03			
Temperature (°C)	12.4	12.9	12.9			
Conductivity (Units: $\mu S/cm$)	0.125	0.128	0.131			
Dissolved Oxygen (mg/L)	9.08	9.16	9.18			
Turbidity (NTU)	3	2	2			
Eh (mv)	207	207	206			

Parameter	12	13	14	15	16	17
Time (min)						
Depth to Water (ft)						
Purge Rate (GAL/min)						
Volume Purged (GAL)						
pH						
Temperature (°C)						
Conductivity (Units:)						
Dissolved Oxygen (mg/L)						
Turbidity (NTU)						
Eh (mv)						

COMMENTS AND OBSERVATIONS _____







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FIELD RECORD OF WELL GAUGING, PURGING, AND SAMPLING

SITE NAME: AGFA Peerless Photo PROJECT NUMBER: 1371209
 WELL I.D.: 1100-1 WELL LOCK STATUS: not locked
 WELL CONDITION: good WEATHER: cloudy, overcast
 GAUGE DATE: 012102 GAUGE TIME: 1225
 SOUNDING METHOD: W.T. MEASUREMENT REF: TOC
 STICK UP/DOWN (ft): 1100-1 WELL DIAMETER (in.): 2
 PURGE DATE: 012102 PURGE TIME: 1302
 PURGE METHOD: Low Flow FIELD PERSONNEL: J.W. B.C.
 AMBIENT AIR VOCs (ppm) Start: _____ End: _____ WELL MOUTH VOCs (ppm): Start: _____ End: _____

- A. TOTAL WELL DEPTH (ft): 1322 E. CASING VOLUME/FT (GAL): _____
 B. OPEN INTERVAL (ft): _____ F. CASING VOLUME (GAL) (D*E): 3
 C. DEPTH TO WATER (ft): 109.29 G. ~~30~~ CASING VOLUMES (GAL) (F*E): _____
 D. H₂O COLUMN(ft) (A-C): _____

Parameter	Beginning	1	2	3	4	5
Time (min)	1307	1312	1317	1322	1327	1332
Depth to Water (ft)	109.34	109.34	109.34	109.34	109.34	109.34
Purge Rate (L/min)						
Volume Purged (L)						
pH	6.63	6.63	6.65	6.66	6.61	6.56
Temperature (°C)	9.91	9.29	9.67	10.04	11.36	12.38
Conductivity ()	488	497	494	498	490	483
Dissolved Oxygen (mg/L)	19.17	9.35	7.63	6.70	6.09	5.83
Turbidity (NTU)	68.6	65.2	60.4	63.1	67.6	59.1
Eh (mv)	148	149	156	158	158	159

TOTAL VOLUME WATER PURGED: _____ GAL
 SAMPLERS: J.W. B.C. SAMPLING TIME (START/END): 1415
 SAMPLING DATE: 012102 DECONTAMINATION FLUIDS USED: DI/M+OH
 SAMPLE TYPE: grab SAMPLE PRESERVATIVES: HNO₃
 SAMPLE BOTTLE IDs: MW 1 LOW
 SAMPLE PARAMETERS: metals

COMMENTS AND OBSERVATIONS: Had problem with generator, shut off at 1340, restarted at 1352.

PUMP #: _____ ODOR: _____
 PUMP SET DEPTH: 1222

Initials



FIELD RECORD OF WELL GAUGING, PURGING, AND SAMPLING (OVERFLOW PAGE)

Site Name: NAWC TRENTON	Project No.: 1371209	Date: 01/21/02
Well ID: mw 1	Field Personnel: S. J. B. [unclear]	

Parameter	6	7	8	9	10	11
Time (min.)	1337	1342 1354	1359	1407	1409	1414
Depth to Water (ft)	109.34	109.34	109.34	109.34	109.34	109.34
Purge Rate (L/min)						
Volume Purged (L)						
pH	6.59	6.29	6.21	6.17	6.16	6.16
Temperature (°C)	10.34	12.92	13.22	14.78	15.09	15.28
Conductivity (Units:)	.504	.458	.446	.444	.441	.438
Dissolved Oxygen (mg/L)	6.16	6.04	5.79	5.19	5.27	5.29
Turbidity (NTU)	53.2	21.0	16.4	16.4	16.5	16.8
Eh (mv)	161	162	162	162	163	163

Parameter	PGST 12	13	14	15	16	17
Time (min)	1416					
Depth to Water (ft)	109.34					
Purge Rate (GAL/min)	—					
Volume Purged (GAL)	—					
pH	6.13					
Temperature (°C)	12.75					
Conductivity (Units:)	.451					
Dissolved Oxygen (mg/L)	5.37					
Turbidity (NTU)	11.0					
Eh (mv)	165					

COMMENTS AND OBSERVATIONS



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FIELD RECORD OF WELL GAUGING, PURGING, AND SAMPLING

SITE NAME: AGFA Peerless Photo PROJECT NUMBER: 1371209
 WELL I.D.: MW-1 WELL LOCK STATUS: not locked
 WELL CONDITION: ok WEATHER: rain / snow - 30°
 GAUGE DATE: 012102 GAUGE TIME: 1420
 SOUNDING METHOD: WLT MEASUREMENT REF: top of casing
 STICK UP/DOWN (ft): Flush WELL DIAMETER (in.): 2
 PURGE DATE: _____ PURGE TIME: 1424
 PURGE METHOD: Fast Purge FIELD PERSONNEL: JM, B, D
 AMBIENT AIR VOCs (ppm) Start: _____ End: _____ WELL MOUTH VOCs (ppm): Start: _____ End: _____

A. TOTAL WELL DEPTH (ft): 132.2 E. CASING VOLUME/FT (GAL): _____
 B. OPEN INTERVAL (ft): _____ F. CASING VOLUME (GAL) (D*E): 3 3.5
 C. DEPTH TO WATER (ft): 109.42 G. ~~7.5~~ CASING VOLUMES (GAL) (F*1.9): 10.5
 D. H₂O COLUMN(ft) (A-C): 22.78

Parameter	Beginning	1	2	3	4	POST
Time (min)	1424	1426	1428	1430	1432	1437
Depth to Water (ft)	109.42	109.42	109.42	109.42	109.42	109.42
Purge Rate (L/min)	-	2	2	2	2	-
Volume Purged (L)	-	4	8.8	12	16	-
pH	6.01	5.81	5.75	5.73	5.71	5.75
Temperature (°C)	13.25	12.58	12.78	12.73	12.72	12.51
Conductivity (µS/cm)	.445	.436	.432	.429	.429	.428
Dissolved Oxygen (mg/L)	6.10	5.26	4.93	4.82	4.74	5.00
Turbidity (NTU)	47.0	4.6	2.3	1.7	1.5	1.8
Eh (mv)	171	176	179	183	186	188

792-8317

TOTAL VOLUME WATER PURGED: _____ GAL
 SAMPLERS: BUDJN SAMPLING TIME (START/END): 1437
 SAMPLING DATE: 01/21/02 DECONTAMINATION FLUIDS USED: DI, MEOH
 SAMPLE TYPE: Grab SAMPLE PRESERVATIVES: HNO₃
 SAMPLE BOTTLE IDs: MW-1
 SAMPLE PARAMETERS: Actals
 COMMENTS AND OBSERVATIONS: _____

PUMP #: _____ ODOR: _____
 PUMP SET DEPTH: 115



FIELD RECORD OF WELL GAUGING, PURGING, AND SAMPLING (OVERFLOW PAGE)

Site Name: NAWC TRENTON	Project No.: 1371209	Date:
Well ID:	Field Personnel:	

Parameter	6	7	8	9	10	11
Time (min.)						
Depth to Water (ft)						
Purge Rate (L/min)						
Volume Purged (L)						
pH						
Temperature (°C)						
Conductivity (Units:)						
Dissolved Oxygen (mg/L)						
Turbidity (NTU)						
Eh (mv)						

Parameter	12	13	14	15	16	17
Time (min)						
Depth to Water (ft)						
Purge Rate (GAL/min)						
Volume Purged (GAL)						
pH						
Temperature (°C)						
Conductivity (Units:)						
Dissolved Oxygen (mg/L)						
Turbidity (NTU)						
Eh (mv)						

COMMENTS AND OBSERVATIONS _____

FIELD RECORD OF WELL GAUGING, PURGING, AND SAMPLING

SITE NAME: AGFA Peerless Photo PROJECT NUMBER: 1371209
 WELL ID.: mw-2 WELL LOCK STATUS: not locked/not bolted
 WELL CONDITION: OK WEATHER: overcast cloudy, -40°
 GAUGE DATE: 012302 GAUGE TIME: 1112
 SOUNDING METHOD: WLF MEASUREMENT REF: top of casing
 STICK UP/DOWN (ft): flush to mt WELL DIAMETER (in.): 2
 PURGE DATE: _____ PURGE TIME: 1130
 PURGE METHOD: Low Flow FIELD PERSONNEL: JN/B.C.
 AMBIENT AIR VOCs (ppm) Start: _____ End: _____ WELL MOUTH VOCs (ppm): Start: _____ End: _____

- A. TOTAL WELL DEPTH (ft): 135.25 E. CASING VOLUME/FT (GAL): _____
 B. OPEN INTERVAL (ft): _____ F. CASING VOLUME (GAL) (D*E): _____
 C. DEPTH TO WATER (ft): 100.93 G. 1.5 CASING VOLUMES (GAL) (F*1.5): _____
 D. H₂O COLUMN(ft) (A-C): _____

Parameter	Beginning	1	2	3	4	5
Time (min)	1132	1137	1142	1147	1152	1157
Depth to Water (ft)	121.05	121.11	121.05	121.02	121.02	121.02
Purge Rate (L/min)	-	-	-	-	-	-
Volume Purged (L)	-	-	-	-	-	-
pH	5.71	5.66	5.65	5.63	5.64	5.67
Temperature (°C)	11.0	11.6	12.7	16.1	15.5	15
Conductivity (mS/cm)	0.203	0.203	0.204	0.205	0.207	0.208
Dissolved Oxygen (mg/L)	9.21	8.87	8.92	9.73	10.02	9.83
Turbidity (NTU)	15.9	14.3	8.3	4.4	3.5	2.5
Eh (mv)	270	266	249	240	239	236

TOTAL VOLUME WATER PURGED: _____ GAL
 SAMPLERS: JN/B.C. SAMPLING TIME (START/END): 1214
 SAMPLING DATE: 012301 DECONTAMINATION FLUIDS USED: D.I./MeOH
 SAMPLE TYPE: grab SAMPLE PRESERVATIVES: HNO₃
 SAMPLE BOTTLE IDs: mw-2 Low
 SAMPLE PARAMETERS: ML/L
 COMMENTS AND OBSERVATIONS: _____

PUMP #: _____ ODOR: _____
 PUMP SET DEPTH: 125



FIELD RECORD OF WELL GAUGING, PURGING, AND SAMPLING (OVERFLOW PAGE)

Site Name: NAWC TRENTON	Project No.: 1371209	Date: 012302
Well ID: MW 2	Field Personnel: JN/BaG	

Parameter	6	7	8	POST	10	11
Time (min.)	1202	1207	1212	1214		
Depth to Water (ft)	121.02	121.02	121.02	121.02		
Purge Rate (L/min)				—		
Volume Purged (L)				—		
pH	5.66	5.65	5.65	5.66		
Temperature (°C)	15.5	16.1	16.4	16.1		
Conductivity (Units: <i>mS/cm</i>)	0.205	0.203	0.204	0.206		
Dissolved Oxygen (mg/L)	9.55	9.77	9.81	9.96		
Turbidity (NTU)	2.1	1.7	1.5	1.0		
Eh (mv)	233	232	232	230		

Parameter	12	13	14	15	16	17
Time (min)						
Depth to Water (ft)						
Purge Rate (GAL/min)						
Volume Purged (GAL)						
pH						
Temperature (°C)						
Conductivity (Units:)						
Dissolved Oxygen (mg/L)						
Turbidity (NTU)						
Eh (mv)						

COMMENTS AND OBSERVATIONS _____



EA Engineering,
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Technology

FIELD RECORD OF WELL GAUGING, PURGING, AND SAMPLING

SITE NAME: AGFA Peerless Photo PROJECT NUMBER: 1371209
 WELL I.D.: mw 2 WELL LOCK STATUS: not locked / not bolted
 WELL CONDITION: ok WEATHER: clear, breezy, ~40°
 GAUGE DATE: 012302 GAUGE TIME: 1217
 SOUNDING METHOD: WLI MEASUREMENT REF: top of casing
 STICK UP/DOWN (ft): flushmount WELL DIAMETER (in.): 2
 PURGE DATE: _____ PURGE TIME: 1218
 PURGE METHOD: Foot Purge FIELD PERSONNEL: _____
 AMBIENT AIR VOCs (ppm) Start: - End: - WELL MOUTH VOCs (ppm): Start: _____ End: _____

A. TOTAL WELL DEPTH (ft): 135.25 E. CASING VOLUME/FT (GAL): _____
 B. OPEN INTERVAL (ft): _____ F. CASING VOLUME (GAL) (D*E): 3 2.4
 C. DEPTH TO WATER (ft): 121.02 G. ~~SS~~ CASING VOLUMES (GAL) (F*I*E): 7.2
 D. H₂O COLUMN(ft) (A-C): 14.23

Parameter	Beginning	1	2	3	4	5	POST
Time (min)	1219	1221	1223	1225	1227	1229	1230
Depth to Water (ft)	121.02	121.05	121.02	121.02	121.02	121.02	121.02
Purge Rate (L/min)	2	2	2	2	2	2	-
Volume Purged (L)	-	4	8	12	16	20	-
pH	5.37	5.16	5.11	5.07	5.06	5.05	5.09
Temperature (°C)	13.9	14.3	14.1	13.9	13.9	13.7	13.7
Conductivity (mS/cm)	0.209	0.212	0.213	0.212	0.213	0.213	0.214
Dissolved Oxygen (mg/L)	10.37	10.65	10.34	10.10	9.97	9.93	9.81
Turbidity (NTU)	2.7	0.9	0.8	0.6	0.5	0.5	0.7
Eh (mv)	245	266	271	275	274	274	274

TOTAL VOLUME WATER PURGED: _____ GAL
 SAMPLERS: Jwb/Bco SAMPLING TIME (START/END): 1229
 SAMPLING DATE: 012302 DECONTAMINATION FLUIDS USED: DIL MCH
 SAMPLE TYPE: grab SAMPLE PRESERVATIVES: HNO₃
 SAMPLE BOTTLE IDs: mw 2
 SAMPLE PARAMETERS: metals
 COMMENTS AND OBSERVATIONS: _____

PUMP #: _____ ODOR: _____
 PUMP SET DEPTH: 126



FIELD RECORD OF WELL GAUGING, PURGING, AND SAMPLING (OVERFLOW PAGE)

Site Name: NAWC TRENTON	Project No.: 1371209	Date:
Well ID:	Field Personnel:	

Parameter	6	7	8	9	10	11
Time (min.)						
Depth to Water (ft)						
Purge Rate (L/min)						
Volume Purged (L)						
pH						
Temperature (°C)						
Conductivity (Units:)						
Dissolved Oxygen (mg/L)						
Turbidity (NTU)						
Eh (mv)						

Parameter	12	13	14	15	16	17
Time (min)						
Depth to Water (ft)						
Purge Rate (GAL/min)						
Volume Purged (GAL)						
pH						
Temperature (°C)						
Conductivity (Units:)						
Dissolved Oxygen (mg/L)						
Turbidity (NTU)						
Eh (mv)						

COMMENTS AND OBSERVATIONS _____

FIELD RECORD OF WELL GAUGING, PURGING, AND SAMPLING

SITE NAME: AGFA Peerless Photo PROJECT NUMBER: 1371209
 WELL I.D.: Misc 2A WELL LOCK STATUS: not locked, bailed
 WELL CONDITION: good WEATHER: cloudy, windy, ~35°
 GAUGE DATE: 01/18/02 GAUGE TIME: 1210
 SOUNDING METHOD: WLT MEASUREMENT REF: top of casing
 STICK UP/DOWN (ft): flushment WELL DIAMETER (in.): 4
 PURGE DATE: 1/18/02 PURGE TIME: 1211
 PURGE METHOD: Fast Purge FIELD PERSONNEL: TB/B.E.
 AMBIENT AIR VOCs (ppm) Start: -- End: -- WELL MOUTH VOCs (ppm) Start: -- End: --

A. TOTAL WELL DEPTH (ft): 180.00 E. CASING VOLUME/FT (GAL): _____
 B. OPEN INTERVAL (ft): 10 F. CASING VOLUME (GAL) (D*E): 40
 C. DEPTH TO WATER (ft): 120.4 G. ³ CASING VOLUMES (GAL) (F*E): 120
 D. H₂O COLUMN(ft) (A-C): ~~59.6~~ 59.6

Parameter	Beginning	1	2	3	4	5
Time (min)	1212	1228	1239	1242	1250	1258
Depth to Water (ft)	120.4	120.39	120.39	120.82	120.42	120.72
Purge Rate (L/min)	-					
Volume Purged (E) gal	-	40	60	90	100	120
pH	6.50	5.94	5.88	5.83	5.82	5.80
Temperature (°C)	12.34	11.87	11.67	11.62	11.59	11.59
Conductivity (M S/cm)	0.073	0.329	0.305	0.296	0.300	0.291
Dissolved Oxygen (mg/L)	2.60	4.32	5.04	5.12	5.11	5.13
Turbidity (NTU)	3.4	0	0	0	0	0
Eh (mv)	-173	-45	-20	-8	-7	4

TOTAL VOLUME WATER PURGED: _____ GAL
 SAMPLERS: _____ SAMPLING TIME (START/END): 1307
 SAMPLING DATE: _____ DECONTAMINATION FLUIDS USED: _____
 SAMPLE TYPE: _____ SAMPLE PRESERVATIVES: _____
 SAMPLE BOTTLE IDs: _____
 SAMPLE PARAMETERS: _____
 COMMENTS AND OBSERVATIONS: _____

PUMP #: 125 ODOR: _____
 PUMP SET DEPTH: _____



FIELD RECORD OF WELL GAUGING, PURGING, AND SAMPLING (OVERFLOW PAGE)

Site Name: NAWC TRENTON	Project No.: 1371209	Date:
Well ID: <i>mw 29</i>	Field Personnel:	

Parameter	6	7 7	8	9	10	11
Time (min.)	<i>1303</i>	<i>1307</i>				
Depth to Water (ft)	<i>120.42</i>	<i>120.42</i>				
Purge Rate (L/min)		<i>-</i>				
Volume Purged (L)	<i>130</i>	<i>-</i>				
pH	<i>5.79</i>	<i>5.79</i>				
Temperature (°C)	<i>6.213</i> ↗	<i>11.96</i>				
Conductivity (Units:)	<i>11.58</i> ↘	<i>6.279</i>				
Dissolved Oxygen (mg/L)	<i>5.09</i>	<i>4.74</i>				
Turbidity (NTU)	<i>0</i>	<i>0</i>				
Eh (mv)	<i>4</i>	<i>22</i>				

Parameter	12	13	14	15	16	17
Time (min)						
Depth to Water (ft)						
Purge Rate (GAL/min)						
Volume Purged (GAL)						
pH						
Temperature (°C)						
Conductivity (Units:)						
Dissolved Oxygen (mg/L)						
Turbidity (NTU)						
Eh (mv)						

COMMENTS AND OBSERVATIONS _____

FIELD RECORD OF WELL GAUGING, PURGING, AND SAMPLING

SITE NAME: AGFA Peerless Photo PROJECT NUMBER: 1371209
 WELL I.D.: MW-2A WELL LOCK STATUS: not locked/bailed
 WELL CONDITION: good WEATHER: Sunny 40°
 GAUGE DATE: 6/18/02 GAUGE TIME: 1035
 SOUNDING METHOD: well MEASUREMENT REF: 4-in tripod
 STICK UP/DOWN (ft): flush/normal WELL DIAMETER (in.): 4
 PURGE DATE: _____ PURGE TIME: 1059
 PURGE METHOD: Low Flow FIELD PERSONNEL: TB, BAO
 AMBIENT AIR VOCs (ppm) Start: - End: - WELL MOUTH VOCs (ppm): Start: - End: -

- A. TOTAL WELL DEPTH (ft): 180.00 E. CASING VOLUME/FT (GAL): _____
 B. OPEN INTERVAL (ft): 10 F. CASING VOLUME (GAL) (D*E): _____
 C. DEPTH TO WATER (ft): 120.10 G. 1.5 CASING VOLUMES (GAL) (F*1.5): _____
 D. H₂O COLUMN(ft) (A-C): 59.9

Parameter	Beginning	1	2	3	4	5
Time (min)	1102	1107	1112	1117	1122	1127
Depth to Water (ft)	120.10	120.13	120.13	120.13	120.13	120.13
Purge Rate (L/min)	-					
Volume Purged (L)	-					
pH	6.67	6.66	6.63	6.67	6.66	6.61
Temperature (°C)	10.51	10.62	11.19	11.59	11.80	12.25
Conductivity (mS/cm)	0.661	0.653	0.626	0.586	0.552	0.952
Dissolved Oxygen (mg/L)	6.71	5.04	4.57	4.55	4.77	2.22
Turbidity (NTU)	9.3	10.5	9.4	8.9	8.8	10.0
Eh (mv)	-195	-203	-202	-186	-175	-166

TOTAL VOLUME WATER PURGED: _____ GAL
 SAMPLERS: TB/BAO SAMPLING TIME (START/END): 1159
 SAMPLING DATE: 6/18/02 DECONTAMINATION FLUIDS USED: HNO₃
 SAMPLE TYPE: grab SAMPLE PRESERVATIVES: DE / meth
 SAMPLE BOTTLE IDs: MW-2A Low
 SAMPLE PARAMETERS: metals
 COMMENTS AND OBSERVATIONS: _____

PUMP #: _____ ODOR: water has a sulfur odor
 PUMP SET DEPTH: 175 ft

FIELD RECORD OF WELL GAUGING, PURGING, AND SAMPLING (OVERFLOW PAGE)

Site Name: NAWC TRENTON	Project No.: 1371209	Date: 6/18/02
Well ID: MW-2A	Field Personnel: TB BEO	

Parameter	6	7	8	9	10	11
Time (min.)	1132	1137	1142	1147	1152	1157
Depth to Water (ft)	120.13	120.13	120.13	120.13	120.13	120.13
Purge Rate (L/min)						
Volume Purged (L) _{min}						
pH	6.57	6.57	6.57	6.57	6.57	6.59
Temperature (°C)	12.17	12.11	12.45	12.33	12.43	12.36
Conductivity (Units: $\mu S/cm$)	0.903	0.862	0.790	0.778	0.755	0.724
Dissolved Oxygen (mg/L)	2.37	2.46	2.66	2.73	2.79	2.89
Turbidity (NTU)	12.0	12.4	13.1	10.3	9.6	9.1
Eh (mv)	-157	-151	-137	-137	-135	-130

Parameter	12	13	14	15	16	17
Time (min)	1202					
Depth to Water (ft)	120.13					
Purge Rate (GAL/min)						
Volume Purged (GAL)	-					
pH	6.58					
Temperature (°C)	12.42					
Conductivity (Units: $\mu S/cm$)	0.683					
Dissolved Oxygen (mg/L)	4.22					
Turbidity (NTU)	13.5					
Eh (mv)	-121					

COMMENTS AND OBSERVATIONS * temp may be fluctuating due to the sun coming in and out. A storm front is approaching windy.

FIELD RECORD OF WELL GAUGING, PURGING, AND SAMPLING

SITE NAME: AGFA Peerless Photo PROJECT NUMBER: 1371209
 WELL I.D.: MW-3 WELL LOCK STATUS: not locked/ not bolted
 WELL CONDITION: OK WEATHER: clear, sunny, "40"
 GAUGE DATE: 08/01/02 GAUGE TIME: 0856 0835
 SOUNDING METHOD: WLI MEASUREMENT REF: top of casing
 STICK UP/DOWN (ft): flushmount WELL DIAMETER (in.): 4
 PURGE DATE: 012402 PURGE TIME: 0856
 PURGE METHOD: low flow FIELD PERSONNEL: JW/Boc
 AMBIENT AIR VOCs (ppm) Start: - End: - WELL MOUTH VOCs (ppm) Start: - End: -

- A. TOTAL WELL DEPTH (ft): 151.4 E. CASING VOLUME/FT (GAL): _____
 B. OPEN INTERVAL (ft): _____ F. CASING VOLUME (GAL) (D*E): _____
 C. DEPTH TO WATER (ft): _____ G. 1.5 CASING VOLUMES (GAL) (F*1.5): _____
 D. H₂O COLUMN(ft) (A-C): _____

Parameter	Beginning	1	2	3	4	5
Time (min)	0859	0904	0909	0914	0919	0924
Depth to Water (ft)	116.07	116.07	116.07	116.07	116.07	116.07
Purge Rate (L/min)	-	-	-	-	-	-
Volume Purged (L)	-	-	-	-	-	-
pH	5.75	5.83	5.81	5.81	5.81	5.81
Temperature (°C)	10.0	10.7	12.6	13.7	13.6	14.0
Conductivity (ms/cm)	0.835	0.788	0.707	0.691	0.683	0.659
Dissolved Oxygen (mg/L)	9.43	9.10	9.03	9.76	9.98	9.85
Turbidity (NTU)	26.4	23.8	18.0	15.4	13.6	12.1
Eh (mv)	236	212	190	181	179	179

TOTAL VOLUME WATER PURGED: _____ GAL
 SAMPLERS: Boc/JW SAMPLING TIME (START/END): 1000
 SAMPLING DATE: 01/25/02 DECONTAMINATION FLUIDS USED: DI/MEOH
 SAMPLE TYPE: Grab SAMPLE PRESERVATIVES: HNO₃
 SAMPLE BOTTLE IDs: MW-3 LOW
 SAMPLE PARAMETERS: Metals
 COMMENTS AND OBSERVATIONS: _____

PUMP #: _____ ODOR: _____
 PUMP SET DEPTH: 146

FIELD RECORD OF WELL GAUGING, PURGING, AND SAMPLING (OVERFLOW PAGE)

Site Name: NAWC TRENTON	Project No.: 1371209	Date: 1/24/02
Well ID: mw-3	Field Personnel: JN/Boc	

Parameter	6	7	8	9	10	11
Time (min.)	0929	0934	0939	0944	0949	0954
Depth to Water (ft)	116.07	116.07	116.07	116.07	116.07	116.07
Purge Rate (L/min)	-					
Volume Purged (L)	-					
pH	5.80	5.80	5.80	5.79	5.79	5.79
Temperature (°C)	13.7	13.8	13.8	13.7	14.0	13.5
Conductivity (Units: ms/cm)	0.638	0.620	0.596	0.581	0.560	0.552
Dissolved Oxygen (mg/L)	10.01	10.00	10.12	10.10	10.04	10.03
Turbidity (NTU)	10.7	9.9	9.2	8.7	7.7	7.5
Eh (mv)	178	177	175	173	171	170

Parameter	12	13	14	15	16	17
Time (min)	0959	1001				
Depth to Water (ft)	116.07	116.07				
Purge Rate (GAL/min)						
Volume Purged (GAL)						
pH	5.79	5.80				
Temperature (°C)	13.8	14.2				
Conductivity (Units: ms/cm)	0.596	0.526				
Dissolved Oxygen (mg/L)	10.03	10.03				
Turbidity (NTU)	6.8	7.7				
Eh (mv)	168					

COMMENTS AND OBSERVATIONS _____



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FIELD RECORD OF WELL GAUGING, PURGING, AND SAMPLING

SITE NAME: AGFA Peerless Photo PROJECT NUMBER: 1371209
 WELL I.D.: mw-3 WELL LOCK STATUS: not locked / not bolted
 WELL CONDITION: OK WEATHER: Sunny B=24 ~ 43°
 GAUGE DATE: 01/25/00 GAUGE TIME: 1001
 SOUNDING METHOD: WLZ MEASUREMENT REF: TOC
 STICK UP/DOWN (ft): Flushment WELL DIAMETER (in.): 4"
 PURGE DATE: _____ PURGE TIME: 1002
 PURGE METHOD: Fast Purge FIELD PERSONNEL: Bob/JN
 AMBIENT AIR VOCs (ppm) Start: _____ End: _____ WELL MOUTH VOCs (ppm) Start: _____ End: _____

A. TOTAL WELL DEPTH (ft): 151.4 E. CASING VOLUME/FT (GAL): _____
 B. OPEN INTERVAL (ft): _____ F. CASING VOLUME (GAL) (D*E): 22.5
 C. DEPTH TO WATER (ft): 116.10 G. ³ CASING VOLUMES (GAL) (F*NS): 68.4
 D. H₂O COLUMN(ft) (A-C): 34.79

Parameter	Beginning	1	2	3	⁴ POST	5
Time (min)	1004	1016	1028	1040	1047	
Depth to Water (ft)	116.1	116.10	116.10	116.10	116.16	
Purge Rate (L/min) GPM	2	2	2	2	—	
Volume Purged (L) GPM	—	24	36	48	—	
pH	5.75	5.74	5.74	5.73	5.74	
Temperature (°C)	15.2	13.0	12.9	13.0	12.9	
Conductivity (mS/cm)	0.510	0.435	0.424	0.4101	0.399	
Dissolved Oxygen (mg/L)	10.17	10.21	10.21	10.24	10.34	
Turbidity (NTU)	6.7	3.7	2.7	1.5	1.5	
Eh (mv)	169	173	170	175	176	

TOTAL VOLUME WATER PURGED: _____ GAL
 SAMPLERS: Bob/JN SAMPLING TIME (START/END): 1041
 SAMPLING DATE: 01/25/00 DECONTAMINATION FLUIDS USED: DI / Methanol
 SAMPLE TYPE: Grab SAMPLE PRESERVATIVES: HNO₃
 SAMPLE BOTTLE IDs: mw-3
 SAMPLE PARAMETERS: Metals
 COMMENTS AND OBSERVATIONS: _____

PUMP #: _____ ODOR: _____
 PUMP SET DEPTH: 121



FIELD RECORD OF WELL GAUGING, PURGING, AND SAMPLING (OVERFLOW PAGE)

Site Name: NAWC TRENTON	Project No.: 1371209	Date:
Well ID:	Field Personnel:	

Parameter	6	7	8	9	10	11
Time (min.)						
Depth to Water (ft)						
Purge Rate (L/min)						
Volume Purged (L)						
pH						
Temperature (°C)						
Conductivity (Units:)						
Dissolved Oxygen (mg/L)						
Turbidity (NTU)						
Eh (mv)						

Parameter	12	13	14	15	16	17
Time (min)						
Depth to Water (ft)						
Purge Rate (GAL/min)						
Volume Purged (GAL)						
pH						
Temperature (°C)						
Conductivity (Units:)						
Dissolved Oxygen (mg/L)						
Turbidity (NTU)						
Eh (mv)						

COMMENTS AND OBSERVATIONS _____

FIELD RECORD OF WELL GAUGING, PURGING, AND SAMPLING

SITE NAME: AGFA Peerless Photo PROJECT NUMBER: 1371209
 WELL I.D.: mw-4 WELL LOCK STATUS: not locked / not bolted
 WELL CONDITION: good WEATHER: Sunny ~35°
 GAUGE DATE: 012202 GAUGE TIME: 0900
 SOUNDING METHOD: WLI MEASUREMENT REF: top of casing
 STICK UP/DOWN (ft): Flushmount WELL DIAMETER (in.): 4
 PURGE DATE: 012202 PURGE TIME: 0932
 PURGE METHOD: Low Flow FIELD PERSONNEL: JW, B, O
 AMBIENT AIR VOCs (ppm) Start: - End: - WELL MOUTH VOCs (ppm): Start: - End: -

- A. TOTAL WELL DEPTH (ft): 129.00 E. CASING VOLUME/FT (GAL): _____
 B. OPEN INTERVAL (ft): 20 F. CASING VOLUME (GAL) (D*E): _____
 C. DEPTH TO WATER (ft): 112.46 G. 1.5 CASING VOLUMES (GAL) (F*1.5): _____
 D. H₂O COLUMN(ft) (A-C): 16.54

Parameter	Beginning	1	2	3	4	5
Time (min)	0934	0939	0939	0939	0944	0949
Depth to Water (ft)	112.51	112.51	112.51	112.51	112.51	112.51
Purge Rate (L/min)	—					
Volume Purged (L)	—					
pH	5.67	5.66	5.66	5.68	5.61	5.64
Temperature (°C)	9.74-9.55	9.99	10.10	10.52	11.41	12.05
Conductivity (mS/cm)	0.749	.754	.752	.726	.707	.689
Dissolved Oxygen (mg/L)	5.23	6.59	6.30	5.87	5.64	5.45
Turbidity (NTU)	39.3	35.3	30.7	28.6	29.6	25.7
Eh (mv)	196	181	170	162	160	164

TOTAL VOLUME WATER PURGED: _____ GAL

SAMPLERS: JW, B, O SAMPLING TIME (START/END): 0932 - 1115
 SAMPLING DATE: 012202 DECONTAMINATION FLUIDS USED: DI/MECH
 SAMPLE TYPE: grab SAMPLE PRESERVATIVES: HNO₃
 SAMPLE BOTTLE IDs: mw-4 Low C, mw-4 Low F.11
 SAMPLE PARAMETERS: Metals

COMMENTS AND OBSERVATIONS: Horiba is reading an error for DO. Before 11:00 sample could be taken, generator ran out of gas sampled at 11:15

PUMP #: 01190799
 PUMP SET DEPTH: 119

ODOR: _____



FIELD RECORD OF WELL GAUGING, PURGING, AND SAMPLING (OVERFLOW PAGE)

Site Name: NAWC TRENTON	Project No.: 1371209	Date:
Well ID:	Field Personnel:	

Parameter	6	7	8	9	10	11
Time (min.)	0954	0959	10.04	1009	1014	1019
Depth to Water (ft)	112.51	112.51	112.51	112.51	112.51	112.51
Purge Rate (L/min)						
Volume Purged (L)						
pH	5.63	5.63	5.61	5.55	5.61	5.61
Temperature (°C)	12.29	12.16	11.30	13.32	11.64	10.35
Conductivity (Units:)	0.664	0.660	0.663	0.650	0.646	0.646
Dissolved Oxygen (mg/L)	5.31	5.35	5.45	5.51	5.52	5.57
Turbidity (NTU)	21.5	19.8	16.2	15.14	12.8	11.5
Eh (mv)	164	162	164	166	166	164

Parameter	12	13	14	15	16	17
Time (min)	1024	1029	1034	1039	1130	
Depth to Water (ft)	112.51	112.51	112.51	112.51	112.49	
Purge Rate (GAL/min)						
Volume Purged (GAL)						
pH	5.61	5.61	5.61	5.60	5.50	
Temperature (°C)	9.96	10.09	12.32	12.54	16.34	
Conductivity (Units:)	0.639	0.632	0.612	0.613	0.604	
Dissolved Oxygen (mg/L)	5.40	5.21	5.32	5.24	13.00	
Turbidity (NTU)	11.5	11.3	11.4	11.0	9.4	
Eh (mv)	161	161	165	147	176	

COMMENTS AND OBSERVATIONS _____



FIELD RECORD OF WELL GAUGING, PURGING, AND SAMPLING

SITE NAME: AGFA Peerless Photo PROJECT NUMBER: 1371209
 WELL I.D.: MW-4 WELL LOCK STATUS: at 1000/1007 11/10
 WELL CONDITION: OK WEATHER: Sunny, breezy, 70°
 GAUGE DATE: 01/22/02 GAUGE TIME: _____
 SOUNDING METHOD: WLI MEASUREMENT REF: top of casing
 STICK UP/DOWN (ft): Flushment WELL DIAMETER (in.): 4
 PURGE DATE: 01/22/02 PURGE TIME: 1135
 PURGE METHOD: Fast Purge FIELD PERSONNEL: SN, BEO
 AMBIENT AIR VOCs (ppm) Start: - End: - WELL MOUTH VOCs (ppm): Start: - End: -

A. TOTAL WELL DEPTH (ft): 129.00 E. CASING VOLUME/FT (GAL): _____
 B. OPEN INTERVAL (ft): 20 F. CASING VOLUME (GAL) (D*E): 3 11
 C. DEPTH TO WATER (ft): 112.46 G. ~~IS~~ CASING VOLUMES (GAL) (F*1.5): 33
 D. H₂O COLUMN(ft) (A-C): 16.54

Parameter	Beginning	1	2	3	4	5	Post
Time (min)	1139	1147	1155	1203	1213	1219	-
Depth to Water (ft)	112.52	112.52	112.52	112.52	112.52	112.52	112.52
Purge Rate (L/min) <u>2.4/m.a</u>	1.5	1.5	1.5	1.5	1.5	1.5	-
Volume Purged (L)	-	12	28.4	38.6	49.8	59.60	-
pH	5.54	5.52	5.51	5.51	5.50	5.50	5.51
Temperature (°C)	14.33	15.83	15.22	14.98	14.84	14.84	14.55
Conductivity ()	1.16	1.01	0.95	0.950	0.814	0.788	0.765
Dissolved Oxygen (mg/L)	11.48	7.95	6.74	6.02	6.98	6.63	5.07
Turbidity (NTU)	3.6	1.6	1.1	0	0	0	0
Eh (mv)	175	180	180	183	181	182	186

TOTAL VOLUME WATER PURGED: _____ GAL
 SAMPLERS: SN BEO SAMPLING TIME (START/END): _____
 SAMPLING DATE: 01/22/02 DECONTAMINATION FLUIDS USED: DZ / M₂OH
 SAMPLE TYPE: grab SAMPLE PRESERVATIVES: HNO₃
 SAMPLE BOTTLE IDs: MW-4 4 MW-4 J.11
 SAMPLE PARAMETERS: metals

COMMENTS AND OBSERVATIONS: _____

PUMP #: _____ ODOR: _____
 PUMP SET DEPTH: 117



FIELD RECORD OF WELL GAUGING, PURGING, AND SAMPLING (OVERFLOW PAGE)

Site Name: NAWC TRENTON	Project No.: 1371209	Date:
Well ID:	Field Personnel:	

Parameter	6	7	8	9	10	11
Time (min.)						
Depth to Water (ft)						
Purge Rate (L/min)						
Volume Purged (L)						
pH						
Temperature (°C)						
Conductivity (Units:)						
Dissolved Oxygen (mg/L)						
Turbidity (NTU)						
Eh (mv)						

Parameter	12	13	14	15	16	17
Time (min)						
Depth to Water (ft)						
Purge Rate (GAL/min)						
Volume Purged (GAL)						
pH						
Temperature (°C)						
Conductivity (Units:)						
Dissolved Oxygen (mg/L)						
Turbidity (NTU)						
Eh (mv)						

COMMENTS AND OBSERVATIONS _____



FIELD RECORD OF WELL GAUGING, PURGING, AND SAMPLING

SITE NAME: AGFA Peerless Photo PROJECT NUMBER: 1371209
 WELL I.D.: mwb WELL LOCK STATUS: not locked
 WELL CONDITION: OK WEATHER: Sunny ~50°
 GAUGE DATE: 012902 GAUGE TIME: 1215
 SOUNDING METHOD: WLT MEASUREMENT REF: top of casing
 STICK UP/DOWN (ft): flushment WELL DIAMETER (in.): 4
 PURGE DATE: _____ PURGE TIME: 1225
 PURGE METHOD: Low Flow FIELD PERSONNEL: JN BOC
 AMBIENT AIR VOCs (ppm) Start: - End: - WELL MOUTH VOCs (ppm): Start: - End: -

- A. TOTAL WELL DEPTH (ft): 120.00 E. CASING VOLUME/FT (GAL): _____
 B. OPEN INTERVAL (ft): 20 F. CASING VOLUME (GAL) (D*E): _____
 C. DEPTH TO WATER (ft): 108.52 G. 1.5 CASING VOLUMES (GAL) (F*1.5): _____
 D. H₂O COLUMN(ft) (A-C): _____

Parameter	Beginning	1	2	3	4	5
Time (min)	1226	1231	1236	1241	1246	1251
Depth to Water (ft)	108.52	108.52	108.52	108.53	108.53	108.53
Purge Rate (L/min)	.5	.5	.5	.5	.5	.5
Volume Purged (L)	-	2.5	5	7.5	10	12.5
pH	5.12	5.07	5.07	5.06	5.05	5.04
Temperature (°C)	12.5	15.0	15.0	15.0	15.1	15.4
Conductivity (mS/cm)	0.326	0.300	0.300	0.291	0.289	0.287
Dissolved Oxygen (mg/L)	11.18	10.55	10.84	10.70	10.73	10.60
Turbidity (NTU)	5.3	4.3	4.6	8.5	11.1	10.5
Eh (mv)	275	265	265	264	264	263

TOTAL VOLUME WATER PURGED: _____ GAL
 SAMPLERS: JN BOC SAMPLING TIME (START/END): 1303
 SAMPLING DATE: 012902 DECONTAMINATION FLUIDS USED: DI H₂O CH
 SAMPLE TYPE: grab SAMPLE PRESERVATIVES: HNO₃
 SAMPLE BOTTLE IDs: mwb Low mwb Low Fil
 SAMPLE PARAMETERS: metals
 COMMENTS AND OBSERVATIONS: _____

PUMP #: _____ ODOR: _____
 PUMP SET DEPTH: 116



FIELD RECORD OF WELL GAUGING, PURGING, AND SAMPLING (OVERFLOW PAGE)

Site Name: NAWC TRENTON	Project No.: 1371209	Date: 01/29/02
Well ID: MW-6	Field Personnel: JN/B-10	

Parameter	6	7	POST 8	9	10	11
Time (min.)	1256	1301	1307			
Depth to Water (ft)	108.53	108.53	108.53			
Purge Rate (L/min)	.5	.5	-			
Volume Purged (L)	15	17.5	-			
pH	5.04	5.04	5.05			
Temperature (°C)	15.6	15.9	16.3			
Conductivity (Units: mS/cm)	0.288	0.290	0.289			
Dissolved Oxygen (mg/L)	10.57	10.65	10.87			
Turbidity (NTU)	9.5	8.3	6.2			
Eh (mv)	262	263	264			

Parameter	12	13	14	15	16	17
Time (min)						
Depth to Water (ft)						
Purge Rate (GAL/min)						
Volume Purged (GAL)						
pH						
Temperature (°C)						
Conductivity (Units:)						
Dissolved Oxygen (mg/L)						
Turbidity (NTU)						
Eh (mv)						

COMMENTS AND OBSERVATIONS _____



FIELD RECORD OF WELL GAUGING, PURGING, AND SAMPLING

SITE NAME: AGFA Peerless Photo PROJECT NUMBER: 1371209
 WELL I.D.: mw 6 WELL LOCK STATUS: not locked/batter
 WELL CONDITION: OK WEATHER: _____
 GAUGE DATE: 012902 GAUGE TIME: 1309
 SOUNDING METHOD: WLI MEASUREMENT REF: top of casing
 STICK UP/DOWN (ft): flushmeat WELL DIAMETER (in.): 4
 PURGE DATE: 012902 PURGE TIME: 1310
 PURGE METHOD: Fast Purge FIELD PERSONNEL: JWIBac
 AMBIENT AIR VOCs (ppm) Start: - End: - WELL MOUTH VOCs (ppm) Start: - End: -

A. TOTAL WELL DEPTH (ft): 126.00 E. CASING VOLUME/FT (GAL): _____
 B. OPEN INTERVAL (ft): 20 F. CASING VOLUME (GAL) (D*E): 11.7
 C. DEPTH TO WATER (ft): 108.53 G. ~~13~~³ CASING VOLUMES (GAL) (F*~~13~~³): 35.1
 D. H₂O COLUMN(ft) (A-C): 17.47

Parameter	Beginning	1	2	3	4	POST
Time (min)	1310	1316	1322	1328	1334	1337
Depth to Water (ft)	108.57	108.57	108.57	108.57	108.57	108.57
Purge Rate (L/min) gal/min	2	2	2	2	2	-
Volume Purged (L) gal	-	12	24	36	48	-
pH	4.99	4.95	4.90	4.85	4.83	4.84
Temperature (°C)	14.4	13.9	13.8	13.6	13.3	13.3
Conductivity (mS/cm)	0.298	0.294	0.295	0.298	0.299	0.299
Dissolved Oxygen (mg/L)	11.63	10.85	10.78	10.81	10.70	10.72
Turbidity (NTU)	4.6	2.0	0.4	0	0	0
Eh (mv)	274	288	297	305	311	311

TOTAL VOLUME WATER PURGED: _____ GAL
 SAMPLERS: JWIBac SAMPLING TIME (START/END): 1335
 SAMPLING DATE: 012902 DECONTAMINATION FLUIDS USED: DIL MeOH
 SAMPLE TYPE: grab SAMPLE PRESERVATIVES: HNO₃
 SAMPLE BOTTLE IDs: mw-6 mw-6 F.11
 SAMPLE PARAMETERS: metals
 COMMENTS AND OBSERVATIONS: _____

PUMP #: _____ ODOR: none
 PUMP SET DEPTH: 113



FIELD RECORD OF WELL GAUGING, PURGING, AND SAMPLING (OVERFLOW PAGE)

Site Name: NAWC TRENTON	Project No.: 1371209	Date:
Well ID:	Field Personnel:	

Parameter	6	7	8	9	10	11
Time (min.)						
Depth to Water (ft)						
Purge Rate (L/min)						
Volume Purged (L)						
pH						
Temperature (°C)						
Conductivity (Units:)						
Dissolved Oxygen (mg/L)						
Turbidity (NTU)						
Eh (mv)						

Parameter	12	13	14	15	16	17
Time (min)						
Depth to Water (ft)						
Purge Rate (GAL/min)						
Volume Purged (GAL)						
pH						
Temperature (°C)						
Conductivity (Units:)						
Dissolved Oxygen (mg/L)						
Turbidity (NTU)						
Eh (mv)						

COMMENTS AND OBSERVATIONS _____



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FIELD RECORD OF WELL GAUGING, PURGING, AND SAMPLING

SITE NAME: AGFA Peerless Photo PROJECT NUMBER: 1371209
 WELL I.D.: 1 1/2 WELL LOCK STATUS: not locked / batted
 WELL CONDITION: good WEATHER: cold overcast
 GAUGE DATE: 012102 GAUGE TIME: 0859
 SOUNDING METHOD: WLI MEASUREMENT REF: top of casing
 STICK UP/DOWN (ft): flushmount WELL DIAMETER (in.): 4
 PURGE DATE: 012102 PURGE TIME: 0739
 PURGE METHOD: Low Flow FIELD PERSONNEL: Jw B.C
 AMBIENT AIR VOCs (ppm) Start: - End: - WELL MOUTH VOCs (ppm) Start: - End: -

A. TOTAL WELL DEPTH (ft): 174.00 E. CASING VOLUME/FT (GAL): _____
 B. OPEN INTERVAL (ft): _____ F. CASING VOLUME (GAL) (D*E): _____
 C. DEPTH TO WATER (ft): 156.02 G. 1.5 CASING VOLUMES (GAL) (F*1.5): _____
 D. H₂O COLUMN(ft) (A-C): 17.98

Parameter	Beginning	1	2	3	4	5
Time (min)	0739	0944	0949	0954	0959	1004
Depth to Water (ft)	156.02	156.16	156.16	156.16	156.16	156.19
Purge Rate (L/min)	-					
Volume Purged (L)	-					
pH	5.78	5.85	5.85	5.87	5.87	5.86
Temperature (°C)	9.71	9.52	10.39	10.45	10.54	11.57
Conductivity (µm/cm)	1.83	1.85	1.80	1.58	1.40	1.39
Dissolved Oxygen (mg/L)	8.04	6.01	5.20	4.79	4.42	3.39
Turbidity (NTU)	5.1	7.8	26.5	45.7	42.4	21.4
Eh (mv)	175	158	152	147	133	133

TOTAL VOLUME WATER PURGED: _____ GAL
 SAMPLERS: Jw B.C SAMPLING TIME (START/END): 1040
 SAMPLING DATE: 012102 DECONTAMINATION FLUIDS USED: DE / meth
 SAMPLE TYPE: grab SAMPLE PRESERVATIVES: Distilled HNO₃
 SAMPLE BOTTLE IDs: _____
 SAMPLE PARAMETERS: metals
 COMMENTS AND OBSERVATIONS: _____

PUMP #: _____ ODOR: _____
 PUMP SET DEPTH: 104 ft.



FIELD RECORD OF WELL GAUGING, PURGING, AND SAMPLING (OVERFLOW PAGE)

Site Name: NAWC TRENTON	Project No.: 1371209	Date:
Well ID:	Field Personnel:	

Parameter	6	7	8	9	10	11
Time (min.)	1012	1014	1019	1024	1029	1034
Depth to Water (ft)	156.19	156.19	156.19	156.19	156.19	156.19
Purge Rate (L/min)						
Volume Purged (L)						
pH	5.85	5.85	5.85	5.85	5.85	5.84
Temperature (°C)	12.05	12.09	12.17	12.21	12.21	11.76
Conductivity (Units: $m\mu/cm$)	1.30	1.25	1.20	1.18	1.09	2.00
Dissolved Oxygen (mg/L)	3.75	3.70	3.60	3.57	3.61	3.62
Turbidity (NTU)	16.7	14.7	14.2	12.2	11.5	11.0
Eh (mv)	131	130	129	122	133	134

Parameter	12	13	14	15	16	17
Time (min)	1039					
Depth to Water (ft)	156.19					
Purge Rate (GAL/min)						
Volume Purged (GAL)						
pH	5.80					
Temperature (°C)	11.15					
Conductivity (Units:)	1.04					
Dissolved Oxygen (mg/L)	3.59					
Turbidity (NTU)	11.4					
Eh (mv)	135					

COMMENTS AND OBSERVATIONS _____

FIELD RECORD OF WELL GAUGING, PURGING, AND SAMPLING

SITE NAME: AGFA Peerless Photo PROJECT NUMBER: 1371209
 WELL I.D.: mic-75 WELL LOCK STATUS: not locked/batted
 WELL CONDITION: good WEATHER: rainy 30°
 GAUGE DATE: 01/21/02 GAUGE TIME: 10:48
 SOUNDING METHOD: WLT MEASUREMENT REF: top of casing
 STICK UP/DOWN (ft): flush mount WELL DIAMETER (in.): 4
 PURGE DATE: 01/21/02 PURGE TIME: 1050
 PURGE METHOD: Fast Purge FIELD PERSONNEL: JN, BEO
 AMBIENT AIR VOCs (ppm) Start: _____ End: _____ WELL MOUTH VOCs (ppm) Start: _____ End: _____

A. TOTAL WELL DEPTH (ft): 174.00 E. CASING VOLUME/FT (GAL): _____
 B. OPEN INTERVAL (ft): _____ F. CASING VOLUME (GAL) (D*E): 3 11.7
 C. DEPTH TO WATER (ft): 156.2 G. ~~13~~ CASING VOLUMES (GAL) (E*F): 35.2
 D. H₂O COLUMN(ft) (A-C): 17.8

Parameter	Beginning	1	2	3	4	5	POST
Time (min)	1050	1053	1056	1059	1100	1106	1134
Depth to Water (ft)	156.2	156.35	156.35	156.35	156.35	156.35	
Purge Rate (gpm)	2	2	2	2	2	2	
Volume Purged (gal)	-	18	30	42	54	66	
pH	5.75	5.73	5.16	5.17	5.17	5.77	5.92
Temperature (°C)	16.6	15.23	14.3	14.7	13.87	13.52	14.01
Conductivity (mS/cm)	893	90	87	86.1	719	784	796
Dissolved Oxygen (mg/L)	5.90	6.27	4.5	4.5	4.52	4.50	5.15
Turbidity (NTU)	427	58.1	10.4	8.7	9.9	8.7	8.5
Eh (mv)	132	148	157	163	166	167	166

TOTAL VOLUME WATER PURGED: _____ GAL
 SAMPLERS: JN, BEO SAMPLING TIME (START/END): 1130
 SAMPLING DATE: 01/21/02 DECONTAMINATION FLUIDS USED: D.I./MeOH
 SAMPLE TYPE: grab SAMPLE PRESERVATIVES: HNO₃
 SAMPLE BOTTLE IDs: mic-75
 SAMPLE PARAMETERS: me fols
 COMMENTS AND OBSERVATIONS: _____

PUMP #: _____ ODOR: none
 PUMP SET DEPTH: 161 ft

FIELD RECORD OF WELL GAUGING, PURGING, AND SAMPLING (OVERFLOW PAGE)

Site Name: NAWC TRENTON	Project No.: 1371209	Date:
Well ID:	Field Personnel:	

Parameter	6	7	8	9	10	11
Time (min.)						
Depth to Water (ft)						
Purge Rate (L/min)						
Volume Purged (L)						
pH						
Temperature (°C)						
Conductivity (Units:)						
Dissolved Oxygen (mg/L)						
Turbidity (NTU)						
Eh (mv)						

Parameter	12	13	14	15	16	17
Time (min)						
Depth to Water (ft)						
Purge Rate (GAL/min)						
Volume Purged (GAL)						
pH						
Temperature (°C)						
Conductivity (Units:)						
Dissolved Oxygen (mg/L)						
Turbidity (NTU)						
Eh (mv)						

COMMENTS AND OBSERVATIONS _____



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FIELD RECORD OF WELL GAUGING, PURGING, AND SAMPLING

SITE NAME: AGFA Peerless Photo PROJECT NUMBER: 1371209
 WELL I.D.: MW-7D WELL LOCK STATUS: not locked / bottles
 WELL CONDITION: OK WEATHER: Sunny, clear, ~40°
 GAUGE DATE: 012902 GAUGE TIME: 0820
 SOUNDING METHOD: WLT MEASUREMENT REF: top of casing
 STICK UP/DOWN (ft): flushmount WELL DIAMETER (in.): 4
 PURGE DATE: 012902 PURGE TIME: 0917
 PURGE METHOD: Fast Purge FIELD PERSONNEL: JNL BCO
 AMBIENT AIR VOCs (ppm) Start: - End: - WELL MOUTH VOCs (ppm): Start: - End: -

A. TOTAL WELL DEPTH (ft): 205.00 E. CASING VOLUME/FT (GAL): -
 B. OPEN INTERVAL (ft): - F. CASING VOLUME (GAL) (D*E): ~32
 C. DEPTH TO WATER (ft): 154.99 G. ~~IS~~ CASING VOLUMES (GAL) (F*~~IS~~): 3 76
 D. H₂O COLUMN(ft) (A-C): ~~45.01~~
50.01

Parameter	Beginning	1	2	3	4	5
Time (min)	0919	0935	0951	1007	1023	1039
Depth to Water (ft)	155.1	154.95	154.95	154.95	154.95	154.95
Purge Rate (L/min)	2	↑32	↑64	↑96	128	2
Volume Purged (L)	-	62	122	182	242	44
pH	5.42	5.57	5.46	5.43	5.43	5.43
Temperature (°C)	12.7	13.7	13.8	13.7	13.8	13.5
Conductivity (ms/cm)	0.644	1.06	.567	.388	.358	.348
Dissolved Oxygen (mg/L)	6.72	5.43	7.47	9.21	9.61	10.2 ↑
Turbidity (NTU)	98.0	55.2	24.6	13.9	11.5	9.56 ↓
Eh (mv)	213	204	209	229	243	250

TOTAL VOLUME WATER PURGED: - GAL
 SAMPLERS: JNL BCO SAMPLING TIME (START/END): -
 SAMPLING DATE: 012902 DECONTAMINATION FLUIDS USED: DZ1 MeOH
 SAMPLE TYPE: grab SAMPLE PRESERVATIVES: HNO₃
 SAMPLE BOTTLE IDs: MW-7D MW-7D FilH Dup
 SAMPLE PARAMETERS: metals
 COMMENTS AND OBSERVATIONS: -

PUMP #: - ODOR: None
 PUMP SET DEPTH: 160ft



FIELD RECORD OF WELL GAUGING, PURGING, AND SAMPLING (OVERFLOW PAGE)

Site Name: NAWC TRENTON	Project No.: 1371209	Date: 12/9/02
Well ID: MW-7D	Field Personnel: JN/B.C.	

Parameter	6	POST	8	9	10	11
Time (min.)	1055	1123				
Depth to Water (ft)	155.94					
Purge Rate (L/min)	2					
Volume Purged (L)						
pH	5.43	5.51				
Temperature (°C)	13.5	13.9				
Conductivity (Units: $\mu S/cm$)	.342	0.346				
Dissolved Oxygen (mg/L)	9.65	10.11				
Turbidity (NTU)	9.4	8.3				
Eh (mv)	255	223				

Parameter	12	13	14	15	16	17
Time (min)						
Depth to Water (ft)						
Purge Rate (GAL/min)						
Volume Purged (GAL)						
pH						
Temperature (°C)						
Conductivity (Units:)						
Dissolved Oxygen (mg/L)						
Turbidity (NTU)						
Eh (mv)						

COMMENTS AND OBSERVATIONS _____

Do on Thursday

FIELD RECORD OF WELL GAUGING, PURGING, AND SAMPLING

SITE NAME: AGFA Peerless Photo PROJECT NUMBER: 1371209
 WELL I.D.: MW-7D WELL LOCK STATUS: not locked/bolted
 WELL CONDITION: OK WEATHER: overcast 35-40
 GAUGE DATE: 012402 GAUGE TIME: 0845
 SOUNDING METHOD: WLZ MEASUREMENT REF: top of casing
 STICK UP/DOWN (ft): flushmount WELL DIAMETER (in.): 4
 PURGE DATE: 012402 PURGE TIME: 0905-0930
 PURGE METHOD: Low Flow FIELD PERSONNEL: JW/Bco
 AMBIENT AIR VOCs (ppm) Start: - End: - WELL MOUTH VOCs (ppm) Start: - End: -

- A. TOTAL WELL DEPTH (ft): 205.00 E. CASING VOLUME/FT (GAL): _____
- B. OPEN INTERVAL (ft): _____ F. CASING VOLUME (GAL) (D*E): _____
- C. DEPTH TO WATER (ft): 154.88 G. 1.5 CASING VOLUMES (GAL) (F*1.5): _____
- D. H₂O COLUMN(ft) (A-C): _____

Parameter	Beginning	1	2	3	4	5
Time (min)	0935	0940	0945	0950	0955	1000
Depth to Water (ft)	154.88	154.88	154.88	154.88	154.88	154.88
Purge Rate (L/min)						
Volume Purged (L)						
pH	5.43	5.53	5.53	5.54	5.52	5.53
Temperature (°C)	11.2	13.0	15.2	15.1	14.8	14.9
Conductivity (µS/cm)	1.03	1.08	1.50	1.40	1.19	0.98
Dissolved Oxygen (mg/L)	9.38	7.35	7.80	7.97	8.01	7.91
Turbidity (NTU)	634	906	897	761	381	456
Eh (mv)	181	118	124	128	131	127

TOTAL VOLUME WATER PURGED: _____ GAL
 SAMPLERS: JW/Bco SAMPLING TIME (START/END): _____
 SAMPLING DATE: 012402 DECONTAMINATION FLUIDS USED: DZ/4.0M
 SAMPLE TYPE: grab SAMPLE PRESERVATIVES: HNO₃
 SAMPLE BOTTLE IDs: MW-7D Low, Low Dup, MW-7D Low F: 11
 SAMPLE PARAMETERS: Metals

COMMENTS AND OBSERVATIONS: Got ready to start purging at 0905 but pump would not work. So removed pump + tubing and used another pump.

PUMP #: 35 ODOR: _____
 PUMP SET DEPTH: 195 ft

FIELD RECORD OF WELL GAUGING, PURGING, AND SAMPLING (OVERFLOW PAGE)

Site Name: NAWC TRENTON	Project No.: 1371209	Date: 022 012402
Well ID: MW-07D	Field Personnel: SW/BCL	

Parameter	6	7	8	9	10	11
Time (min.)	1005	1010	1015	1020	1025	1030
Depth to Water (ft)	154.88	154.88	154.88	154.88	154.88	154.88
Purge Rate (L/min)	-	-	-	-	-	-
Volume Purged (L)	-	-	-	-	-	-
pH	5.53	5.50	5.50	5.48	5.47	5.44
Temperature (°C)	14.8	14.6	14.4	14.7	14.7	14.5
Conductivity (Units: <i>ms/cm</i>)	0.90	0.71	0.684	0.590	0.554	0.507
Dissolved Oxygen (mg/L)	7.94	7.48	7.90	8.05	5.66	8.36
Turbidity (NTU)	416	379	192	122	91.6	65.1
Eh (mv)	120	129	131	137	145	150

Parameter	12	13	14	15	16	17
Time (min)	1035	1040	1045	1050	1055	1100
Depth to Water (ft)	154.88	154.88	154.88	154.88	154.88	154.88
Purge Rate (GAL/min)	-	-	-	-	-	-
Volume Purged (GAL)	-	-	-	-	-	-
pH	5.10	5.05	5.05	5.05	5.05	5.06
Temperature (°C)	14.2	13.9	13.8	13.8	13.7	13.8
Conductivity (Units: <i>ms/cm</i>)	0.507	0.500	0.494	0.489	0.504	0.632
Dissolved Oxygen (mg/L)	8.31	8.25	8.12	8.02	7.95	7.92
Turbidity (NTU)	72.2	66.8	59.4	47.5	42.8	120
Eh (mv)	179	186	188	189	187	176

COMMENTS AND OBSERVATIONS @ 1015 started to lightly rain

FIELD RECORD OF WELL GAUGING, PURGING, AND SAMPLING (OVERFLOW PAGE)

Site Name: NAWC TRENTON	Project No.: 1371209	Date: 01/24/02
Well ID: MW - 7D	Field Personnel: Bae/JN	

Parameter	18	19	20	21	22	23
Time (min.)	1105	1110	1115	1120	1125	1130
Depth to Water (ft)	154.88	154.88	154.88	154.88	154.88	154.88
Purge Rate (L/min)	-	-	-	-	-	-
Volume Purged (L)	-	-	-	-	-	-
pH	5.11	5.14	5.15	5.15	5.15	5.14
Temperature (°C)	15.3	15.7	15.8	15.9	16.10	15.2
Conductivity (mS/cm)	0.623	0.581	0.571	0.555	0.538	0.529
Dissolved Oxygen (mg/L)	7.70	8.06	8.25	8.28	8.44	8.60
Turbidity (NTU)	83.4	64.8	55.6	54.0	43.8	38.8
Eh (mv)	173	175	177	177	180	184

Parameter	24	25	26	27	28	29
Time (min)	1135	1140 1200	1145 1200	1150	1155	1200
Depth to Water (ft)	158.44	158.44	158.44	158.44	158.44	158.44
Purge Rate (L/min)	-	-	-	-	-	-
Volume Purged (L)	-	-	-	-	-	-
pH	5.13	5.13	5.12	5.12	5.13	5.14
Temperature (°C)	14.4	13.8	13.2	12.9	12.6	12.4
Conductivity (mS/cm)	0.521	0.525	0.552	0.578	0.606	0.642
Dissolved Oxygen (mg/L)	8.72	8.63	8.53	8.34	8.21	8.06
Turbidity (NTU)	36.8	37.5	45.7	49.7	69.5	76.1
Eh (mv)	186	187	187	186	184	181

COMMENTS AND OBSERVATIONS: Going beyond 2 hour limit b/c Chris Kerlish wants turbidity stable b/c of importance of this well.



FIELD RECORD OF WELL GAUGING, PURGING, AND SAMPLING (OVERFLOW PAGE)

Site Name: NAWC TRENTON	Project No.: 1371209	Date: 01/24/02
Well ID: MW - 7D	Field Personnel: Bob / JN	

Parameter	6	7	8	9	10	11
Time (min.)	1205	1210	1215	1220	1225	1230
Depth to Water (ft)	154.88	154.88				
Purge Rate (L/min)	—	—	—			
Volume Purged (L)	—	—	—			
pH	5.16	5.19				
Temperature (°C)	12.5	11.8				
Conductivity (Units: ms/cm)	0.676	0.723				
Dissolved Oxygen (mg/L)	7.89	8.22				
Turbidity (NTU)	77.8	80.7				
Eh (mv)	178	175				

Parameter	12	13	14	15	16	17
Time (min)						
Depth to Water (ft)						
Purge Rate (GAL/min)						
Volume Purged (GAL)						
pH						
Temperature (°C)						
Conductivity (Units:)						
Dissolved Oxygen (mg/L)						
Turbidity (NTU)						
Eh (mv)						

COMMENTS AND OBSERVATIONS _____

FIELD RECORD OF WELL GAUGING, PURGING, AND SAMPLING

SITE NAME: AGFA Peerless Photo PROJECT NUMBER: 1371209
 WELL I.D.: _____ WELL LOCK STATUS: _____
 WELL CONDITION: _____ WEATHER: _____

GAUGE DATE: _____ GAUGE TIME: _____
 SOUNDING METHOD: _____ MEASUREMENT REF: _____
 STICK UP/DOWN (ft): _____ WELL DIAMETER (in.): _____

PURGE DATE: _____ PURGE TIME: _____
 PURGE METHOD: _____ FIELD PERSONNEL: _____
 AMBIENT AIR VOCs (ppm) Start: _____ End: _____ WELL MOUTH VOCs (ppm): Start: _____ End: _____

- A. TOTAL WELL DEPTH (ft): _____ E. CASING VOLUME/FT (GAL): _____
 B. OPEN INTERVAL (ft): _____ F. CASING VOLUME (GAL) (D*E): _____
 C. DEPTH TO WATER (ft): _____ G. 1.5 CASING VOLUMES (GAL) (F*1.5): _____
 D. H₂O COLUMN(ft) (A-C): _____

Parameter	Beginning	1	2	3	4	5
Time (min)						
Depth to Water (ft)						
Purge Rate (L/min)						
Volume Purged (L)						
pH						
Temperature (°C)						
Conductivity ()						
Dissolved Oxygen (mg/L)						
Turbidity (NTU)						
Eh (mv)						

TOTAL VOLUME WATER PURGED: _____ GAL

SAMPLERS: _____ SAMPLING TIME (START/END) : _____

SAMPLING DATE: _____ DECONTAMINATION FLUIDS USED: _____

SAMPLE TYPE: _____ SAMPLE PRESERVATIVES: _____

SAMPLE BOTTLE IDs: _____

SAMPLE PARAMETERS: _____

COMMENTS AND OBSERVATIONS: _____

PUMP #:

ODOR:

PUMP SET DEPTH:



FIELD RECORD OF WELL GAUGING, PURGING, AND SAMPLING

SITE NAME: AGFA Peerless Photo PROJECT NUMBER: 1371209
 WELL I.D.: MW 33 WELL LOCK STATUS: not locked/buffed
 WELL CONDITION: OK WEATHER: clear, -3°
 GAUGE DATE: 01/18/02 GAUGE TIME: 0811
 SOUNDING METHOD: WLT MEASUREMENT REF: top of casing
 STICK UP/DOWN (ft): flush/vent WELL DIAMETER (in.): 4
 PURGE DATE: 02 01/18/02 PURGE TIME: 0370
 PURGE METHOD: Low Flow FIELD PERSONNEL: TG, B.O.
 AMBIENT AIR VOCs (ppm) Start: _____ End: _____ WELL MOUTH VOCs (ppm): Start: _____ End: _____

- A. TOTAL WELL DEPTH (ft): 151.00 E. CASING VOLUME/FT (GAL): _____
 B. OPEN INTERVAL (ft): _____ F. CASING VOLUME (GAL) (D*E): _____
 C. DEPTH TO WATER (ft): 120.91 G. 1.5 CASING VOLUMES (GAL) (F*1.5): _____
 D. H₂O COLUMN(ft) (A-C): 30.09

Parameter	Beginning	1	2	3	4	5
Time (min)	0375	0350	0555	0900	0905	0910
Depth to Water (ft)	120.91	120.61	120.63	120.63	120.63	120.63
Purge Rate (L/min)						
Volume Purged (L)						
pH	5.47	5.60	5.59	5.59	5.59	5.61
Temperature (°C)	9.42	9.35	10.07	10.62	11.11	11.33
Conductivity (µS/cm)	0.593	0.598	0.590	0.571	0.566	0.564
Dissolved Oxygen (mg/L)	7.07	6.55	6.24	6.18	5.63	5.54
Turbidity (NTU)	7.4	3.9	9.1	4.8	4.4	4.7
Eh (mv)	177	188	193	185	184	183

TOTAL VOLUME WATER PURGED: _____ GAL
 SAMPLERS: TG, B.O. SAMPLING TIME (START/END): 0912
 SAMPLING DATE: 1/18/02 DECONTAMINATION FLUIDS USED: DJ mean
 SAMPLE TYPE: grab SAMPLE PRESERVATIVES: HNO₃
 SAMPLE BOTTLE IDs: MW-33-Low
 SAMPLE PARAMETERS: metals

COMMENTS AND OBSERVATIONS: Horiba pt has an error for DO Temp was increasing b/c horiba was in a sunny spot

PUMP #: 0190799
 PUMP SET DEPTH: 140 ft

ODOR: none



FIELD RECORD OF WELL GAUGING, PURGING, AND SAMPLING (OVERFLOW PAGE)

Site Name: NAWC TRENTON	Project No.: 1371209	Date:
Well ID:	Field Personnel:	

Parameter	6	7	8	9	10	11
Time (min.)						
Depth to Water (ft)						
Purge Rate (L/min)						
Volume Purged (L)						
pH						
Temperature (°C)						
Conductivity (Units:)						
Dissolved Oxygen (mg/L)						
Turbidity (NTU)						
Eh (mv)						

Parameter	12	13	14	15	16	17
Time (min)						
Depth to Water (ft)						
Purge Rate (GAL/min)						
Volume Purged (GAL)						
pH						
Temperature (°C)						
Conductivity (Units:)						
Dissolved Oxygen (mg/L)						
Turbidity (NTU)						
Eh (mv)						

COMMENTS AND OBSERVATIONS _____

FIELD RECORD OF WELL GAUGING, PURGING, AND SAMPLING

SITE NAME: AGFA Peerless Photo PROJECT NUMBER: 1371209
 WELL I.D.: MW 33 WELL LOCK STATUS: not locked/better
 WELL CONDITION: good WEATHER: Sunny 35°
 GAUGE DATE: 01302 GAUGE TIME: 0918
 SOUNDING METHOD: WT MEASUREMENT REF: top of casing
 STICK UP/DOWN (ft): Fluxometer WELL DIAMETER (in.): 4
 PURGE DATE: 01302 PURGE TIME: 0920
 PURGE METHOD: Fast Purge FIELD PERSONNEL: TB, B&O
 AMBIENT AIR VOCs (ppm) Start: - End: - WELL MOUTH VOCs (ppm): Start: - End: -

- A. TOTAL WELL DEPTH (ft): 151.00 E. CASING VOLUME/FT (GAL): _____
 B. OPEN INTERVAL (ft): _____ F. CASING VOLUME (GAL) (D*E): 3 19.51
 C. DEPTH TO WATER (ft): 120.65 G. ~~15~~ CASING VOLUMES (GAL) (F*E): 53.71
 D. H₂O COLUMN(ft) (A-C): 30.35

Parameter	Beginning	1	2	3	4	5	Post
Time (min)	0920	0928	0932	0939	0948	0953	0956
Depth to Water (ft)	120.65	120.64	120.64	120.64	120.64	120.64	120.64
Purge Rate (L/min) <u>9.11/m.n</u>	2						
Volume Purged (L)	-	30	50 40	60	80	90	-
pH	5.19	5.21	5.27	5.28	5.28	5.27	5.32
Temperature (°C)	12.81	12.00	11.87	11.78	11.73	11.70	11.77
Conductivity (mS/cm)	0.520	0.481	0.491	0.475	0.475	0.495	0.520
Dissolved Oxygen (mg/L)	6.46	5.62	5.57	5.45	5.30	5.50 5.31	5.37
Turbidity (NTU)	15.4	12.3	12.2	6.0	5.3	5.50	5.5
Eh (mv)	200	218	221	227	233	230	235

TOTAL VOLUME WATER PURGED: _____ GAL
 SAMPLERS: TB, B&O SAMPLING TIME (START/END): 0956
 SAMPLING DATE: 01302 DECONTAMINATION FLUIDS USED: DI/magn
 SAMPLE TYPE: grab SAMPLE PRESERVATIVES: none
 SAMPLE BOTTLE IDs: MW 33
 SAMPLE PARAMETERS: metals
 COMMENTS AND OBSERVATIONS: Horiba has error for DO

PUMP #: 0190719 ODOR: none
 PUMP SET DEPTH: 125 ft

FIELD RECORD OF WELL GAUGING, PURGING, AND SAMPLING (OVERFLOW PAGE)

Site Name: NAWC TRENTON	Project No.: 1371209	Date:
Well ID:	Field Personnel:	

Parameter	6	7	8	9	10	11
Time (min.)						
Depth to Water (ft)						
Purge Rate (L/min)						
Volume Purged (L)						
pH						
Temperature (°C)						
Conductivity (Units:)						
Dissolved Oxygen (mg/L)						
Turbidity (NTU)						
Eh (mv)						

Parameter	12	13	14	15	16	17
Time (min)						
Depth to Water (ft)						
Purge Rate (GAL/min)						
Volume Purged (GAL)						
pH						
Temperature (°C)						
Conductivity (Units:)						
Dissolved Oxygen (mg/L)						
Turbidity (NTU)						
Eh (mv)						

COMMENTS AND OBSERVATIONS _____



EA Engineering,
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FIELD RECORD OF WELL GAUGING, PURGING, AND SAMPLING

SITE NAME: AGFA Peerless Photo PROJECT NUMBER: 1371209
 WELL I.D.: MW-9 WELL LOCK STATUS: Locked
 WELL CONDITION: good WEATHER: cloudy, breeze, -33°
 GAUGE DATE: 012202 GAUGE TIME: 1305
 SOUNDING METHOD: WZ MEASUREMENT REF: top of casing
 STICK UP/DOWN (ft): up WELL DIAMETER (in.): 2
 PURGE DATE: 012202 PURGE TIME: 1327
 PURGE METHOD: Low Flow FIELD PERSONNEL: JW/BEO
 AMBIENT AIR VOCs (ppm) Start: _____ End: _____ WELL MOUTH VOCs (ppm): Start: _____ End: _____

A. TOTAL WELL DEPTH (ft): 118.00 E. CASING VOLUME/FT (GAL): _____
 B. OPEN INTERVAL (ft): 20 F. CASING VOLUME (GAL) (D*E): _____
 C. DEPTH TO WATER (ft): 104.02 G. 1.5 CASING VOLUMES (GAL) (F*1.5): _____
 D. H₂O COLUMN(ft) (A-C): 13.98

Parameter	Beginning	1	2	3	4	5	POB
Time (min)	1327	1332	1337	1342	1347	1352	1357
Depth to Water (ft)	104.11	104.06	104.06	104.06	104.06	104.06	104.06
Purge Rate (L/min)	-						-
Volume Purged (L)	-						-
pH	5.98	5.88	5.86	5.84	5.83	5.83	5.82
Temperature (°C)	10.28	10.54	11.46	13.21	13.85	13.79	13.42
Conductivity (µS/cm)	372	349	341	338	334	335	335
Dissolved Oxygen (mg/L)	0.15	4.72	8.53	4.25	4.41	4.46	4.45
Turbidity (NTU)	15.0	3.7	5.8	3.2	0.7	0.6	0
Eh (mv)	193	183	181	179	180	180	182

TOTAL VOLUME WATER PURGED: _____ GAL
 SAMPLERS: JW/BEO SAMPLING TIME (START/END): 1356
 SAMPLING DATE: 012202 DECONTAMINATION FLUIDS USED: D.I. / NaOH
 SAMPLE TYPE: grab SAMPLE PRESERVATIVES: HNS₃
 SAMPLE BOTTLE IDs: MW-9-Low
 SAMPLE PARAMETERS: Metals
 COMMENTS AND OBSERVATIONS: _____

PUMP #: _____ ODOR: none
 PUMP SET DEPTH: 108

FIELD RECORD OF WELL GAUGING, PURGING, AND SAMPLING (OVERFLOW PAGE)

Site Name: NAWC TRENTON	Project No.: 1371209	Date:
Well ID:	Field Personnel:	

Parameter	6	7	8	9	10	11
Time (min.)						
Depth to Water (ft)						
Purge Rate (L/min)						
Volume Purged (L)						
pH						
Temperature (°C)						
Conductivity (Units:)						
Dissolved Oxygen (mg/L)						
Turbidity (NTU)						
Eh (mv)						

Parameter	12	13	14	15	16	17
Time (min)						
Depth to Water (ft)						
Purge Rate (GAL/min)						
Volume Purged (GAL)						
pH						
Temperature (°C)						
Conductivity (Units:)						
Dissolved Oxygen (mg/L)						
Turbidity (NTU)						
Eh (mv)						

COMMENTS AND OBSERVATIONS _____



EA Engineering,
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Technology

FIELD RECORD OF WELL GAUGING, PURGING, AND SAMPLING

SITE NAME: AGFA Peerless Photo PROJECT NUMBER: 1371209
 WELL I.D.: MW-9 WELL LOCK STATUS: _____
 WELL CONDITION: _____ WEATHER: _____
 GAUGE DATE: 012202 GAUGE TIME: _____
 SOUNDING METHOD: _____ MEASUREMENT REF: _____
 STICK UP/DOWN (ft): _____ WELL DIAMETER (in.): 2
 PURGE DATE: _____ PURGE TIME: 1404
 PURGE METHOD: Fast Purge FIELD PERSONNEL: Jim Bell
 AMBIENT AIR VOCs (ppm) Start: _____ End: _____ WELL MOUTH VOCs (ppm) Start: _____ End: _____

- A. TOTAL WELL DEPTH (ft): 113.00 E. CASING VOLUME/FT (GAL): _____
 B. OPEN INTERVAL (ft): 20 F. CASING VOLUME (GAL) (D*E): 22
 C. DEPTH TO WATER (ft): 101.04 G. 1.5 CASING VOLUMES (GAL) (F*1.5): 0.6
 D. H₂O COLUMN(ft) (A-C): 13.96

Parameter	Beginning	1	2	3	4	POST
Time (min)	1408	1410	1412	1414	1416	1418
Depth to Water (ft)	104.11	104.09	104.09	104.09	104.09	104.09
Purge Rate (L/min)	2	2	2	2	2	—
Volume Purged (L)	—	27.27	38.84	45.12	16	—
pH	5.21	5.20	5.21	5.22	5.22	5.22
Temperature (°C)	13.52	12.99	12.80	12.70	12.60	12.47
Conductivity ()	0.319	0.307	0.299	0.299	0.298	0.297
Dissolved Oxygen (mg/L)	6.30	5.54	5.01	5.17	5.21	4.49
Turbidity (NTU)	0.5	0	0	0	0	4.3
Eh (mv)	217	217	218	219	221	222

TOTAL VOLUME WATER PURGED: _____ GAL
 SAMPLERS: _____ SAMPLING TIME (START/END): 1418
 SAMPLING DATE: 012202 DECONTAMINATION FLUIDS USED: DI/AE/CAI
 SAMPLE TYPE: grab SAMPLE PRESERVATIVES: HNO3
 SAMPLE BOTTLE IDs: MW-9
 SAMPLE PARAMETERS: metals
 COMMENTS AND OBSERVATIONS: _____

PUMP #: _____ ODOR: _____
 PUMP SET DEPTH: 109 ft

FIELD RECORD OF WELL GAUGING, PURGING, AND SAMPLING (OVERFLOW PAGE)

Site Name: NAWC TRENTON	Project No.: 1371209	Date:
Well ID:	Field Personnel:	

Parameter	6	7	8	9	10	11
Time (min.)						
Depth to Water (ft)						
Purge Rate (L/min)						
Volume Purged (L)						
pH						
Temperature (°C)						
Conductivity (Units:)						
Dissolved Oxygen (mg/L)						
Turbidity (NTU)						
Eh (mv)						

Parameter	12	13	14	15	16	17
Time (min)						
Depth to Water (ft)						
Purge Rate (GAL/min)						
Volume Purged (GAL)						
pH						
Temperature (°C)						
Conductivity (Units:)						
Dissolved Oxygen (mg/L)						
Turbidity (NTU)						
Eh (mv)						

COMMENTS AND OBSERVATIONS _____



FIELD RECORD OF WELL GAUGING, PURGING, AND SAMPLING

SITE NAME: AGFA Peerless Photo PROJECT NUMBER: 1371209
 WELL I.D.: mic-10 WELL LOCK STATUS: not locked
 WELL CONDITION: OK WEATHER: overcast, windy, ~40°
 GAUGE DATE: 012302 GAUGE TIME: 0831
 SOUNDING METHOD: WLT MEASUREMENT REF: top of casing
 STICK UP/DOWN (ft): flushmount WELL DIAMETER (in.): 2 1/4
 PURGE DATE: 012302 PURGE TIME: 0851
 PURGE METHOD: Low Flow FIELD PERSONNEL: JW/Bro
 AMBIENT AIR VOCs (ppm) Start: — End: — WELL MOUTH VOCs (ppm): Start: — End: —

- A. TOTAL WELL DEPTH (ft): 127.00 E. CASING VOLUME/FT (GAL): _____
 B. OPEN INTERVAL (ft): _____ F. CASING VOLUME (GAL) (D*E): _____
 C. DEPTH TO WATER (ft): 109.51 G. ³CASING VOLUMES (GAL) (F*³): _____
 D. H₂O COLUMN(ft) (A-C): _____

Parameter	Beginning	1	2	3	4	5
Time (min)	0851	0856	0901	0906	0911	0916
Depth to Water (ft)	109.50	109.50	109.50	109.52	109.52	109.52
Purge Rate (L/min)						
Volume Purged (L)	—	+	0	—	—	
pH	4.98	5.06	5.02	5.02	5.04	5.03
Temperature (°C)	10.8	11.3	13.1	13.0	13.0	13.3
Conductivity (mS/cm)	0.304	0.285	0.292	0.266	0.249	0.238
Dissolved Oxygen (mg/L)	8.39	8.19	8.54	8.71	8.68	8.63
Turbidity (NTU)	3.1	5.9	2.2	1.6	1.4	1.2
Eh (mv)	277	278	273	273	271	270

TOTAL VOLUME WATER PURGED: _____ GAL
 SAMPLERS: JW/Bro SAMPLING TIME (START/END): 0935
 SAMPLING DATE: 012301 DECONTAMINATION FLUIDS USED: D2/mcOH
 SAMPLE TYPE: grab SAMPLE PRESERVATIVES: HNO₃
 SAMPLE BOTTLE IDs: mic-10 low
 SAMPLE PARAMETERS: metals
 COMMENTS AND OBSERVATIONS: _____

PUMP #: _____ ODOR: _____
 PUMP SET DEPTH: 117



FIELD RECORD OF WELL GAUGING, PURGING, AND SAMPLING (OVERFLOW PAGE)

Site Name: NAWC TRENTON	Project No.: 1371209	Date: 012302
Well ID: MW-10	Field Personnel: SW/B00	

Parameter	6	7	8	POST 9	10	11
Time (min.)	0921	0926	0931	0936		
Depth to Water (ft)	109.52	109.52	109.52	109.52		
Purge Rate (L/min)				—		
Volume Purged (L)	—			—		
pH	5.01	5.02	5.04	5.08		
Temperature (°C)	13.7	14.0	14.3	14.2		
Conductivity (Units: MS/cm)	0.227	0.224	0.221	0.221		
Dissolved Oxygen (mg/L)	8.76	8.76	8.81	9.02		
Turbidity (NTU)	1.1	1.1	1.0	0.6		
Eh (mv)	270	270	269	268		

Parameter	12	13	14	15	16	17
Time (min)						
Depth to Water (ft)						
Purge Rate (GAL/min)						
Volume Purged (GAL)						
pH						
Temperature (°C)						
Conductivity (Units:)						
Dissolved Oxygen (mg/L)						
Turbidity (NTU)						
Eh (mv)						

COMMENTS AND OBSERVATIONS



FIELD RECORD OF WELL GAUGING, PURGING, AND SAMPLING

SITE NAME: AGFA Peerless Photo PROJECT NUMBER: 1371209
 WELL I.D.: mw-10 WELL LOCK STATUS: not locked/braked
 WELL CONDITION: OK WEATHER: cast, breezy, ~40°
 GAUGE DATE: 012309 GAUGE TIME: 0938
 SOUNDING METHOD: WLI MEASUREMENT REF: top of casing
 STICK UP/DOWN (ft): Flushmount WELL DIAMETER (in.): 4
 PURGE DATE: 012309 PURGE TIME: 0940
 PURGE METHOD: Fast Purge FIELD PERSONNEL: JN/BCC
 AMBIENT AIR VOCs (ppm) Start: - End: - WELL MOUTH VOCs (ppm) Start: - End: -

A. TOTAL WELL DEPTH (ft): 127.00 E. CASING VOLUME/FT (GAL): _____
 B. OPEN INTERVAL (ft): _____ F. CASING VOLUME (GAL) (D*E): 117
 C. DEPTH TO WATER (ft): 109.52 G. ³ CASING VOLUMES (GAL) (F*NS): 351
 D. H₂O COLUMN(ft) (A-C): 17.48

Parameter	Beginning	1	2	³ 0959	4	5	POST
Time (min)	0941	0947	0953	0956 ^{5:00}	1005	1011	1016
Depth to Water (ft)	109.52	109.52	109.52	109.52	109.52	109.52	
Purge Rate (L/min)	2	12	24	36	48	60	
Volume Purged (L)	-	12	24	36	48	60	
pH	4.94	4.96	4.97	4.98	4.98	4.99	5.00
Temperature (°C)	16.4	14.2	13.7	13.6	13.6	13.5	13.6
Conductivity (mS/cm)	0.220	0.217	0.206	0.201	0.197	0.198	0.194
Dissolved Oxygen (mg/L)	8.94	9.78	9.46	9.47	9.48	9.49	9.50
Turbidity (NTU)	0.2	0.1	0.2	0.3	0.3	0.3	0.3
Eh (mv)	276	284	290	294	296	297	298

TOTAL VOLUME WATER PURGED: _____ GAL
 SAMPLERS: JN/BCC SAMPLING TIME (START/END): 1013
 SAMPLING DATE: 012309 DECONTAMINATION FLUIDS USED: DJ/Mech
 SAMPLE TYPE: grab SAMPLE PRESERVATIVES: HNO₃
 SAMPLE BOTTLE IDs: mw-10
 SAMPLE PARAMETERS: metals
 COMMENTS AND OBSERVATIONS: _____

PUMP #: _____ ODOR: none
 PUMP SET DEPTH: 115

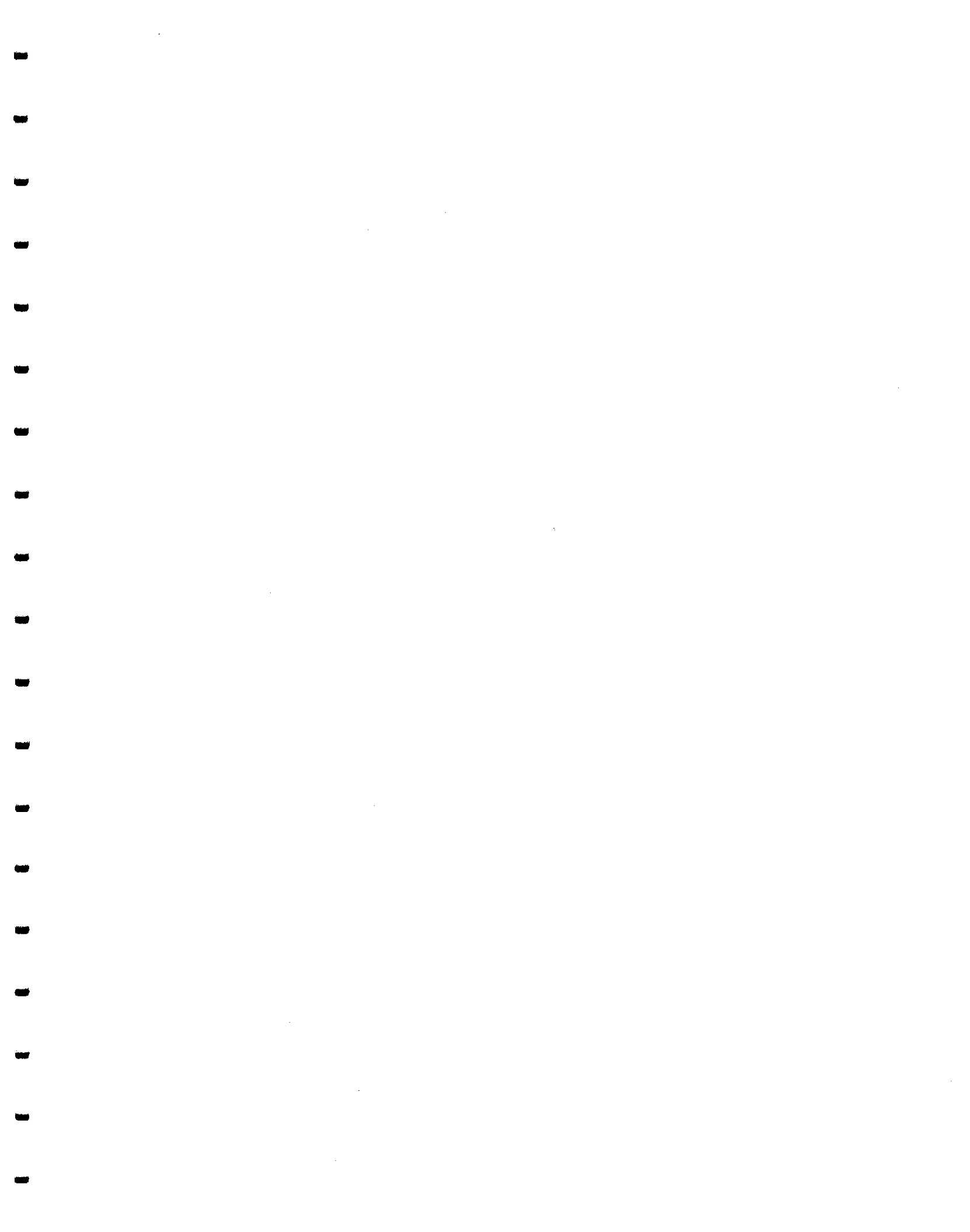
FIELD RECORD OF WELL GAUGING, PURGING, AND SAMPLING (OVERFLOW PAGE)

Site Name: NAWC TRENTON	Project No.: 1371209	Date:
Well ID:	Field Personnel:	

Parameter	6	7	8	9	10	11
Time (min.)						
Depth to Water (ft)						
Purge Rate (L/min)						
Volume Purged (L)						
pH						
Temperature (°C)						
Conductivity (Units:)						
Dissolved Oxygen (mg/L)						
Turbidity (NTU)						
Eh (mv)						

Parameter	12	13	14	15	16	17
Time (min)						
Depth to Water (ft)						
Purge Rate (GAL/min)						
Volume Purged (GAL)						
pH						
Temperature (°C)						
Conductivity (Units:)						
Dissolved Oxygen (mg/L)						
Turbidity (NTU)						
Eh (mv)						

COMMENTS AND OBSERVATIONS _____







EA Engineering,
Science, and
Technology

FIELD RECORD OF WELL GAUGING, PURGING, AND SAMPLING

SITE NAME: AGFA Peerless Photo PROJECT NUMBER: 1371209
 WELL ID.: MW-1 WELL LOCK STATUS: Not locked
 WELL CONDITION: Good WEATHER: Cloudy, cold, windy & 45°
 GAUGE DATE: 11-26-02 GAUGE TIME: 07:00
 SOUNDING METHOD: WLI MEASUREMENT REF: TSC Liner
 STICK UP/DOWN (ft): Flushmount WELL DIAMETER (in.): 2"
 PURGE DATE: 11-26-02 PURGE TIME: 07:10
 PURGE METHOD: Low flow FIELD PERSONNEL: BA/JW
 AMBIENT AIR VOCs (ppm) Start: — End: — WELL MOUTH VOCs (ppm): Start: — End: —

- A. TOTAL WELL DEPTH (ft): 132.2 E. CASING VOLUME/FT (GAL): _____
 B. OPEN INTERVAL (ft): _____ F. CASING VOLUME (GAL) (D*E): _____
 C. DEPTH TO WATER (ft): 112.20 G. 1.5 CASING VOLUMES (GAL) (F*1.5): _____
 D. H₂O COLUMN(ft) (A-C): _____

Parameter	Beginning	1	2	3	4	5
Time (min)	0710	0715	0720	0725	0730	0735
Depth to Water (ft)	112.22	112.22	112.22	112.22	112.22	112.22
Purge Rate (L/min)	0.200	0.200	0.200	0.200	0.200	0.200
Volume Purged (L)	—	1.0	2.0	3.0	4.0	5.0
pH	5.60	5.81	5.89	5.87	5.86	X
Temperature (°C)	10.49	10.57	11.18	12.02	13.06	
Conductivity (mS/cm)	0.172	0.172	0.171	0.169	0.167	
Dissolved Oxygen (mg/L)	11.49	11.41	11.08	10.68	10.39	
Turbidity (NTU)	154	152	149	131	116	
Eh (mv)	219	212	194	180	180	

TOTAL VOLUME WATER PURGED: 16 GALL
 SAMPLERS: BA/JW SAMPLING TIME (START/END): 0830/0832
 SAMPLING DATE: 11-26-02 DECONTAMINATION FLUIDS USED: DI, Methanol
 SAMPLE TYPE: Grab SAMPLE PRESERVATIVES: HNO₃
 SAMPLE BOTTLE IDs: MW-1
 SAMPLE PARAMETERS: Metals
 COMMENTS AND OBSERVATIONS: Set pump at 122'
*0735 pump overloaded 0737 re-started

PUMP #: Pine 300' ODOR: None
 PUMP SET DEPTH: 122'



**FIELD RECORD OF WELL GAUGING, PURGING, AND SAMPLING
(OVERFLOW PAGE)**

Site Name: NAWC TRENTON	Project No.: 1371209	Date: 11-24-02
Well ID: MW-1	Field Personnel: BA/JW	

Parameter	6	7	8	9	10	11
Time (min.)	0740	0745	0750	0755	0800	0805
Depth to Water (ft)	112.22	112.22	112.22	112.22	112.22	112.22
Purge Rate (L/min)	0.200	0.200	0.200	0.200	0.200	0.200
Volume Purged (L)	6.0	7.0	8.0	9.0	10.0	11.0
pH	5.90	5.83	5.79	5.77	5.76	5.76
Temperature (°C)	15.04	15.62	15.81	15.45	18.60	18.04
Conductivity (Units: ms/cm)	0.167	0.166	0.169	0.170	0.165	0.170
Dissolved Oxygen (mg/L)	10.40	10.18	10.34	10.18	9.62	10.00
Turbidity (NTU)	136	109	88	74	35	16
Eh (mv)	167	167	171	171	175	182

Parameter	12	13	14	15	16	POST
Time (min)	0810	0815	0820	0825		0832
Depth to Water (ft)	112.22	112.22	112.22	112.22		112.22
Purge Rate (GAL/min)	0.200	0.200	0.200	0.200		0.200
Volume Purged (GAL)	12.0	13.0	14.0	15.0		16
pH	5.73	5.73	5.72	5.72		5.72
Temperature (°C)	17.37	17.27	17.08	17.02		17.17
Conductivity (Units: ms/cm)	0.169	0.168	0.169	0.167		0.167
Dissolved Oxygen (mg/L)	10.08	10.01	10.15	10.04		10.40
Turbidity (NTU)	19	18	18	18		13
Eh (mv)	188	192	195	197		196

COMMENTS AND OBSERVATIONS _____

FIELD RECORD OF WELL GAUGING, PURGING, AND SAMPLING

SITE NAME: AGFA Peerless Photo PROJECT NUMBER: 1371200
 WELL I.D.: MW-2 WELL LOCK STATUS: lock present
 WELL CONDITION: good WEATHER: overcast 50°
 GAUGE DATE: 11/21/02 GAUGE TIME: 0900
 SOUNDING METHOD: water level probe MEASUREMENT REF: TBC
 STICK UP/DOWN (ft): flushmant WELL DIAMETER (in.): 2"
 PURGE DATE: 11/21/02 PURGE TIME: 0930 -
 PURGE METHOD: low flow FIELD PERSONNEL: BDA
 AMBIENT AIR VOCs (ppm) Start: — End: — WELL MOUTH VOCs (ppm): Start: — End: —

- A. TOTAL WELL DEPTH (ft): 135.25 E. CASING VOLUME/FT (GAL): 0.163
 B. OPEN INTERVAL (ft): 20 F. CASING VOLUME (GAL) (D*E): 1.88
 C. DEPTH TO WATER (ft): 123.72 G. ~~N~~ CASING VOLUMES (GAL) (F*N): 5.64
 D. H₂O COLUMN(ft) (A-C): 11.53 3 3

Parameter	Beginning	1	2	3	4	5
Time (min)	0930	0935	0940	0945	0950	0955
Depth to Water (ft)	123.40	123.43	123.45	123.45	123.45	123.45
Purge Rate (L/min)	200	200	200	200	200	200
Volume Purged (L)	—	1.0	2.0	3.0	4.0	5.0
pH	5.48	5.56	5.67	5.70	5.77	5.73
Temperature (°C)	12.10	13.20	15.50	16.70	16.10	14.70
Conductivity (mS/cm)	0.189	0.188	0.191	0.190	0.192	0.197
Dissolved Oxygen (mg/L)	10.57	10.10	10.29	10.67	10.16	10.28
Turbidity (NTU)	93	85	44	21	10	9
Eh (mv)	241	236	223	219	215	215

TOTAL VOLUME WATER PURGED: 8 GAL L
 SAMPLERS: BDA SAMPLING TIME (START/END): 1010
 SAMPLING DATE: 11/21/02 DECONTAMINATION FLUIDS USED: DI*
 SAMPLE TYPE: Grab SAMPLE PRESERVATIVES: —
 SAMPLE BOTTLE IDs: MW-2

SAMPLE PARAMETERS: Metals
 COMMENTS AND OBSERVATIONS: Set pump at 126'
purge at ~250 Hz

PUMP #: EA Newburgh ODOR: NONE
 PUMP SET DEPTH: 126'



FIELD RECORD OF WELL GAUGING, PURGING, AND SAMPLING (OVERFLOW PAGE)

Site Name: <u>NAWC TRENTON</u>	Project No.: <u>1371209</u>	Date: <u>11/20/02</u>
Well ID: <u>MW2</u>	Field Personnel: <u>BDJ</u>	

Parameter	6	7	8	9	10	11
Time (min.)	<u>1000</u>	<u>1005</u>				
Depth to Water (ft)	<u>123.45</u>	<u>123.45</u>				
Purge Rate (L/min)	<u>0.200</u>	<u>0.200</u>				
Volume Purged (L)	<u>6.0</u>	<u>7.0</u>				
pH	<u>5.73</u>	<u>5.70</u>				
Temperature (°C)	<u>14.60</u>	<u>14.70</u>				
Conductivity (Units: <u>µS/cm</u>)	<u>0.191</u>	<u>0.190</u>				
Dissolved Oxygen (mg/L)	<u>10.25</u>	<u>10.15</u>				
Turbidity (NTU)	<u>9</u>	<u>9</u>				
Eh (mv)	<u>214</u>	<u>214</u>				

Parameter	12	13	14	15	16	17
Time (min)						
Depth to Water (ft)						
Purge Rate (GAL/min)						
Volume Purged (GAL)						
pH						
Temperature (°C)						
Conductivity (Units:)						
Dissolved Oxygen (mg/L)						
Turbidity (NTU)						
Eh (mv)						

COMMENTS AND OBSERVATIONS _____



FIELD RECORD OF WELL GAUGING, PURGING, AND SAMPLING

SITE NAME: AGFA Peerless Photo PROJECT NUMBER: 1371200
 WELL I.D.: MW-2A WELL LOCK STATUS: Blocked
 WELL CONDITION: Good WEATHER: Rainy Cold ~ 50°
 GAUGE DATE: 11-22-02 GAUGE TIME: 0730
 SOUNDING METHOD: WLI MEASUREMENT REF: ToC
 STICK UP/DOWN (ft): Flushmount WELL DIAMETER (in.): 4"
 PURGE DATE: 11-22-02 PURGE TIME: 1010
 PURGE METHOD: Low Flow FIELD PERSONNEL: BA-JW
 AMBIENT AIR VOCs (ppm) Start: — End: — WELL MOUTH VOCs (ppm): Start: — End: —

A. TOTAL WELL DEPTH (ft): 150.00 E. CASING VOLUME/FT (GAL): 0.1653
 B. OPEN INTERVAL (ft): 10 F. CASING VOLUME (GAL) (D*E): 37.14
 C. DEPTH TO WATER (ft): 123.13 G. ~~N~~ CASING VOLUMES (GAL) (F*~~N~~5): 111.41
 D. H₂O COLUMN(ft) (A-C): 56.87 3 3

Parameter	Beginning	1	2	3	4	5
Time (min)	1010	1015	1020	1025	1030	1035
Depth to Water (ft)	123.15	123.15	123.15	123.15	123.15	123.15
Purge Rate (L/min)	0.200	0.200	0.200	0.200	0.200	0.200
Volume Purged (L)	—	1.0	2.0	3.0	4.0	5.0
pH	6.51	6.78	6.86	6.88	6.89	6.86
Temperature (°C)	11.1	11.9	11.8	12.0	12.2	12.9
Conductivity (µs/cm)	0.167	0.160	0.159	0.160	0.165	0.166
Dissolved Oxygen (mg/L)	2.72	2.24	0.55	0.47	1.36	2.74
Turbidity (NTU)	292	335	265	247	490	303
Eh (mv)	3	-35	-48	-55	-57	-54

TOTAL VOLUME WATER PURGED: 15.5 @ GALL

SAMPLERS: BA-JW SAMPLING TIME (START/END): 1130
 SAMPLING DATE: 11-22-02 DECONTAMINATION FLUIDS USED: DI/Methanol
 SAMPLE TYPE: Grab SAMPLE PRESERVATIVES: HNO₃
 SAMPLE BOTTLE IDs: MW-2A
 SAMPLE PARAMETERS: Metals

COMMENTS AND OBSERVATIONS: Set pump at 175'
Lots of debris in water well needs new well cap washout from the well head gets in the well.

PUMP #: 69 RNC
 PUMP SET DEPTH: 175'

ODOR: None
Sulfur odor



FIELD RECORD OF WELL GAUGING, PURGING, AND SAMPLING (OVERFLOW PAGE)

Site Name: NAWC TRENTON	Project No.: 1371209	Date: 11/22/02
Well ID: MW-2A	Field Personnel: JN/BA	

Parameter	6	7	8	9	10	11
Time (min.)	1040	1045	1050	1055	1100	1105
Depth to Water (ft)	123.15	123.15	123.15	123.15	123.15	123.15
Purge Rate (L/min)	0.200	0.200	0.200	0.200	0.200	0.200
Volume Purged (L)	6.0	7.0	8.0	9.0	10.0	11.0
pH	6.85	6.84	6.83	6.80	6.78	6.77
Temperature (°C)	13.0	13.0	12.6	12.7	12.9	13.0
Conductivity (Units: $\mu S/cm$)	0.1666	0.167	0.171	0.175	0.176	0.177
Dissolved Oxygen (mg/L)	1.56	1.73	2.52	3.14	3.36	3.63
Turbidity (NTU)	205	176	139	85	73	63
Eh (mv)	-54	-54	-50	-47	-44	-41

Parameter	12	13	14	15	16	17	Post
Time (min)	1110	1115	1120	1123	1126	1129	1132
Depth to Water (ft)	123.15	123.15	123.15	123.15	123.15	123.15	123.15
Purge Rate (GAL/min)	0.200	0.200	0.200	0.200	0.200	0.200	0.200
Volume Purged (GAL) L	12.0	13.0	14.0	14.6	14.9	15.2	15.5
pH	6.77	6.79	6.81	6.82	6.82	6.83	6.85
Temperature (°C)	13.2	13.2	12.8	12.8	12.8	12.8	13.0
Conductivity (Units: $\mu S/cm$)	0.173	0.171	0.168	0.165	0.164	0.163	0.158
Dissolved Oxygen (mg/L)	3.24	2.86	2.57	2.34	2.24	2.16	1.45
Turbidity (NTU)	66	65	68	55	57	53	52
Eh (mv)	-41	-42	-43	-44	-44	-45	-46

COMMENTS AND OBSERVATIONS



EA Engineering,
Science, and
Technology

FIELD RECORD OF WELL GAUGING, PURGING, AND SAMPLING

SITE NAME: AGFA Peerless Photo PROJECT NUMBER: 1371209
 WELL ID.: MW-3 WELL LOCK STATUS: Not locked New build
 WELL CONDITION: Ok back stairs inside of well WEATHER: Sunny, light breeze ~5.3"
 GAUGE DATE: 11-21-02 GAUGE TIME: 1250
 SOUNDING METHOD: WLI MEASUREMENT REF: TCC
 STICK UP/DOWN (ft): Flushmount WELL DIAMETER (in.): 4"
 PURGE DATE: 11-21-02 PURGE TIME: 1300-
 PURGE METHOD: Low flow FIELD PERSONNEL: BA + JN
 AMBIENT AIR VOCs (ppm) Start: - End: - WELL MOUTH VOCs (ppm) Start: - End: -

A. TOTAL WELL DEPTH (ft): 151.4 E. CASING VOLUME/FT (GAL): 0.653
 B. OPEN INTERVAL (ft): 10 F. CASING VOLUME (GAL) (D*E): 21.33
 C. DEPTH TO WATER (ft): 118.74 G. ~~TS~~ CASING VOLUMES (GAL) (F*N): 63.99
 D. H₂O COLUMN(ft) (A-C): 32.66 3 3

Parameter	Beginning	1	2	3	4	5
Time (min)	1300	1305	1310	1315	1320	1325
Depth to Water (ft)	118.80	118.80	118.85	118.84	118.45	118.45
Purge Rate (L/min)	.200	.200	.200	.200	.200	.200
Volume Purged (L)	-	1.0	2.0	3.0	4.0	5.0
pH	5.76	5.72	5.68	5.67	5.72	5.73
Temperature (°C)	13.10	13.30	13.10	12.90	14.50	15.20
Conductivity (MS/cm)	0.173	0.175	0.176	0.175	0.166	0.164
Dissolved Oxygen (mg/L)	10.75	10.31	10.22	10.30	10.15	10.27
Turbidity (NTU)	106	121	112	109	87	50
Eh (mv)	210	207	204	202	200	199

TOTAL VOLUME WATER PURGED: 12 GALL
 SAMPLERS: JN BOA SAMPLING TIME (START/END): 1400
 SAMPLING DATE: 11/21/02 DECONTAMINATION FLUIDS USED: DI
 SAMPLE TYPE: Grab SAMPLE PRESERVATIVES: HNO₃
 SAMPLE BOTTLE IDs: MW-3
 SAMPLE PARAMETERS: Metals
 COMMENTS AND OBSERVATIONS: Set pump at 146'

PUMP #: EA Newburgh
 PUMP SET DEPTH: 146'

ODOR: NONE

FIELD RECORD OF WELL GAUGING, PURGING, AND SAMPLING (OVERFLOW PAGE)

Site Name: NAWC TRENTON	Project No.: 1371209	Date: 11/21/02
Well ID: MW-3	Field Personnel: JW, BA	

Parameter	6	7	8	9	10	11
Time (min.)	1330	1335	1340	1345	1350	1355
Depth to Water (ft)	118.45	118.45	118.46	118.46	118.55	118.55
Purge Rate (L/min)	200	200	200	200	200	200
Volume Purged (L)	6.0	7.0	8.0	9.0	10.0	11.0
pH	5.75	5.76	5.75	5.75	5.75	5.76
Temperature (°C)	15.70	15.80	15.40	16.10	16.30	16.70
Conductivity (Units: $\mu\text{S}/\text{cm}$)	0.163	0.162	0.161	0.161	0.161	0.161
Dissolved Oxygen (mg/L)	10.26	10.29	10.27	10.08	10.15	10.24
Turbidity (NTU)	36	25	15	9	4	0
Eh (mv)	198	197	197	196	195	195

Parameter	Post 12	13	14	15	16	17
Time (min)	1405					
Depth to Water (ft)	118.55					
Purge Rate (GAL ^L /min)	200					
Volume Purged (GAL ^L)						
pH	5.78					
Temperature (°C)	16.90					
Conductivity (Units:)	0.161					
Dissolved Oxygen (mg/L)	10.24					
Turbidity (NTU)	0					
Eh (mv)	196					

COMMENTS AND OBSERVATIONS _____



EA Engineering,
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FIELD RECORD OF WELL GAUGING, PURGING, AND SAMPLING

SITE NAME: AGFA Peerless Photo PROJECT NUMBER: 13712PP
 WELL ID: MW-4 WELL LOCK STATUS: Not Locked
 WELL CONDITION: ok. Dirt getting in well its all black WEATHER: Cloudy, ~50
 GAUGE DATE: 11-21-02 GAUGE TIME: 1425
 SOUNDING METHOD: WLT MEASUREMENT REF: TOC
 STICK UP/DOWN (ft): Flushmanst WELL DIAMETER (in.): 4"
 PURGE DATE: 11-21-02 PURGE TIME: _____
 PURGE METHOD: Low flow FIELD PERSONNEL: BA + JW
 AMBIENT AIR VOCs (ppm) Start: _____ End: _____ WELL MOUTH VOCs (ppm): Start: _____ End: _____

A. TOTAL WELL DEPTH (ft): 129.00 E. CASING VOLUME/FT (GAL): 0.653
 B. OPEN INTERVAL (ft): 20 F. CASING VOLUME (GAL) (D*E): 9.29
 C. DEPTH TO WATER (ft): 114.78 G. ~~N~~ CASING VOLUMES (GAL) (F*N): 27.86
 D. H₂O COLUMN(ft) (A-C): 14.22 3 3

Parameter	Beginning	1	2	3	4	5
Time (min)	1430	1435	1440	1445	1450	1455
Depth to Water (ft)	114.92	114.90	114.90	114.90	114.90	114.90
Purge Rate (L/min)	0.200	0.200	0.200	0.200	0.200	0.200
Volume Purged (L)	—	1.0	2.0	3.0	4.0	5.0
pH	5.02	5.11	5.13	5.22	5.34	5.41
Temperature (°C)	11.8	12.3	12.5	14.0	15.9	16.7
Conductivity (µS/cm)	0.034	0.037	0.040	0.045	0.049	0.052
Dissolved Oxygen (mg/L)	0.92	0.85	0.85 ^{1.24}	1.59	1.59	1.90
Turbidity (NTU)	208	192	170	136	108	74
Eh (mv)	130	119	117	113	106	74 ¹⁰⁴

TOTAL VOLUME WATER PURGED: 15 ^L GAL
 SAMPLERS: BA + JW SAMPLING TIME (START/END): 1546
 SAMPLING DATE: 11-21-02 DECONTAMINATION FLUIDS USED: DI, Methanol
 SAMPLE TYPE: Grab SAMPLE PRESERVATIVES: HNO₃
 SAMPLE BOTTLE IDs: MW-4
 SAMPLE PARAMETERS: Metals
 COMMENTS AND OBSERVATIONS: Set pump at 119'

PUMP #: EA Newburgh ODOR: None
 PUMP SET DEPTH: 119'



FIELD RECORD OF WELL GAUGING, PURGING, AND SAMPLING (OVERFLOW PAGE)

Site Name: NAWC TRENTON	Project No.: 1371209	Date: 11-21-02
Well ID: MW-4	Field Personnel: BA/JW	

Parameter	6	7	8	9	10	11
Time (min.)	1500	1505	1510	1515	1520	1525
Depth to Water (ft)	114.90	114.90	114.90	114.90	114.90	114.90
Purge Rate (L/min)	0.200	0.200	0.200	0.200	0.200	0.200
Volume Purged (L)	6.0	7.0	8.0	9.0	10.0	11.0
pH	5.44	5.46	5.50	5.51	5.53	5.55
Temperature (°C)	16.7	17.1	17.7	17.9	18.3	18.2
Conductivity (Units: ms/cm)	0.056	0.059	0.063	0.064	0.066	0.069
Dissolved Oxygen (mg/L)	2.14	2.33	2.72	2.82	3.01	3.34
Turbidity (NTU)	59	46	35	30	23	17
Eh (mv)	103	103	103	103	103	104

Parameter	12	13	14	15	16	Post
Time (min)	1530	1535	1540	1545		1550
Depth to Water (ft)	114.90	114.90	114.90	114.90		114.90
Purge Rate (L/min)	0.200	0.200	0.200	0.200		0.200
Volume Purged (L)	12.0	13.0	14.0	15.0		16
pH	5.58	5.59	5.61	5.62		5.60
Temperature (°C)	18.1	18.1	18.0	17.9		17.9
Conductivity (Units: ms/cm)	0.071	0.075	0.077	0.078		0.080
Dissolved Oxygen (mg/L)	3.62	3.96	4.18	4.28		5.47
Turbidity (NTU)	11	6	5	4		2
Eh (mv)	104	106	106	106		112

COMMENTS AND OBSERVATIONS _____



EA Engineering,
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FIELD RECORD OF WELL GAUGING, PURGING, AND SAMPLING

SITE NAME: AGFA Peerless Photo PROJECT NUMBER: 1371209
 WELL I.D.: MW-6 WELL LOCK STATUS: Bolted
 WELL CONDITION: Good WEATHER: Sunny Light Breeze
 GAUGE DATE: 11-25-02 GAUGE TIME: 1335
 SOUNDING METHOD: WLI MEASUREMENT REF: @1410
 STICK UP/DOWN (ft): Flushmont WELL DIAMETER (in.): 7"
 PURGE DATE: 11-25-02 PURGE TIME: 1345
 PURGE METHOD: Low flow FIELD PERSONNEL: BA/JW
 AMBIENT AIR VOCs (ppm) Start: — End: — WELL MOUTH VOCs (ppm): Start: — End: —

A. TOTAL WELL DEPTH (ft): 126.00 E. CASING VOLUME/FT (GAL): 0.653
 B. OPEN INTERVAL (ft): 20 F. CASING VOLUME (GAL) (D*E): 9.54
 C. DEPTH TO WATER (ft): 111.39 G. CASING VOLUMES (GAL) (F*^{1.5}/₃): 28.62
 D. H₂O COLUMN(ft) (A-C): 14.61

Parameter	Beginning	1350	1355	3	4	5	
Time (min)	@ 1415	1345	1425	1425	1400	1405	1410
Depth to Water (ft)	111.38	111.38	111.38	111.38	111.38	111.38	111.38
Purge Rate (L/min)	0.200	0.200	0.200	0.200	0.200	0.200	0.200
Volume Purged (L)	—	1.0	2.0	3.0	4.0	5.0	
pH	5.58	5.52	5.50	5.50	5.46	5.45	
Temperature (°C)	12.44	12.34	12.39	12.34	12.39	12.90	
Conductivity (mS/cm)	0.147	0.149	0.151	0.155	0.161	0.166	
Dissolved Oxygen (mg/L)	9.90	9.48	9.43	9.49	9.42	9.27	
Turbidity (NTU)	102	82	73	72	70	61	
Eh (mv)	195	206	211	212	209	204	

TOTAL VOLUME WATER PURGED: 12.0 GALL
 SAMPLERS: BA/JW SAMPLING TIME (START/END): 1442/1444
 SAMPLING DATE: 11-25-02 DECONTAMINATION FLUIDS USED: DI, Methanol
 SAMPLE TYPE: Grab SAMPLE PRESERVATIVES: HNO₃
 SAMPLE BOTTLE IDs: MW-6
 SAMPLE PARAMETERS: Metals
 COMMENTS AND OBSERVATIONS: Set pump at 116'

PUMP #: Pine 300'
 PUMP SET DEPTH: 114'

ODOR: None



**FIELD RECORD OF WELL GAUGING, PURGING, AND SAMPLING
(OVERFLOW PAGE)**

Site Name: NAWC TRENTON	Project No.: 1371209	Date: 11-25-02
Well ID: MW-6	Field Personnel: BA/JN	

Parameter	6	7	8	9	10	11
Time (min.)	1415	1420	1425	1430	1435	1440
Depth to Water (ft)	111.38	111.38	111.38	111.38	111.38	111.38
Purge Rate (L/min)	0.200	0.200	0.200	0.200	0.200	0.200
Volume Purged (L)	6.0	7.0	8.0	9.0	10.0	11.0
pH	5.46	5.36	5.33	5.39	5.35	5.36
Temperature (°C)	17.06	18.87	17.73	17.34	17.32	17.08
Conductivity (Units: $\mu\text{S}/\text{cm}$)	0.183	0.219	0.227	0.230	0.230	0.229
Dissolved Oxygen (mg/L)	8.55	9.21	9.36	9.36	9.43	9.44
Turbidity (NTU)	52	29	33	48	45	49
Eh (mv)	196	213	222	225	226	227

Parameter	DIST	13	14	15	16	17
Time (min)	1443					
Depth to Water (ft)	111.38					
Purge Rate ($\frac{\text{L}}{\text{min}}$ GAL/min)	0.200					
Volume Purged (GAL)	18.0					
pH	5.40					
Temperature (°C)	17.19					
Conductivity (Units: $\mu\text{S}/\text{cm}$)	0.225					
Dissolved Oxygen (mg/L)	10.09					
Turbidity (NTU)	47					
Eh (mv)	224					

COMMENTS AND OBSERVATIONS



EA Engineering,
Science, and
Technology

FIELD RECORD OF WELL GAUGING, PURGING, AND SAMPLING

SITE NAME: _____
 WELL ID: AGFA Peerless Photo
 WELL CONDITION: MW-75
 OK
 GAUGE DATE: _____
 SOUNDING METHOD: 12-04-02
 STICK UP/DOWN (ft): WLT
 flushmant
 PURGE DATE: _____
 PURGE METHOD: 12-04-02
 AMBIENT AIR VOCs (ppm): Low flow
 Start: _____ End: _____
 PROJECT NUMBER: _____
 WELL LOCK STATUS: 15711
 WEATHER: Unlocked / Bot
 Sunny, cold
 GAUGE TIME: _____
 MEASUREMENT REF: 1245
 WELL DIAMETER (in.): 750
 4"
 PURGE TIME: _____
 FIELD PERSONNEL: 1250
 JG/JW
 WELL MOUTH VOCs (ppm): _____
 Start: _____ End: _____

A. TOTAL WELL DEPTH (ft): 174
 B. OPEN INTERVAL (ft): 20
 C. DEPTH TO WATER (ft): 159.24
 D. H₂O COLUMN (ft) (A-C): 14.76
 E. CASING VOLUME/FT (GAL): _____
 F. CASING VOLUME (GAL) (D*E): 0.653
 G. 1.5 CASING VOLUMES (GAL) (F*1.5): 9.63
 14.46

Parameter	Beginning	1	2	3	4	5
Time (min)	1250	1255	1300	1305	1310	1315
Depth to Water (ft)	159.24	159.24	159.24	159.24	159.24	159.24
Purge Rate (L/min)	0.200	0.200	0.200	0.200	0.200	0.200
Volume Purged (L)	—	1.0	1.0	2.0	3.0	4.0
pH	6.01	5.97	5.95	5.91	5.94	5.95
Temperature (°C)	9.3	11.1	11.5	12.1	15.3	17.2
Conductivity (ms/cm)	0.165	0.163	0.172	0.181	0.181	0.186
Dissolved Oxygen (mg/L)	6.93	3.63	4.55	6.33	6.86	7.42
Turbidity (NTU)	100	66	47	34	11	4
Eh (mv)	144	146	139	141	141	142

TOTAL VOLUME WATER PURGED: 11.0 gal
 SAMPLERS: JG/JW
 SAMPLING DATE: 12/04/02
 SAMPLE TYPE: Grab
 SAMPLE BOTTLE IDs: MW-75 and Dup-1
 SAMPLE PARAMETERS: Metals
 COMMENTS AND OBSERVATIONS: Set pump at 164'
 SAMPLING TIME (START/END): 1345
 DECONTAMINATION FLUIDS USED: DI, Methanol
 SAMPLE PRESERVATIVES: HNO₃

PUMP = Pine 300'
 PUMP SET DEPTH: 164'

ODOR: None



FIELD RECORD OF WELL GAUGING, PURGING, AND SAMPLING (OVERFLOW PAGE)

Site Name: NAWC TRENTON	Project No.: 1371209	Date: 12-04-02
Well ID: MW - 7s	Field Personnel: JK-/JU	

Parameter	6	7	8	9	10	<u>Post</u>
Time (min)	1320	1325	1330	1335	1340	1345 1350
Depth to Water (ft)	159.24	159.24	159.24	159.24	159.24	159.24
Purge Rate (L/min)	0.200	0.200	0.200	0.200	0.200	0.200
Volume Purged (L)	6.0	7.0	8.0	9.0	10.0	11.0
pH	5.93	5.90	5.87	5.88	5.89	5.89
Temperature (°C)	17.5	16.7	16.4	16.7	16.6	16.3
Conductivity (Units: ms/cm)	0.191	0.191	0.190	0.188	0.188	0.188
Dissolved Oxygen (mg/L)	8.38	8.93	9.46	8.99	9.02	10.62
Turbidity (NTU)	0	0	0	0	0	0
Eh (mv)	145	148	150	151	150	153

Parameter	12	13	14	15	16	17
Time (min)						
Depth to Water (ft)						
Purge Rate (GAL/min)						
Volume Purged (GAL)						
pH						
Temperature (°C)						
Conductivity (Units:)						
Dissolved Oxygen (mg/L)						
Turbidity (NTU)						
Eh (mv)						

COMMENTS AND OBSERVATIONS



EA Engineering,
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FIELD RECORD OF WELL GAUGING, PURGING, AND SAMPLING

SITE NAME: AGFA Peerless Photo PROJECT NUMBER: 1571299
 WELL I.D.: 1.75 WELL LOCK STATUS: not locked / better
 WELL CONDITION: good WEATHER: cloud overcast
 GAUGE DATE: 01/10 GAUGE TIME: 0859
 SOUNDING METHOD: WTI MEASUREMENT REF: top of casing
 STICK UP/DOWN (ft): Fluorocast WELL DIAMETER (in.): 4
 PURGE DATE: 01/10 PURGE TIME: 0859
 PURGE METHOD: Low Flow FIELD PERSONNEL: JW B-C
 AMBIENT AIR VOCs (ppm) Start: End: WELL MOUTH VOCs (ppm) Start: End:

- A. TOTAL WELL DEPTH (ft): 174.00 E. CASING VOLUME/FT (GAL):
 B. OPEN INTERVAL (ft): F. CASING VOLUME (GAL) (D*E):
 C. DEPTH TO WATER (ft): 156.02 G. 1.5 CASING VOLUMES (GAL) (F*1.5):
 D. H₂O COLUMN(ft) (A-C): 17.98

Parameter	Beginning	1	2	3	4	5
Time (min)	0831	0844	0847	0854	0859	1007
Depth to Water (ft)	156.07	156.16	156.16	156.16	156.16	156.19
Purge Rate (L/min)	—					
Volume Purged (L)	—					
pH	5.73	5.85	5.85	5.87	5.81	5.86
Temperature (°C)	9.71	9.52	10.37	10.45	10.54	11.57
Conductivity (µm/cm)	1.83	1.85	1.80	1.58	1.40	1.37
Dissolved Oxygen (mg/L)	3.24	6.21	5.20	4.79	4.42	3.87
Turbidity (NTU)	5.1	7.8	26.5	15.7	42.4	21.4
Eh (mv)	175	158	152	147	138	133

TOTAL VOLUME WATER PURGED: GAL
 SAMPLERS: JW B-C SAMPLING TIME (START/END): 10:43
 SAMPLING DATE: 01/10 DECONTAMINATION FLUIDS USED: D5/MeOH
 SAMPLE TYPE: grab SAMPLE PRESERVATIVES: D5/MeOH HNO₃
 SAMPLE BOTTLE IDs:
 SAMPLE PARAMETERS: metals
 COMMENTS AND OBSERVATIONS:

PUMP #: ODOR:
 PUMP SET DEPTH: 104 ft

FIELD RECORD OF WELL GAUGING, PURGING, AND SAMPLING (OVERFLOW PAGE)

Site Name: NAWC TRENTON	Project No.: 1371209	Date:
Well ID:	Field Personnel:	

Parameter	6	7	8	9	10	11
Time (min.)	1014	1014	1019	1024	1039	1054
Depth to Water (ft)	156.19	156.19	156.19	156.19	156.19	156.19
Purge Rate (L/min)						
Volume Purged (L)						
pH	5.85	5.85	5.85	5.85	5.85	5.84
Temperature (°C)	12.05	12.05	12.11	12.21	12.21	11.76
Conductivity (Units: $\mu\text{S}/\text{cm}$)	1.30	1.25	1.20	1.10	1.09	1.10
Dissolved Oxygen (mg/L)	3.75	3.70	3.60	3.57	3.61	3.62
Turbidity (NTU)	14.7	14.7	14.2	13.2	11.5	11.0
Eh (mv)	131	130	129	128	133	130

Parameter	12	13	14	15	16	17
Time (min)	1039					
Depth to Water (ft)	156.19					
Purge Rate (GAL/min)						
Volume Purged (GAL)						
pH	5.80					
Temperature (°C)	11.15					
Conductivity (Units: $\mu\text{S}/\text{cm}$)	1.04					
Dissolved Oxygen (mg/L)	3.59					
Turbidity (NTU)	12.4					
Eh (mv)	135					

COMMENTS AND OBSERVATIONS _____



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FIELD RECORD OF WELL GAUGING, PURGING, AND SAMPLING

SITE NAME: AGFA Peerless Photo PROJECT NUMBER: 1371211
 WELL I.D.: MW-7D WELL LOCK STATUS: Unlocked / Batted
 WELL CONDITION: OK WEATHER: Sunny, cold, ~ 35°
 GAUGE DATE: 12/24/02 GAUGE TIME: 1120
 SOUNDING METHOD: WLI MEASUREMENT REF: TOC
 STICK UP/DOWN (ft): Flushmount WELL DIAMETER (in.): 4"
 PURGE DATE: 12/24/02 PURGE TIME: 1125
 PURGE METHOD: low flow FIELD PERSONNEL: JG/JW
 AMBIENT AIR VOCs (ppm) Start: — End: — WELL MOUTH VOCs (ppm): Start: — End: —

A. TOTAL WELL DEPTH (ft): 205 E. CASING VOLUME/FT (GAL): 0.653
 B. OPEN INTERVAL (ft): 20 F. CASING VOLUME (GAL) (D*E): 30.93
 C. DEPTH TO WATER (ft): 157.63 G. 1.5 CASING VOLUMES (GAL) (F*1.5): 46.40
 D. H₂O COLUMN(ft) (A-C): 4.37

Parameter	Beginning	1	2	3	4	5
Time (min)	1125	1130	1135	1140	1145	1150
Depth to Water (ft)	157.63	157.64	157.66	157.64	157.64	157.66
Purge Rate (L/min)	0.200	0.200	0.200	0.200	0.200	0.200
Volume Purged (L)	—	1.0	2.0	3.0	4.0	5.0
pH	5.42	5.69	5.80	5.86	5.89	5.96
Temperature (°C)	9.7+6.5	9.0	10.5	10.6	10.8	11.2
Conductivity (ms/cm)	0.171	0.160	0.172	0.169	0.169	0.170
Dissolved Oxygen (mg/L)	5.38	5.68	8.55	7.10	9.06	8.14
Turbidity (NTU)	3	8	144	232	153	103
Eh (mv)	165	164	163	158	152	145

TOTAL VOLUME WATER PURGED: 12.6 GAL
 SAMPLERS: JG/JW SAMPLING TIME (START/END): 1226/1227
 SAMPLING DATE: 12/24/02 DECONTAMINATION FLUIDS USED: Dr. Methanol
 SAMPLE TYPE: Grab SAMPLE PRESERVATIVES: HNO₃
 SAMPLE BOTTLE IDs: MW-7D
 SAMPLE PARAMETERS: Metals
 COMMENTS AND OBSERVATIONS: Set pump at 195'

PUMP #: Pine 300'
 PUMP SET DEPTH: 195'

ODOR: NONE



FIELD RECORD OF WELL GAUGING, PURGING, AND SAMPLING (OVERFLOW PAGE)

Site Name: NAWC TRENTON	Project No.: 1371209	Date: 12/04/02
Well ID: MLC-7D	Field Personnel: JG/JV	

Parameter	6	7	8	9	10	11
Time (min.)	1155	1200	1205	1210	1215	1220
Depth to Water (ft)	151.66	157.66	157.66	157.66	157.66	157.66
Purge Rate (L/min)	0.200	0.200	0.200	0.200	0.200	0.200
Volume Purged (L)	6.0 ^{6.5}	6.0 7.0	8.0	9.0	10.0	11.0
pH	5.99	6.03	6.01	6.02	5.97	5.97
Temperature (°C)	11.5	12.1	12.5	12.5	12.8	13.0
Conductivity (Units: mS/cm)	0.171	0.173	0.172	0.177	0.176	0.174
Dissolved Oxygen (mg/L)	7.68	7.51	7.41	7.77	7.77	7.76
Turbidity (NTU)	70	43	23	23	4	0
Eh (mv)	142	138	137	136	138	139

Parameter	12	POST	14	15	16	17
Time (min)	1225	1228				
Depth to Water (ft)	157.66	157.66				
Purge Rate (GAL/min)	0.200	0.200				
Volume Purged (GAL)	12.0	12.6				
pH	5.97	5.99				
Temperature (°C)	12.9	13.6				
Conductivity (Units: mS/cm)	0.175	0.176				
Dissolved Oxygen (mg/L)	7.92	11.36				
Turbidity (NTU)	0	0				
Eh (mv)	139	143				

COMMENTS AND OBSERVATIONS _____



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FIELD RECORD OF WELL GAUGING, PURGING, AND SAMPLING

SITE NAME: AGFA Peerless Photo PROJECT NUMBER: 1371209
 WELL I.D.: 1162-10 WELL LOCK STATUS: not locked/locked
 WELL CONDITION: ok WEATHER: cloudy 40-70
 GAUGE DATE: 012402 GAUGE TIME: 0845
 SOUNDING METHOD: WLT MEASUREMENT REF: top of casing
 STICK UP/DOWN (ft): flush/vent WELL DIAMETER (in.): 4
 PURGE DATE: 012402 PURGE TIME: 0905-0930
 PURGE METHOD: 4.0L/min FIELD PERSONNEL: SW/B/O
 AMBIENT AIR VOCs (ppm) Start: - End: - WELL MOUTH VOCs (ppm): Start: - End: -

- A. TOTAL WELL DEPTH (ft): 211.00 E. CASING VOLUME/FT (GAL): _____
 B. OPEN INTERVAL (ft): _____ F. CASING VOLUME (GAL) (D*E): _____
 C. DEPTH TO WATER (ft): 154.88 G. 1.5 CASING VOLUMES (GAL) (F*1.5): _____
 D. H₂O COLUMN(ft) (A-C): _____

Parameter	Beginning	1	2	3	4	5
Time (min)	0935	0940	0945	0950	0955	1000
Depth to Water (ft)	151.85	154.88	154.88	154.88	154.88	154.88
Purge Rate (L/min)						
Volume Purged (L)						
pH	8.43	8.55	8.55	8.54	8.52	8.53
Temperature (°C)	11.2	13.0	15.2	15.1	14.8	14.9
Conductivity (µmS/cm)	1.63	1.08	1.50	1.40	1.19	0.98
Dissolved Oxygen (mg/L)	9.38	7.35	7.80	7.97	8.01	7.91
Turbidity (NTU)	0.34	90.6	897	761	581	756
Eh (mv)	131	118	124	128	131	127

TOTAL VOLUME WATER PURGED: _____ GAL
 SAMPLERS: SW/B/O SAMPLING TIME (START/END): _____
 SAMPLING DATE: 012402 DECONTAMINATION FLUIDS USED: DE/4.04
 SAMPLE TYPE: grab SAMPLE PRESERVATIVES: HNO₃
 SAMPLE BOTTLE IDs: 1162-10-100 1162-10-100 1162-10-100 1162-10-100
 SAMPLE PARAMETERS: ph/DO

COMMENTS AND OBSERVATIONS: Got ready to start purging at 0905 but pump would not work so removed pump & tubing and used another pump

PUMP #: 35 ODOR: _____
 PUMP SET DEPTH: 1162-10

FIELD RECORD OF WELL GAUGING, PURGING, AND SAMPLING (OVERFLOW PAGE)

Site Name: NAWC TRENTON	Project No.: 1371209	Date: 022 012402
Well ID: MW 070	Field Personnel: SW/B.C.B	

Parameter	6	7	8	9	10	11
Time (min.)	1005	1010	1015	1020	1025	1030
Depth to Water (ft)	154.88	154.88	154.88	154.88	154.88	154.88
Purge Rate (L/min)	-	-	-	-	-	-
Volume Purged (L)	-	-	-	-	-	-
pH	5.53	5.50	5.50	5.48	5.47	5.44
Temperature (°C)	14.9	14.6	14.6	14.7	14.7	14.5
Conductivity (Units: $\mu S/cm$)	0.96	0.71	0.684	0.590	0.554	0.507
Dissolved Oxygen (mg/L)	7.94	7.48	7.95	8.05	5.66	8.36
Turbidity (NTU)	416	379	192	122	91.6	65.1
Eh (mv)	120	129	131	137	145	150

Parameter	12	13	14	15	16	17
Time (min)	1035	1040	1045	1050	1055	1100
Depth to Water (ft)	154.88	154.88	154.88	154.88	154.88	154.88
Purge Rate (GAL/min)	-	-	-	-	-	-
Volume Purged (GAL)	-	-	-	-	-	-
pH	5.10	5.05	5.05	5.05	5.05	5.06
Temperature (°C)	14.2	13.9	13.8	13.8	13.7	13.8
Conductivity (Units: $\mu S/cm$)	0.507	0.500	0.494	0.489	0.504	0.632
Dissolved Oxygen (mg/L)	8.31	8.25	8.12	8.02	7.75	7.92
Turbidity (NTU)	72.2	66.8	59.4	47.5	42.8	120
Eh (mv)	179	186	188	189	187	176

COMMENTS AND OBSERVATIONS @ 1015 started to lightly rain



FIELD RECORD OF WELL GAUGING, PURGING, AND SAMPLING (OVERFLOW PAGE)

Site Name: NAWC TRENTON	Project No.: 1371209	Date: 01/24/02
Well ID: MW-7D	Field Personnel: Bae/JN	

Parameter	18	19	20	21	22	23
Time (min.)	1105	1110	1115	1120	1125	1130
Depth to Water (ft)	154.88	154.88	154.88	154.88	154.88	154.88
Purge Rate (L/min)	-	-	-	-	-	-
Volume Purged (L)	-	-	-	-	-	-
pH	5.11	5.14	5.15	5.15	5.15	5.14
Temperature (°C)	15.3	15.7	15.8	15.9	16.10	15.2
Conductivity (mS/cm)	0.623	0.581	0.571	0.555	0.538	0.529
Dissolved Oxygen (mg/L)	7.70	8.00	8.25	8.28	8.44	8.60
Turbidity (NTU)	83.4	64.8	55.6	54.0	43.8	38.8
Eh (mv)	173	175	177	177	180	184

Parameter	24	25	26	27	28	29
Time (min)	1135	1140 1200	1145 1200	1150	1155	1200
Depth to Water (ft)	158.44	158.44	158.44	158.44	158.44	158.44
Purge Rate (L/min)	-	-	-	-	-	-
Volume Purged (L)	-	-	-	-	-	-
pH	5.13	5.13	5.12	5.12	5.13	5.14
Temperature (°C)	14.4	13.8	13.2	12.9	12.6	12.4
Conductivity (mS/cm)	0.521	0.525	0.552	0.578	0.606	0.642
Dissolved Oxygen (mg/L)	8.72	8.63	8.53	8.36	8.21	8.06
Turbidity (NTU)	36.8	37.5	45.7	49.7	69.5	76.1
Eh (mv)	186	187	187	186	184	181

COMMENTS AND OBSERVATIONS: Going beyond 2 hours limit. Chris Kerish words: turbidity stable b/c of importance of this well



FIELD RECORD OF WELL GAUGING, PURGING, AND SAMPLING (OVERFLOW PAGE)

Site Name: NAWC TRENTON	Project No.: 1371209	Date: 01/24/02
Well ID: MW - 7D	Field Personnel: Bob / JN	

Parameter	6	7	8	9	10	11
Time (min.)	1205	1210	1215	1220	1225	1230
Depth to Water (ft)	154.88	154.88				
Purge Rate (L/min)	—	—	—			
Volume Purged (L)	—	—	—			
pH	5.16	5.19				
Temperature (°C)	12.5	11.8				
Conductivity (Units: $\mu S/cm$)	0.676	0.723				
Dissolved Oxygen (mg/L)	7.89	8.22				
Turbidity (NTU)	77.8	80.7				
Eh (mv)	178	175				

Parameter	12	13	14	15	16	17
Time (min)						
Depth to Water (ft)						
Purge Rate (GAL/min)						
Volume Purged (GAL)						
pH						
Temperature (°C)						
Conductivity (Units:)						
Dissolved Oxygen (mg/L)						
Turbidity (NTU)						
Eh (mv)						

COMMENTS AND OBSERVATIONS _____



FIELD RECORD OF WELL GAUGING, PURGING, AND SAMPLING

SITE NAME: AGFA Peerless Photo PROJECT NUMBER: 1371200
 WELL ID: MW-85 WELL LOCK STATUS: Boiled
 WELL CONDITION: Good WEATHER: Sunny Light Breeze ~50°
 GAUGE DATE: 11-25-02 GAUGE TIME: 0720
 SOUNDING METHOD: WTI MEASUREMENT REF: TOC
 STICK UP/DOWN (ft): Flushment WELL DIAMETER (in.): 4"
 PURGE DATE: 11-25-02 PURGE TIME: 0730
 PURGE METHOD: Low Flow FIELD PERSONNEL: BA/JU
 AMBIENT AIR VOCs (ppm) Start: — End: — WELL MOUTH VOCs (ppm) Start: — End: —

A. TOTAL WELL DEPTH (ft): 151.00 E. CASING VOLUME/FT (GAL): 0.653
 B. OPEN INTERVAL (ft): — F. CASING VOLUME (GAL) (D*E): 18.06
 C. DEPTH TO WATER (ft): 123.33 G. ~~N~~ CASING VOLUMES (GAL) (F*~~N~~): 54.2
 D. H₂O COLUMN(ft) (A-C): 27.67 3 3

Parameter	Beginning	1	2	3	4	POST
Time (min)	0730	0735	0740	0745	0750	0757
Depth to Water (ft)	123.35	123.35	123.34	123.34	123.34	123.34
Purge Rate (L/min)	0.200	0.200	0.200	0.200	0.200	0.200
Volume Purged (L)	—	1.0	2.0	3.0	4.0	5.0
pH	4.74	5.04	5.38	5.47	5.49	5.50
Temperature (°C)	11.07	11.03	11.20	11.42	11.64	12.39
Conductivity (mS/cm)	0.232	0.209	0.208	0.202	0.200	0.183
Dissolved Oxygen (mg/L)	10.37	10.41	10.30	10.30	10.29	10.51
Turbidity (NTU)	26	23	34	31	38	30
Eh (mv)	222	218	207	200	198	191

TOTAL VOLUME WATER PURGED: ~5 ^L GAL
 SAMPLERS: BA/JU SAMPLING TIME (START/END): 0755/0757
 SAMPLING DATE: 11-25-02 DECONTAMINATION FLUIDS USED: DI, Methanol
 SAMPLE TYPE: Carab SAMPLE PRESERVATIVES: HNO₃
 SAMPLE BOTTLE IDs: MW-85
 SAMPLE PARAMETERS: Metals
 COMMENTS AND OBSERVATIONS: Set pump at 125' 140'

PUMP #: Pine 300' ODOR: None
 PUMP SET DEPTH: 140'

FIELD RECORD OF WELL GAUGING, PURGING, AND SAMPLING (OVERFLOW PAGE)

Site Name: NAWC TRENTON	Project No.: 1371209	Date:
Well ID:	Field Personnel:	

Parameter	6	7	8	9	10	11
Time (min.)						
Depth to Water (ft)						
Purge Rate (L/min)						
Volume Purged (L)						
pH						
Temperature (°C)						
Conductivity (Units:)						
Dissolved Oxygen (mg/L)						
Turbidity (NTU)						
Eh (mv)						

Parameter	12	13	14	15	16	17
Time (min)						
Depth to Water (ft)						
Purge Rate (GAL/min)						
Volume Purged (GAL)						
pH						
Temperature (°C)						
Conductivity (Units:)						
Dissolved Oxygen (mg L)						
Turbidity (NTU)						
Eh (mv)						

COMMENTS AND OBSERVATIONS _____



EA Engineering,
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FIELD RECORD OF WELL GAUGING, PURGING, AND SAMPLING

SITE NAME: AGFA Peerless Photo PROJECT NUMBER: 1371200
 WELL I.D.: MW-9 WELL LOCK STATUS: Locked
 WELL CONDITION: Good WEATHER: Sunny light breeze 20-55°
 GAUGE DATE: 11-25-02 GAUGE TIME: 1055
 SOUNDING METHOD: INT MEASUREMENT REF: TOC (inner)
 STICK UP/DOWN (ft): Up WELL DIAMETER (in.): 2"
 PURGE DATE: 11-25-02 PURGE TIME: 1105
 PURGE METHOD: Low flow FIELD PERSONNEL: BA/JW
 AMBIENT AIR VOCs (ppm) Start: — End: — WELL MOUTH VOCs (ppm): Start: — End: —

A. TOTAL WELL DEPTH (ft): 118.00 E. CASING VOLUME/FT (GAL): @ 0.653 0.163
 B. OPEN INTERVAL (ft): 20 F. CASING VOLUME (GAL) (D*E): @ 7.3 1.8
 C. DEPTH TO WATER (ft): 106.82 G. ~~5~~ CASING VOLUMES (GAL) (F*N): @ 21.9 5.47
 D. H₂O COLUMN(ft) (A-C): 11.18 3 3

Parameter	Beginning	1	2	3	4	5
Time (min)	1105	1110	1115	1120	1125	1130
Depth to Water (ft)	106.82	106.81	106.82	106.82	106.82	106.82
Purge Rate (L/min)	0.200	0.200	0.200	0.200	0.200	0.200
Volume Purged (L)	—	1.0	2.0	3.0	4.0	5.0
pH	5.59	5.57	5.58	5.59	5.58	5.57
Temperature (°C)	11.73	11.87	12.01	12.17	12.41	13.05
Conductivity (µS/cm)	0.137	0.137	0.136	0.133	0.132	0.129
Dissolved Oxygen (mg/L)	10.68	10.39	10.43	10.63	10.21	10.19
Turbidity (NTU)	169	215	236	223	199	174
Eh (mv)	183	189	194	194	194	189

TOTAL VOLUME WATER PURGED: 15 GAL⁹
 SAMPLERS: BA/JW SAMPLING TIME (START/END): 1216/1217
 SAMPLING DATE: 11-25-02 DECONTAMINATION FLUIDS USED: DI, Methanol
 SAMPLE TYPE: Grab SAMPLE PRESERVATIVES: HNO₃
 SAMPLE BOTTLE IDs: MW-9
 SAMPLE PARAMETERS: Metals
 COMMENTS AND OBSERVATIONS: Set pump at 108'

PUMP #: Pine 300'
 PUMP SET DEPTH: 108'

ODOR: None



FIELD RECORD OF WELL GAUGING, PURGING, AND SAMPLING (OVERFLOW PAGE)

Site Name: NAWC TRENTON	Project No.: 1371209	Date: 11/25/02
Well ID: <u>MW-9</u>	Field Personnel: <u>BA/JW</u>	

Parameter	6	7	8	9	10	11
Time (min.)	1135	1140	1145	1150	1155	1200
Depth to Water (ft)	106.82	106.82	106.82	106.82	106.82	106.82
Purge Rate (L/min)	0.200	0.200	0.200	0.200	0.200	0.200
Volume Purged (L)	6.0	7.0	8.0	9.0	10.0	11.0
pH	5.58	5.58	5.60	5.61	5.59	5.59
Temperature (°C)	15.29	18.01	18.14	17.40	17.21	17.38
Conductivity (Units: <u>ms/cm</u>)	0.129	0.127	0.127	0.125	0.123	0.122
Dissolved Oxygen (mg/L)	9.84	9.85	10.09	10.07	10.22	10.22
Turbidity (NTU)	123	97	73	67	57	44
Eh (mv)	174	171	177	181	184	185

Parameter	12	13	14	15	<u>POST</u>	17
Time (min)	1205	1210	1215		1217	
Depth to Water (ft)	106.82	106.82	106.82		106.82	
Purge Rate (<u>GAL/min</u>) <u>4/min</u>	0.200	0.200	0.200		0.200	
Volume Purged (<u>GAL</u>) <u>L</u>	12.0	13.0	14.0		18.0	
pH	5.60	5.61	5.60		5.67	
Temperature (°C)	17.38	17.24	17.17		17.35	
Conductivity (Units: <u>ms/cm</u>)	0.121	0.121	0.120		0.119	
Dissolved Oxygen (mg/L)	10.22	10.28	10.23		10.23	
Turbidity (NTU)	33	32	32		35	
Eh (mv)	186	187	187		184	

COMMENTS AND OBSERVATIONS _____



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FIELD RECORD OF WELL GAUGING, PURGING, AND SAMPLING

SITE NAME	AGFA Pearless Photo	PROJECT NUMBER:	12111
WELL I.D.:	MW-10	WELL LOCK STATUS:	Boiled
WELL CONDITION:	Good	WEATHER:	Snowing, cold windy ~35°F
GAUGE DATE:	12/05/02	GAUGE TIME:	1400
SOUNDING METHOD:	WLI	MEASUREMENT REF:	TOC
STICK UP/DOWN (ft):	Flush mount	WELL DIAMETER (in):	4"
PURGE DATE:	12/05/02	PURGE TIME:	1410
PURGE METHOD:	Low Flow	FIELD PERSONNEL:	JG/JW
AMBIENT AIR VOCs (ppm):	Start: _____ End: _____	WELL MOUTH VOCs (ppm):	Start: _____ End: _____

A. TOTAL WELL DEPTH (ft):	127.00	E. CASING VOLUME/FT (GAL):	0.653
B. OPEN INTERVAL (ft):	_____	F. CASING VOLUME (GAL) (D*E):	_____
C. DEPTH TO WATER (ft):	112.31	G. 1.5 CASING VOLUMES (GAL) (F*1.5):	_____
D. H ₂ O COLUMN(ft) (A-C):	_____		

Parameter	Beginning	1	2	3	4	5
Time (min)	1410	1415	1420	1425	1430	1435
Depth to Water (ft)	112.32	112.32	112.32	112.32	112.32	112.32
Purge Rate (L/min)	0.200	0.200	0.200	0.200	0.200	0.200
Volume Purged (L)	—	1.0	2.0	3.0	4.0	5.0
pH	5.71	5.67	5.64	5.60	5.63	5.6
Temperature (°C)	8.9	10.4	11.2	14.6	13.8	13.7
Conductivity (mS/cm)	0.170	0.166	0.163	0.151	0.154	0.154
Dissolved Oxygen (mg/L)	9.14	9.26	9.18	9.31	9.29	9.27
Turbidity (NTU)	53	43	37	29	29	28
Eh (mv)	142	144	146	149	148	149

TOTAL VOLUME WATER PURGED: 9.0 GAL

SAMPLERS:	JG/JW	SAMPLING TIME (START/END):	1453/1455
SAMPLING DATE:	12/05/02	DECONTAMINATION FLUIDS USED:	DI, Methanol
SAMPLE TYPE:	Grab	SAMPLE PRESERVATIVES:	HNO ₃
SAMPLE BOTTLE IDs:	MW-10		
SAMPLE PARAMETERS:	Metals		

COMMENTS AND OBSERVATIONS: Set pump at 117'

PUMP #: Pine 300'
PUMP SET DEPTH: 117'

ODOR: NONE



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FIELD RECORD OF WELL GAUGING, PURGING, AND SAMPLING (OVERFLOW PAGE)

Site Name: NAWC TRENTON	Project No.: 1371209	Date: 12/05/02
Well ID: MW-10	Field Personnel: JG/JN	

Parameter	6	7	8	9	POST	11
Time (min.)	1440	1445	1450		1455	
Depth to Water (ft)	112.32	112.32	112.32		112.32	
Purge Rate (L/min)	0.200	0.200	0.200		0.200	
Volume Purged (L)	6.0	7.0	8.0		9.0	
pH	5.62	5.60	5.61		5.59	
Temperature (°C)	13.3	13.4	14.1		15.0	
Conductivity (Units: ms/cm)	0.156	0.154	0.152		0.155	
Dissolved Oxygen (mg/L)	9.40	9.50	9.29		9.90	
Turbidity (NTU)	28	26	27		27	
Eh (mv)	150	151	151		155	

Parameter	12	13	14	15	16	17
Time (min)						
Depth to Water (ft)						
Purge Rate (GAL/min)						
Volume Purged (GAL)						
pH						
Temperature (°C)						
Conductivity (Units:)						
Dissolved Oxygen (mg/L)						
Turbidity (NTU)						
Eh (mv)						

COMMENTS AND OBSERVATIONS _____



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FIELD RECORD OF WELL GAUGING, PURGING, AND SAMPLING

SITE NAME: AGFA Peerless Photo PROJECT NUMBER: 1371209
 WELL I.D.: 0.150 in WELL LOCK STATUS: not locked
 WELL CONDITION: dry WEATHER: overcast, dry, cool
 GAUGE DATE: 01/28/02 GAUGE TIME: 0831
 SOUNDING METHOD: well MEASUREMENT REF: top of casing
 STICK UP/DOWN (ft): flush to seal WELL DIAMETER (in): 2.9
 PURGE DATE: 01/23/02 PURGE TIME: 0851
 PURGE METHOD: low flow FIELD PERSONNEL: SM/Bro
 AMBIENT AIR VOCs (ppm) Start: --- End: --- WELL MOUTH VOCs (ppm): Start: --- End: ---

- A. TOTAL WELL DEPTH (ft): 127.00 E. CASING VOLUME/FT (GAL): _____
 B. OPEN INTERVAL (ft): _____ F. CASING VOLUME (GAL) (D*E): _____
 C. DEPTH TO WATER (ft): 109.51 G. CASING VOLUMES (GAL) (F*F5): _____
 D. H₂O COLUMN(ft) (A-C): _____

Parameter	Beginning	1	2	3	4	5
Time (min)	0851	0930	0901	0900	0911	0916
Depth to Water (ft)	109.50	109.50	109.50	109.52	109.52	109.52
Purge Rate (L/min)						
Volume Purged (L)	-	-	-	-	-	
pH	4.75	5.06	5.02	5.02	5.09	5.03
Temperature (°C)	10.18	11.3	13.1	13.0	13.0	13.3
Conductivity (µmS/cm)	0.204	0.285	0.292	0.266	0.249	0.233
Dissolved Oxygen (mg/L)	8.37	8.19	8.54	8.71	8.68	8.03
Turbidity (NTU)	3.1	0.9	2.2	1.6	1.4	1.2
Eh (mv)	277	278	273	273	271	270

TOTAL VOLUME WATER PURGED: _____ GAL
 SAMPLERS: SM/Bro SAMPLING TIME (START/END): 0930
 SAMPLING DATE: 01/28/02 DECONTAMINATION FLUIDS USED: Decontol
 SAMPLE TYPE: grab SAMPLE PRESERVATIVES: none
 SAMPLE BOTTLE IDs: 012810 1000
 SAMPLE PARAMETERS: pH, DO
 COMMENTS AND OBSERVATIONS: _____

PUMP #: _____ ODOR: _____
 PUMP SET DEPTH: _____

FIELD RECORD OF WELL GAUGING, PURGING, AND SAMPLING (OVERFLOW PAGE)

Site Name: NAWC TRENTON	Project No.: 1371209	Date: 01/23/02
Well ID: MW 10	Field Personnel: SW/13ms	

Parameter	6	7	8	POST 9	10	11
Time (min.)	0921	0726	0731	0936		
Depth to Water (ft)	109.52	109.52	109.52	109.52		
Purge Rate (L/min)				—		
Volume Purged (L)	—			—		
pH	5.01	5.02	5.04	5.03		
Temperature (°C)	13.7	14.0	14.3	14.2		
Conductivity (Units: <i>ms/cm</i>)	0.227	0.224	0.221	0.221		
Dissolved Oxygen (mg/L)	8.76	8.76	8.81	9.02		
Turbidity (NTU)	1.1	1.1	1.0	0.6		
Eh (mv)	270	270	269	268		

Parameter	12	13	14	15	16	17
Time (min)						
Depth to Water (ft)						
Purge Rate (GAL/min)						
Volume Purged (GAL)						
pH						
Temperature (°C)						
Conductivity (Units:)						
Dissolved Oxygen (mg/L)						
Turbidity (NTU)						
Eh (mv)						

COMMENTS AND OBSERVATIONS _____



FIELD RECORD OF WELL GAUGING, PURGING, AND SAMPLING

SITE NAME: AGFA Peerless Photo PROJECT NUMBER: 1371011
 WELL ID: MW-100 WELL LOCK STATUS: Bolted
 WELL CONDITION: New WEATHER: Snowing (heavily) Cold
~30°
 GAUGE DATE: 12/05/02 GAUGE TIME: 1205
 SOUNDING METHOD: WLT MEASUREMENT REF: TUC
 STICK UP/DOWN (ft): Flushmount WELL DIAMETER (in.): 4"
 PURGE DATE: 12/05/02 PURGE TIME: 1215
 PURGE METHOD: Low Flow FIELD PERSONNEL: JG/JW
 AMBIENT AIR VOCs (ppm) Start: --- End: --- WELL MOUTH VOCs (ppm): Start: --- End: ---

A. TOTAL WELL DEPTH (ft): 178.34 E. CASING VOLUME-FT (GAL): 0.653
 B. OPEN INTERVAL (ft): 10 F. CASING VOLUME (GAL) (D*E): ---
 C. DEPTH TO WATER (ft): 112.61 G. 1.5 CASING VOLUMES (GAL) (F*1.5): ---
 D. H₂O COLUMN(ft) (A-C): ---

Parameter	Beginning	1	2	3	4	5
Time (min)	1215	1220	1225	1230	1235	1240
Depth to Water (ft)	112.61	112.61	112.61	112.61	112.61	112.61
Purge Rate (L/min)	0.200	0.200	0.200	0.200	0.200	0.200
Volume Purged (L)	---	1.0	2.0	3.0	4.0	5.0
pH	6.52	6.49	6.44	6.38	6.32	6.30
Temperature (°C)	9.4	10.5	10.8	11.2	11.9	12.1
Conductivity (ms/cm)	0.168	0.166	0.163	0.158	0.148	0.144
Dissolved Oxygen (mg/L)	10.45	9.86	10.10	10.08	10.27	10.28
Turbidity (NTU)	39	50	40	39	30	30
Eh (mv)	129	127	128	129	131	131

TOTAL VOLUME WATER PURGED: 9.0 GAL

SAMPLERS: JG/JW SAMPLING TIME (START/END): 1302/1304
 SAMPLING DATE: 12/05/02 DECONTAMINATION FLUIDS USED: DI, Methanol
 SAMPLE TYPE: Grab SAMPLE PRESERVATIVES: HNO₃
 SAMPLE BOTTLE IDs: MW-100
 SAMPLE PARAMETERS: Metals
 COMMENTS AND OBSERVATIONS: Set pump at 173

PUMP = Pine 300'
 PUMP SET DEPTH: 173'

ODOR: None



FIELD RECORD OF WELL GAUGING, PURGING, AND SAMPLING (OVERFLOW PAGE)

Site Name: NAWC TRENTON	Project No.: 1371209	Date: 12/05/02
Well ID: MW-10D	Field Personnel: JC./JW	

Parameter	6	7	8	9	10	POST
Time (min.)	1245	1250	1255	1300		1305
Depth to Water (ft)	112.61	112.61	112.61	112.61		112.61
Purge Rate (L/min)	0.200	0.200	0.200	0.200		0.200
Volume Purged (L)	6.0	7.0	8.0	9.0		10.0
pH	6.27	6.23	6.23	6.22		6.24
Temperature (°C)	12.1	12.1	12.1	12.1		12.2
Conductivity (Units: ms/cm)	0.141	0.139	0.138	0.138		0.135
Dissolved Oxygen (mg/L)	10.42	10.39	10.35	10.34		10.70
Turbidity (NTU)	30	30	30	30		30
Eh (mv)	132	132	133	133		134

Parameter	12	13	14	15	16	17
Time (min)						
Depth to Water (ft)						
Purge Rate (GAL/min)						
Volume Purged (GAL)						
pH						
Temperature (°C)						
Conductivity (Units:)						
Dissolved Oxygen (mg/L)						
Turbidity (NTU)						
Eh (mv)						

COMMENTS AND OBSERVATIONS _____



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FIELD RECORD OF WELL GAUGING, PURGING, AND SAMPLING

SITE NAME: AGFA Peerless Photo PROJECT NUMBER: 13712H
 WELL ID: MW-115 WELL LOCK STATUS: Batted
 WELL CONDITION: New WEATHER: Snowing (heavily), Cold
~30°
 GAUGE DATE: 12/05/02 GAUGE TIME: 1010
 SOUNDING METHOD: WLT MEASUREMENT REF: TSC
 STICK UP/DOWN (ft): Flushmount WELL DIAMETER (in.): 4"
 PURGE DATE: 12/05/02 PURGE TIME: 1015
 PURGE METHOD: Low Flow FIELD PERSONNEL: JG/JU
 AMBIENT AIR VOCs (ppm) Start: — End: — WELL MOUTH VOCs (ppm): Start: — End: —

A. TOTAL WELL DEPTH (ft): 172.85 E. CASING VOLUME/FT (GAL): 0.663
 B. OPEN INTERVAL (ft): 20 F. CASING VOLUME (GAL) (D*E): —
 C. DEPTH TO WATER (ft): 140.30 G. 1.5 CASING VOLUMES (GAL) (F*1.5): —
 D. H₂O COLUMN(ft) (A-C): —

Parameter	Beginning	1	2	3	4	POST
Time (min)	1015	1020	1025	1030	1035	1040
Depth to Water (ft)	140.30	140.30	140.30	140.30	140.30	140.30
Purge Rate (L/min)	0.200	0.200	0.200	0.200	0.200	0.200
Volume Purged (L)	—	1.0	2.0	3.0	4.0	5.0
pH	5.96	6.00	6.01	6.04	6.06	6.12
Temperature (°C)	9.5	10.8	11.2	11.6	12.4	13.0
Conductivity (mS/cm)	0.124	0.124	0.124	0.124	0.123	0.121
Dissolved Oxygen (mg/L)	8.63	8.19	8.23	8.28	8.23	9.21
Turbidity (NTU)	34	29	27	29	27	30
Eh (mv)	151	147	146	144	141	141

TOTAL VOLUME WATER PURGED: 5.0 GAL

SAMPLERS: JG/JU SAMPLING TIME (START/END): 1036/1038
 SAMPLING DATE: 12-05-02 DECONTAMINATION FLUIDS USED: DI, Methanol
 SAMPLE TYPE: Grab SAMPLE PRESERVATIVES: HNO₃
 SAMPLE BOTTLE IDs: MW-115
 SAMPLE PARAMETERS: Metals
 COMMENTS AND OBSERVATIONS: Set pump at 162'

PUMP @ Pine 300'
 PUMP SET DEPTH: 162'

ODOR: NONE



FIELD RECORD OF WELL GAUGING, PURGING, AND SAMPLING (OVERFLOW PAGE)

Site Name: NAWC TRENTON	Project No.: 1371209	Date:
Well ID:	Field Personnel:	

Parameter	5	7	8	9	10	11
Time (min)						
Depth to Water (ft)						
Purge Rate (L/min)						
Volume Purged (L)						
pH						
Temperature (°C)						
Conductivity (Units:)						
Dissolved Oxygen (mg/L)						
Turbidity (NTU)						
Eh (mv)						

Parameter	12	13	14	15	16	17
Time (min)						
Depth to Water (ft)						
Purge Rate (GAL/min)						
Volume Purged (GAL)						
pH						
Temperature (°C)						
Conductivity (Units:)						
Dissolved Oxygen (mg L)						
Turbidity (NTU)						
Eh (mv)						

COMMENTS AND OBSERVATIONS _____



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FIELD RECORD OF WELL GAUGING, PURGING, AND SAMPLING

SITE NAME: AGFA Peerless Photo PROJECT NUMBER: 137211
 WELL ID: MW-11D WELL LOCK STATUS: Blank
 WELL CONDITION: well WEATHER: Snowing, windy, cold 23°
 GAUGE DATE: 12-25-02 GAUGE TIME: 0845
 SOUNDING METHOD: WLI MEASUREMENT REF: Top
 STICK UP/DOWN (ft): Flushment WELL DIAMETER (in.): 4"
 PURGE DATE: 12-5-02 PURGE TIME: 0850
 PURGE METHOD: Low Flow FIELD PERSONNEL: JG/JV
 AMBIENT AIR VOCs (ppm) Start: — End: — WELL MOUTH VOCs (ppm) Start: — End: —

A. TOTAL WELL DEPTH (ft): 220 E. CASING VOLUME (FT (GAL)): 0.653
 B. OPEN INTERVAL (ft): 20 F. CASING VOLUME (GAL) (D*E):
 C. DEPTH TO WATER (ft): 140.32 G. 1.5 CASING VOLUMES (GAL) (F*1.5):
 D. H₂O COLUMN(ft) (A-C):

Parameter	Beginning	1	2	3	4	5
Time (min)	0850	0855	0900	0905	0910	0915
Depth to Water (ft)	140.33	140.31	140.34	140.34	140.34	140.34
Purge Rate (L/min)	0.200	0.200	0.200	0.200	0.200	0.200
Volume Purged (L)	—	1.0	2.0	3.0	4.0	5.0
pH	8.94	8.47	6.67	6.32	5.79	5.57
Temperature (°C)	10.4	11.3	11.6	11.8	11.8	12.0
Conductivity (ms/cm)	0.349	0.331	0.246	0.261	0.249	0.243
Dissolved Oxygen (mg/L)	9.57	8.99	9.24	9.11	8.93	8.82
Turbidity (NTU)	22	20	389	247	183	135
Eh (mv)	107	126	170	173	175	175

TOTAL VOLUME WATER PURGED: 12.0 ~~11.0~~ L

SAMPLERS: JG/JV SAMPLING TIME (START/END): 0946
 SAMPLING DATE: 12-25-02 DECONTAMINATION FLUIDS USED: DI, Methanol
 SAMPLE TYPE: Grab SAMPLE PRESERVATIVES: HNO₃
 SAMPLE BOTTLE IDs: MW-11D
 SAMPLE PARAMETERS: Metals

COMMENTS AND OBSERVATIONS: Set pump at 210'

PUMP = Pine 300'
 PUMP SET DEPTH: 210'

ODOR: None



FIELD RECORD OF WELL GAUGING, PURGING, AND SAMPLING (OVERFLOW PAGE)

Site Name: NAWC TRENTON	Project No.: 1371209	Date: 12/05/02
Well ID: MW-11D	Field Personnel: JG/JN	

Parameter	6	7	8	9	10	11
Time (min)	0920	0925	0930	0935	0940	0945
Depth to Water (ft)	140.34	140.34	140.34	140.34	140.34	140.34
Purge Rate (L/min)	0.200	0.200	0.200	0.200	0.200	0.200
Volume Purged (L)	6.0	7.0	8.0	9.0	10.0	11.0
pH	5.53	5.49	5.50	5.53	5.51	5.52
Temperature (°C)	12.4	11.8	12.1	12.3	12.0	12.7
Conductivity (Units: $\mu\text{S}/\text{cm}$)	0.247	0.246	0.245	0.248	0.244	0.245
Dissolved Oxygen (mg/L)	9.44	9.36	9.37	9.32	9.26	9.36
Turbidity (NTU)	80	42	32	26	28	26
Eh (mv)	173	170	169	167	167	167

Parameter	Post	13	14	15	16	17
Time (min)	0950					
Depth to Water (ft)	140.34 0.8					
Purge Rate (GAL/min)	0.200					
Volume Purged (GAL)	12.0					
pH	5.51					
Temperature (°C)	12.2					
Conductivity (Units: $\mu\text{S}/\text{cm}$)	0.245					
Dissolved Oxygen (mg/L)	9.75					
Turbidity (NTU)	3.0					
Eh (mv)	165					

COMMENTS AND OBSERVATIONS



EA Engineering,
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FIELD RECORD OF WELL GAUGING, PURGING, AND SAMPLING

SITE NAME: AGFA Peerless Photo PROJECT NUMBER: 15114
 WELL I.D.: TW-1 WELL LOCK STATUS: locked
 WELL CONDITION: Good WEATHER: Windy, Cloudy 60° ~ 65°
 GAUGE DATE: 12/03/02 GAUGE TIME: 0905
 SOUNDING METHOD: LWT MEASUREMENT REF: TSC
 STICK UP/DOWN (ft): UP ~ 1.45 WELL DIAMETER (in.): 4"
 PURGE DATE: 12/03/02 PURGE TIME: 0900
 PURGE METHOD: Low Flow FIELD PERSONNEL: JG/JW
 AMBIENT AIR VOCs (ppm) Start: — End: — WELL MOUTH VOCs (ppm): Start: — End: —

A. TOTAL WELL DEPTH (ft): 127.20 E. CASING VOLUME/FT (GAL): 0.653
 B. OPEN INTERVAL (ft): 10 F. CASING VOLUME (GAL) (D*E): 8.62
 C. DEPTH TO WATER (ft): 114.2 G. ~~15~~ CASING VOLUMES (GAL) (F*1): 25.86
 D. H₂O COLUMN(ft) (A-C): 13.2 3 3

Parameter	Beginning	1	2	3	4	5	Post
Time (min)	0900	0905	0910	0915	0920	0925	0927
Depth to Water (ft)	113.99	113.99	113.99	113.99	113.99	113.99	113.99
Purge Rate (L/min)	0.200	0.200	0.200	0.200	0.200	0.200	0.200
Volume Purged (L)	—	1.0	2.0	3.0	4.0	5.0	5.4
pH	5.79	5.95	5.94	5.92	5.90	5.91	5.85
Temperature (°C)	7.8	8.5	9.1	8.8	9.1	9.0	11.1
Conductivity (mS/cm)	0.215	0.209	0.200	0.204	0.203	0.201	0.200
Dissolved Oxygen (mg/L)	10.82	10.90	10.90	11.15	11.02	10.94	11.55
Turbidity (NTU)	16	5	6	5	2	2	2
Eh (mv)	150	184	190	191	191	189	194

TOTAL VOLUME WATER PURGED: 5.4 GAL

SAMPLERS: JG/JW SAMPLING TIME (START/END): 0920
 SAMPLING DATE: 12/03/02 DECONTAMINATION FLUIDS USED: DI, Methanol
 SAMPLE TYPE: Grab SAMPLE PRESERVATIVES: HNO₃
 SAMPLE BOTTLE IDs: TW-1
 SAMPLE PARAMETERS: Metals
 COMMENTS AND OBSERVATIONS: Set pump at 122'

PUMP #: Pine 300'
 PUMP SET DEPTH: 122'

ODOR: None



FIELD RECORD OF WELL GAUGING, PURGING, AND SAMPLING (OVERFLOW PAGE)

Site Name: NAWC TRENTON	Project No.: 1371209	Date:
Well ID:	Field Personnel:	

Parameter	6	7	8	9	10	11
Time (min.)						
Depth to Water (ft)						
Purge Rate (L/min)						
Volume Purged (L)						
pH						
Temperature (°C)						
Conductivity (Units:)						
Dissolved Oxygen (mg/L)						
Turbidity (NTU)						
Eh (mv)						

Parameter	12	13	14	15	16	17
Time (min)						
Depth to Water (ft)						
Purge Rate (GAL/min)						
Volume Purged (GAL)						
pH						
Temperature (°C)						
Conductivity (Units:)						
Dissolved Oxygen (mg L)						
Turbidity (NTU)						
Eh (mv)						

COMMENTS AND OBSERVATIONS _____



FIELD RECORD OF WELL GAUGING, PURGING, AND SAMPLING

SITE NAME: AGFA Peerless Photo PROJECT NUMBER: 157214
 WELL ID: TW-2 WELL LOCK STATUS: Locked
 WELL CONDITION: New WEATHER: Sunny, windy, Cold - 20°
 GAUGE DATE: 12/03/02 GAUGE TIME: 0750
 SOUNDING METHOD: WLT MEASUREMENT REF: TOC
 STICK UP/DOWN (ft): UP ~ 2.45' WELL DIAMETER (in.): 4"
 PURGE DATE: 12/03/02 PURGE TIME: 0750
 PURGE METHOD: Low Flow FIELD PERSONNEL: JG/JW
 AMBIENT AIR VOCs (ppm) Start: — End: — WELL MOUTH VOCs (ppm): Start: — End: —

A. TOTAL WELL DEPTH (ft): 127.40 E. CASING VOLUME/FT (GAL): 0.653
 B. OPEN INTERVAL (ft): 10 F. CASING VOLUME (GAL) (D*E): 5.52
 C. DEPTH TO WATER (ft): 113.89 G. 1.5 CASING VOLUMES (GAL) (F*1.5): 13.23
 D. H₂O COLUMN(ft) (A-C): 13.51

Parameter	Beginning	1	2	3	4	5
Time (min)	0755	1000	1000	1010	1015	1020
Depth to Water (ft)	113.89	113.89	113.89	113.89	113.89	113.89
Purge Rate (L/min)	0.200	0.200	0.200	0.200	0.200	0.200
Volume Purged (L)	—	1.0	2.0	3.0	4.0	5.0
pH	5.69	5.50	5.50	5.54	5.66	5.69
Temperature (°C)	6.1	7.8	8.8	9.6	11.0	8.6
Conductivity (ms/cm)	0.213	0.219	0.221	0.221	0.214	0.216
Dissolved Oxygen (mg/L)	10.47	10.34	10.45	10.49	10.39	11.00
Turbidity (NTU)	22	11	3	0	0	8
Eh (mv)	191	195	195	193	187	186

TOTAL VOLUME WATER PURGED: 12 GAL L
 SAMPLERS: JG/JW SAMPLING TIME (START/END): 1052
 SAMPLING DATE: 12/03/02 DECONTAMINATION FLUIDS USED: DE, Methanol
 SAMPLE TYPE: Grab SAMPLE PRESERVATIVES: HNO₃
 SAMPLE BOTTLE IDs: TW-2
 SAMPLE PARAMETERS: Metals
 COMMENTS AND OBSERVATIONS: Set pump at 122'

PUMP #: Pine 300'
 PUMP SET DEPTH: 122'

ODOR: None



FIELD RECORD OF WELL GAUGING, PURGING, AND SAMPLING (OVERFLOW PAGE)

Site Name: NAWC TRENTON	Project No.: 1371209	Date: 12/03/02
Well ID: TW-2	Field Personnel: JG/JN	

Parameter	6	7	8	9	10	11
Time (min.)	1025	1030	1035	1040	1045	1050
Depth to Water (ft)	113.89	113.89	113.89	113.89	113.89	113.89
Purge Rate (L/min)	0.200	0.200	0.200	0.200	0.200	0.200
Volume Purged (L)	6.0	7.0	8.0	9.0	10.0	11.0
pH	5.69	5.69	5.70	5.69	5.72	5.73
Temperature (°C)	7.5	7.0	6.6	9.1	9.2	9.1
Conductivity (Units: ms/cm)	0.216	0.217	0.218	0.214	0.214	0.214
Dissolved Oxygen (mg/L)	10.64	10.67	10.79	10.07	10.22	10.31
Turbidity (NTU)	9	9	10	0	0	0
Eh (mv)	185	183	183	181	184	184

Parameter	Pool 12	13	14	15	16	17
Time (min)	1054					
Depth to Water (ft)	113.89					
Purge Rate (GAL/min)	0.200					
Volume Purged (GAL)	12.0					
pH	5.82					
Temperature (°C)	10.2					
Conductivity (Units: ms/cm)	0.207					
Dissolved Oxygen (mg/L)	11.91					
Turbidity (NTU)	2					
Eh (mv)	183					

COMMENTS AND OBSERVATIONS



FIELD RECORD OF WELL GAUGING, PURGING, AND SAMPLING

SITE NAME: AGFA Peerless Photo PROJECT NUMBER: 137019
 WELL ID: TW-3 WELL LOCK STATUS: Unlocked
 WELL CONDITION: New WEATHER: Sunny, windy, cold: 25°
 GAUGE DATE: 12/03/02 GAUGE TIME: 1145
 SOUNDING METHOD: LWT MEASUREMENT REF: TOC
 STICK UP/DOWN (ft): UP ~ 2.5 WELL DIAMETER (in.): 4"
 PURGE DATE: 12/03/02 PURGE TIME: 1150
 PURGE METHOD: low flow FIELD PERSONNEL: JG/JU
 AMBIENT AIR VOCs (ppm) Start: — End: — WELL MOUTH VOCs (ppm): Start: — End: —

A. TOTAL WELL DEPTH (ft): 127.24 E. CASING VOLUME/FT (GAL): 0.653
 B. OPEN INTERVAL (ft): 10 F. CASING VOLUME (GAL) (D*E): 9.31
 C. DEPTH TO WATER (ft): 112.98 G. 1.5 CASING VOLUMES (GAL) (F*1.5): 13.97
 D. H₂O COLUMN(ft) (A-C): 14.26

Parameter	Beginning	1	2	3	4	Rest
Time (min)	1150	1155	1200	1205	1210	1214
Depth to Water (ft)	112.99	113.00	113.00	113.00	113.00	113.00
Purge Rate (L/min)	0.200	0.200	0.200	0.200	0.200	0.200
Volume Purged (L)	—	1.0	2.0	3.0	4.0	5.0
pH	5.80	5.58	5.61	5.65	5.67	5.64
Temperature (°C)	5.5	8.0	8.3	8.4	8.8	10.3
Conductivity (µS/cm)	0.223	0.224	0.227	0.233	0.233	0.227
Dissolved Oxygen (mg/L)	11.45	10.44	10.79	10.87	10.84	12.11
Turbidity (NTU)	9	0	0	0	0	5
Eh (mv)	180	183	182	181	180	179

TOTAL VOLUME WATER PURGED: 5.0 ~~6.1~~
 SAMPLERS: JG/JU SAMPLING TIME (START/END): 1211/1212
 SAMPLING DATE: 12/03/02 DECONTAMINATION FLUIDS USED: DI, Methanol
 SAMPLE TYPE: Grab SAMPLE PRESERVATIVES: HNO₃
 SAMPLE BOTTLE IDS: TW-3
 SAMPLE PARAMETERS: Metals
 COMMENTS AND OBSERVATIONS: Set pump at 122'

PUMP = Pine 300'
 PUMP SET DEPTH: 122'

ODOR: None



FIELD RECORD OF WELL GAUGING, PURGING, AND SAMPLING (OVERFLOW PAGE)

Site Name: NAWC TRENTON	Project No.: 1371209	Date:
Well ID:	Field Personnel:	

Parameter	6	7	8	9	10	11
Time (min.)						
Depth to Water (ft)						
Purge Rate (L/min)						
Volume Purged (L)						
pH						
Temperature (°C)						
Conductivity (Units:)						
Dissolved Oxygen (mg/L)						
Turbidity (NTU)						
Eh (mv)						

Parameter	12	13	14	15	16	17
Time (min)						
Depth to Water (ft)						
Purge Rate (GAL/min)						
Volume Purged (GAL)						
pH						
Temperature (°C)						
Conductivity (Units:)						
Dissolved Oxygen (mg/L)						
Turbidity (NTU)						
Eh (mv)						

COMMENTS AND OBSERVATIONS _____

Appendix C
Soil Boring Logs





EA Engineering, Science,
and Technology, Inc.

LOG OF SOIL BORING

Coordinates: N 286855.12
E 1288657.391

Surface Elevation: 138.90

Inner Casing Elevation: 138.64

Reference Elevation: 138.91

Reference Description: Flush Mount

Job. No. 13712.11	Client Agfa	Location Shoreham, NY
Drilling Method: Hollow-Stem Auger using an F-10 rig with 4 1/2" ID augers first then ream out with 6 1/2" ID augers.		Boring No. MW-10D
Sampling Method: Continuous split spoons approaching the water table and approaching the lower aquifer unit. Used 24-in long, 2-in. diameter stainless steel split spoons driven with 140-lb hammer free falling 30-in within the annulus of the augers.		Sheet 1 of 2
Drilling		
Water Lev.	112'	Start
Time	805	1215
Date	10/16/02	Date
Reference	BGS	10/15/02
		10/21/02

Sample Type	Inches Drvn/In. Recvrd	Depth Csg.	Samp. # /samp. depth	PID (ppm) (spoon)	Blows per 6 in.	Depth in Feet	USCS Log	Surface Conditions: Asphalt. Behind the large main site building, adjacent to MW-10.
Grab						0		Drilled to 90' using 4 1/2" ID augers. Cuttings are primarily medium to fine SAND, dry to slightly moist with traces (-) of fine to coarse quartz gravel/cobbles toward bottom of run.
SS	3/-	89	90-92'		100/3	90		90-92': no recovery. There is most likely a plug of surface material immediately below lead auger. Also this split spoon had to penetrate a plastic basket at bottom of lead auger. Will drill to 95' and attempt another split spoon.
SS	24/18	94	95-97'		12	95		95-96.5': Light gray with whitish medium to fine (+) SAND, well sorted, slightly moist. Drill to 100'.
					14			
					13			
					20			
SS	3/3+	99	100-102		100/3	100		100-102': Approximately 12" in spoon. Pieces of red plastic basket present. Primarily brown very fine SAND, little (-) fine gravel (sub-rounded quartz pieces), dry. May be material from above 100', moderately dense. Drill to 105'
					-			
					-			
SS	10/10	105	105-107		39	105		105-105.8': Banded brown/light brown/whitish medium to fine (+) SAND, trace (+) fine gravel (sub angular), moderately dense, dry to slightly moist.
					100/4			
					-	106		
					-			
SS	24/12	107	107-109		13	107		107-108': Whitish medium to fine SAND, well sorted, slightly moist.
					10			
					12	108		
					16			
SS	24/8	109	109-111		9	109		109-109.7': Whitish medium to fine SAND, well sorted, slightly moist.
					7			
					6	110		
					5			
SS	24/24	111	111-113		13	111		111-113': Brown/tan fine to very SAND, trace (-) fine gravel, moist to wet. Groundwater 112 ft bgs. Drill to 140' then split spoon sample every five feet until close to lower aquifer unit.
					20			
					16	112		
					24			
						113		
						114		
						115		

Logged by: Tom Biolsi

Date: 10/15/02 - 10/21/02

Drilling Contractor: Aquifer Drilling and Testing

Driller: Shawn Miller

WELL SPECIFICATIONS:

Diam. of casing: 4-in. Screened Interval: 169-179 ft Sandpack: 167-179 ft Grout: 0-163 ft
BOH: 179 ft Riser Interval: 0-169 ft Choker Sand: 163-167 ft Cover: Flush mount

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EA Engineering, Science,
and Technology, Inc.

LOG OF SOIL BORING

Coordinates: N 286855.12
E 1288657.391

Surface Elevation: 138.90

Inner Casing Elevation: 138.64

Reference Elevation: 138.91

Reference Description: Flush Mount

Job No. 13712.11	Client Agfa	Location Shoreham, NY
Drilling Method: Hollow-Stem Auger using an F-10 rig with 4 1/2" ID augers first then ream out with 6 1/2" ID augers.		Boring No. MW-10D
Sampling Method: Continuous split spoons approaching the water table and approaching the lower aquifer unit. Used 24-in long, 2-in. diameter stainless steel split spoons driven with 140-lb hammer free falling 30-in within the annulus of the augers.		Sheet 2 of 2
Drilling		
Water Lev.	112'	Start
Time	805	1215
Date	10/16/02	Date
Reference	BGS	10/15/02 10/21/02

Sample Type	Inches Drvn/In. Recvrd	Depth Csg.	Samp. # /samp. depth	PiD (ppm) (spoon)	Blows per 6 in.	Depth in Feet	USCS Log
SS	24/24	140	140-142		6	140	140-141.9' : Brown/tan coarse to medium (+) to fine SAND, wet.
					9	141	
					12	141	141.9-142' : Brown fine GRAVEL (rounded), some medium to fine sand, wet.
					4	142	
SS	24/24	142	142-144		16	142	142-144' : Brown medium to fine SAND, well sorted, moderately dense, wet.
					21		
					19		
					30		
SS	24/18	150	150-152		7	150	150-151' : Brown medium to fine SAND grading to brown coarse SAND, well sorted, wet.
					19	151	151-151.5' : Primarily brown and white (all quartz) medium to fine (+) GRAVEL, some coarse (+) to medium sand, wet.
					21	151	
					30	152	
SS	24/18	152	152-154		17	152	152-152.5' : Brown medium to fine SAND, well sorted may be sluff falling in.
					15		
					17	153	152.5-153.5' : Brown coarse SAND, well sorted, wet.
					21	153	
						154	
							NOTE: Driller said there was a change in drilling beginning at ~151', it was "crunchy", most likely indicating a change to a coarser material.
SS	24/sluff	155	155-157		43	155	155-157' : Sluff material, very loose and discontinuous in spoon, wet. Mixture of fine gravel, coarse sand and medium to fine sand. Not enough to collect a sample.
					52	156	
					61	156	
					40	156	
						157	
							Drill to 180 ft bgs (25 feet into lower [gravel] aquifer unit assuming gravel unit starts at 155 ft bgs). Set well to 180 ft bgs with 10 foot screen (10 slot).
							Well set to 179 ft bgs with 10 foot screen from 179-169 ft bgs. No. 1 SAND from 179-167 ft bgs (2 feet above top of screen), will grout tomorrow.
							Grouted on 10/22/02
							End of boring at 179 ft bgs.

Logged by: Tom Biolsi

Date: 10/15/02 - 10/21/02

Drilling Contractor: Aquifer Drilling and Testing

Driller: Shawn Miller

WELL SPECIFICATIONS:

Diam. of casing: 4-in. Screened Interval: 169-179 ft Sandpack: 167-179 ft Grout: 0-163 ft

BOH: 179 ft Riser Interval: 0-169 ft Choker Sand: 163-167 ft Cover: Flush mount





EA Engineering, Science,
and Technology, Inc.

LOG OF SOIL BORING

Coordinates: N 289547.73
E 1289242.525

Surface Elevation: 164.08

Inner Casing Elevation: 163.95

Reference Elevation: 164.16

Reference Description: Flush Mount

Job No. 13712.11	Client Agfa			Location Shoreham, NY	
Drilling Method: Hollow-Stem Auger using an F-10 rig with 3 1/2" ID augers first then ream out with 6 1/2" ID augers.				Boring No. MW-11S	
Sampling Method: Continuous split spoons approaching the water table. Used 24-in long, 2-in. diameter stainless steel split spoons driven with 140-lb hammer free-falling 30-in within the annulus of the augers.				Sheet 1 of 3	
Drilling					
Water Lev.	87.15 Perched	141 Actual		Start	Finish
Time	1310	945		1120	1045
Date	11/04/02	11/5/02		Date	Date
Reference	BGS	BGS		11/04/02	11/06/02

Sample Type	Inches Drvn/In. Recvrd	Depth Csg.	Samp. # /samp. depth	PID (ppm) (spoon)	Blows per 6 in.	Depth in Feet	USCS Log	Surface Conditions: Grass, in right of way along Mary Pitkin Path near the intersection of Walnut Drive.
Grab						0		See log book for details from 0-71 ft bgs.
								0-20' : Primarily fine to very fine SAND, with coarse (+) to fine gravel especially around 15 ft bgs.
								20-35' : Primarily brown very fine SAND, trace (+) fine gravel, little silt, slightly moist .
								35-65' : Primarily brown very fine SAND, trace (+) fine gravel, little silt, slightly moist .
								NOTE: Began collecting split spoon samples at 72 ft bgs because wet cuttings surfaced at 71 ft bgs.
SS	24/12	71	71-73'		4	72		72-73' : Banded brown and tan very fine SAND, some silt, moderately dense, slightly moist. Drill to 74 ft bgs, attempt another split spoon sample. Groundwater not encountered, slightly moist.
					6			
					15			
					20			
SS	24/12	74	74-76'		9	75		75-76' : Tanish-white very fine SAND, well sorted, little (-) silt, dry to slightly moist. Drill to 105 ft bgs.
					9			
					11			
					17			
SS	24/12	88	88-90'		3	88		
					3			
					6	89		89-90' : Brown very fine SAND, little (+) silt, wet.
					7			
SS	24/12	92	92-94'		4	92		
					6			
					7	93		93-93.5: Brown very fine SAND, some silt, wet.
					8			93.5-94' : Brown SILT, trace very fine sand, dense, very moist.
SS	24/24	97	97-99'		5	97		97-98' : Same as above (93.5-94), wet.
					4			98-99' : Tanish white medium to fine SAND, well sorted, moist.
					12	98		
					14			
SS	24/12	102	102-104		8	102		
					11			
					7	103		103-104' : Tanish white medium (+) to fine SAND, trace (-) fine gravel (rounded), slightly moist.
					12			
						104		

Logged by: Tom Biolsi

Date: 11/4/02 - 11/6/02

Drilling Contractor: Aquifer Drilling and Testing

Driller: Shawn Miller

WELL SPECIFICATIONS:

Diam. of casing: 4-in. Screened Interval: 152-172 ft Sandpack: 150-172 ft Grout: 0-145 ft
BOH: 172 ft. Riser Interval: 0-172 Choker Sand: 145-150 ft Cover: Flush Mount

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EA Engineering, Science,
and Technology, Inc.

LOG OF SOIL BORING

Coordinates: N 289547.73
E 1289242.525

Surface Elevation: 164.08

Inner Casing Elevation: 163.95

Reference Elevation: 164.16

Reference Description: Flush Mount

Job. No. 13712.11	Client Agfa			Location Shoreham, NY	
Drilling Method: Hollow-Stem Auger using an F-10 rig with 3 1/2" ID augers first then ream out with 6 1/2" ID augers.				Boring No. MW-11S	
Sampling Method: Continuous split spoons approaching the water table. Used 24-in long, 2-in. diameter stainless steel split spoons driven with 140-lb hammer free-falling 30-in within the annulus of the augers.				Sheet 2 of 3	
Drilling					
Water Lev.	87.15 Perched	141 Actual		Start	Finish
Time	1310	945		1120	1045
Date	11/04/02	11/5/02		Date	Date
Reference	BGS	BGS		11/04/02	11/05/02

Sample Type	Inches Drvn/In. Recvrd	Depth. Csg.	Samp. # /samp. depth	PID (ppm) (spoon)	Blows per 6 in.	Depth in Feet	USCS Log	Surface Conditions: Grass, in right of way along Mary Pitkin Path near intersection of Walnut Drive.
SS	24/18	107	107-109		35	107		
					21			
					37			
					26			
SS	24/18	112	112-114		23	112		112.5-114': Tanish white medium to very fine (+) SAND, slightly moist, well sorted.
					18			
					12			
					27			
SS	24/18	117	117-119		6	117		117.5-119': White fine to very fine SAND, well sorted, slightly moist.
					9			
					7			
					12			
SS	24/18	122	122-124		18	122		122.5-124': White fine to very fine Sand, well sorted, slightly moist.
					21			
					25			
					17			
SS	24/24	127	127-129		18	127		127-129': White fine to very fine SAND, well sorted, slightly moist.
					16			
					15			
					18			
SS	24/18	132	132-134		8	132		132.5-134': Same as above.
					12			
					16			
					19			
SS	24/12	137	137-139		28	137		138-139': Same as above.
					31			
					32			
					34			
						138		
						139		

Logged by: Tom Biolsi

Date: 11/4/02 - 11/6/02

Drilling Contractor: Aquifer Drilling and Testing

Driller: Shawn Miller

WELL SPECIFICATIONS:

Diam. of casing: 4-in. Screened Interval: 152-172 ft Sandpack: 150-172 ft Grout: 0-145 ft

BOH: 172 ft. Riser Interval: 0-172 Choker Sand: 145-150 ft Cover: Flush Mount

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EA Engineering, Science,
and Technology, Inc.

LOG OF SOIL BORING

Coordinates: N 289547.73
E 1289242.525

Surface Elevation: 164.08

Inner Casing Elevation: 163.95

Reference Elevation: 164.16

Reference Description: Flush Mount

Job No. 13712.11	Client Agfa	Location Shoreham, NY
Drilling Method: Hollow-Stem Auger using an F-10 rig with 3 1/2" ID augers first then ream out with 6 1/2" ID augers.		Boring No. MW-11S
Sampling Method: Continuous split spoons approaching the water table. Used 24-in long, 2-in. diameter stainless steel split spoons driven with 140-lb hammer free-falling 30-in within the annulus of the augers.		Sheet 3 of 3
Drilling		
Water Lev.	87.15 Perched	141 Actual
Time	1310	945
Date	11/04/02	11/05/02
Reference	BGS	BGS
		11/04/02
		11/05/02

Surface Conditions: Grass, in right of way along Mary Pitkin Path near intersection of Walnut Drive.

Sample Type	Inches Drvn/In. Recvrd	Depth. Csg.	Samp. # /samp. depth	PID (ppm) (spoon)	Blows per 6 in.	Depth in Feet	USCS Log
SS	24/18	142	142-144		12	142	
					12		
					10	143	
					9		
SS	24/24	147	147-149		6	147	
					5		
			MW-11S		12	148	
			148.5-149		9		
						149	

142.5-144': White-tan fine (+) to very fine SAND, well sorted, wet. Groundwater encountered at 141 ft bgs. Measured with WLI.

147-149': White-tan medium to fine (+) to very fine SAND, well sorted, wet. Collected Sample MW-11S from 148.5-149 ft bgs.

End of boring at 172 ft bgs.

Logged by: Tom Biolsi

Date: 11/4/02 - 11/6/02

Drilling Contractor: Aquifer Drilling and Testing

Driller: Shawn Miller

WELL SPECIFICATIONS:

Diam. of casing: 4-in. Screened Interval: 152-172 ft Sandpack: 150-172 ft Grout: 0-145 ft

BOH: 172 ft. Riser Interval: 0-172 Choker Sand: 145-150 ft Cover: Flush Mount

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EA Engineering, Science, and Technology, Inc.

LOG OF SOIL BORING

Coordinates: N 289551.07, E 1289249.678
Surface Elevation: 164.23
Inner Casing Elevation: 164.05
Reference Elevation: 164.26
Reference Description: Flush Mount

Table with Job No. 13712.11, Client Agfa, Location Shoreham, NY, Boring No. MW-11D, Sheet 1 of 1, and a drilling schedule table.

Main data table with columns for Sample Type, Inches Drvn/In. Recvrd, Depth Csg., Samp. # /samp. depth, PID (ppm) (spoon), Blows per 6 in., Depth in Feet, USCS Log, and Surface Conditions. Includes detailed notes on soil composition and drilling issues.

Logged by: Tom Biolsi

Date: 11/7/02 - 11/20/02

Drilling Contractor: Aquifer Drilling and Testing

Driller: Shawn Miller

WELL SPECIFICATIONS:

Diam. of casing: 4-in Screened Interval: 200-220 ft Sandpack: 198-220 ft Grout: 0-193 ft
BOH: 220 ft Riser Interval: 0-200 ft Choker Sand: 193-198 ft Cover: Flush Mount





EA Engineering, Science,
and Technology, Inc.

LOG OF SOIL BORING

Coordinates: N 286556.69
E 1288477.812
Surface Elevation: 138.92
Inner Casing Elevation: 140.59
Reference Elevation: N/A
Reference Description: N/A

Job. No. 13712.11	Client Agfa	Location Shoreham, NY
Drilling Method: Hollow-Stem Auger using an F-10 rig with 4 1/2" ID augers first then ream out with 6 1/2" ID augers.		Boring No. TW-1
Sampling Method: Continuous split spoons approaching the water table, then every 5 feet to collect 3 samples. Used 24-in long, 2-in. diameter stainless steel split spoons driven with 140-lb hammer free-falling 30-in within the annulus of the augers.		Sheet 1 of 1
Water Lev.	112'	Drilling
Time	830	Start
Date	10/23/02	Finish
Reference	BGS	Date
		10/22/02 10/24/02

Sample Type	Inches Drvn/In. Recvrd	Depth Csg.	Samp. # /samp. depth	PID (ppm) (spoon)	Blows per 6 in.	Depth in Feet	USCS Log	Surface Conditions: Asphalt, in front of white building adjacent to Tesla's original brick building.
Grab						0		0-105': Drilled to 105'. Approximation of stratigraphy based on cuttings and drilling habit.
								0-4': Dark and light brown fine SAND with organics.
								4-8': Tan/ Brown medium to fine SAND, and coarse to fine gravel, trace cobbles (rounded).
								8-15': Tan medium to fine SAND.
						30		15-30': Tan (with pinkish tint) medium (+) to fine SAND with intermittent coarse to fine gravel lenses, also possibly mixed throughout.
								30-80': Primarily brown medium to fine SAND with trace medium to fine gravel (rounded).
SS	24/12	105	105-107		14	105		
					11			
					9	106		106-107': Whitish fine SAND, slightly moist, well sorted. (recovery from bottom of 2' interval).
					7			
SS	24/12	110	110-112		8	110		
					12			
					16	111		111-112': Whitish fine SAND, well sorted, grading from slightly moist to moist. (recovery from bottom of 2' interval).
					9			
SS	24/18	112	112-114		8	112		
					12			112.5-114': Whitish-tan fine SAND, trace (-) small mica flakes, wet. Ground water encountered at 112 ft bgs. Collected sample TW-1A from 113-114 ft bgs.
			TW-1A 113-114		6	113		
					4			
						114		
SS	24/14	117	117-119		12	117		117.8-119': Whitish-tan medium (+) to fine SAND, trace fine gravel from 118.2-118.6 ft wet. Collect sample TW-1B from 118-119 ft bgs.
					17			
			TW-1B 118-119		20	118		
					25			
SS	24/18	125	125-127		13	125		125.5-127': Brown/white/orange fine GRAVEL, some (+) coarse to medium sand, wet. Collect sample TW-1C from 126-127 ft bgs.
					18			
			TW-1C 126-127		21	126		
					24			End of boring at 127 ft bgs.
						127		

Logged by: Tom Biolsi

Date: 10/22/02 - 10/24/02

Drilling Contractor: Aquifer Drilling and Testing

Driller: Shawn Miller

WELL SPECIFICATIONS:

Diam. of casing: 4-in Screened Interval: 117-127 ft Sandpack: 115-127 ft Grout: 3-110 ft
BOH: 127 ft Riser Interval: 0-117 ft Choker Sand: 110-115 ft Cover: No. 1 SAND with PVC stick-up





EA Engineering, Science,
and Technology, Inc.

LOG OF SOIL BORING

Coordinates: N 286525.09
E 1288633.677

Surface Elevation: 137.85

Inner Casing Elevation: 140.41

Reference Elevation: N/A

Reference Description: N/A

Job No. 13712.11	Client Agfa	Location Shoreham, NY
Drilling Method: Hollow-Stem Auger using an F-10 rig with 4 1/2" ID augers first then ream out with 6 1/2" ID augers.		Boring No. TW-2
Sampling Method: Continuous split spoons approaching the water table, then every 5 feet to collect 3 samples. Used 24-in long, 2-in. diameter stainless steel split spoons driven with 140-lb hammer free-falling 30-in within the annulus of the augers.		Sheet 1 of 1
Drilling		
Water Lev.	111.5	Start 845
Time	1105	Finish 1450
Date	10/29/02	Date 10/29/02
Reference	BGS	Date 10/30/02

Sample Type	Inches Drvn/In. Recvrd	Depth Csg.	Samp. # /samp. depth	PID (ppm) (spoon)	Blows per 6 in.	Depth in Feet	USCS Log
						0	Surface Conditions: Asphalt, next to flag pole in front of Tesla's original brick building.
						0	Drill to 110 ft bgs
						0	Approximation of stratigraphy based on cuttings and drilling habit.
						0-3'	Dark and light brown fine SAND with organics.
						20	3-20' : Tan/ Brown medium to fine SAND, trace fine gravel (rounded). Zone of higher gravel content (coarse to fine, rounded) from 3-7 ft bgs.
						20-65'	Primarily brown medium to fine SAND, trace medium to fine gravel.
SS	24/12	108	110-112		6	110	111-112' : Whitish medium (+) to fine SAND, well sorted, very moist to wet. Ground water encountered at approximately 111.5 ft bgs. Drill to 112' and collect another split spoon.
					4	111	
					8	111	
					11	111	
SS	24/12	112	112-114		18	112	
					9	112	
					16	113	(recovery from bottom of 2' interval)
					12	113	113-114' : Whitish medium (+) to fine SAND, well sorted, wet. Some fine gravel at top of spoon, possibly sluff from above. May be the culprit for higher blow counts at beginning of run. Collect sample TW-2A from 113.5-114 ft bgs.
SS	24/24	117	117-119		8	117	117-119' : Tan-whitish medium to fine SAND, grading to tanish fine SAND, well sorted.
					8	117	Trace fine gravel from 117.8-118.3', wet, moderately dense. Collect sample TW-2B from 118.5-119 ft bgs.
					17	118	
					12	118	
SS	24/24	124	124-126		13	124	124-124.8' : Tanish fine SAND, trace (-) fine gravel, wet.
					10	124	124.8-125.6' : Tanish coarse (+) to medium SAND and (+) medium to fine (+) gravel (rounded), wet. Collect sample TW-2C from 125-125.5 ft bgs.
					24	125	125.6-126' : Tanish coarse to medium SAND, little fine gravel, wet.
					13	125	
						126	
						126	End of boring at 127 ft bgs.
						15	
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						19	
						20	

Logged by: Tom Biolsi

Date: 10/29/02 - 10/30/02

Drilling Contractor: Aquifer Drilling and Testing

Driller: Shawn Miller

WELL SPECIFICATIONS:

Diam. of casing: 4-in Screened Interval: 117-127 ft Sandpack: 115-127 ft Grout: 3-110 ft

BOH: 127 ft Riser Interval: 0-117 ft Choker Sand: 110-115 ft Cover: No. 1 SAND with PVC stick-up





EA Engineering, Science,
and Technology, Inc.

LOG OF SOIL BORING

Coordinates: N 286504.28
E 1288751.652
Surface Elevation: 136.76
Inner Casing Elevation: 139.61
Reference Elevation: N/A
Reference Description: N/A

Job No. 13712.11	Client Agfa	Location Shoreham, NY	
Drilling Method: Hollow-Stem Auger using an F-10 rig with 4 1/2" ID augers first then ream out with 6 1/2" ID augers.		Boring No. TW-3	
Sampling Method: Continuous split spoons approaching the water table, then every 5 feet to collect 3 samples. Used 24-in long, 2-in. diameter stainless steel split spoons driven with 140-lb hammer free-falling 30-in within the annulus of the augers.		Sheet 1 of 1	
Water Lev. 110.5		Drilling	
Time 835		Start 1430	Finish 1000
Date 10/25/02		Date 10/24/02	Date 10/28/02
Reference BGS			

Sample Type	Inches Drvn/In. Recvrd	Depth Csg.	Samp. # /samp. depth	PID (ppm) (spoon)	Blows per 6 in.	Depth in Feet	USCS Log	Surface Conditions: Grass near Tesla Road in line with TW-1 and TW-2 locations, parallel to front of Tesla's old brick building.
Grab						0		Drill to 108 ft bgs. Approximation of stratigraphy based on cuttings and drilling habit. Very similar stratigraphy as TW-1. Increased abundance of coarse to fine gravel (rounded quartz) from 3-7 ftbgs. 7-50' : Primarily brown to brown with pink tint medium to fine SAND with traces of medium to fine gravel. There are several thin layers or lenses of gravel (rounded), encountered while drilling.
						50		50-98' : Primarily medium to fine SAND with traces of medium to fine gravel. Appears to be several thin zones of increased gravel content (based on drilling characteristics).
SS	24/12	108	108-110		42 61	108		
						109		109-110' : Brown medium to fine SAND, little medium to fine gravel, dense, dry.
SS	24/24	110	110-112		16 20	110		110-111' : Same as above, slightly moist to wet. Groundwater encountered at 110.5 ft bgs.
			TW-3A 111.5-112		12 19	111		111-111.5' : Brown medium SAND well sorted, wet. 111.5-112' : Brown SILT with mica flakes, wet. Collect sample TW-3A from 111.5 to 112 ft bgs. Very bottom of spoon was primarily medium to fine SAND.
						112		
SS	24/24	117	117-119		6 12	117		117-118' : Brown medium to fine (+) SAND, trace (+) fine gravel, dense, wet. 118-118.5' : Brown coarse to medium SAND, some (+) fine gravel, dense, wet.
			TW-3B 118-118.5		9 8	118		Collect sample TW-3B from 118-118.5 ft bgs. 118.5-119' : Brown medium to fine SAND, well sorted, wet.
						119		
SS	24/24	122	122-124		11 11	122		122-122.5' : Brown medium to fine SAND, well sorted, wet. 122.5-124' : Brown coarse (+) to medium SAND, some (+) medium to fine (+) gravel, well sorted, wet. Collect sample TW-3C from 123.5-124 ft bgs.
			TW-3C 123.5-124		14 16	123		
						124		End of boring at 126 ft bgs.

Logged by: Tom Biolsi

Date: 10/24/02 - 10/28/02

Drilling Contractor: Aquifer Drilling and Testing

Driller: Shawn Miller

WELL SPECIFICATIONS:

Diam. of casing: 4-in Screened Interval: 116-126 ft Sandpack: 114-126 ft Grout: 3-109 ft
BOH: 126 ft Riser Interval: 0-116 ft Choker Sand: 109-114 ft Cover: No. 1 SAND with PVC stick-up



Appendix D

Laboratory Soil Analytical Results



INTEGRATED ANALYTICAL LABORATORIES, LLC.

TOC

Client/Project: EA/AGFA - PEERLESS PHOTO - 1371211

Date Received: 10/28/02

Lab ID	Client ID	Result	Q	DF	Matrix-Units	MDL	% Solid	Date Analyzed
8457-001	TW-1A	ND		1	Soil-mg/Kg	285	79.1	10/30/2002
8457-002	TW-1B	ND		1	Soil-mg/Kg	180	84.6	10/30/2002
8457-003	TW-1C	276		1	Soil-mg/Kg	232	88.0	10/30/2002
8457-004	TW-3A	ND		1	Soil-mg/Kg	351	84.2	10/30/2002
8457-005	TW-3B	ND		1	Soil-mg/Kg	281	79.0	10/30/2002
8457-006	TW-3C	241		1	Soil-mg/Kg	120	91.8	10/30/2002



INTEGRATED ANALYTICAL LABORATORIES, LLC.

TOC

Client/Project: EA/AGFA - PEERLESS PHOTO - 1371211

Date Received: 11/05/02 17:10

Lab ID	Client ID	Result	Q	DF	Matrix-Units	MDL	% Solid	Date Analyzed
8678-001	TW-2A	ND		1	Soil-mg/Kg	385	85.2	11/15/2002
8678-002	TW-2B	ND		1	Soil-mg/Kg	297	81.0	11/15/2002
8678-003	TW-2C	433		1	Soil-mg/Kg	236	89.6	11/15/2002



INTEGRATED ANALYTICAL LABORATORIES, LLC.

TOC

Client/Project: EA/AGFA - PEERLESS PHOTO - 1371211

Date Received: 11/14/02 17:45

Lab ID	Client ID	Result	Q	DF	Matrix-Units	MDL	% Solid	Date Analyzed
9011-001	MW-11S	ND		1	Soil-mg/Kg	424	86.7	11/15/2002
9011-002	MW-11D	ND		1	Soil-mg/Kg	326	84.0	11/15/2002

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PRINCETON GEOTECHNICAL & MATERIALS SERVICES, LLC

Telephone 609-341-5860 • Fax 609-396-6952

Date: 10/7/02
Client: EA Engineering
Project: Agfa-Peerless Photo

Job No.: 1371211 **Project Manager:** Chris Kertish

SUMMARY OF LABORATORY TEST RESULTS

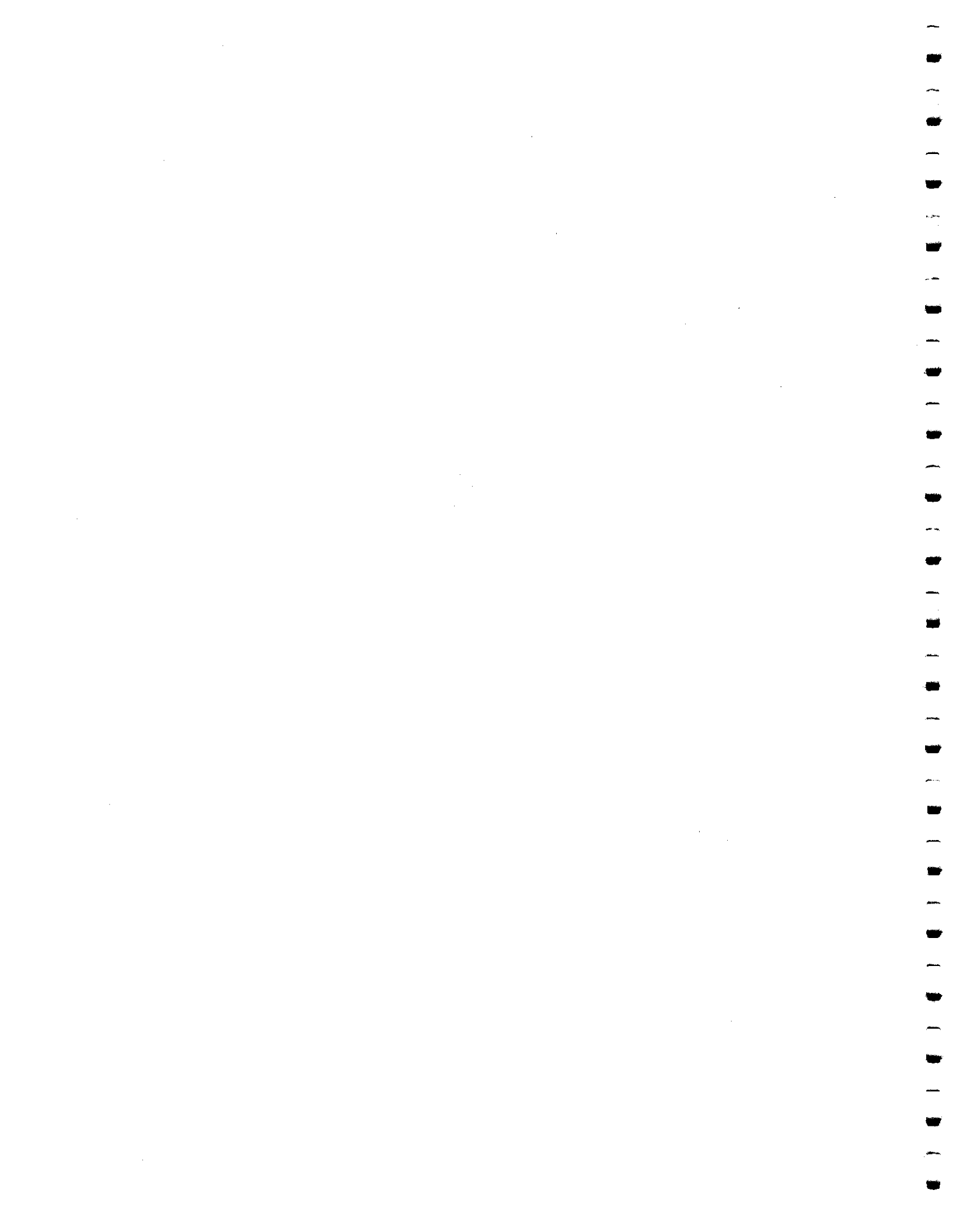
Sample ID	Sample Depth (ft)	Date Collected	Bulk Density (pcf)	Natural Moisture Content (%)	Voids Ratio (e)	Porosity (n)	Triaxial Test				Unconfined Compressive Strength (q psf)
							UU	CU	Cell Pressure (psf)	Back Pressure (psf)	
TW-1A	113-114	10/24/02	114.9	24.2	0.79	0.44					
TW-1B	118-119	10/24/02	117.5	17.8	0.66	0.40					
TW-1C	126-127	10/24/02	128.4	10.4	0.42	0.30					
TW-2A	113.5-114	10/29/02	111.5	18.6	0.76	0.43					
TW-2B	118.5-119	10/29/02	116.0	23.1	0.76	0.43					
TW-2C	125-125.5	10/29/02	127.5	10.9	0.44	0.30					
TW-3A	111.5-112	10/25/02	96.9	27.7	1.17	0.54					
TW-3B	118-118.5	10/25/02	117.4	12.6	0.59	0.37					
TW-3C	123.5-124	10/25/02	129.3	11.3	0.42	0.30					
MW-11S	148.5-149	11/5/02	114.6	19.5	0.73	0.42					
MW-11D	200-204	11/11/02	134.5	16.4	0.43	0.30					

* Specific Gravity was assumed to be equal to 2.65

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Appendix E

Laboratory Ground-Water Analytical Results



INTEGRATED ANALYTICAL LABORATORIES, LLC.

METALS

Client/Project: EA/AGFA PEERLESS PHOTO

Lab ID: 0657-001

Client ID: MW-8S LOW

Date Received: 1/29/02

Matrix-Units: Aqueous mg/L (ppm)

% Moisture: 100

Batch #: 26

Compound	Result	Q	DF	MDL	Date Analyzed	Method
Cadmium	ND		1	0.001	01/30/02	200.8
Chromium	0.0086		1	0.008	01/30/02	200.8
Lead	0.0037		1	0.002	01/30/02	200.8
Mercury	ND		1	0.0005	01/30/02	245.1
Silver	ND		1	0.002	01/30/02	200.8

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INTEGRATED ANALYTICAL LABORATORIES, LLC.

METALS

Client/Project: EA/AGFA PEERLESS PHOTO

Lab ID: 0657-002

Client ID: MW-8S

Date Received: 1/29/02

Matrix-Units: Aqueous mg/L (ppm)

% Moisture: 100

Batch #: 26

Compound	Result	Q	DF	MDL	Date Analyzed	Method
Cadmium	ND		1	0.001	01/30/02	200.8
Chromium	ND		1	0.008	01/30/02	200.8
Lead	ND		1	0.002	01/30/02	200.8
Mercury	ND		1	0.0005	01/30/02	245.1
Silver	ND		1	0.002	01/30/02	200.8

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INTEGRATED ANALYTICAL LABORATORIES, LLC.

METALS

Client/Project: EA/AGFA PEERLESS PHOTO

Lab ID: 0657-003

Client ID: MW-4 LOW

Date Received: 1/29/02

Matrix-Units: Aqueous mg/L (ppm)

% Moisture: 100

Batch #: 26

Compound	Result	Q	DF	MDL	Date Analyzed	Method
Cadmium	0.0026		1	0.001	01/30/02	200.8
Chromium	0.020		1	0.008	01/30/02	200.8
Lead	0.0043		1	0.002	01/30/02	200.8
Mercury	ND		1	0.0005	01/30/02	245.1
Silver	ND		1	0.002	01/30/02	200.8



INTEGRATED ANALYTICAL LABORATORIES, LLC.

METALS

Client/Project: EA/AGFA PEERLESS PHOTO

Lab ID: 0657-004

Client ID: MW-4 LOW FILT

Date Received: 1/29/02

Matrix-Units: Aqueous mg/L (ppm)

% Moisture: 100

Batch #: 26

Compound	Result	Q	DF	MDL	Date Analyzed	Method
Cadmium	0.0021		1	0.001	01/30/02	200.8
Chromium	0.013		1	0.008	01/30/02	200.8
Lead	ND		1	0.002	01/30/02	200.8
Mercury	ND		1	0.0005	01/30/02	245.1
Silver	ND		1	0.002	01/30/02	200.8

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INTEGRATED ANALYTICAL LABORATORIES, LLC.

METALS

Client/Project: EA/AGFA PEERLESS PHOTO

Lab ID: 0657-005

Client ID: MW-4

Date Received: 1/29/02

Matrix-Units: Aqueous mg/L (ppm)

% Moisture: 100

Batch #: 26

Compound	Result	Q	DF	MDL	Date Analyzed	Method
Cadmium	0.003		1	0.001	01/30/02	200.8
Chromium	ND		1	0.008	01/30/02	200.8
Lead	ND		1	0.002	01/30/02	200.8
Mercury	ND		1	0.0005	01/30/02	245.1
Silver	ND		1	0.002	01/30/02	200.8



INTEGRATED ANALYTICAL LABORATORIES, LLC.

METALS

Client/Project: EA/AGFA PEERLESS PHOTO

Lab ID: 0657-006

Client ID: MW-4 FILT

Date Received: 1/29/02

Matrix-Units: Aqueous mg/L (ppm)

% Moisture: 100

Batch #: 26

Compound	Result	Q	DF	MDL	Date Analyzed	Method
Cadmium	0.0028		1	0.001	01/30/02	200.8
Chromium	ND		1	0.008	01/30/02	200.8
Lead	ND		1	0.002	01/30/02	200.8
Mercury	ND		1	0.0005	01/30/02	245.1
Silver	ND		1	0.002	01/30/02	200.8



INTEGRATED ANALYTICAL LABORATORIES, LLC.

METALS

Client/Project: EA/AGFA PEERLESS PHOTO

Lab ID: 0657-007

Client ID: MW-2A LOW

Date Received: 1/29/02

Matrix-Units: Aqueous mg/L (ppm)

% Moisture: 100

Batch #: 26

Compound	Result	Q	DF	MDL	Date Analyzed	Method
Cadmium	0.0079		1	0.001	01/30/02	200.8
Chromium	ND		1	0.008	01/30/02	200.8
Lead	0.0067		1	0.002	01/30/02	200.8
Mercury	ND		1	0.0005	01/30/02	245.1
Silver	ND		1	0.002	01/30/02	200.8



INTEGRATED ANALYTICAL LABORATORIES, LLC.

METALS

Client/Project: EA/AGFA PEERLESS PHOTO

Lab ID: 0657-008

Client ID: MW-2A

Date Received: 1/29/02

Matrix-Units: Aqueous mg/L (ppm)

% Moisture: 100

Batch #: 26

Compound	Result	Q	DF	MDL	Date Analyzed	Method
Cadmium	ND		1	0.001	01/30/02	200.8
Chromium	ND		1	0.008	01/30/02	200.8
Lead	ND		1	0.002	01/30/02	200.8
Mercury	ND		1	0.0005	01/30/02	245.1
Silver	ND		1	0.002	01/30/02	200.8



INTEGRATED ANALYTICAL LABORATORIES, LLC.

METALS

Client/Project: EA/AGFA PEERLESS PHOTO

Lab ID: 0657-009

Client ID: MW-9 LOW

Date Received: 1/29/02

Matrix-Units: Aqueous mg/L (ppm)

% Moisture: 100

Batch #: 26

Compound	Result	Q	DF	MDL	Date Analyzed	Method
Cadmium	0.011		1	0.001	01/30/02	200.8
Chromium	ND		1	0.008	01/30/02	200.8
Lead	ND		1	0.002	01/30/02	200.8
Mercury	ND		1	0.0005	01/30/02	245.1
Silver	ND		1	0.002	01/30/02	200.8



INTEGRATED ANALYTICAL LABORATORIES, LLC.

METALS

Client/Project: EA/AGFA PEERLESS PHOTO

Lab ID: 0657-010

Client ID: MW-9

Date Received: 1/29/02

Matrix-Units: Aqueous mg/L (ppm)

% Moisture: 100

Batch #: 26

Compound	Result	Q	DF	MDL	Date Analyzed	Method
Cadmium	0.011		1	0.001	01/30/02	200.8
Chromium	ND		1	0.008	01/30/02	200.8
Lead	ND		1	0.002	01/30/02	200.8
Mercury	ND		1	0.0005	01/30/02	245.1
Silver	ND		1	0.002	01/30/02	200.8



INTEGRATED ANALYTICAL LABORATORIES, LLC.

METALS

Client/Project: EA/AGFA PEERLESS PHOTO

Lab ID: 0657-011

Client ID: FB-1

Date Received: 1/29/02

Matrix-Units: Aqueous mg/L (ppm)

% Moisture: 100

Batch #: 26

Compound	Result	Q	DF	MDL	Date Analyzed	Method
Cadmium	ND		1	0.001	01/30/02	200.8
Chromium	ND		1	0.008	01/30/02	200.8
Lead	ND		1	0.002	01/30/02	200.8
Mercury	ND		1	0.0005	01/30/02	245.1
Silver	ND		1	0.002	01/30/02	200.8



INTEGRATED ANALYTICAL LABORATORIES, LLC.

METALS

Client/Project: EA/AGFA PEERLESS PHOTO

Lab ID: 0657-012

Client ID: MW-7S LOW

Date Received: 1/29/02

Matrix-Units: Aqueous mg/L (ppm)

% Moisture: 100

Batch #: 26

Compound	Result	Q	DF	MDL	Date Analyzed	Method
Cadmium	0.030		1	0.001	01/30/02	200.8
Chromium	0.015		1	0.008	01/30/02	200.8
Lead	0.0021		1	0.002	01/30/02	200.8
Mercury	ND		1	0.0005	01/30/02	245.1
Silver	ND		1	0.002	01/30/02	200.8



INTEGRATED ANALYTICAL LABORATORIES, LLC.

METALS

Client/Project: EA/AGFA PEERLESS PHOTO

Lab ID: 0657-013

Client ID: MW-7S

Date Received: 1/29/02

Matrix-Units: Aqueous mg/L (ppm)

% Moisture: 100

Batch #: 26

Compound	Result	Q	DF	MDL	Date Analyzed	Method
Cadmium	0.009		1	0.001	01/30/02	200.8
Chromium	ND		1	0.008	01/30/02	200.8
Lead	ND		1	0.002	01/30/02	200.8
Mercury	ND		1	0.0005	01/30/02	245.1
Silver	ND		1	0.002	01/30/02	200.8



INTEGRATED ANALYTICAL LABORATORIES, LLC.

METALS

Client/Project: EA/AGFA PEERLESS PHOTO

Lab ID: 0657-014

Client ID: MW-1 LOW

Date Received: 1/29/02

Matrix-Units: Aqueous mg/L (ppm)

% Moisture: 100

Batch #: 26

Compound	Result	Q	DF	MDL	Date Analyzed	Method
Cadmium	ND		1	0.001	01/30/02	200.8
Chromium	ND		1	0.008	01/30/02	200.8
Lead	ND		1	0.002	01/30/02	200.8
Mercury	ND		1	0.0005	01/30/02	245.1
Silver	ND		1	0.002	01/30/02	200.8



INTEGRATED ANALYTICAL LABORATORIES, LLC.

METALS

Client/Project: EA/AGFA PEERLESS PHOTO

Lab ID: 0657-015

Client ID: MW-1

Date Received: 1/29/02

Matrix-Units: Aqueous mg/L (ppm)

% Moisture: 100

Batch #: 26

Compound	Result	Q	DF	MDL	Date Analyzed	Method
Cadmium	ND		1	0.001	01/30/02	200.8
Chromium	ND		1	0.008	01/30/02	200.8
Lead	ND		1	0.002	01/30/02	200.8
Mercury	ND		1	0.0005	01/30/02	245.1
Silver	ND		1	0.002	01/30/02	200.8



INTEGRATED ANALYTICAL LABORATORIES, LLC.

METALS

Client/Project: EA/AGFA PEERLESS PHOTO

Lab ID: 0657-016

Client ID: MW-10 LOW

Date Received: 1/29/02

Matrix-Units: Aqueous mg/L (ppm)

% Moisture: 100

Batch #: 26

Compound	Result	Q	DF	MDL	Date Analyzed	Method
Cadmium	0.057		1	0.001	01/30/02	200.8
Chromium	ND		1	0.008	01/30/02	200.8
Lead	ND		1	0.002	01/30/02	200.8
Mercury	ND		1	0.0005	01/30/02	245.1
Silver	ND		1	0.002	01/30/02	200.8



INTEGRATED ANALYTICAL LABORATORIES, LLC.

METALS

Client/Project: EA/AGFA PEERLESS PHOTO

Lab ID: 0657-017

Client ID: MW-10

Date Received: 1/29/02

Matrix-Units: Aqueous mg/L (ppm)

% Moisture: 100

Batch #: 26

Compound	Result	Q	DF	MDL	Date Analyzed	Method
Cadmium	0.043		1	0.001	01/30/02	200.8
Chromium	ND		1	0.008	01/30/02	200.8
Lead	ND		1	0.002	01/30/02	200.8
Mercury	ND		1	0.0005	01/30/02	245.1
Silver	ND		1	0.002	01/30/02	200.8



INTEGRATED ANALYTICAL LABORATORIES, LLC.

METALS

Client/Project: EA/AGFA PEERLESS PHOTO

Lab ID: 0657-018

Client ID: MW-2 LOW

Date Received: 1/29/02

Matrix-Units: Aqueous mg/L (ppm)

% Moisture: 100

Batch #: 26

Compound	Result	Q	DF	MDL	Date Analyzed	Method
Cadmium	0.080		1	0.001	01/30/02	200.8
Chromium	ND		1	0.008	01/30/02	200.8
Lead	ND		1	0.002	01/30/02	200.8
Mercury	ND		1	0.0005	01/30/02	245.1
Silver	ND		1	0.002	01/30/02	200.8



INTEGRATED ANALYTICAL LABORATORIES, LLC.

METALS

Client/Project: EA/AGFA PEERLESS PHOTO

Lab ID: 0657-019

Client ID: MW-2

Date Received: 1/29/02

Matrix-Units: Aqueous mg/L (ppm)

% Moisture: 100

Batch #: 26

Compound	Result	Q	DF	MDL	Date Analyzed	Method
Cadmium	0.076		1	0.001	01/30/02	200.8
Chromium	ND		1	0.008	01/30/02	200.8
Lead	ND		1	0.002	01/30/02	200.8
Mercury	ND		1	0.0005	01/30/02	245.1
Silver	ND		1	0.002	01/30/02	200.8



INTEGRATED ANALYTICAL LABORATORIES, LLC.

METALS

Client/Project: EA/AGFA PEERLESS PHOTO

Lab ID: 0657-020

Client ID: MW-3

Date Received: 1/29/02

Matrix-Units: Aqueous mg/L (ppm)

% Moisture: 100

Batch #: 26

Compound	Result	Q	DF	MDL	Date Analyzed	Method
Cadmium	0.011		1	0.001	01/30/02	200.8
Chromium	ND		1	0.008	01/30/02	200.8
Lead	ND		1	0.002	01/30/02	200.8
Mercury	ND		1	0.0005	01/30/02	245.1
Silver	ND		1	0.002	01/30/02	200.8

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INTEGRATED ANALYTICAL LABORATORIES, LLC.

METALS

Client/Project: EA/AGFA PEERLESS PHOTO

Lab ID: 0657-021

Client ID: MW-3 LOW

Date Received: 1/29/02

Matrix-Units: Aqueous mg/L (ppm)

% Moisture: 100

Batch #: 26

Compound	Result	Q	DF	MDL	Date Analyzed	Method
Cadmium	0.011		1	0.001	01/30/02	200.8
Chromium	ND		1	0.008	01/30/02	200.8
Lead	0.0081		1	0.002	01/30/02	200.8
Mercury	ND		1	0.0005	01/30/02	245.1
Silver	ND		1	0.002	01/30/02	200.8

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INTEGRATED ANALYTICAL LABORATORIES, LLC.

METALS

Client/Project: EA/AGFA PEERLESS PHOTO

Lab ID: 0657-022

Client ID: DR. PARDOS WELL

Date Received: 1/29/02

Matrix-Units: Aqueous mg/L (ppm)

% Moisture: 100

Batch #: 26

Compound	Result	Q	DF	MDL	Date Analyzed	Method
Cadmium	ND		1	0.001	01/30/02	200.8
Chromium	ND		1	0.008	01/30/02	200.8
Lead	ND		1	0.002	01/30/02	200.8
Mercury	ND		1	0.0005	01/30/02	245.1
Silver	ND		1	0.002	01/30/02	200.8



INTEGRATED ANALYTICAL LABORATORIES, LLC.

METALS

Client/Project: EA/AGFA PEERLESS PHOTO

Lab ID: 0747-001

Client ID: MW-7D FILT

Date Received: 1/31/02

Matrix-Units: Aqueous mg/L (ppm)

% Moisture: 100

Batch #: 31

Compound	Result	Q	DF	MDL	Date Analyzed	Method
Cadmium	0.0014		1	0.001	02/05/02	200.8
Chromium	0.0088		1	0.008	02/05/02	200.8
Lead	ND		1	0.002	02/05/02	200.8
Mercury	ND		1	0.0005	02/04/02	245.1
Silver	ND		1	0.002	02/05/02	200.8



INTEGRATED ANALYTICAL LABORATORIES, LLC.

METALS

Client/Project: EA/AGFA PEERLESS PHOTO

Lab ID: 0747-002

Client ID: TEST

Date Received: 1/31/02

Matrix-Units: Aqueous mg/L (ppm)

% Moisture: 100

Batch #: 31

Compound	Result	Q	DF	MDL	Date Analyzed	Method
Cadmium	0.011		1	0.001	02/05/02	200.8
Chromium	ND		1	0.008	02/05/02	200.8
Lead	0.0036		1	0.002	02/05/02	200.8
Mercury	ND		1	0.0005	02/04/02	245.1
Silver	ND		1	0.002	02/05/02	200.8



INTEGRATED ANALYTICAL LABORATORIES, LLC.

METALS

Client/Project: EA/AGFA PEERLESS PHOTO

Lab ID: 0747-003

Client ID: MW-7D

Date Received: 1/31/02

Matrix-Units: Aqueous mg/L (ppm)

% Moisture: 100

Batch #: 31

Compound	Result	Q	DF	MDL	Date Analyzed	Method
Cadmium	0.0012		1	0.001	02/05/02	200.8
Chromium	ND		1	0.008	02/05/02	200.8
Lead	ND		1	0.002	02/05/02	200.8
Mercury	ND		1	0.0005	02/04/02	245.1
Silver	ND		1	0.002	02/05/02	200.8



INTEGRATED ANALYTICAL LABORATORIES, LLC.

METALS

Client/Project: EA/AGFA PEERLESS PHOTO

Lab ID: 0747-004

Client ID: DUP

Date Received: 1/31/02

Matrix-Units: Aqueous mg/L (ppm)

% Moisture: 100

Batch #: 31

Compound	Result	Q	DF	MDL	Date Analyzed	Method
Cadmium	0.0013		1	0.001	02/05/02	200.8
Chromium	ND		1	0.008	02/05/02	200.8
Lead	ND		1	0.002	02/05/02	200.8
Mercury	ND		1	0.0005	02/04/02	245.1
Silver	ND		1	0.002	02/05/02	200.8



INTEGRATED ANALYTICAL LABORATORIES, LLC.

METALS

Client/Project: EA/AGFA PEERLESS PHOTO

Lab ID: 0747-006

Client ID: FB-2

Date Received: 1/31/02

Matrix-Units: Aqueous mg/L (ppm)

% Moisture: 100

Batch #: 31

Compound	Result	Q	DF	MDL	Date Analyzed	Method
Cadmium	ND		1	0.001	02/05/02	200.8
Chromium	0.012		1	0.008	02/05/02	200.8
Lead	ND		1	0.002	02/05/02	200.8
Mercury	ND		1	0.0005	02/04/02	245.1
Silver	ND		1	0.002	02/05/02	200.8



INTEGRATED ANALYTICAL LABORATORIES, LLC.

METALS

Client/Project: EA/AGFA PEERLESS PHOTO

Lab ID: 0747-007

Client ID: MW-6

Date Received: 1/31/02

Matrix-Units: Aqueous mg/L (ppm)

% Moisture: 100

Batch #: 31

Compound	Result	Q	DF	MDL	Date Analyzed	Method
Cadmium	0.021		1	0.001	02/05/02	200.8
Chromium	ND		1	0.008	02/05/02	200.8
Lead	ND		1	0.002	02/05/02	200.8
Mercury	ND		1	0.0005	02/04/02	245.1
Silver	ND		1	0.002	02/05/02	200.8



INTEGRATED ANALYTICAL LABORATORIES, LLC.

METALS

Client/Project: EA/AGFA PEERLESS PHOTO

Lab ID: 0747-008

Client ID: MW-6 FILT

Date Received: 1/31/02

Matrix-Units: Aqueous mg/L (ppm)

% Moisture: 100

Batch #: 31

Compound	Result	Q	DF	MDL	Date Analyzed	Method
Cadmium	0.022		1	0.001	02/05/02	200.8
Chromium	ND		1	0.008	02/05/02	200.8
Lead	ND		1	0.002	02/05/02	200.8
Mercury	ND		1	0.0005	02/04/02	245.1
Silver	ND		1	0.002	02/05/02	200.8



INTEGRATED ANALYTICAL LABORATORIES, LLC.

METALS

Client/Project: EA/AGFA PEERLESS PHOTO

Lab ID: 0747-009

Client ID: MW-6 LOW FILT

Date Received: 1/31/02

Matrix-Units: Aqueous mg/L (ppm)

% Moisture: 100

Batch #: 31

Compound	Result	Q	DF	MDL	Date Analyzed	Method
Cadmium	0.039		1	0.001	02/05/02	200.8
Chromium	ND		1	0.008	02/05/02	200.8
Lead	ND		1	0.002	02/05/02	200.8
Mercury	ND		1	0.0005	02/04/02	245.1
Silver	ND		1	0.002	02/05/02	200.8







INTEGRATED ANALYTICAL LABORATORIES, LLC.

METALS

Client/Project: EA/AGFA PEERLESS PHOTO - 1371211

Lab ID: 9712-002

Client ID: TW-2

Date Received: 12/09/02 18:30

Matrix-Units: Aqueous µg/L (ppb)

% Moisture: 100

Batch #: 339

Compound	Result	Q	DF	MDL	Date Analyzed	Method
Cadmium	24.1		1	1.00	12/12/02	200.8
Chromium	12.0		1	8.00	12/12/02	200.8
Lead	ND		1	2.00	12/12/02	200.8
Mercury	ND		1	0.500	12/12/02	245.1
Silver	ND		1	2.00	12/12/02	200.8

541
12/20/02



INTEGRATED ANALYTICAL LABORATORIES, LLC.

METALS

Client/Project: EA/AGFA PEERLESS PHOTO - 1371211

Lab ID: 9712-003

Client ID: TW-3

Date Received: 12/09/02 18:30

Matrix-Units: Aqueous µg/L (ppb)

% Moisture: 100

Batch #: 339

<u>Compound</u>	<u>Result</u>	<u>Q</u>	<u>DF</u>	<u>MDL</u>	<u>Date Analyzed</u>	<u>Method</u>
Cadmium	ND		1	1.00	12/12/02	200.8
Chromium	11.7		1	8.00	12/12/02	200.8
Lead	ND		1	2.00	12/12/02	200.8
Mercury	ND		1	0.500	12/12/02	245.1
Silver	ND		1	2.00	12/12/02	200.8

511
12/12/02



INTEGRATED ANALYTICAL LABORATORIES, LLC.

METALS

Client/Project: EA/AGFA PEERLESS PHOTO - 1371211

Lab ID: 9712-005

Client ID: MW-7S

Date Received: 12/09/02 18:30

Matrix-Units: Aqueous µg/L (ppb)

% Moisture: 100

Batch #: 339

Compound	Result	Q	DF	MDL	Date Analyzed	Method
Cadmium	2.92		1	1.00	12/12/02	200.8
Chromium	18.4		1	8.00	12/12/02	200.8
Lead	ND		1	2.00	12/12/02	200.8
Mercury	ND		1	0.500	12/12/02	245.1
Silver	ND		1	2.00	12/12/02	200.8

EA
12/12/02



INTEGRATED ANALYTICAL LABORATORIES, LLC.

METALS

Client/Project: EA/AGFA PEERLESS PHOTO - 1371211

Lab ID: 9712-004

Client ID: MW-7D

Date Received: 12/09/02 18:30

Matrix-Units: Aqueous µg/L (ppb)

% Moisture: 100

Batch #: 339

Compound	Result	Q	DF	MDL	Date Analyzed	Method
Cadmium	ND		1	1.00	12/12/02	200.8
Chromium	20.3		1	8.00	12/12/02	200.8
Lead	ND		1	2.00	12/12/02	200.8
Mercury	ND		1	0.500	12/12/02	245.1
Silver	ND		1	2.00	12/12/02	200.8

12/12/02



INTEGRATED ANALYTICAL LABORATORIES, LLC.

METALS

Client/Project: EA/AGFA PEERLESS PHOTO - 1371211

Lab ID: 9712-006

Client ID: DUP-1

Date Received: 12/09/02 18:30

Matrix-Units: Aqueous µg/L (ppb)

% Moisture: 100

Batch #: 339

Compound	Result	Q	DF	MDL	Date Analyzed	Method
Cadmium	2.56		1	1.00	12/12/02	200.8
Chromium	19.2		1	8.00	12/12/02	200.8
Lead	ND		1	2.00	12/12/02	200.8
Mercury	ND		1	0.500	12/12/02	245.1
Silver	ND		1	2.00	12/12/02	200.8

5/31/03



INTEGRATED ANALYTICAL LABORATORIES, LLC.

METALS

Client/Project: EA/AGFA PEERLESS PHOTO - 1371211

Lab ID: 9712-007

Client ID: MW-11D

Date Received: 12/09/02 18:30

Matrix-Units: Aqueous $\mu\text{g/L}$ (ppb)

% Moisture: 100

Batch #: 339

Compound	Result	Q	DF	MDL	Date Analyzed	Method
Cadmium	ND		1	1.00	12/12/02	200.8
Chromium	10.7		1	8.00	12/12/02	200.8
Lead	ND		1	2.00	12/12/02	200.8
Mercury	ND		1	0.500	12/12/02	245.1
Silver	ND		1	2.00	12/12/02	200.8

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INTEGRATED ANALYTICAL LABORATORIES, LLC.

METALS

Client/Project: EA/AGFA PEERLESS PHOTO - 1371211

Lab ID: 9712-008

Client ID: MW-11S

Date Received: 12/09/02 18:30

Matrix-Units: Aqueous µg/L (ppb)

% Moisture: 100

Batch #: 339

Compound	Result	Q	DF	MDL	Date Analyzed	Method
Cadmium	ND		1	1.00	12/12/02	200.8
Chromium	13.4		1	8.00	12/12/02	200.8
Lead	ND		1	2.00	12/12/02	200.8
Mercury	ND		1	0.500	12/12/02	245.1
Silver	ND		1	2.00	12/12/02	200.8

418
1/2/03



INTEGRATED ANALYTICAL LABORATORIES, LLC.

METALS

Client/Project: EA/AGFA PEERLESS PHOTO - 1371211

Lab ID: 9712-009

Client ID: MW-10D

Date Received: 12/09/02 18:30

Matrix-Units: Aqueous µg/L (ppb)

% Moisture: 100

Batch #: 339

Compound	Result	Q	DF	MDL	Date Analyzed	Method
Cadmium	ND		1	1.00	12/12/02	200.8
Chromium	8.14		1	8.00	12/12/02	200.8
Lead	ND		1	2.00	12/12/02	200.8
Mercury	ND		1	0.500	12/12/02	245.1
Silver	ND		1	2.00	12/12/02	200.8

6/13/03



INTEGRATED ANALYTICAL LABORATORIES, LLC.

METALS

Client/Project: EA/AGFA PEERLESS PHOTO - 1371211

Lab ID: 9712-010

Client ID: MW-10

Date Received: 12/09/02 18:30

Matrix-Units: Aqueous µg/L (ppb)

% Moisture: 100

Batch #: 339

Compound	Result	Q	DF	MDL	Date Analyzed	Method
Cadmium	51.9		1	1.00	12/12/02	200.8
Chromium	16.0		1	8.00	12/12/02	200.8
Lead	ND		1	2.00	12/12/02	200.8
Mercury	ND		1	0.500	12/12/02	245.1
Silver	ND		1	2.00	12/12/02	200.8



INTEGRATED ANALYTICAL LABORATORIES, LLC.

METALS

Client/Project: EA/AGFA PEERLESS PHOTO - 1371211

Lab ID: 9398-001

Client ID: MW-8S

Date Received: 11/26/02 19:40

Matrix-Units: Aqueous µg/L (ppb)

% Moisture: 100

Batch #: 326

Compound	Result	Q	DF	MDL	Date Analyzed	Method
Cadmium	ND		1	1.00	12/02/02 16:16	200.8
Chromium	11.1		1	8.00	12/02/02 16:16	200.8
Lead	ND		1	2.00	12/02/02 16:16	200.8
Mercury	ND		1	0.500	12/03/02 13:17	245.1
Silver	ND		1	2.00	12/02/02 16:16	200.8

5/10
1/28/05



INTEGRATED ANALYTICAL LABORATORIES, LLC.

METALS

Client/Project: EA/AGFA PEERLESS PHOTO - 1371211

Lab ID: 9398-002

Client ID: MW-9

Date Received: 11/26/02 19:40

Matrix-Units: Aqueous $\mu\text{g/L}$ (ppb)

% Moisture: 100

Batch #: 326

Compound	Result	Q	DF	MDL	Date Analyzed	Method
Cadmium	10.0		1	1.00	12/02/02 16:16	200.8
Chromium	17.5		1	8.00	12/02/02 16:16	200.8
Lead	ND		1	2.00	12/02/02 16:16	200.8
Mercury	ND		1	0.500	12/03/02 13:17	245.1
Silver	ND		1	2.00	12/02/02 16:16	200.8

5/11/03



INTEGRATED ANALYTICAL LABORATORIES, LLC.

METALS

Client/Project: EA/AGFA PEERLESS PHOTO - 1371211

Lab ID: 9398-003

Client ID: MW-6

Date Received: 11/26/02 19:40

Matrix-Units: Aqueous µg/L (ppb)

% Moisture: 100

Batch #: 326

Compound	Result	Q	DF	MDL	Date Analyzed	Method
Cadmium	7.67		1	1.00	12/02/02 16:16	200.8
Chromium	10.4		1	8.00	12/02/02 16:16	200.8
Lead	ND		1	2.00	12/02/02 16:16	200.8
Mercury	ND		1	0.500	12/03/02 13:17	245.1
Silver	ND		1	2.00	12/02/02 16:16	200.8

390
11/26/02



INTEGRATED ANALYTICAL LABORATORIES, LLC.

METALS

Client/Project: EA/AGFA PEERLESS PHOTO - 1371211

Lab ID: 9398-004

Client ID: MW-1

Date Received: 11/26/02 19:40

Matrix-Units: Aqueous µg/L (ppb)

% Moisture: 100

Batch #: 326

Compound	Result	Q	DF	MDL	Date Analyzed	Method
Cadmium	ND		1	1.00	12/02/02 16:16	200.8
Chromium	8.83		1	8.00	12/02/02 16:16	200.8
Lead	ND		1	2.00	12/02/02 16:16	200.8
Mercury	ND		1	0.500	12/03/02 13:17	245.1
Silver	ND		1	2.00	12/02/02 16:16	200.8

5/4/03
1/20/03



INTEGRATED ANALYTICAL LABORATORIES, LLC.

METALS

Client/Project: EA/AGFA PEERLESS PHOTO - 871211

Lab ID: 9310-001

Client ID: FB-1

Date Received: 11/22/02 19:20

Matrix-Units: Aqueous µg/L (ppb)

% Moisture: 100

Batch #: 326

Compound	Result	Q	DF	MDL	Date Analyzed	Method
Cadmium	ND		1	1.00	12/02/02 16:16	200.8
Chromium	ND		1	8.00	12/02/02 16:16	200.8
Lead	ND		1	2.00	12/02/02 16:16	200.8
Mercury	ND		1	0.500	12/03/02 13:17	245.1
Silver	ND		1	2.00	12/02/02 16:16	200.8

Handwritten initials and date: 11/23



INTEGRATED ANALYTICAL LABORATORIES, LLC.

METALS

Client/Project: EA/AGFA PEERLESS PHOTO - 871211

Lab ID: 9310-002

Client ID: MW-2

Date Received: 11/22/02 19:20

Matrix-Units: Aqueous µg/L (ppb)

% Moisture: 100

Batch #: 326

Compound	Result	Q	DF	MDL	Date Analyzed	Method
Cadmium	79.8		1	1.00	12/02/02 16:16	200.8
Chromium	72.3		1	8.00	12/02/02 16:16	200.8
Lead	ND		1	2.00	12/02/02 16:16	200.8
Mercury	ND		1	0.500	12/03/02 13:17	245.1
Silver	ND		1	2.00	12/02/02 16:16	200.8

241
11/2/02



INTEGRATED ANALYTICAL LABORATORIES, LLC.

METALS

Client/Project: EA/AGFA PEERLESS PHOTO - 871211

Lab ID: 9310-003

Client ID: MW-3

Date Received: 11/22/02 19:20

Matrix-Units: Aqueous µg/L (ppb)

% Moisture: 100

Batch #: 326

Compound	Result	Q	DF	MDL	Date Analyzed	Method
Cadmium	13.5		1	1.00	12/02/02 16:16	200.8
Chromium	19.0		1	8.00	12/02/02 16:16	200.8
Lead	2.19		1	2.00	12/02/02 16:16	200.8
Mercury	ND		1	0.500	12/03/02 13:17	245.1
Silver	ND		1	2.00	12/02/02 16:16	200.8

547
1/3/03



INTEGRATED ANALYTICAL LABORATORIES, LLC.

METALS

Client/Project: EA/AGFA PEERLESS PHOTO - 871211

Lab ID: 9310-005

Client ID: MW-2A

Date Received: 11/22/02 19:20

Matrix-Units: Aqueous µg/L (ppb)

% Moisture: 100

Batch #: 326

Compound	Result	Q	DF	MDL	Date Analyzed	Method
Cadmium	1.60		1	1.00	12/02/02 16:16	200.8
Chromium	32.7		1	8.00	12/02/02 16:16	200.8
Lead	5.56		1	2.00	12/02/02 16:16	200.8
Mercury	ND		1	0.500	12/03/02 13:17	245.1
Silver	ND		1	2.00	12/02/02 16:16	200.8

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INTEGRATED ANALYTICAL LABORATORIES, LLC.

METALS

Client/Project: EA/AGFA PEERLESS PHOTO - 871211

Lab ID: 9310-006

Client ID: FB-2

Date Received: 11/22/02 19:20

Matrix-Units: Aqueous µg/L (ppb)

% Moisture: 100

Batch #: 326

Compound	Result	Q	DF	MDL	Date Analyzed	Method
Cadmium	ND		1	1.00	12/02/02 16:16	200.8
Chromium	ND		1	8.00	12/02/02 16:16	200.8
Lead	ND		1	2.00	12/02/02 16:16	200.8
Mercury	ND		1	0.500	12/03/02 13:17	245.1
Silver	ND		1	2.00	12/02/02 16:16	200.8

577
1/2/03



INTEGRATED ANALYTICAL LABORATORIES, LLC.

METALS

Client/Project: EA/AGFA PEERLESS PHOTO - 1371211

Lab ID: 9712-001

Client ID: TW-1

Date Received: 12/09/02 18:30

Matrix-Units: Aqueous µg/L (ppb)

% Moisture: 100

Batch #: 339

Compound	Result	Q	DF	MDL	Date Analyzed	Method
Cadmium	3.65		1	1.00	12/12/02	200.8
Chromium	13.9		1	8.00	12/12/02	200.8
Lead	ND		1	2.00	12/12/02	200.8
Mercury	ND		1	0.500	12/12/02	245.1
Silver	ND		1	2.00	12/12/02	200.8

2/1/03



Appendix F
Chains-of-Custody



INTEGRATED ANALYTICAL LABORATORIES
 CHAIN OF CUSTODY

REPORTING

Company Name: E.A. Engineering
 Fax to: Barbara O'Grady
 Fax #: (732) 404-9382
 Report to: Barbara O'Grady
 Address: 485 Route 1
Building C Suite 260
Iselin, NJ 08830
 Telephone #: (732) 404-9370
 Fax #: (732) 404-9382
 Project Name: Nyla Peerless Photo
 Project Manager: Chris Kerlich
 Reference ID#: 1371209 PO#: _____

Turnaround Time

Conditional/TPHC
 24 hr* 48 hr 72 hr 1 wk NA Other:
 Verbal/Fax
 24 hr* 48 hr* 72 hr* 1 wk* 2 wk Other:
 Hard Copy
 72 hr* 1 wk* 2 wk* 3 wk Other:
 *Prior to sample arrival, Lab notification is required.

Report Format
 Results Only
 Requested
 Regulatory
 SRP Dist*: dbf or wkl
 Other:

ANALYTICAL PARAMETERS / PRESERVATIVES

		** Circle format required					
		123	123	123	123	123	123
		456	456	456	456	456	456
1. HCL	3. HNO ₃						
2. NaOH	4. H ₂ SO ₄						
5. MeOH	6. Other						

SAMPLE INFORMATION

SAMPLE MATRIX
 W - Waste SL - Sludge A - Aqueous
 O - Oil X - Other S - Soil
 GW - Groundwater SOL - Solid

Sample ID	Sample Description	Date	Sampling		Matrix	# of Containers	Lab ID
			Time	amt			
MW-8S Low		011802	0912	X	GW	1	
MW-8S		011802	0956	X	GW	1	
MW-4 Low		012202	1042	X	GW	1	
MW-4 Low Filt		012202	1115	X	GW	1	
MW-4		012202	1220	X	GW	1	
MW-4 Filt		012202	1220	X	GW	1	
MW-2A Low		011802	1159	X	GW	1	
MW-2A		011802	1307	X	GW	1	
MW-9 Low		012202	1356	X	GW	1	
MW-9		012202	1418	X	GW	1	

Please print legibly and fill out completely. Samples cannot be processed and the turnaround time will not start until any ambiguities have been resolved.

CUSTODY LOG

Signature	Date	Time
Requisitioned by: <u>Barbara A. O'Grady</u>	012802	1625
Requisitioned by:		
Requisitioned by:		
Requisitioned by:		
Requisitioned by:		

Concentrations Expected: LOW MED HIGH
 Known Hazard: yes no
 Describe:
 Comments: Deliverables by NYSDEC - ASP
Category B

Lab Case # _____

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CLIENT & PROJECT

Company Name: EA Engineering
 Address: 485 Route 1
 Building C Suite 260
 Iselin, NJ 08830
 Telephone #: (732) 404-9370
 Fax #: (732) 404-9382
 Project Name: Agfa Peerless Proto
 Project Manager: Chris Kerlish
 Reference ID#: 1371209 POW:

REPORTING

Fax to: Barbara O'Grady
 Fax #: (732) 404-9382
 Report to: Barbara O'Grady
 Address: 485 Route 1
 Building C Suite 260
 Iselin, NJ 08830
 Invoice to: Barbara O'Grady
 Address: 485 Route 1
 Building C Suite 260
 Iselin, NJ 08830

SAMPLE MATRIX
 W - Waste SL - Sludge A - Aqueous
 O - Oil X - Other S - Soil
 GW - Groundwater SOL - Solid

SAMPLE INFORMATION

Sample ID	Sample Description	Date	Sampling		Matrix	# of Containers	Lab ID
			Time	amt			
FB-1		011802	1014	A	GW	1	
MW-75 Low		012102	1042	X	GW	1	
MW-75		012102	1120	X	GW	1	
MW-1 Low		012102	1415	X	GW	1	
MW-1		012102	1434	X	GW	1	
MW-10 Low		012302	0935	X	GW	1	
MW-10		012302	1013	X	GW	1	
MW-2 Low		012302	1219	X	GW	1	
MW-2		012302	1229	X	GW	1	
MW-3		012402	1041	X	GW	1	

Please print legibly and fill out completely. Samples cannot be processed and the turnaround time will not start until any ambiguities have been resolved.

CUSTODY LOG

Signature	Date	Time	Signature
Relinquished by: Barbara A. O'Grady	012802	1625	Received by: Phil Lovell
Relinquished by:			Received by:
Relinquished by:			Received by:
Relinquished by:			Received by:
Relinquished by:			Received by:

Turnaround Time
 Conditional/TPHC
 24 hr* 48 hr 72 hr 1 wk NA Other:
 Verbal/Fax
 24 hr* 48 hr* 72 hr* 1 wk* 2 wk Other:
 Hard Copy
 72 hr* 1 wk* 2 wk* 3 wk Other:
 *Prior to sample arrival, Lab notification is required.

ANALYTICAL PARAMETERS / PRESERVATIVES

Preservatives		1,2,3	1,2,3	1,2,3	1,2,3	1,2,3	1,2,3	1,2,3	1,2,3
4,5,6	4,5,6	4,5,6	4,5,6	4,5,6	4,5,6	4,5,6	4,5,6	4,5,6	4,5,6
Metals by XRF									
Metals by 245.1									

1. HCL	2. NaOH	3. HNO3	4. H2SO4	5. MeOH	6. Other

Concentrations Expected
 LOW MED HIGH**
 Describe:
 Known Hazard: yes no

Comments: Deliverables are NYSDEC ASP Category B

Lab Case #





INTEGRATED ANALYTICAL LABORATORIES
CHAIN OF CUSTODY

REPORTING & BILLING

CLIENT & PROJECT

Name: EPA Engineering
 Address: 485 Route 1
Building C Suite 260
Iselin, NJ 08830

Invoice to: Barbara O'Grady
 Address: 485 Route 1
Building C Suite 260
Iselin, NJ 08830

Project Name: Agfa Peerless Photo
 Project Manager: Chris Keelish
 Reference ID: 1371209 PO#:

REPORTING & BILLING

Bill to: Barbara O'Grady
 Fax #: (732) 404-9382
 Email to: _____

Request to: Barbara O'Grady
 Address: 485 Route 1
Building C Suite 260
Iselin, NJ 08830

Telephone #: (732) 404-9370
 Fax #: (732) 404-9382

SAMPLE INFORMATION

W - Waste SL - Sludge A - Aqueous
 O - Oil X - Other S - Soil
 GW - Groundwater SOL - Solid

Sample ID	Sample Depth (in Feet)	Date	Time	Matrix	# of Containers	Lab ID
MW-TDF-1		01/31/02	1115	GW	1	1
Test			1325	GW	1	2
MW-ID			1115	GW	1	3
Dup			-	GW	1	4
MW-GLOW			1300	GW	1	5
FB-2			1320	GW	1	6
MW-G			1335	GW	1	7
MW-G-F-11			1335	GW	1	8
MW-G-F-LOW			1302	GW	1	9

Please print legibly and fill out completely. Samples cannot be processed and the turnaround time will not start until any ambiguities have been resolved.

CUSTODY LOG

Signature/Company	Date	Time	Signature/Company
<u>[Signature]</u>	01/31/02	1535	<u>[Signature]</u>
<u>[Signature]</u>	01/31/02	1600	<u>[Signature]</u>

Turnaround Time

Conditional/TPHC

24 hr* 48 hr* 72 hr* 1 wk 2 wk 3 wk Other:

Verbal/FA

24 hr* 48 hr* 72 hr* 1 wk* 2 wk* 3 wk* Other:

Hard Copy

72 hr* 1 wk* 2 wk* 3 wk* Other:

*Prior to sample arrival, Lab notification is required.

Report Format

Results Only

Reduced

Regulatory

SRP Data: dfl or wkl

Special Requirements:

ANALYTICAL PARAMETERS / PRESERVATIVES

** Circle format required

1. HCL	2. NaOH	3. HNO3	4. H2SO4	5. NeOH	6. Other
1.23	1.23	1.23	1.23	1.23	1.23
4.56	4.56	4.56	4.56	4.56	4.56

Comments/Area of Concern

Metals

Cd Cr, Pb Ag

Hg by 2451

Test is a wash sample

Concentrations Exposed

LOW MED HIGH

Describe:

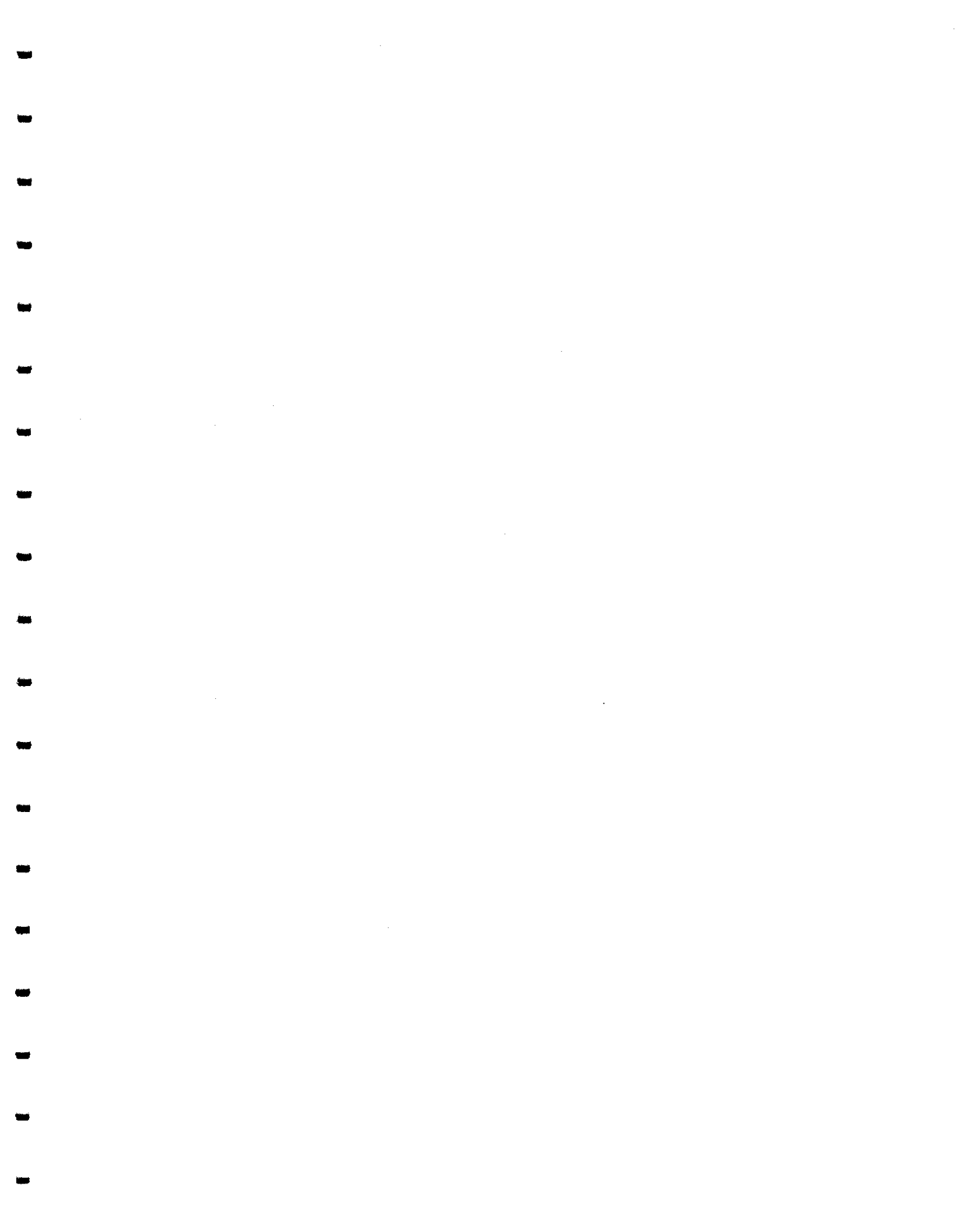
Comments: Deliverables by NYSDEC - Asp
Category B

Lab Case #

747

PAGE: 1 OF 1







INTEGRATED ANALYTICAL LABORATORIES
 CHAIN OF CUSTODY

CLIENT & PROJECT

REPORTING & BILLING

Name: **EA ENGINEERING**
 Address: **485 Route 1 South
 Building C Suite 260
 Tselin, NJ 08830**
 Telephone: **(732) 404-9370**
 Fax #: **(732) 404-9387**
 Project Name: **Agfa Peerless Photo**
 Project Manager: **Christopher Kerish**
 Reference ID#: **B7121**

Invoice to: **EA ENGINEERING**
 Address: **485 Route 1 South
 Building C Suite 260
 Tselin, NJ 08830**

Report to: **EA ENGINEERING**
 Address: **485 Route 1 South
 Building C Suite 260
 Tselin, NJ 08830**

Project Name: **Agfa Peerless Photo**
 Project Manager: **Christopher Kerish**
 Reference ID#: **B7121**

Turnaround Time

Conditional/TPHC
 24 hr* 48 hr 72 hr 1 wk NA Other: **Normal**

Verbal/Fax
 24 hr* 48 hr* 72 hr* 1 wk* 2 wk Other: **Normal**

Hard Copy
 72 hr* 1 wk* 2 wk* 3 wk Other: **Normal**

Special Requirements: ***Prior to sample arrival, Lab notification is required.**

Report Format

Results Only

Reduced

Regulatory

SRP Disk** .dft or .wkl

ANALYTICAL PARAMETERS / PRESERVATIVES

Parameter	1 wk*	2 wk*	3 wk	Other	Special Requirements
1. HCL	123	123	123	123	123
2. NaOH	456	456	456	456	456
3. HNO ₃	123	123	123	123	123
4. H ₂ SO ₄	456	456	456	456	456
5. MeOH	123	123	123	123	123
6. Other	456	456	456	456	456

SAMPLE INFORMATION

Sample ID	Sample Depth (in Feet)	Sampling		Matrix	# of Containers	Lab ID
		Date	Time			
FB-1	---	11/21/02	0812X	A	1	
MW-2	---	11/21/02	1010 X	GW	1	
MW-3	---	11/21/02	1400	X GW	1	
MW-4	---	11/21/02	1511h	X GW	1	
MW-2A	---	11/21/02	1130 X	GW	1	
FB-2	---	11/22/02	0757 X	A	1	

Please print legibly and fill out completely. Samples cannot be processed and the turnaround time will not start until any ambiguities have been resolved.

CUSTODY LOG

Signature/Company	Date	Time
John Doe / EA	11/22/02	1715
Received by:		
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Received by:		
Retinquished by:		
Received by:		
Retinquished by:		

LAB COPIES - WHITE & YELLOW; CLIENT COPY - PINK

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INTEGRATED ANALYTICAL LABORATORIES
 CHAIN OF CUSTODY

CLIENT & PROJECT

EA ENGINEERING
 Name: Jennifer Nafus
 Address: 485 Route 1 South
 Building C Suite 260
 Iseton NJ 08830
 Telephone #: 732-404-9370
 Fax #: 732-404-9387
 Project Name: Afa Peckless Photo
 Project Manager: Christopher Kerlich
 Reference ID#: 1371211

REPORTING & BILLING

Fax to: Jennifer Nafus
 Fax #: (732) 404-9387
 Email to:
 Report to: SAME
 Address:
 Invoice to: SAME
 Address:

SAMPLE INFORMATION

*W - Waste
 O - Oil
 GW - Groundwater

A - Aqueous
 S - Soil
 SOL - Solid

Sample ID	Sample Depth (in Feet)	Date	Sampling		Time	am	pm	Matrix	# of Containers	Lab ID
			Time	Time						
MW-8S	---	11/25/02	0955	X			GW	1		
MW-9	---	11/25/02	1216		X		GW	1		
MW-6	---	11/25/02	1442		X		GW	1		
MW-1	---	11/26/02	0830	X			GW	1		

Please print legibly and fill out completely. Samples cannot be processed and the turnaround time will not start until any ambiguities have been resolved.

CUSTODY LOG

Signature/Company	Date	Time	Signature/Company
Therese Bell EA	11/26/02	1710	Jennifer Nafus
Relinquished by:			Received by:
Relinquished by:			Received by:
Relinquished by:			Received by:
Relinquished by:			Received by:

Turnaround Time
 Conditional / TPHC
 24 hr* 48 hr 72 hr 1 wk Other: Normal
 Verbal/Fax
 24 hr* 48 hr* 72 hr* 1 wk* 2 wk Other: Normal
 Hard Copy
 72 hr* 1 wk* 2 wk* 3 wk Other: Normal

*Prior to sample arrival, Lab notification is required.
 ANALYTICAL PARAMETERS / PRESERVATIVES
 **Circle format required

	123	123	123	123	123	123	123
0	456	456	456	456	456	456	456

Comments/Area of Concern
 Analyze Only:
 Cadmium
 Silver
 Lead
 Chromium and
 Mercury

Concentrations Expected
 LOW MED HIGH
 Known Hazard: yes no
 Describe:
 Comments:
 Lab Case #



INTEGRATED ANALYTICAL LABORATORIES
 CHAIN OF CUSTODY

CLIENT & PROJECT

Name: FA Engineering, Science & Tech
 Address: 485 Route 1 South
Building C, Suite 260
Iselin, NJ 08830
 Telephone #: 732-404-9370
 Fax #: 732-404-9387
 Project Name: Agfa Beckers Photo
 Project Manager: Christopher Kerlich
 Reference ID#: 1371211 PO#:

REPORTING & BILLING

Invoice to: Jennifer Weiss
 Invoice to: SAME
 Address: SAME

SAMPLE INFORMATION

W - Waste
 O - Oil
 GW - Groundwater

S - Sludge
 A - Aqueous
 S - Soil
 SOL - Solid

Sample ID	Sample Depth (in Feet)	Date	Sampling		Matrix	# of Containers	Lab ID
			Time	am pm			
TW-1	---	12/08/02	0716	X	GW	1	1
TW-2	---	12/08/02	1052	X	GW	1	1
TW-3	---	12/03/02	1211	X	GW	1	1
MW-7D	---	12/4/02	1226	X	GW	1	1
MW-7S	---	12/4/02	1345	X	GW	1	1
DUP-1	---	12/4/02	---	---	GW	1	1
MW-11D	---	12/5/02	0746	X	GW	1	1
MW-11S	---	12/5/02	1036	X	GW	1	1
MW-10D	---	12/5/02	1302	X	GW	1	1
MW-10	---	12/5/02	1453	X	GW	1	1

Please print legibly and fill out completely. Samples cannot be processed and the turnaround time will not start until any ambiguities have been resolved.

CUSTODY LOG

Signature/Company	Date	Time	Signature/Company
<u>[Signature]</u>	12/08/02	1710	<u>[Signature]</u>
Retinquished by:			Received by:
Retinquished by:			Received by:
Retinquished by:			Received by:
Retinquished by:			Received by:

LAB COPIES - WHITE & YELLOW; CLIENT COPY - PINK

Turnaround Time

Conditional/TPHC
 24 hr* 48 hr 72 hr 1 wk NA Other: NORMAL
 Verbal/Fax
 24 hr* 48 hr* 72 hr* 1 wk* 2 wk Other: NORMAL
 Hard Copy
 72 hr* 1 wk* 2 wk* 3 wk Other: NORMAL
 #Prior to sample arrival, Lab notification is required.

ANALYTICAL PARAMETERS / PRESERVATIVES

Parameter	1 wk	2 wk	3 wk	1 wk	2 wk	3 wk	1 wk	2 wk	3 wk	1 wk	2 wk	3 wk
1. HCL	123	456	123	456	123	456	123	456	123	456	123	456
2. NaOH	123	456	123	456	123	456	123	456	123	456	123	456
3. HNO ₃	123	456	123	456	123	456	123	456	123	456	123	456
4. H ₂ SO ₄	123	456	123	456	123	456	123	456	123	456	123	456
5. MeOH	123	456	123	456	123	456	123	456	123	456	123	456
6. Other	123	456	123	456	123	456	123	456	123	456	123	456

COOLER TEMP. °C

Comments/Area of Concern

Analyze DAILY
 Cadmium
 Chromium
 Lead
 Mercury and
 Silver

Known Hazard: yes no

Describe:

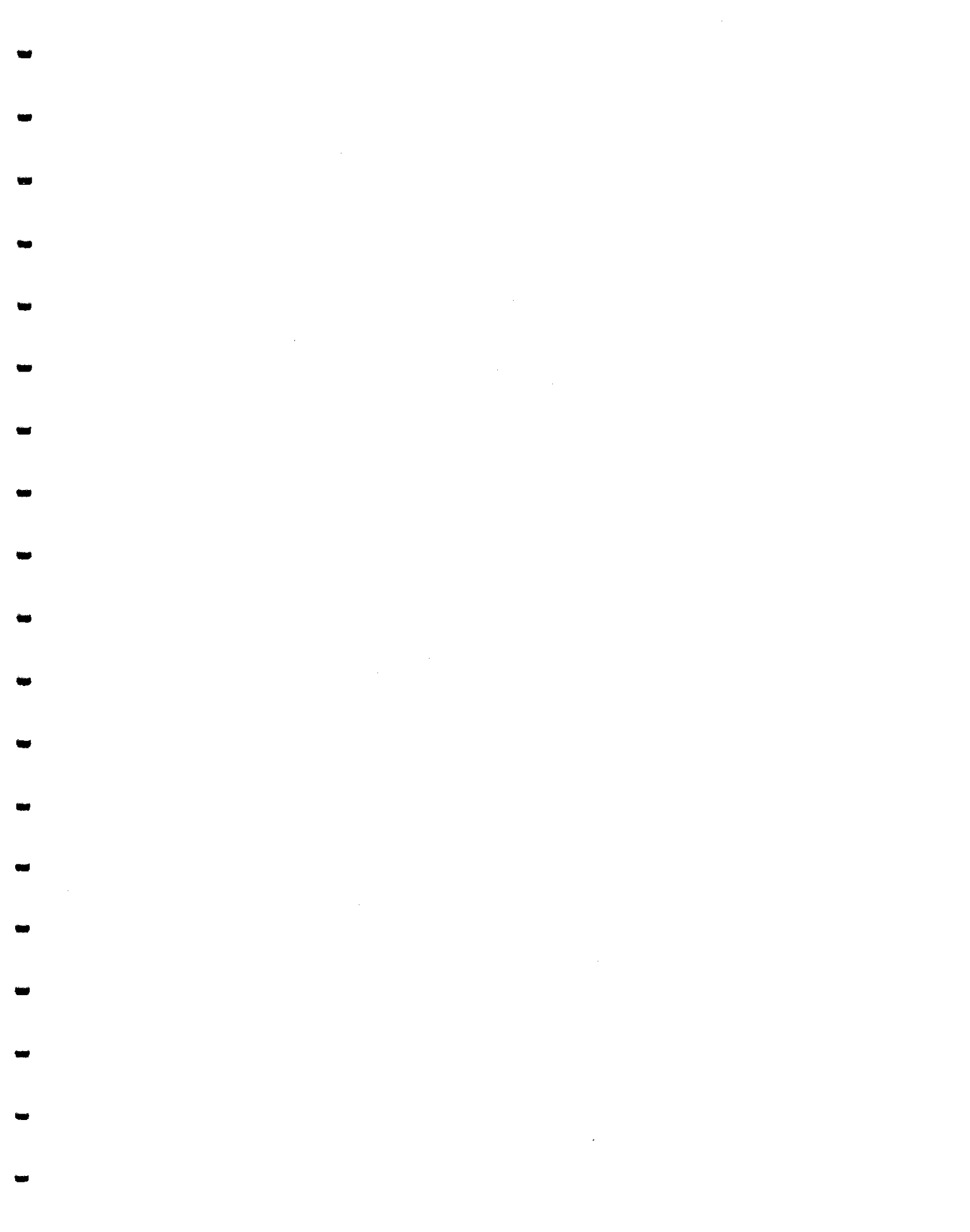
Comments:

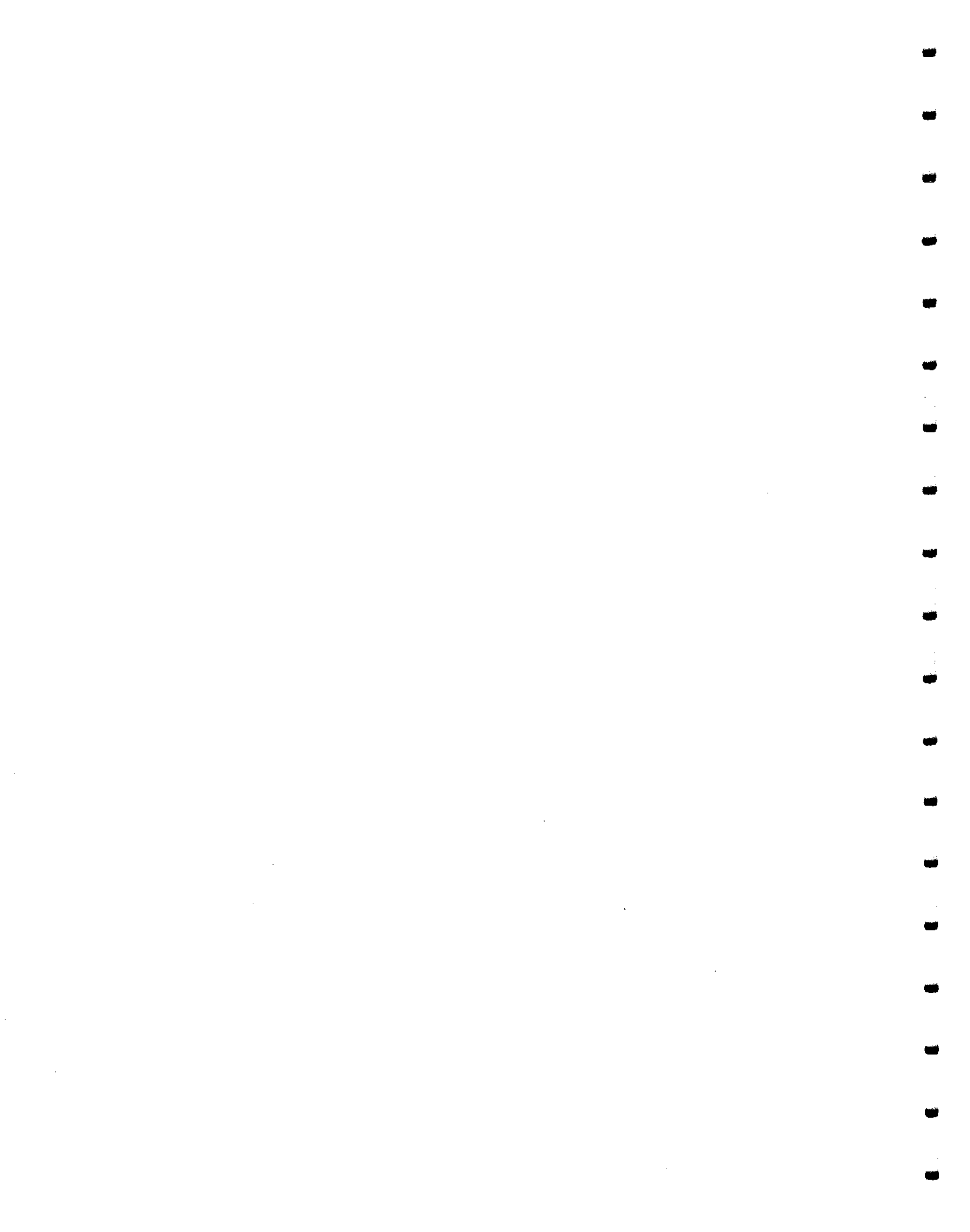
Lab Case #

PAGE: 1

OF 1







INTEGRATED ANALYTICAL LABORATORIES
 CHAIN OF CUSTODY

CLIENT & PROJECT

Name: **EA Engineering**
 Address: **485 Route 1 South Bldg C, suite 260 Iselin, NJ 08830**
 Telephone #: **732-464-9370**
 Fax #: **732-464-9382**
 Project Name: **Alpha - Peeders Photo**
 Project Manager: **Chris Keckish**
 Reference ID#: **137121**

REPORTING & BILLING

Invoice to: **SAME**
 Address: **SAME**
 Turnaround Time: **Normal**
 Report Format: **Normal**
 SRP Disk: **dhf or wkl**
 Special Requirements:

*Prior to sample arrival, Lab notification is required.

ANALYTICAL PARAMETERS / PRESERVATIVES

123 456	123 456	123 456	123 456	123 456	123 456	123 456	123 456	123 456	123 456	123 456	123 456	123 456	123 456	123 456	123 456	123 456	123 456	123 456	123 456	123 456
TOC																				
X																				
X																				
X																				

SAMPLE INFORMATION

Sample ID	Sample Depth (in Feet)	Date	Time	am	pm	Matrix	# of Containers	Lab ID	SAMPLE MATRIX											
									W - Waste	SL - Sludge	A - Aqueous	O - Oil	X - Other	SOL - Solid						
TW-2A	113.5-114	10/29/02	1115	X		S	1													
TW-2B	118.5-119		1125	X		S	1													
TW-2C	125-125.5		1130	X		S	1													

Please print legibly and fill out completely. Samples cannot be processed and the turnaround time will not start until any ambiguities have been resolved.

CUSTODY LOG

Signature/Company	Date	Time	Signature/Company
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Relinquished by:			Received by:
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Relinquished by:			Received by:
Relinquished by:			Received by:

Lab Case #

Comments:

Page: 1 of 1

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INTEGRATED ANALYTICAL LABORATORIES
 CHAIN OF CUSTODY

CLIENT & PROJECT

Name: **EA Engineering**
 Fax to: **Chris Koelich**
 Fax #: _____
 Email to: _____
 Report to: **SAME**
 Address: _____
 Telephone #: **732-404-9370**
 Fax #: **732-404-9382**
 Project Name: **Agfa-Perkess Photo**
 Project Manager: **Chris Koelich**
 Reference ID# **1371211** YOW

REPORTING & BILLING

Turnaround Time
 Conditional/LTPHC
 24 hr* 48 hr 72 hr 1 wk 2 wk 3 wk 4 wk 5 wk 6 wk 7 wk 8 wk 9 wk 10 wk 11 wk 12 wk
 Verbal/Fax
 24 hr* 48 hr* 72 hr* 1 wk* 2 wk* 3 wk* 4 wk* 5 wk* 6 wk* 7 wk* 8 wk* 9 wk* 10 wk* 11 wk* 12 wk*
 Hard Copy
 72 hr* 1 wk* 2 wk* 3 wk* 4 wk* 5 wk* 6 wk* 7 wk* 8 wk* 9 wk* 10 wk* 11 wk* 12 wk*

Report Format
 Results Only
 Reduced
 Regulatory
 SRF Disk** dnf or wkl

*Prior to sample arrival, Lab notification is required.

ANALYTICAL PARAMETERS / PRESERVATIVES

Parameter	1 wk	2 wk	3 wk	4 wk	5 wk	6 wk	7 wk	8 wk	9 wk	10 wk	11 wk	12 wk
1. HCL	123	123	123	123	123	123	123	123	123	123	123	123
2. NaOH	456	456	456	456	456	456	456	456	456	456	456	456
3. HNO ₃												
4. H ₂ SO ₄												
5. MeOH												
6. Other												

SAMPLE INFORMATION

Sample ID	Sample Depth (in Feet)	Sampling		Date	Time	am	pm	Matrix	# of Containers	Lab ID
		W - Waste	SL - Sludge							
TW-1A	113-114			10/24/02	0830	X		S	1	
TW-1B	118-119			0845	X			S	1	
TW-1C	126-127			0905	X			S	1	
TW-3A	111.5-112			0835	X			S	1	
TW-3B	118-119.5			0855	X			S	1	
TW-3C	123.5-124			0905	X			S	1	

Please print legibly and fill out completely. Samples cannot be processed and the turnaround time will not start until any ambiguities have been resolved.

CUSTODY LOG

Signature/Company	Date	Time	Signature/Company
	10/28/02	0850	
Relinquished by:			Received by:
Relinquished by:			Received by:
Relinquished by:			Received by:
Relinquished by:			Received by:
Relinquished by:			Received by:

LAB COPIES - WHITE & YELLOW; CLIENT COPY - PINK

Comments:

Concentrations Expected
 LOW MED HIGH

Describe:

Known Hazard, yes no

Lab Case #

PAGE: 1 OF 1



INTEGRATED ANALYTICAL LABORATORIES
 CHAIN OF CUSTODY

CLIENT & PROJECT

Name: EA Engineering
 Address: 485 Rt 1 South
Bldg C, Suite 260
Trenton, NJ 08630
 Telephone #: 732-404-9370
 Fax #: 732-404-9382
 Project Name: Asfa - Peackess Photo
 Project Manager: Chris Keelish
 Reference ID#: 1371211 PO#:

REPORTING & BILLING

Fax to: Chris Keelish
 Fax #: _____
 EMail to: SA ME
 Report to: _____
 Address: _____
 Invoice to: SA ME
 Address: _____

SAMPLE INFORMATION

W - Waste
 O - Oil
 CW - Groundwater

SAMPLE MATRIX

A - Aqueous
 S - Soil
 SOL - Solid

Sample ID	Sample Depth (in Feet)	Date	Time	Matrix	# of Containers	Lab ID	ANALYTICAL PARAMETERS / PRESERVATIVES												
							1.23	1.23	1.23	1.23	1.23	1.23	1.23	1.23					
AW-115	148.5-149	11/5/02	0945X	S	1														
AW-116	200-204	11/16/02	1105X	S	1														

Please print legibly and fill out completely. Samples cannot be processed and the turnaround time will not start until any ambiguities have been resolved.

CUSTODY LOG

Signature/Company	Date	Time	Signature/Company
<u>Charles A. O'Leary</u>	<u>11/16/02</u>	<u>1640</u>	<u>Janet Lowell</u>
Relinquished by:			Received by:
Relinquished by:			Received by:
Relinquished by:			Received by:
Relinquished by:			Received by:
Relinquished by:			Received by:

Turnaround Time
 Conditional/TPHC
 24 hr* 48 hr 72 hr 1 wk NA Other:
 Verbal/Fax
 24 hr* 48 hr* 72 hr* 1 wk* 2 wk Other:
 Hard Copy
 72 hr* 1 wk* 2 wk* 3 wk Other:
 *Prior to sample arrival, Lab notification is required.

Special Requirements:		SRP Duplicates: dbf or wkl		Report Format	
1.23	4.56	1.23	4.56	1.23	4.56
				Results Only	
				Reduced	
				Regulatory	

1.23	1.23	1.23	1.23	1.23	1.23	1.23	1.23	1.23	1.23	1.23	1.23	1.23	1.23	1.23	1.23	1.23	1.23	1.23	1.23	

Comments:
 Concentrations Expected: LOW MED HIGH
 Known Hazard: yes no
 Describe:
 Lab Cast #
 PAGE: 1 OF 1



CLIENT & PROJECT

Company Name: EA Engineering
 Project Name: Agfa - Peerless Photo
 Project Manager: Chris Kerlish
 Reference ID#: 1371211 POK:
 Address: 485 Route 1 South
Bldg C, suite 260
Iselin, NJ 08830
 Telephone #: 732-404-9370
 Fax #: 732-404-9382

REPORTING

Report to: Chris Kerlish
 Report to: SAMG
 Address: SAME
 Invoice to: SAME
 Address: SAME

SRP Disk**: dbf or wkl
 Other: Normal
 Report Format: Results Only
 Reduced
 Regulatory

SAMPLE MATRIX
 W - Waste
 SC - Sludge
 A - Aqueous
 O - Oil
 X - Other
 S - Soil
 GW - Groundwater
 SOL - Solid

SAMPLE INFORMATION

Sample ID	Sample Description	Date	Sampling Time and pm	Matrix	# of Containers	Lab ID
MW-11S	198.5-199	11/5/02	0945X	S	1	
MW-11D	200-20Y	11/11/02	1105X	S	1	

Please print legibly and fill out completely. Samples cannot be processed and the turnaround time will not start until any ambiguities have been resolved.

CUSTODY LOG

Signature	Date	Time	Signature
<u>[Signature]</u>	<u>11/20/02</u>	<u>1540</u>	Received by: <u>Khalid Bensuwane</u>
			Received by:
			Received by:
			Received by:
			Received by:

Turnaround Time
 Conditional /TPHC
 24 hr* 48 hr 72 hr 1 wk NA Other:
 Verbal/Fax
 24 hr* 48 hr* 72 hr* 1 wk* 2 wk Other:
 Hard Copy
 72 hr* 1 wk* 2 wk* 3 wk Other:
 *Prior to sample arrival, Lab notification is required.

ANALYTICAL PARAMETERS / PRESERVATIVES

123	123	123	123	123	123	123
456	456	456	456	456	456	456

1. HCL	3. HNO ₃	2. NaOH	4. H ₂ SO ₄	5. MeOH	6. Other

COOLER TEMP °C
 Comments
 Concentrations Expected: LOW MED HIGH
 Known Hazard: yes no
 Describe:

Lab Case #



REPORTING & BILLING

CLIENT & PROJECT

Name: EA Engineering
 Fax to: Chris Kerlich
 Fax #: _____
 EMail to: SAAME
 Report to: _____
 Address: _____

Telephone #: 732-404-9370
 Fax #: 732-404-9382
 Project Name: Agfa - Kerlich Photo
 Project Manager: Chris Kerlich
 Reference ID#: 1371211 PO#: _____

Turnaround Time

Conditional/TPHC
 24 hr* 48 hr 72 hr 1 wk NA Other:
 Verbal/Fax
 24 hr* 48 hr* 72 hr* 1 wk* 2 wk Other:
 Hard Copy
 72 hr* 1 wk* 2 wk* 3 wk Other:
Normal

Report Format

Results Only
 Reduced
 Regulatory
 SRP Dist** : dbf or wkl
 Special Requirements:

*Prior to sample arrival, Lab notification is required.

ANALYTICAL PARAMETERS / PRESERVATIVES

1. HCL	2. NaOH	3. HNO ₃	4. H ₂ SO ₄	5. MeOH	6. Other	COOLER TEMP. °C
1.23	1.23	1.23	1.23	1.23	1.23	1.23
4.56	4.56	4.56	4.56	4.56	4.56	4.56

SAMPLE MATRIX

Sample ID	Sample Depth (in Feet)	Date	Time	Matrix	# of Containers	Lab ID	W. Waste		O. Oil		X. Other		S. Soil		Comments/Area of Concern
							SL - Sludge	A - Aqueous	GW - Groundwater	SOL - Solid	SOL - Solid	SOL - Solid	SOL - Solid	SOL - Solid	
TW-2A	113.5-114	10/29/02	1115	S	1										
TW-2B	118.5-119	↓	1125	S	1										
TW-2C	125-125.5	↓	1130	S	1										

Please print legibly and fill out completely. Samples cannot be processed and the turnaround time will not start until any ambiguities have been resolved.

CUSTODY LOG

Signature/Company	Date	Time	Signature/Company
	10/29/02	1100	
Relinquished by:			Received by:
Relinquished by:			Received by:
Relinquished by:			Received by:
Relinquished by:			Received by:

Concentrations Expected
 LOW MED HIGH

Known Hazard: Yes No

Comments:
 Lab Case #

.....

Appendix G

Data Summary Usability Report



MEMORANDUM

TO: Chris Kerlish
FROM: Sherri Pullar
SUBJECT: Data Usability Summary Report - Inorganic
 Integrated Analytical Laboratories (IAL) IAL Case Numbers: E02-9398, E02-9712, and E02-9310
DATE: January 30, 2003

The purpose of this memorandum is to present the data validation report for the Supplement RI samples collected at the Peerless Photo Products Site during the November/December sampling event. A total of twenty ground-water samples were analyzed for cadmium (200.8), chromium (200.8), lead (200.8), mercury (245.1), and silver (200.8) using USEPA Drinking Water Standard protocols. The field sample IDs are:

MW-8S	MW-9	MW-6	MW-1	FB-1	MW-2	MW-3
MW-4	MW-2A	FB-2	TW-1	TW-2	TW-3	MW-7D
MW-7S	MW-7S DUP	MW-11D	MW-11S	MW-10D	MW-10	

Data were reviewed by Sherri Pullar and validated using a combination of method-specific criteria, laboratory SOPs, *USEPA Contract Laboratory Program National Functional Guidelines for Inorganic Data Review* (February, 1994), and *NYSDEC's Guidance for the Development of Data Usability Summary Reports*. Table 1 includes the parameters evaluated. Data associated with parameters that did not comply with quality control specifications and directly impacted project data have been qualified in accordance with USEPA specifications.

Table 1. Laboratory Performance Criteria

Qualified		Parameter
Yes	No	
	X	Holding Times
	X	Initial and Continuing Calibration
	X	Instrument Performance Results
	X	Blank Analysis
	X	Matrix Spike Analysis
	X	Laboratory Control Samples
	X	Precision Evaluation
	X	Field Duplicates
	X	ICP Serial Dilution
	X	Internal Standards
	X	Calculation Verification

The quality of data collected in support of this sampling activity is considered acceptable.

Attachments

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**PEERLESS PHOTO VALIDATION REPORT
MERCURY, LEAD, CHROMIUM, SILVER, CADMIUM REVIEW
IAL CASE NUMBERS: E02-9398, E02-9310, and E02-9712**

I. HOLDING TIMES AND PRESERVATION

Holding time criteria: Cool $4\pm 2^{\circ}\text{C}$ (Aqueous: $\text{pH} < 2$ HNO_3); 28 days for mercury and 180 days for other metals. The dates and times were compared between the sample collection and laboratory analysis.

- All criteria were met. No qualifiers were applied.

II. INITIAL AND CONTINUING CALIBRATION

Bench and run summary sheets were reviewed to determine whether calibration was performed at the beginning of sample analysis and at a frequency of 10% or every two hours using the following criteria. Mercury analyses were performed on 12/03/02 and 12/12/02 with a correlation coefficient of 0.99982 and 0.99996, respectively. All criteria were met.

Hg : 1 - blank
4 - standards ($r \geq 0.995$)

Percent recoveries for initial and continuing calibration were reviewed and determined to be in compliance with control limits: mercury (80-120%) and metals (90-110%).

- All criteria were met. No qualifiers were applied.

III-Instrument Performance Check

The analysis of the instrument performance check solution for ICPMS must be performed at the beginning of each 12-hour period during which samples are analyzed.

- The instrument performance check met the ion abundance criteria. No qualification was applied.

IV. BLANK ANALYSIS

Blanks are assessed to determine the existence and magnitude of contamination problems. Any sample having a concentration less than the 5x Max concentration listed (as wet weight) and greater than the IDL would be qualified "B."

- All blanks (including field blanks) were non-detect and criteria were met. No qualifiers were applied.

V. MATRIX SPIKE SAMPLE ANALYSIS

Spike recoveries must be within 75-125%; with the exception of samples that have concentrations exceeding the spike concentration by a factor of four or more. When matrix spike recovery limits are not met, a post-digestion spike must be performed at twice the sample concentration or twice the CRDL, whichever is greater. This does not apply to silver or mercury.

- MW-2, MW-8S, and TW-2 were used as laboratory matrix spike samples. All criteria were met. No qualifiers were applied.

VI. LABORATORY CONTROL SAMPLES



All LCS results must fall within the control limits specified.

- All criteria were met. No qualifier was applied.

VII. DUPLICATE SAMPLE ANALYSIS

A control limit of ± 2 CRDL for aqueous values less than 10 times the CRDL.

A control limit of 20% RPD is used for aqueous sample values >10 times the CRDL.

- The laboratory performed sample duplicates on MW-2, MW-8S, and TW-2. All criteria were met. No qualifiers were applied.

VIII. FIELD DUPLICATE

Field duplicate samples were taken and analyzed as an indication of overall precision. These analyses measure both field and lab precision; therefore, the results may have more variability than lab duplicates which measure only lab performance.

A control limit of ± 2 CRDL for aqueous values less than 10 times the CRDL.

A control limit of 30% RPD is used for aqueous sample values >10 times the CRDL.

- The field crew duplicated sample MW-7S. All criteria were met. No qualifiers were applied.

IX. ICP SERIAL DILUTION

An ICP serial dilution is performed to determine whether significant physical or chemical interferences exist due to sample matrix at high concentrations. An analysis of a 5-fold dilution should agree within 10% difference of the original result when the concentration in sample is a factor of 50 above IDL.

- The serial dilutions were analyzed for samples MW-2 and TW-2. All criteria were met. No qualifier was applied.

X. Internal Standards (IS)

Internal standards performance criteria ensure that ICPMS sensitivity and response are stable during every analytical run. Specific criteria includes: area counts (-50% to +100%) of the associated calibration standard.

- All area counts were within the control criteria. No qualifier was applied.

XI. CALCULATION VERIFICATION

The following calculations were performed for verification. All calculation verifications were within the 10% difference criteria.

- All criteria were met. No qualifier was applied.

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For Metals:

$$\text{MS/MSD \%R} = \text{SSR/SR} + \text{SA} * 100$$

Sample: MW-8S Chromium
 $\%R = 411/11.1 + 400 * 100 = 100.0\%$
Reported Value = 100%
%Difference = 0.0%

Sample: MW-2 Zinc
 $\%R = 437/32.6 + 400 * 100 = 101\%$
Reported Value = 101%
%Difference = 0.0%

Sample: TW-2 Antimony
 $\%R = 415/12 + 400 * 100 = 101\%$
Reported Value = 101%
%Difference = 0.0%

Duplicate RPD

$$\text{RPD} = \frac{D-S}{(D+S/2)}$$

Sample: MW-8S Chromium
 $\text{RPD} = \frac{11.1-11.1}{(11.1+11.1/2)} * 100 = 0\%$
Reported Value = 0%
%Difference = 0.0%

Sample: MW-2 Zinc
 $\text{RPD} = \frac{32.6-32.0}{(32.6+32.0/2)} * 100 = 1.86\%$
Reported Value = 1.86%
%Difference = 0.0%

Sample: TW-2 Chromium
 $\text{RPD} = \frac{12.4-12.0}{(12.4+12.0/2)} * 100 = 3.28\%$
Reported Value = 3.28%
%Difference = 0.0%

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INTEGRATED ANALYTICAL LABORATORIES, LLC.

METALS

Client/Project: EA/AGFA PEERLESS PHOTO - 871211

Lab ID: 9310-001

Client ID: FB-1

Date Received: 11/22/02 19:20

Matrix-Units: Aqueous µg/L (ppb)

% Moisture: 100

Batch #: 326

Compound	Result	Q	DF	MDL	Date Analyzed	Method
Cadmium	ND		1	1.00	12/02/02 16:16	200.8
Chromium	ND		1	8.00	12/02/02 16:16	200.8
Lead	ND		1	2.00	12/02/02 16:16	200.8
Mercury	ND		1	0.500	12/03/02 13:17	245.1
Silver	ND		1	2.00	12/02/02 16:16	200.8

3/11/03



INTEGRATED ANALYTICAL LABORATORIES, LLC.

METALS

Client/Project: EA/AGFA PEERLESS PHOTO - 871211

Lab ID: 9310-002

Client ID: MW-2

Date Received: 11/22/02 19:20

Matrix-Units: Aqueous $\mu\text{g/L}$ (ppb)

% Moisture: 100

Batch #: 326

Compound	Result	Q	DF	MDL	Date Analyzed	Method
Cadmium	79.8		1	1.00	12/02/02 16:16	200.8
Chromium	72.3		1	8.00	12/02/02 16:16	200.8
Lead	ND		1	2.00	12/02/02 16:16	200.8
Mercury	ND		1	0.500	12/03/02 13:17	245.1
Silver	ND		1	2.00	12/02/02 16:16	200.8

2/11
1/24/03

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INTEGRATED ANALYTICAL LABORATORIES, LLC.

METALS

Client/Project: EA/AGFA PEERLESS PHOTO - 871211

Lab ID: 9310-003

Client ID: MW-3

Date Received: 11/22/02 19:20

Matrix-Units: Aqueous µg/L (ppb)

% Moisture: 100

Batch #: 326

Compound	Result	Q	DF	MDL	Date Analyzed	Method
Cadmium	13.5	1	1	1.00	12/02/02 16:16	200.8
Chromium	19.0	1	1	8.00	12/02/02 16:16	200.8
Lead	2.19	1	1	2.00	12/02/02 16:16	200.8
Mercury	ND	1	1	0.500	12/03/02 13:17	245.1
Silver	ND	1	1	2.00	12/02/02 16:16	200.8

SAT
1/2/03



INTEGRATED ANALYTICAL LABORATORIES, LLC.

METALS

Client/Project: EA/AGFA PEERLESS PHOTO - 871211

Lab ID: 9310-004

Client ID: MW-4

Date Received: 11/22/02 19:20

Matrix-Units: Aqueous µg/L (ppb)

% Moisture: 100

Batch #: 326

Compound	Result	Q	DF	MDL	Date Analyzed	Method
Cadmium	12.3		1	1.00	12/02/02 16:16	200.8
Chromium	20.9		1	8.00	12/02/02 16:16	200.8
Lead	ND		1	2.00	12/02/02 16:16	200.8
Mercury	ND		1	0.500	12/03/02 13:17	245.1
Silver	ND		1	2.00	12/02/02 16:16	200.8

507
1/24/03



INTEGRATED ANALYTICAL LABORATORIES, LLC.

METALS

Client/Project: EA/AGFA PEERLESS PHOTO - 871211

Lab ID: 9310-005

Client ID: MW-2A

Date Received: 11/22/02 19:20

Matrix-Units: Aqueous µg/L (ppb)

% Moisture: 100

Batch #: 326

<u>Compound</u>	<u>Result</u>	<u>Q</u>	<u>DF</u>	<u>MDL</u>	<u>Date Analyzed</u>	<u>Method</u>
Cadmium	1.60		1	1.00	12/02/02 16:16	200.8
Chromium	32.7		1	8.00	12/02/02 16:16	200.8
Lead	5.56		1	2.00	12/02/02 16:16	200.8
Mercury	ND		1	0.500	12/03/02 13:17	245.1
Silver	ND		1	2.00	12/02/02 16:16	200.8

50
11/22/02



INTEGRATED ANALYTICAL LABORATORIES, LLC.

METALS

Client/Project: EA/AGFA PEERLESS PHOTO - 871211

Lab ID: 9310-006

Client ID: FB-2

Date Received: 11/22/02 19:20

Matrix-Units: Aqueous µg/L (ppb)

% Moisture: 100

Batch #: 326

Compound	Result	Q	DF	MDL	Date Analyzed	Method
Cadmium	ND		1	1.00	12/02/02 16:16	200.8
Chromium	ND		1	8.00	12/02/02 16:16	200.8
Lead	ND		1	2.00	12/02/02 16:16	200.8
Mercury	ND		1	0.500	12/03/02 13:17	245.1
Silver	ND		1	2.00	12/02/02 16:16	200.8

547
12/2/03



INTEGRATED ANALYTICAL LABORATORIES, LLC.

METALS

Client/Project: EA/AGFA PEERLESS PHOTO - 1371211

Lab ID: 9712-001

Client ID: TW-1

Date Received: 12/09/02 18:30

Matrix-Units: Aqueous µg/L (ppb)

% Moisture: 100

Batch #: 339

Compound	Result	Q	DF	MDL	Date Analyzed	Method
Cadmium	3.65		1	1.00	12/12/02	200.8
Chromium	13.9		1	8.00	12/12/02	200.8
Lead	ND		1	2.00	12/12/02	200.8
Mercury	ND		1	0.500	12/12/02	245.1
Silver	ND		1	2.00	12/12/02	200.8

9/1/03

INTEGRATED ANALYTICAL LABORATORIES, LLC.

METALS

Client/Project: EA/AGFA PEERLESS PHOTO - 1371211

Lab ID: 9712-002

Client ID: TW-2

Date Received: 12/09/02 18:30

Matrix-Units: Aqueous µg/L (ppb)

% Moisture: 100

Batch #: 339

Compound	Result	Q	DF	MDL	Date Analyzed	Method
Cadmium	24.1		1	1.00	12/12/02	200.8
Chromium	12.0		1	8.00	12/12/02	200.8
Lead	ND		1	2.00	12/12/02	200.8
Mercury	ND		1	0.500	12/12/02	245.1
Silver	ND		1	2.00	12/12/02	200.8

611
1/3/03

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INTEGRATED ANALYTICAL LABORATORIES, LLC.

METALS

Client/Project: EA/AGFA PEERLESS PHOTO - 1371211

Lab ID: 9712-003

Client ID: TW-3

Date Received: 12/09/02 18:30

Matrix-Units: Aqueous µg/L (ppb)

% Moisture: 100

Batch #: 339

<u>Compound</u>	<u>Result</u>	<u>Q</u>	<u>DF</u>	<u>MDL</u>	<u>Date Analyzed</u>	<u>Method</u>
Cadmium	ND		1	1.00	12/12/02	200.8
Chromium	11.7		1	8.00	12/12/02	200.8
Lead	ND		1	2.00	12/12/02	200.8
Mercury	ND		1	0.500	12/12/02	245.1
Silver	ND		1	2.00	12/12/02	200.8

501
1/31/03



INTEGRATED ANALYTICAL LABORATORIES, LLC.

METALS

Client/Project: EA/AGFA PEERLESS PHOTO - 1371211

Lab ID: 9712-004

Client ID: MW-7D

Date Received: 12/09/02 18:30

Matrix-Units: Aqueous µg/L (ppb)

% Moisture: 100

Batch #: 339

Compound	Result	Q	DF	MDL	Date Analyzed	Method
Cadmium	ND		1	1.00	12/12/02	200.8
Chromium	20.3		1	8.00	12/12/02	200.8
Lead	ND		1	2.00	12/12/02	200.8
Mercury	ND		1	0.500	12/12/02	245.1
Silver	ND		1	2.00	12/12/02	200.8

12/13/02



INTEGRATED ANALYTICAL LABORATORIES, LLC.

METALS

Client/Project: EA/AGFA PEERLESS PHOTO - 1371211

Lab ID: 9712-005

Client ID: MW-7S

Date Received: 12/09/02 18:30

Matrix-Units: Aqueous µg/L (ppb)

% Moisture: 100

Batch #: 339

Compound	Result	Q	DF	MDL	Date Analyzed	Method
Cadmium	2.92		1	1.00	12/12/02	200.8
Chromium	18.4		1	8.00	12/12/02	200.8
Lead	ND		1	2.00	12/12/02	200.8
Mercury	ND		1	0.500	12/12/02	245.1
Silver	ND		1	2.00	12/12/02	200.8

9712-005



INTEGRATED ANALYTICAL LABORATORIES, LLC.

METALS

Client/Project: EA/AGFA PEERLESS PHOTO - 1371211

Lab ID: 9712-006

Client ID: DUP-1

Date Received: 12/09/02 18:30

Matrix-Units: Aqueous µg/L (ppb)

% Moisture: 100

Batch #: 339

Compound	Result	Q	DF	MDL	Date Analyzed	Method
Cadmium	2.56		1	1.00	12/12/02	200.8
Chromium	19.2		1	8.00	12/12/02	200.8
Lead	ND		1	2.00	12/12/02	200.8
Mercury	ND		1	0.500	12/12/02	245.1
Silver	ND		1	2.00	12/12/02	200.8

5/13/02



INTEGRATED ANALYTICAL LABORATORIES, LLC.

METALS

Client/Project: EA/AGFA PEERLESS PHOTO - 1371211

Lab ID: 9712-007

Client ID: MW-11D

Date Received: 12/09/02 18:30

Matrix-Units: Aqueous µg/L (ppb)

% Moisture: 100

Batch #: 339

Compound	Result	Q	DF	MDL	Date Analyzed	Method
Cadmium	ND		1	1.00	12/12/02	200.8
Chromium	10.7		1	8.00	12/12/02	200.8
Lead	ND		1	2.00	12/12/02	200.8
Mercury	ND		1	0.500	12/12/02	245.1
Silver	ND		1	2.00	12/12/02	200.8

6/12/02



INTEGRATED ANALYTICAL LABORATORIES, LLC.

METALS

Client/Project: EA/AGFA PEERLESS PHOTO - 1371211

Lab ID: 9712-008
Client ID: MW-11S
Date Received: 12/09/02 18:30
Matrix-Units: Aqueous µg/L (ppb)
% Moisture: 100
Batch #: 339

Compound	Result	Q	DF	MDL	Date Analyzed	Method
Cadmium	ND		1	1.00	12/12/02	200.8
Chromium	13.4		1	8.00	12/12/02	200.8
Lead	ND		1	2.00	12/12/02	200.8
Mercury	ND		1	0.500	12/12/02	245.1
Silver	ND		1	2.00	12/12/02	200.8

AP
1/2/03



INTEGRATED ANALYTICAL LABORATORIES, LLC.

METALS

Client/Project: EA/AGFA PEERLESS PHOTO - 1371211

Lab ID: 9712-009

Client ID: MW-10D

Date Received: 12/09/02 18:30

Matrix-Units: Aqueous µg/L (ppb)

% Moisture: 100

Batch #: 339

Compound	Result	Q	DF	MDL	Date Analyzed	Method
Cadmium	ND		1	1.00	12/12/02	200.8
Chromium	8.14		1	8.00	12/12/02	200.8
Lead	ND		1	2.00	12/12/02	200.8
Mercury	ND		1	0.500	12/12/02	245.1
Silver	ND		1	2.00	12/12/02	200.8

12/13/05

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INTEGRATED ANALYTICAL LABORATORIES, LLC.

METALS

Client/Project: EA/AGFA PEERLESS PHOTO - 1371211

Lab ID: 9712-010

Client ID: MW-10

Date Received: 12/09/02 18:30

Matrix-Units: Aqueous µg/L (ppb)

% Moisture: 100

Batch #: 339

Compound	Result	Q	DF	MDL	Date Analyzed	Method
Cadmium	51.9		1	1.00	12/12/02	200.8
Chromium	16.0		1	8.00	12/12/02	200.8
Lead	ND		1	2.00	12/12/02	200.8
Mercury	ND		1	0.500	12/12/02	245.1
Silver	ND		1	2.00	12/12/02	200.8

9712
12/12/02



INTEGRATED ANALYTICAL LABORATORIES, LLC.

METALS

Client/Project: EA/AGFA PEERLESS PHOTO - 1371211

Lab ID: 9398-001

Client ID: MW-8S

Date Received: 11/26/02 19:40

Matrix-Units: Aqueous µg/L (ppb)

% Moisture: 100

Batch #: 326

Compound	Result	Q	DF	MDL	Date Analyzed	Method
Cadmium	ND		1	1.00	12/02/02 16:16	200.8
Chromium	11.1		1	8.00	12/02/02 16:16	200.8
Lead	ND		1	2.00	12/02/02 16:16	200.8
Mercury	ND		1	0.500	12/03/02 13:17	245.1
Silver	ND		1	2.00	12/02/02 16:16	200.8

5/1/03
1/20/03



INTEGRATED ANALYTICAL LABORATORIES, LLC.

METALS

Client/Project: EA/AGFA PEERLESS PHOTO - 1371211

Lab ID: 9398-002

Client ID: MW-9

Date Received: 11/26/02 19:40

Matrix-Units: Aqueous µg/L (ppb)

% Moisture: 100

Batch #: 326

Compound	Result	Q	DF	MDL	Date Analyzed	Method
Cadmium	10.0		1	1.00	12/02/02 16:16	200.8
Chromium	17.5		1	8.00	12/02/02 16:16	200.8
Lead	ND		1	2.00	12/02/02 16:16	200.8
Mercury	ND		1	0.500	12/03/02 13:17	245.1
Silver	ND		1	2.00	12/02/02 16:16	200.8

7/1/03
1/13/03



INTEGRATED ANALYTICAL LABORATORIES, LLC.

METALS

Client/Project: EA/AGFA PEERLESS PHOTO - 1371211

Lab ID: 9398-003

Client ID: MW-6

Date Received: 11/26/02 19:40

Matrix-Units: Aqueous µg/L (ppb)

% Moisture: 100

Batch #: 326

Compound	Result	Q	DF	MDL	Date Analyzed	Method
Cadmium	7.67		1	1.00	12/02/02 16:16	200.8
Chromium	10.4		1	8.00	12/02/02 16:16	200.8
Lead	ND		1	2.00	12/02/02 16:16	200.8
Mercury	ND		1	0.500	12/03/02 13:17	245.1
Silver	ND		1	2.00	12/02/02 16:16	200.8

12/13/02



INTEGRATED ANALYTICAL LABORATORIES, LLC.

METALS

Client/Project: EA/AGFA PEERLESS PHOTO - 1371211

Lab ID: 9398-004

Client ID: MW-1

Date Received: 11/26/02 19:40

Matrix-Units: Aqueous µg/L (ppb)

% Moisture: 100

Batch #: 326

Compound	Result	Q	DF	MDL	Date Analyzed	Method
Cadmium	ND		1	1.00	12/02/02 16:16	200.8
Chromium	8.83		1	8.00	12/02/02 16:16	200.8
Lead	ND		1	2.00	12/02/02 16:16	200.8
Mercury	ND		1	0.500	12/03/02 13:17	245.1
Silver	ND		1	2.00	12/02/02 16:16	200.8

577
1/27/03

