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State of Florida Department of Environmental Protection

Interoffice Wemorandum
To: Jim Grane, Eureau of Waste Cleanup Tvin Towers, Wail Station #4535 MARGAU OF WASTE CLEANUP
FROM: William Kutash, Administrator Division of Waste Management JUL 1 0 2000
SUBJECT: CARA FURME, ONB.
Please review and comment upon the technical aspects of the document as you deem appropriate.
In order to maintain progress in the case, we would apprecia
Additional information:
Pacility Alias: District Contact: SANDIA TIPPIN 200 KUTAKUWSKI
This document as submitted as a result of:
executed CO Permit

The District has prioritized reviews of documents submitted compliance with an executed CO, or other administrative enforction. To the extent possible, please coordinate your revidence from the SW District office in accordance with the procedure.

Thanks.

WK/br

Attachment

JUL 1 0 2000

TECHNICAL REVIEW SECTION



CONTAMINATION
ASSESSMENT
REPORT ADDENDUM
FORMER
GNB BATTERY FACILITY
SOUTH FALKENBURG ROAD
TAMPA FLORIDA

JUNE 2000

D.E.P.
JUN 3 0 2000
Southwest District Tampa

CONTAMINATION ASSESSMENT REPORT ADDENDUM FORMER GNB BATTERY FACILITY SOUTH FALKENBURG ROAD TAMPA FLORIDA

JUNE 2000

PREPARED FOR:

GNB TECHNOLOGIES

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1.0 INTRODUCTION

Dames & Moore conducted additional soil and groundwater assessment at the former GNB Technologies (GNB) facility at 200 South Falkenburg Road in Tampa, Florida. The assessment was conducted in response to the November 23, 1998, comments by the Florida Department of Environmental Protection (FDEP) to the August 1998 Contamination Assessment Report (CAR) prepared by Resource Consultants[®], Inc. The additional assessment was conducted in February 2000, in accordance with the Work Plan for Field Activities submitted to FDEP in September 1999.

The additional investigation included installation of two additional Floridan Aquifer monitor wells, and ten additional soil borings on the north side of the building and a comprehensive round of groundwater samples to include all on-site and several off-site monitor wells. The chronology of the previous investigations conducted at the site is discussed below.

1.1 PREVIOUS INVESTIGATIONS

Investigations at the site began in 1986 prior to the sale of the facility by Pacific Chloride to JFI Land Corporation. GNB assumed the assets and liabilities of Pacific Chloride in 1988 and accepted previous agreements made by Pacific Chloride for cleanup of the property. A summary of the investigations conducted at the site is presented below.

- Prior to the 1986 sale of the facility, an environmental audit was conducted by Environmental & Industrial Hygiene Services (EIHS). Eighteen soil samples, six groundwater samples and two surface water samples were obtained and analyzed for lead. Results of the assessment revealed lead contamination of soils near the former on-site wastewater pretreatment plant (north side of the property).
- In 1988, additional contamination assessment activities of soil and groundwater were conducted by TEAM Consultants, Inc. TEAM took 46 soil samples and nine surface water and sediment samples. The TEAM assessment concluded that additional investigation was necessary to delineate the horizontal and vertical extent of lead impacted soils on the property. Six additional groundwater monitor wells were installed and sampled.

- In April 1988, Environmental Engineering Consultants (EEC) submitted a Corrective Action Plan to remove impacted soils from the site. In 1989, Chemical Waste Management conducted removal and disposal of soils with lead concentrations greater than 500 mg/kg in the area of the ditch north of the production facility. Other areas of the site (southeast corner of site, stormwater retention pond area, along the eastern property boundary and along the western property boundary) were also addressed by removal of lead containing soil. Soil was removed along the north property ditch to a depth of between six inches and two feet with the area near the former pasting operation (northeast corner) excavated to a depth of 48 inches. Over 180 soil samples were obtained to confirm that soil remediation goals were achieved.
- In July 1990, EEC submitted a Contamination Assessment Report that addressed the assessment and remediation conducted between November 1989 and March 1990.
- A Consent Order (No. 87-0775) was issued in June of 1990 by the Florida Department of Environmental Regulation. The consent order authorized remediation of soils outside the northern boundary of the property.
- In January 1991, FDER accepted the CAR as a Site Rehabilitation Completion Report for soil remediation but required additional assessment of the horizontal and vertical extent of groundwater contamination.
- A Quality Assurance Project Plan was not approved for the fieldwork conducted at the site until 1994. Since the previous soil and groundwater assessment had been conducted without benefit of the QAPP, the FDER requested that confirmation samples be obtained to reassess the effectiveness of the soil removal at the site. In addition, six new groundwater monitor wells were installed to further address groundwater conditions at the site. The existing and new wells were sampled and analyzed for conventional pollutants, metals, and volatile and semi-volatile organic compounds. The soil confirmation samples were obtained and additional monitor wells were installed in late 1994. Results of the additional assessment were presented in a Contamination Assessment Report prepared by Resource Consultants, Inc. (RCI) in March 1995.
- A total of fifty-four soil borings were conducted for the collection of soil samples. Forty-two samples were obtained at a depth of twelve inches below natural ground surface

(twelve inches below the level of previously excavated soil). Twelve borings were advanced with a drilling rig using a hollow stem auger to depths ranging from 13 to 39 feet below land surface. Six of these borings were converted into monitor wells. Results of the additional assessment indicated that lead was detected in concentrations greater than 500 mg/kg in the soil samples from six locations. Trichloroethene (TCE) was detected above the leachability limit of 0.0015 mg/kg at the 0-6 inch interval in four samples, NS-8, NS-11, NS-14 and NS-18. These samples were obtained from the north side of the building near the former pretreatment facility, near the tank pad on the north side of the building and near the northeast corner of the building. RCI concluded that lead in soil was not in high enough concentrations to exceed the EP Toxicity level and that TCE in soil did not appear to be impacting groundwater.

- Results of the analysis of groundwater samples indicated that total and dissolved cadmium, selenium, sodium and chromium were not present above MCLs in any of the samples. Total lead was detected in three samples above the MCL but dissolved lead was below the MCL of 0.015 mg/l for all samples. TCE, dichloroethene and vinyl chloride were detected slightly above the MCLs in several samples. Semi-volatile constituents were not detected in any of the groundwater samples. RCI concluded that no significant increases of lead contamination or movement of lead within the groundwater had occurred over the six years since the initial investigation at the site. RCI also concluded that TCE contamination at the site be monitored for possible changes. RCI recommended additional groundwater monitoring be conducted and an additional monitoring well be installed in a downgradient location.
- In comments to the 1995 CAR, FDEP requested three additional Floridan Aquifer monitor wells and two additional shallow monitor wells be installed. FDEP requested that the extent of VOC concentrations in groundwater in a downgradient direction be evaluated. FDEP also requested that additional soil investigation be conducted to determine whether site soils were a continuing source of groundwater contamination. In addition, FDEP requested that groundwater samples be analyzed for the full Volatile Priority Pollutant (VPP) list of organic constituents.
- In 1996, RCI conducted additional investigations at the site and submitted a Contamination Assessment Report to the FDEP in March 1997. Fifty soil samples were collected from twenty-four locations on all sides of the property. Soil samples were obtained below the

level of the previous soil excavation in order to sample natural soils and not fill material. Conclusions of the 1996 CAR stated that lead concentrations in soil at the site are minimal and are not impacting groundwater quality. TCLP analytical results indicated that the lead detected at the site does not exhibit leaching characteristics. In addition, the CAR concluded that no definable area of TCE in the surficial soils exceeded the State of Florida guidance concentrations and no areas of the site are acting as continual sources of groundwater contamination. The CAR concluded that TCE in the surficial aquifer was delineated except on the western side of the property. RCI recommended including existing monitor wells located across Falkenburg Road on the Coastal Unilube property to aid in TCE delineation. TCE in the Floridan Aquifer was defined to the south and west and continued monitoring of MW-12 (area of highest concentration of TCE) was recommended. In neither the shallow or Floridan aquifers were cadmium, chromium, lead selenium nor sodium MCLs exceeded. RCI indicated that natural attenuation was occurring for the volatile organic constituents as the presence of TCE degradation products 1,2-dichloroethane, trans-1,2-dichloroethene and vinyl chloride.

After submittal of the 1997 CAR, the FDEP requested additional soil and groundwater assessment. In April 1998, Dames & Moore conducted additional soil and groundwater assessment and submitted a CAR in August 1998. Additional Floridan Aquifer monitor wells were installed and additional soil samples (the second such soil sampling) were obtained to characterize two areas of the site (north of the building and south of the building). Additional soil samples were obtained below the depth of the 1996 soil samples to further evaluate the presence of TCE in soils as a potential source of groundwater contamination. Results of the additional soil investigation indicated the TCE was not detected in any samples above the Soil Cleanup Target Level (SCTL) leaching standard of 0.03 mg/kg and was not present above the method detection limit of 0.025 mg/kg in any of the north side samples. Isolated areas of soil contamination on site were attributed to intermittent spills and leaks of lubricating oils and solvent from drums maintained by the present property owner. In order to further assess the horizontal and vertical extent of groundwater contamination, downgradient monitor wells on the Coastal Unilube property were sampled. Two new Floridan Aquifer monitor wells were installed on the adjacent CSX property right-of-way and four additional shallow monitor wells were installed. Two shallow wells were installed on site and two wells were installed on adjacent properties to the south and west. Hydraulic conductivity tests were performed to evaluate the transmissivity and groundwater flow

velocities of the shallow and Floridan aquifers beneath the property. Results of the groundwater assessment indicated that the extent TCE in groundwater was defined on three sides in the Floridan Aquifer and surficial aquifer. The CAR concluded that the inorganic constituent, lead, occasionally exceeds the MCL of 0.015 mg/l, however, some sampling events indicate lead below this level in all monitor well locations. Dames & Moore concluded that remedial measures to address lead in groundwater is not warranted. Dames & Moore recommended that another deep well be installed to delineate TCE in the Floridan Aquifer and preparation of a Remedial Action Plan to address treatment and removal of chlorinated hydrocarbons from the surficial and Floridan aquifers in the vicinity of the site.

- In April 1998, Dames & Moore conducted an interim remedial action for two areas of remaining lead impacted soil. The two areas were identified in the vicinity of soil samples NS-1 and NS-17 as presented in the 1995 CAR. These areas were located on the northern side of the building. NS-1 was located near the north drainage ditch and Falkenburg Road and NS-17 was located near the northeast corner of the building between monitor wells MW-1 and MW-10. A total of 112.4 tons of soil were excavated during the IRA. Dames & Moore prepared an Interim Remedial Action Report and submitted it to FDEP in December 1998.
- In comments prepared by the FDEP concerning the 1998 CAR and Interim Remedial Action Report, FDEP indicated that a thin zone (6" to 1') of soil with leachable levels of solvents "seems" to be present at the site. FDEP indicated that soil contamination should be addressed in a Remedial Action Plan or a demonstration be made that soils are not leaching in order to receive No Further Action for the soils on site. FDEP accepted the proposed downgradient monitor well to further delineate the TCE plume in the Floridan Aquifer, and requested that three off-site Floridan wells be included in future assessments. FDEP also requested that a deeper Floridan aquifer monitor well be installed on site to evaluate the deeper zone beneath the site. A Work Plan to address the additional groundwater assessment was requested. Dames & Moore prepared a work plan and conducted the additional assessment activities in February 2000. The results of the additional assessment are presented herein.

1.2 OBJECTIVES OF THE FEBRUARY 2000 INVESTIGATION

The objectives of the February 2000 investigation were to complete the delineation of the horizontal and vertical extent of TCE in the Floridan aquifer, to confirm previous soil analytical data for volatile organic constituents to determine if leachable concentrations exist, and to expand the off-site groundwater potable well survey and include additional off-site monitor wells in the assessment. To achieve this objective, Dames & Moore submitted a Work Plan for Field Activities, which was approved by the FDEP in September 1999. The Work Plan included installation of two additional Floridan Aquifer monitor wells, one on-site and one off-site in a downgradient location. The work plan included a comprehensive groundwater sampling event of twenty-two existing wells and the two newly installed Floridan wells. Additional off-site wells to be sampled included monitor wells MW-3 and MW-4 on the Coastal Unilube property, a production well located at Frito-Lay and an out of service private well located at 10114 Woodberry Drive. The work plan included collection of ten soil samples along the north side of the building to confirm TCE and other VOC concentrations in the unsaturated zone soils.

2.0 SITE INVESTIGATION

Field activities began on February 21, 2000. Monitor well installation was conducted by Diversified Drilling Company. Dames & Moore provided oversight during drilling activities and collected split spoon samples and samples of drill cuttings for geologic description.

A Site Health and Safety Plan was prepared and provided to all field personnel before commencement of fieldwork. Prior to initiating field and drilling activities, a health and safety meeting was held to answer all questions regarding work operations, potential site hazards, as well as emergency operating procedures, if required. All field activities followed a QAPP prepared for previous investigations at the site.

Property access agreements were again obtained from the adjacent properties prior to beginning fieldwork. Access to these properties has been imperative for this and previous investigations.

2.1 SOIL ASSESSMENT

The purpose of collecting and analyzing soil samples during the investigation was to determine whether a thin zone of soils on the north side of the building is a continuing source of TCE and other VOC constituents to the groundwater. Figure 3 shows the locations of all soil samples collected during this site investigation.

Ten soil samples were collected using a stainless steel split spoon. Soil sampling was conducted in accordance with ASTM (D) - 1586 Standard Method for Penetration Test and Split Barrel Sampling of Soils. Since portions of this area of the property had previously been excavated, two split spoons were driven at each sampling point providing a continuous soil profile to a depth of four feet below land surface. Dames & Moore visually inspected the soil to identify the depth of fill material, to describe the natural soil profile below the fill material, to look for indications of contamination, and to identify the depth to the saturated zone. A dark stained layer of soil was present in soil sample locations SS-4, SS-8 and SS-10. This stained layer was located within the 0"-6" interval and was sampled with the Encore sampler.

Soil samples were obtained at or below the fill/native soil interface at two depth intervals, 0"-6" and 6"-12". Soil samples were obtained using an Encore sampling device to ensure undisturbed samples and minimize loss of contaminants during transport to the laboratory. Samples were placed in a cooler on ice, logged on a chain of custody form and delivered to Savannah Laboratories in Tampa, Florida. Samples were analyzed for volatile priority pollutants (VPPs) and by the Synthetic Precipitation Leaching Procedure (SPLP). Samples from the 6"-12" interval was extracted and held prior to analysis pending results of the 0"-6" interval.

The split spoons and back of the drilling rig were decontaminated between sample locations. The decontamination procedure was as follows:

- Cleaned with heated water (steam cleaner);
- Cleaned with non-phosphate cleaner (Alconox or Liquinox);
- Rinsed with tap water;
- Rinsed thoroughly using deionized water;
- Rinsed twice using pesticide-grade or nanograde isopropanol; and
- Allowed to air dry as long as possible.

2.2 GROUNDWATER ASSESSMENT

Information previously obtained concerning groundwater characteristics in the surficial aquifer and Floridan Aquifer at the site included hydraulic conductivity data, groundwater flow data, groundwater classification, and the extent of contamination. Groundwater investigations were conducted in association with the contamination assessment in December 1996, June 1997 and April 1998. Evaluation of the data was presented in a Contamination Assessment Report (CAR) dated April 1998. Information presented in previous reports for the site indicated that the groundwater flow direction in the surficial aquifer is to the west/southwest and in the Floridan Aquifer it is to the northwest. The groundwater in the surficial aquifer was identified as G-II in the 1995 CAR. Hydraulic conductivity for the Floridan Aquifer and surficial aquifer was evaluated in the 1998 CAR. Hydraulic conductivity for the surficial aquifer was reported to range between 0.55 ft/day and 2/71 ft/day. The average transmissivity in the shallow aquifer was 15.36 ft2/day and the average flow velocity was 9.75 ft/year. The hydraulic conductivity for the Floridan Aquifer was reported to range between 1.71 ft/day to 5.89 ft /day. The average transmissivity for the Floridan Aquifer was 40/58 fts/day. The average flow velocity was 22.62 ft/year.

The horizontal and vertical extent of contamination at the site was evaluated in the 1998 CAR. Results indicated that TCE and its degradation products were detected in the surficial aquifer near the northwest corner of the building, on the southern side of the building, and near a drainage ditch on the southern portion of the property. TCE and its degradation products were detected in the Floridan Aquifer near the northwest portion of the building.

The purpose of this additional investigation was to further evaluate the horizontal and vertical extent of TCE contamination in the Floridan Aquifer and to evaluate current groundwater conditions in the surficial aquifer.

2.2.1 Groundwater Monitor Well Installation

Two new monitor wells were installed during this investigation. One well (MW-23) was designed to monitor the upper portion of the Floridan Aquifer in a downgradient location from the subject site. One well (MW-24) was designed to monitor a deeper portion of the Floridan

Aquifer beneath the site in an area with elevated concentrations of contaminants. Boring logs and well completion diagrams for the new wells are included in Appendix A.

At monitor well MW-24, the well boring was advanced through a 10.25-inch inside diameter hollow stem auger in order to place a ten-inch diameter surface casing. Continuous soil samples were obtained for lithologic description using a split spoon sampler. Schedule 40 PVC surface casing was installed several feet into the confining clay layer beneath the site in order to prevent potential migration of contaminants from the surficial aquifer to the Floridan Aquifer. The teninch diameter surface casing was installed to a depth of 28 feet. The surface casing was then secured by pumping neat cement grout through a tremmie pipe into the annular space between the casing and the side of the borehole, while simultaneously removing the 10.25-inch augers. The surface casing was then covered and secured in place for a period of at least 24 hours. After allowing the grout to harden, borings were then advanced through the casing using the mudrotary drilling method. The boring was drilled to a depth of 65 feet. A six-inch diameter surface casing was installed in order to prevent potential migration of contaminants to the deeper portions of the Floridan Aquifer. The six-inch casing was also grouted into place using neat cement. The well was drilled out to 70 feet bls after allowing the grout to cure for 24 hours. Five feet of two-inch diameter, 0.010-inch slotted schedule 40 PVC well screen and 65 feet of casing were placed into the borehole to complete the well. The annulus was backfilled around the screen with 20/30-grade silica sand to approximately four to five feet above the screened interval. A four-foot thick bentonite seal was placed above the sand pack and the remaining annulus was backfilled with neat cement.

The off-site monitor well MW-23 was installed similar to MW-24, however, the ten inch surface casing was not utilized. The boring was advanced to ten feet using a 10.25-inch inside diameter hollow stem auger. Continuous soil samples were obtained for lithologic description using a split spoon sampler. Mud rotary drilling was employed from ten feet to the total depth of the well. A six-inch diameter surface casing was placed in the borehole at a depth of approximately 30 feet. The surface casing was grouted into place. The grout was allowed to cure for 24 hours before drilling the remaining borehole. The borehole was drilled to approximately 55 feet and the well was completed with five feet of two-inch diameter, 0.010-inch slotted well screen and 50 feet of casing. A 20/30 grade silica sand pack was placed around the well screen and extended four to five feet above the top of the screen. A three to four foot thick layer of bentonite was then placed on top of the filter pack. The annular space between the bentonite and the

ground surface was then backfilled with neat cement grout. The surface completions consisted of a flush mounted well cover secured by a two-foot by two-foot concrete pad with a locking expansion well cap.

The newly installed Floridan aquifer monitor wells were developed by surging and overpumping in order to remove fine particles from the sand pack and assist in restoring the natural water quality of the aquifer in the vicinity of the well. Each of the wells was alternately surged and overpumped at an approximate rate of one gallon per minute. Pumping continued until the development water was relatively clear and free of fine sediment. Development water extracted from each of the wells was pumped into labeled 55-gallon drums for temporary storage on site, until off-site disposal could be arranged.

Upon completion of well installation activities, Mooney & Associates, Inc. surveyed the locations of the newly installed monitor wells, a State of Florida Registered land surveying company. The top of casing elevation of each well was surveyed from a benchmark referenced to mean sea level with a 0.01-foot degree of accuracy.

2.2.2 Groundwater Sampling

During the week of February 21, 2000, a comprehensive groundwater sampling event was conducted that included sampling all existing and newly installed monitor wells and off-site wells on the Coastal Unilube property, Frito Lay, Inc. and the former McCaffery residence at 10114 Woodberry Drive. All wells were sampled for total and dissolved aluminum, iron, lead, sulfates and total dissolved solids. In addition, samples obtained from all monitor wells were analyzed for the Volatile Priority Pollutants compounds by EPA Method 8260.

Each of the monitor wells was purged using a peristaltic pump and dedicated Tygon tubing. The wells were sampled using disposable Teflon bailers. Monitor well purging and sampling was conducted in accordance with the site Quality Assurance Project Plan (QAPP).

During purging, samples were monitored for pH, temperature, conductivity and turbidity. Records of these field measurements are included on the well sampling field data sheets included as Appendix E. Once these parameters had stabilized, samples were collected for metals, sulfates, total dissolved solids and VPPs. Following the same approved sampling procedure

employed during the December 1996 site assessment, samples requiring analysis for total and dissolved metals, as well as sulfates, were collected first using the peristaltic pump. A 1-micron filter was inserted inline with the peristaltic pump to collect the filtered samples for metals analysis. Once samples for these parameters had been obtained, the pump tubing was carefully removed from the well so as not to agitate the water column. Samples requiring PPV analysis were then collected using disposable Teflon bailers.

Groundwater samples collected for PPV analysis were placed in VOA vials preserved with hydrochloric acid. Samples requiring sulfate analysis were collected in 1/2-gallon plastic containers with no preservative, while those samples obtained for metals analysis were collected into 16-ounce plastic containers preserved with nitric acid. Groundwater samples were placed on ice in a cooler at 4°C, logged on a Chain-of-Custody form and were delivered to STL Savannah Laboratories in Tampa, Florida.

2.3 SAMPLING METHODOLOGY

Samples were submitted to STL Savannah Laboratories in Tampa, Florida for analysis. The methodology, handling, preservation and shipment of all samples were conducted in accordance with The STL Savannah Laboratories <u>Comprehensive Quality Assurance Plan</u>) May 1993, and applicable FDEP guidance documentation.

Prior to initiating any soil or groundwater sample collection activities, all sampling equipment was cleaned using the decontamination procedure described below. Decontamination at the site was conducted in a designated, properly contained area constructed specifically for that purpose. All liquid wastes associated with decontamination were collected and transferred to 55-gallon drums. These drums were labeled for proper storage and disposal. The sampling equipment, including hollow-stem augers, hand augers and split-spoon samplers, were decontaminated using the following procedure.

- Cleaned with heated water (steam cleaner);
- Cleaned with non-phosphate cleaner (Alconox or Liquinox);
- Rinsed with tap water;
- Rinsed thoroughly using deionized water;

- Rinsed twice using pesticide-grade or nanograde isopropanol; and
- Allowed to air dry as long as possible.

2.4 INVESTIGATION DERIVED WASTE

Investigation Derived Waste (IDW) handling and storage procedures followed those employed during previous site assessments. Decontamination water, soil auger cuttings, and monitor well development water were contained in 55-gallon drums. Each drum was labeled according to its contents. All of the drums were stored and properly maintained in a secured area located adjacent to the storm water retention pond in the southwest section of the property.

The collected and containerized wastes were sampled to characterize the waste for subsequent off-site disposal. Both the liquid and the solid IDW were analyzed for the same parameters as the groundwater and soil samples, respectively. Jamson Environmental of Tampa, Florida (Jamson) was contracted to properly dispose of the liquid and solid wastes. Analytical results characterized IDW as non-hazardous. The IDW were collected, manifested and disposed of at approved disposal facilities. Copies of the waste disposal manifests for these materials are included in Appendix E.

3.0 SITE GEOLOGY

The site geology was described in detail in the April 1998 CAR and cross sections were provided in that report. Additional information on the site geology was obtained during drilling of the two new Floridan monitor wells. Soil boring logs for the two new Floridan Aquifer monitor wells are presented in Appendix X. In general, the site is underlain by a ten to twenty foot thick surficial unit of unconsolidated fine-grained sands and clayey sands. Beneath the unconsolidated unit is a five to ten foot thick blue-green clay of the Hawthorn Group. The clay is underlain by a clayey sand or sandy clay which grades downward into a white weathered limestone. The depth to the limestone varies from approximately 28 feet to approximately 38 feet bls.

4.0 GROUNDWATER ELEVATIONS

4.1 SURFICIAL AQUIFER

On February 24, 2000, groundwater elevation measurements were obtained at all surficial and Floridan aquifer monitor wells. These water level measurements were then used to calculate potentiometric elevations in both water bearing zones. Table 1 summarizes these water level measurements, as well as surveyed top of casing elevations, well depths, and calculated water level elevations. The calculated water level elevations were used to construct the groundwater elevation contour maps included as Figures 4 and 5.

Water level measurements recorded on February 24, 2000, confirm that the groundwater flow direction in the surficial aquifer is predominantly toward the west-southwest. The change in groundwater elevation across the site is three to four feet, which equates to a hydraulic gradient of approximately 0.007 feet/foot.

4.2 FLORIDAN AQUIFER

Through the recent installation of MW-23 on the downgradient Extra Space Storage and MW-24 on the subject site, additional lithological information and groundwater analytical data from the deeper water-bearing zone are now available. Calculated groundwater elevations for MW-23 and MW-24, as well as the previously existing Floridan aquifer wells are included in Table 1. These elevations were used to construct the potentiometric map of the deeper aquifer included as Figure 5.

Groundwater elevation measurements obtained during February 2000 were used to evaluate to direction of groundwater flow in the Floridan Aquifer. Monitor well MW-24 was designed to monitor a deeper portion of the Floridan aquifer and was not used for contouring purposes. Monitor well MW-24 was installed adjacent to Floridan aquifer well MW-12. A potentiometric head difference of 4.37 feet was measured between these two wells. Recent groundwater measurements taken at the Floridan aquifer wells show that the flow direction in the deeper water bearing zone is toward the north-northwest. The difference in potentiometric head across the site is between two and three feet. This potentiometric head difference is equivalent to a gradient of 0.004 feet per foot, or less than one percent.

5.0 ANALYTICAL RESULTS

The principle criteria used to evaluate the analytical results for the soil samples collected during the February 2000 site investigation were the Soil Cleanup Target Levels established in Chapter 62-777 FAC (Contaminant Cleanup Target Levels).

The "leaching standards" of the Florida SCTLs have been applied to assess potential impacts from volatile organic concentrations detected in the surficial soils at this site. These leachability numbers are intended to be used as a screening mechanism for source removal evaluations, and as a "guidance" tool when concentrations of a contaminant of concern are also detected in the groundwater. GNB understands that these are default leachability numbers, and can, if it so elects, calculate a site-specific leachability number.

State of Florida Primary and Secondary MCLs were used to assess groundwater analytical data generated from the February 2000 investigation. Groundwater guidance concentrations as well as Groundwater Cleanup Target Levels (Rule 62-777) were also employed to evaluate the groundwater analytical results.

5.1 SOIL ANALYTICAL RESULTS

Table 4 summarizes the volatile organic analytical results for the soil samples obtained from the recent site investigation. The laboratory analytical report and chain of custody forms for the soil samples are included in Appendix B.

Based on the analytical results for the 0"-6" soil samples, none of the previously detected organic parameters were detected in the soil samples obtained during the February 2000 investigation. The method detection limit for vinyl chloride was above the leachability limit of 7.0 ug/kg, however it was well below the 62-785 FAC Direct Contact Industrial Exposure goal of 40 ug/kg. In addition, the soil sample SS-10 was diluted for analysis due to a high amount of organic compounds (other than VPPs) in the sample resulting in an elevated method detection limit of 1,000 ug/kg for most previously detected parameters (chloroform, cis-1,2-Dichloroethene, trans-1,2-dichloroethene, methylene chloride, and trichloroethene) and 2,000 ug/kg for vinyl chloride. These elevated detection limits for sample SS-10 were below their respective Direct

Contact Industrial Exposure goal with the exception of chloroform and vinyl chloride. Chloroform and vinyl chloride have not been detected in soils in previous investigations at the site, therefore, it is not likely that these constituents were present in soil sample SS-10. (In addition, vinyl chloride was not detected in the two closest wells to this sample location, MW-1 and MW-10.) No other Method 8260 volatile constituents were detected in the soil samples obtained during this investigation. Since no method 8260 constituents were detected in the 0"-6" interval, the 6"-12" interval was not analyzed.

5.2 GROUNDWATER ANALYTICAL RESULTS

The groundwater analytical results for the February 2000 investigation are summarized in Tables 2 and 3. Laboratory analytical reports and chain-of-custody forms are included in Appendix C. Groundwater field data collection sheets are included in Appendix D. The State of Florida Guidance Concentration Levels, the Cleanup (Rule 62-777) standards, as well as the Primary and Secondary MCLs for G-II aquifers were employed to evaluate groundwater analytical results obtained at the former GNB facility.

5.2.1 Metals/Inorganic Analysis

The groundwater samples from the surficial aquifer and Floridan Aquifer were analyzed for total and dissolved aluminum, iron, and lead, and sulfates.

Lead

Concentrations of total lead above the Primary MCL of 0.015 mg/l were detected at two monitor wells. These samples were obtained from MW-2 (0.075 mg/l), and MW-23 (0.21 mg/l). Analytical results for dissolved lead from these two samples were below the MCL, and below the detection limit of 0.005 mg/l.

Aluminum

Secondary MCLs were used to evaluate the analytical results for total and dissolved aluminum (0.2 mg/l), and total and dissolved iron (0.3 mg/l). The MCL for aluminum was exceeded in unfiltered samples from sixteen of 26 wells. The concentration of total aluminum ranged between 0.24 mg/l (MW-4) and 110 mg/l (MW-23). The MCL for dissolved aluminum was

exceeded in twelve filtered samples. The concentration of dissolved aluminum ranged between 0.22 mg/l (MW-8 and MW-10) and 76 mg/l (MW-11).

Iron

The MCL for iron (0.3 mg/l) was exceeded in nineteen unfiltered samples. The total iron concentration ranged between 0.36 mg/l (MW-3 C.U.) and 67 mg/l (MW-23). The concentration of dissolved iron also exceeded the MCL in nineteen filtered samples and ranged between 0.31 mg/l (MW-13 and MW-16) and 75 mg/l (MW-8).

Sulfates

The secondary groundwater MCL for sulfate is 250 mg/l. This level was exceeded at four of the 26 wells sampled for sulfate. These exceedances occurred in the samples from MW-2 (410 mg/l), MW-9 (730 mg/l), MW-11 (730 mg/l) and at MW-23 (340 mg/l).

<u>pH</u>

Field pH measurements in the surficial aquifer monitor wells ranged from 3.54 (MW-11) to 6.29 (MW-10). Field pH measurements in the Floridan aquifer monitor wells ranged from 6.90 (MW-12) and 11.33 (MW-15). This again demonstrates the slightly depressed (acidic) pH condition in the surficial aquifer.

5.2.2 Organics Analysis

A summary of the groundwater analytical data is included in Table 3. The laboratory analytical reports and chain of custody forms for the groundwater samples are included in Appendix C. Isoconcentration contour maps for TCE in the surficial and Floridan Aquifers at the subject property are shown on Figures 6 and 7.

The February 2000 sampling event confirms that TCE and its degradation products are present in the surficial and deeper water bearing zones at the former GNB site. Analytical results for the groundwater samples indicated that trichloroethene and several degradation products were detected in groundwater at the site. Trichloroethene (TCE) was detected above the maximum contaminant level of 3.0 µg/l in the samples from nine wells. TCE was detected in the samples collected from monitor wells MW-2 (15 µg/l), MW-3A (32 µg/l), MW-6 (17 µg/l), MW-9 (21 µg/l), MW-11 (22 µg/l), MW-12 (80 µg/l), MW-17 (23 µg/l), MW-18 (9 µg/l), and MW-20 (160 µg/l). The TCE concentrations detected in these nine wells did not exceed the Natural

Attenuation Default Concentration (NADC) of 300 μ g/l. Monitor wells MW-12 and MW-18 were the only Floridan Aquifer monitor wells that had detectable concentrations of TCE. The method detection limits for TCE for monitor wells MW-3 (C.U.) (150 μ g/l) and MW-4 (C.U.) (15 μ g/l) were elevated above the MCL of 3.0 μ g/l but were below the NADC of 300 μ g/l. The Coastal Unilube site was a previous oil distributor and has had documented contamination not associated with the GNB site.

Cis-1,2-Dichloroethene was detected above the MCL of 70 μ g/l in samples collected from two wells, MW-20 (350 μ g/l) and MW-4 C.U. (740 μ g/l). MW-4 (C.U.) is located across Falkenburg road to the west of the subject site. The concentrations of cis-1,2-dichloroethene detected in the on-site monitor well MW-20 did not exceed the NADC of 700 μ g/l. The NADC was exceeded in the sample from the off-site well MW-4 C.U. The method detection limit for this parameter was elevated (250 μ g/l) for the sample from MW-3 (C.U.) and was above the MCL of 70 μ g/l but less than the NADC of 700 μ g/l.

Vinyl chloride was detected above the MCL (1.0 ug/l) in samples obtained from seven on-site monitor wells and one off-site well. Vinyl chloride was detected in the samples from MW-2 (21 μ g/l), MW-6 (19 μ g/l), MW-8 (140 μ g/l), MW-9 (37 μ g/l), MW-11 (31 μ g/l) MW-18 (19 μ g/l), MW-20 (16 μ g/l), and MW-4 (C.U.) at 190 μ g/l. The concentration of vinyl chloride exceeded the NADC of 100 μ g/l in the samples from monitor wells MW-8 and MW-4 (C.U.). The MDL for vinyl chloride for sample MW-3 (C.U.) was elevated (50 μ g/l) above the MCL of 1.0 μ g/l but was below the NADC of 100 μ g/l.

Bromodichloromethane was detected above the GWCTL of 0.6 μ g/l in one well, MW-24 at 8.4 μ g/l. The method detection limit for bromodichloromethane was 5.0 μ g/l for all on-site wells, which is above the MCL of 0.6 μ g/l but less than the NADC of 60 μ g/l. The MDLs for off-site wells MW-3 (C.U.) was 250 μ g/l and for MW-4 (C.U.) was 25 μ g/l, which were above either the GWCTL (60 μ g/l) or the NADC (0.6 μ g/l) for this parameter.

Ethylbenzene was detected in the sample obtained from one off-site monitor well MW-3 C.U. at 2,400 μ g/l, which is greater than the MCL of 700 μ g/l but less than the NADC of 7000 μ g/l. Ethylbenzene was not detected in any of the on-site monitor wells.

Compounds previously detected in groundwater samples obtained at the site included carbon disulfide, chloroform, 1,1-dichloroethane, 1,1-dichloroethene, methyl isobutyl ketone and toluene. These compounds were not detected in the groundwater samples obtained during the February 2000 sampling event.

No other contaminants were detected above the MCL or NADC in the onsite monitor wells. Some parameters were present above the method detection limit but were below their respective MCL, NADC or GWCTL. The compounds include: trans-1,2-dichloroethane, which was detected in monitor wells MW-6 (9.5 μ g/l), MW-8 (5.1 μ g/l), MW-9 (8.4 μ g/l), MW-12 (46 μ g/l), MW-18 (7 μ g/l), MW-20 (19 μ g/l) and MW-23 (5 μ g/l). Cis-1,2-dichloroethane was also present in several wells in concentrations greater than the MDL but less than the MCL, NADC or GWCTL. Cis-1,2-DCA was present in the samples from monitor wells MW-2 (21 μ g/l), MW-3A (14 μ g/l), MW-4 (25 μ g/l), MW-7 (6.1 μ g/l), MW-11 (35 μ g/l), MW-12 (28 μ g/l), MW-13 (6.9 μ g/l), MW-14 (34 μ g/l), MW-15 (6.3 μ g/l), MW-17 (43 μ g/l), MW-18 (15 μ g/l) and MW-23 (19 μ g/l). The method detection limit for off-site wells MW-3 (C.U.) and MW-4 (C.U.) was elevated above the MCL or GWCTL or NADC for the other 8260 parameters.

5.3 DATA ANALYSIS

5.3.1 Soils

Based on the most recent analytical data and historical data presented in the 1998 and 1997 CAR's, it does not appear that a source of TCE contamination exists in surficial soils on the north side of the site. TCE or other organic compounds were not detected in any soil samples obtained during this investigation. An unknown organic compound was present in the sample from the northeast corner of the building (SS-10), which resulted in an elevated method detection limit for all the method 8260 parameters in that sample. Based on this analytical data and the appearance of stained soil observed at this location, it appears that the organic compounds detected at soil sample location SS-10 may be the result of activities conducted by the current tenant of the property, such as spills of lubricating oils or grease associated with the heavy equipment currently used on site.

5.3.2 Groundwater

Based on the recent groundwater analytical data, the concentrations of TCE on the subject site are consistent with previous analytical data presented in the 1998 CAR. The extent of TCE present above the MCL of 3.0 µg/l is delineated in the surficial aquifer on all sides and appears to be limited to the area of the subject property. In addition, TCE concentrations have decreased from 1998 levels in six of ten wells in which it was detected. The concentration of TCE increased in one deep well (MW-12) and remained the same or increased slightly in three shallow wells (MW-3A, MW-11, and MW-20). The concentration of cis-1,2-DCE increased in three of the four deep wells in which it was detected and increased in four of ten shallow wells with the largest increases at monitor wells MW-6, MW-8 and MW-9. The concentration of cis-1,2-DCE decreased in one deep well (MW-18) and eight shallow wells. The overall decreases in TCE concentrations and increases in cis-1,2-DCE, and trans-1,2-DCE in groundwater indicate that some degradation is occurring. TCE concentrations detected at the downgradient Coastal Unilube property across Falkenburg Road do not appear to be related to migration of contaminants from the subject site. TCE concentrations at the Coastal Unilube property have historically been orders of magnitude higher than those on the subject property. obtained from the Coastal Unilube property during the February 2000 sampling event had elevated method detection limits for TCE and vinyl chloride.

Concentrations of dissolved aluminum that exceeded the primary MCL in the surficial aquifer appeared to be higher along the northern property boundary and highest around monitor wells MW-11, MW-9 and MW-2. Concentrations of dissolved iron that exceeded the secondary MCL were present in all surficial wells except those located on the eastern property boundary and northeastern corner of the property (MW-1, MW-7 and MW-10). It appears the presence of iron in the shallow aquifer is naturally occurring. Dissolved lead was not detected in any of the surficial aquifer wells. Sulfates in concentrations that exceeded the secondary MCL were detected primarily in wells located in the northwestern portion of the property, specifically monitor wells MW-2, MW-9, and MW-11. The concentrations of metals and sulfates have historically been related to depressed pH levels in the area of the site where the wastewater pretreatment facility and acid neutralization tanks were located. Elevated concentrations of metals also appear to be limited to the surficial aquifer.

Detectable concentrations of TCE in the upper Floridan Aquifer are limited to the northwest portion of the property. The nearest off-site Floridan Aquifer monitor well (MW-18) had concentrations of TCE above the MCL. The horizontal extent of TCE contamination in the upper Floridan Aquifer has been delineated on the north, east and west but may extend underneath the building on site towards the south. The vertical extent of contamination has been delineated with the deepest (70') on-site well (MW-24) exhibiting no detectable concentrations of the 8260 constituents.

6.0 CONCLUSIONS

Based on analysis of the recent and historical data obtained at the GNB Falkenburg Road site, the following conclusions are presented:

- Investigations began at the property in 1986 prior to the sale of the site by Pacific Chloride to JFI Land Corporation. Results of the initial assessment indicated lead contamination of soils near the former on-site wastewater treatment plant.
- Additional investigation in 1988 included soil, surface water and groundwater samples. Lead
 impacted soils were delineated. Further groundwater investigation was recommended. A
 soil excavation was conducted to remove soil with lead concentrations greater than 500
 mg/kg and over 180 soil samples were obtained to confirm that previous soil remediation
 goals were achieved.
- Additional assessment and removal of lead impacted soil was conducted after approval of the
 Quality Assurance Project Plan in 1994. Soil samples were also analyzed for Volatile
 Priority Pollutants and trichloroethene was detected in four soil samples obtained on the
 north side of the building. Lead in soil did not exceed the EP Toxicity Level and TCE in soil
 did not appear to be impacting groundwater. Dissolved metals were not detected in
 groundwater above the MCLs. TCE, dichloroethene, and vinyl chloride were detected
 slightly above the MCLs in several groundwater samples. Additional groundwater
 monitoring was recommended.
- In 1996, at FDEP's request, additional soil investigation was conducted and additional downgradient monitor wells were installed. Results of the soil investigation indicated that

lead was not present in leachable concentrations and no areas of soil with TCE concentrations greater than soil cleanup guidance concentrations (residential or industrial) were present on the site. The extent of TCE in shallow groundwater was delineated on the north, east and south and continued monitoring of the shallow and Floridan Aquifers was recommended.

- FDEP requested additional soil and groundwater assessment after submittal of the 1997 CAR. Additional Floridan Aquifer monitor wells and additional soil samples were obtained to characterize the north and south sides of the property and to further evaluate the presence of TCE in soil as a potential source of groundwater contamination. Results of the additional soil investigation indicated that TCE was not detected above the Soil Cleanup Target Level leaching standard or above the laboratory method detection limit in any of the soil samples obtained. Other VPP compounds were also not detected above the leachability goal for each compound. Two areas of remaining lead impacted soil were excavated in 1998. Results of the additional groundwater assessment indicated that the extent of TCE in shallow and deep groundwater was defined on three sides and an additional downgradient Floridan Aquifer monitor well should be installed. Groundwater flow direction and hydraulic conductivity were assessed at this time. Results indicated that groundwater flow in the surficial aquifer was to the west/southwest and groundwater flow in the Floridan aquifer was to the northwest.
- After submittal of the 1998 CAR, FDEP indicated that a thin zone of soil with leachable levels of solvents "seems" to be present at the site. FDEP indicated that soil contamination should be addressed in a Remedial Action Plan or a demonstration be made that soils are not leaching in order to receive No Further Action for the soils on site. FDEP also requested that a deeper Floridan Aquifer monitor well be installed to evaluate downward migration of contaminants on the north side of the property. A Work Plan to address the additional groundwater and soil investigation was prepared.
- Dames & Moore conducted additional assessment activities in February 2000. Results of this additional soil assessment indicated that no volatile priority pollutant compounds (including TCE and other compounds previously detected in soils at the property) were detected above the leachability goals or method detection limits for those compounds. One exception to this was at soil sample SS-10 which had an elevated method detection limit due to a high amount of organic compound(s) (other than VPPs) in the sample. The organic compound(s) are likely the result of spills or leaks of lubricating oils or grease utilized on site by the current

property tenant. Dames & Moore evaluated the groundwater results for the two wells that are in closest proximity to the soil sample SS-10 and results indicated that no VPP compounds were detected in these wells, indicating that the organic compounds detected at SS-10 are also not leaching into groundwater in the vicinity.

- Results of this additional groundwater assessment indicated that concentrations of total and dissolved aluminum and iron were present above the MCL in numerous samples across the site, and their presence appears to be a naturally occurring background condition. Dissolved lead was not detected in any groundwater samples.
- Volatile Priority Pollutant compounds that were detected in shallow or deep groundwater samples above the MCL included TCE (detected in nine wells), cis-1,2-dichloroethene (detected in one on site and one off site well), vinyl chloride (detected in seven on-site wells and one off-site well), bromodichloromethane (detected in one well), and ethylbenzene (detected in one off-site well).
- The Natural Attenuation Default Concentration for vinyl chloride was exceeded in the on-site groundwater sample obtained from monitor well MW-8. No other parameters detected in groundwater at the site exceeded their respective NADCs. The NADC for cis-1,2-dichloroethene was exceeded in the off-site well (MW-4 C.U.).
- The concentration of TCE has decreased in six of ten wells in which it has been historically detected. The extent of TCE in the surficial aquifer has been delineated on all sides and appears to be limited to the area of the subject property, but appears slightly off-site to the south of the property. The extent of TCE in the Floridan Aquifer has been delineated and extends slightly off site to the northwest. In comparison to the analytical results presented in the 1998 CAR, the concentration of TCE increased on one deep well (MW-12) and remained the same or increased slightly in three shallow wells (MW-3A, MW-11 and MW-20).
- The vertical extent of TCE has been delineated with the deepest (70') on site well (MW-24) exhibiting no detectable concentrations of the method 8260 constituents.
- The concentration of cis-1,2-DCE increased in four deep wells and four shallow wells, while it decreased in one deep well and eight shallow wells.

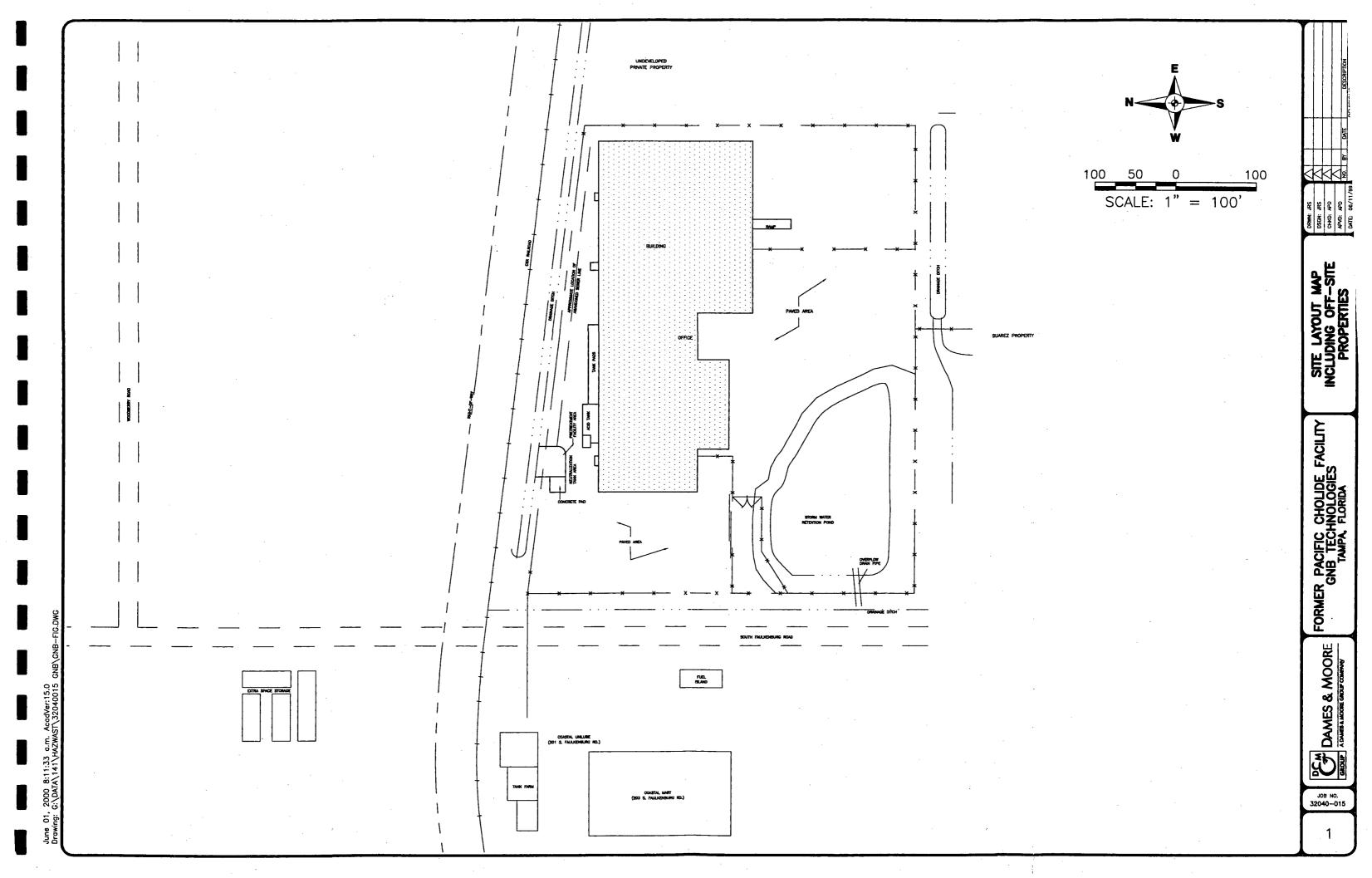
• Trans-1,2-dichloroethane was detected below the MCL for that compound in seven wells indicating that natural degradation of TCE and cis-1,2-DCE is occurring.

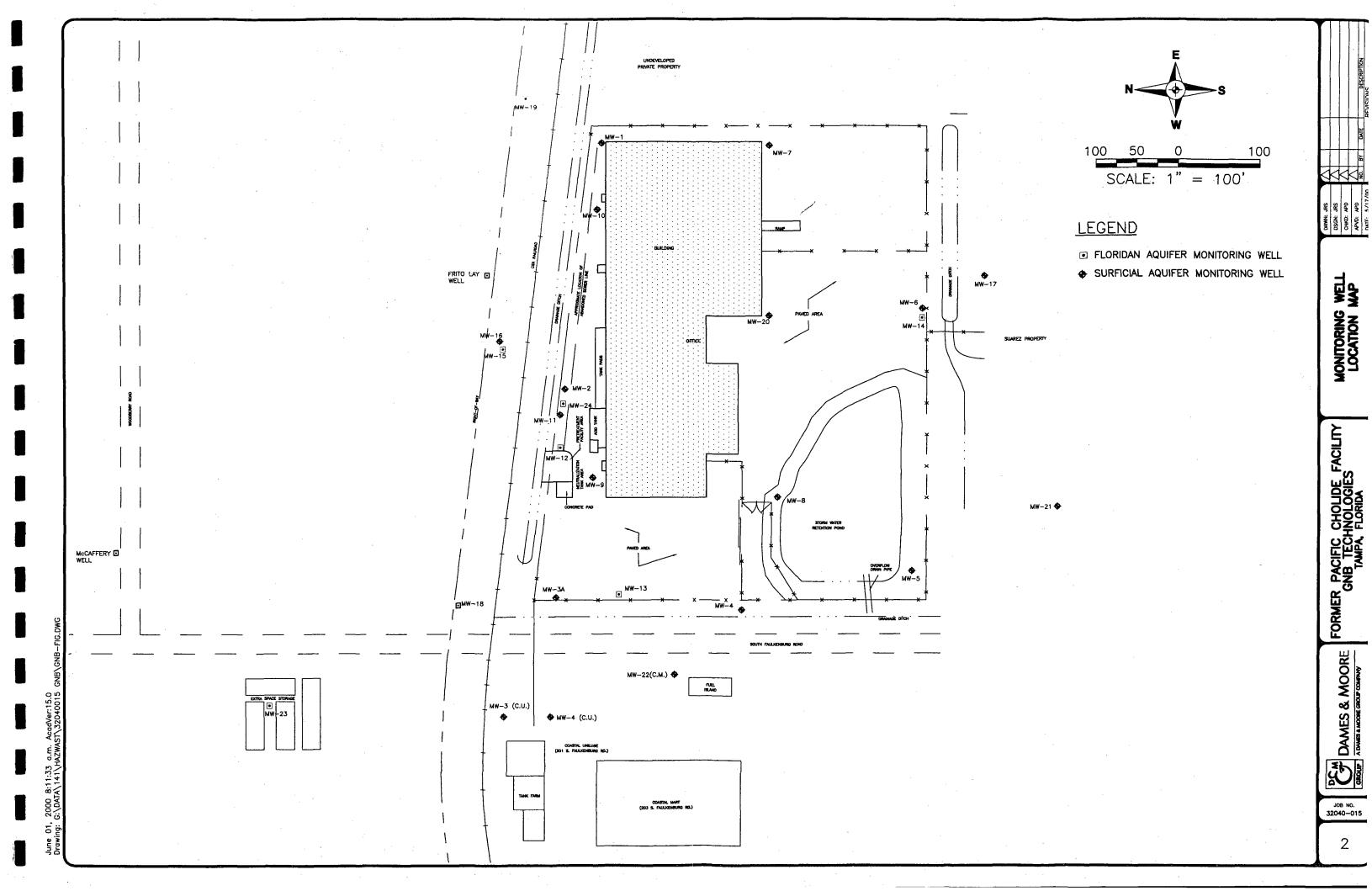
7.0 RECOMMENDATIONS

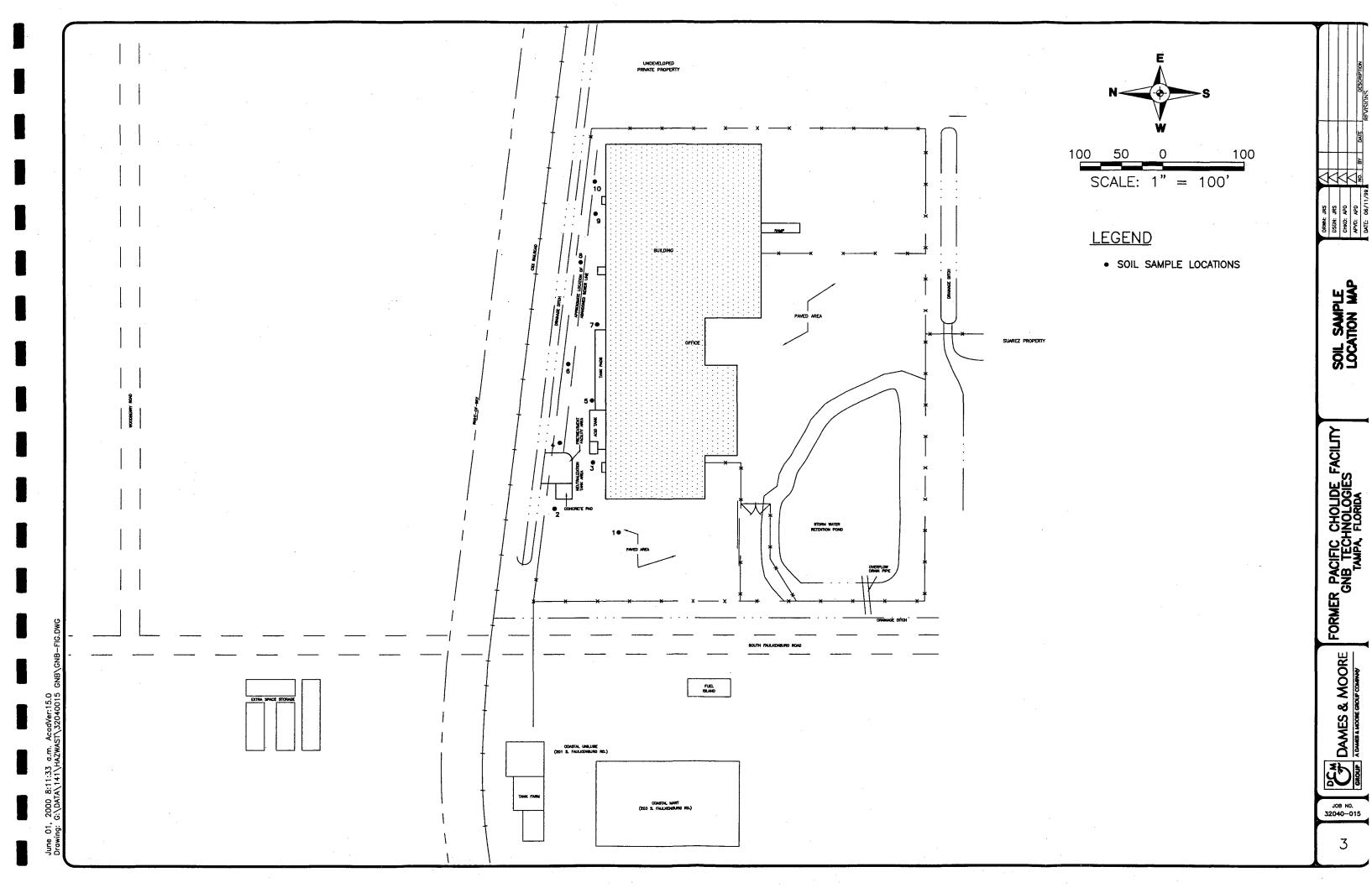
Based on the analytical results recently obtained, as well as the information collected during the 1996 and 1994 site investigations, GNB recommends that the following measures be conducted:

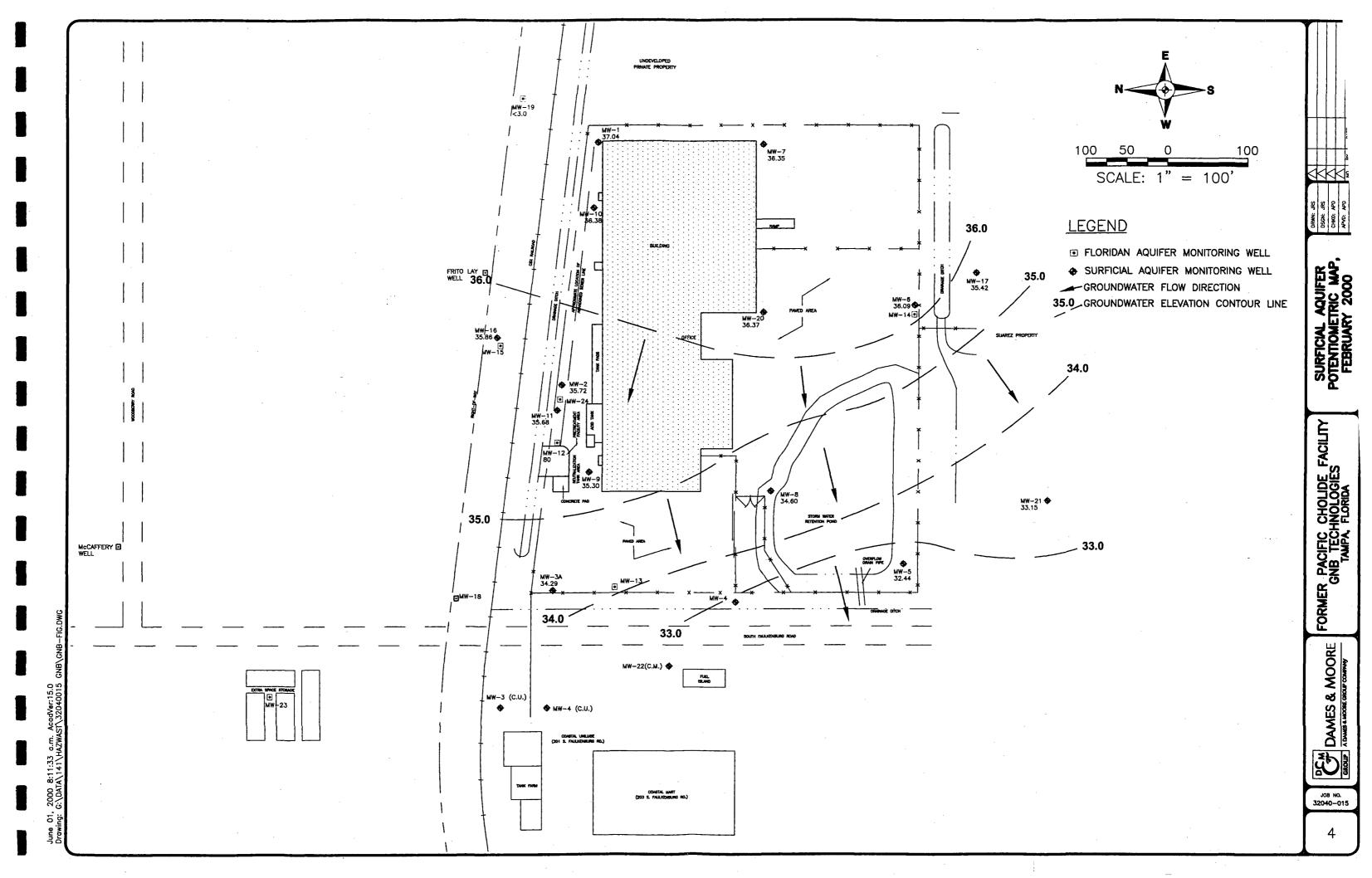
- (1) A Remedial Action Plan (RAP) will be prepared to address the chlorinated hydrocarbons from both the surficial and Floridan aquifers in the vicinity of the site.
- (2) Dames & Moore recommends that no further soil assessment be conducted unless deemed necessary as part of the proposed groundwater remediation program.

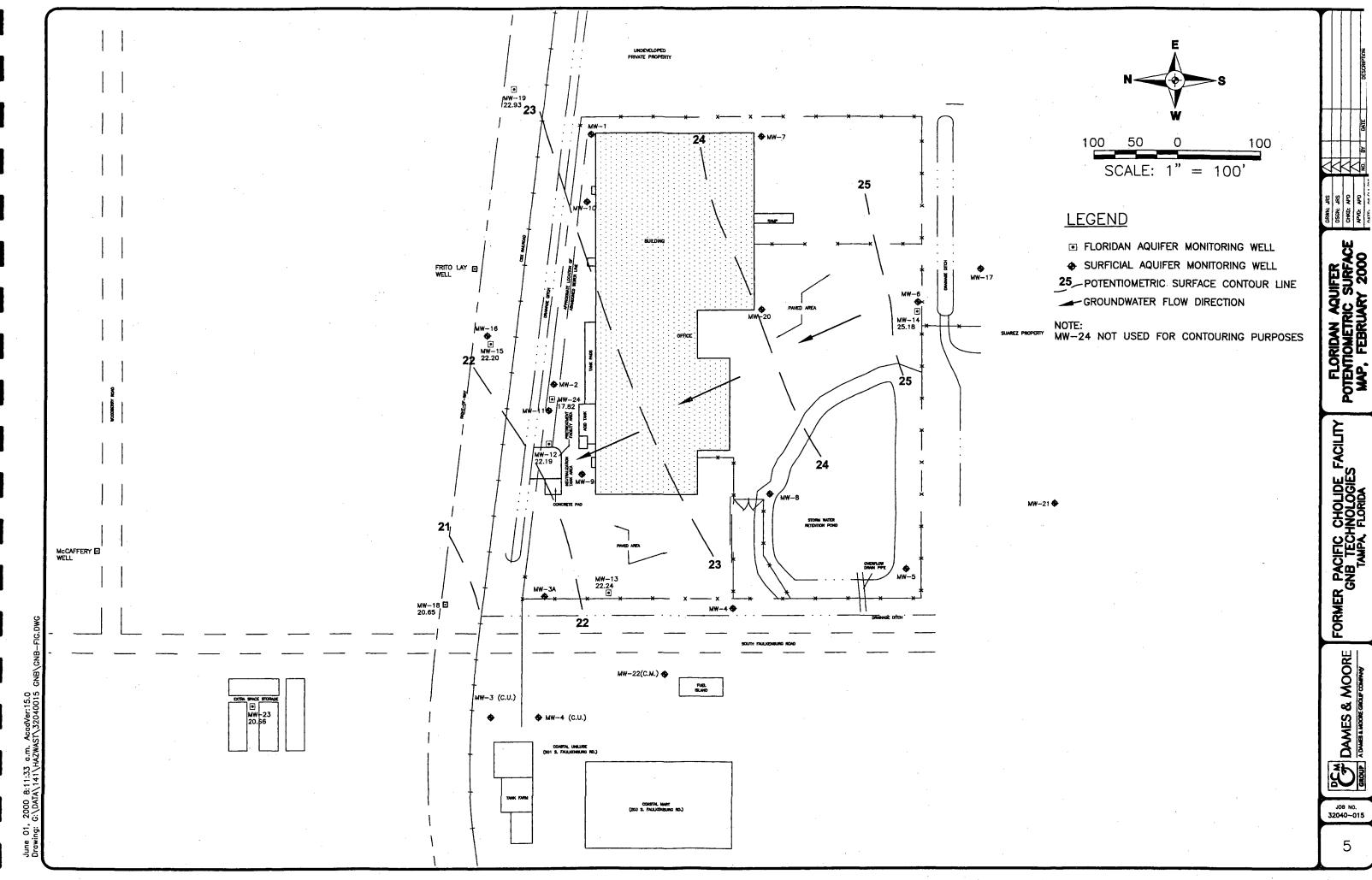
FIGURES

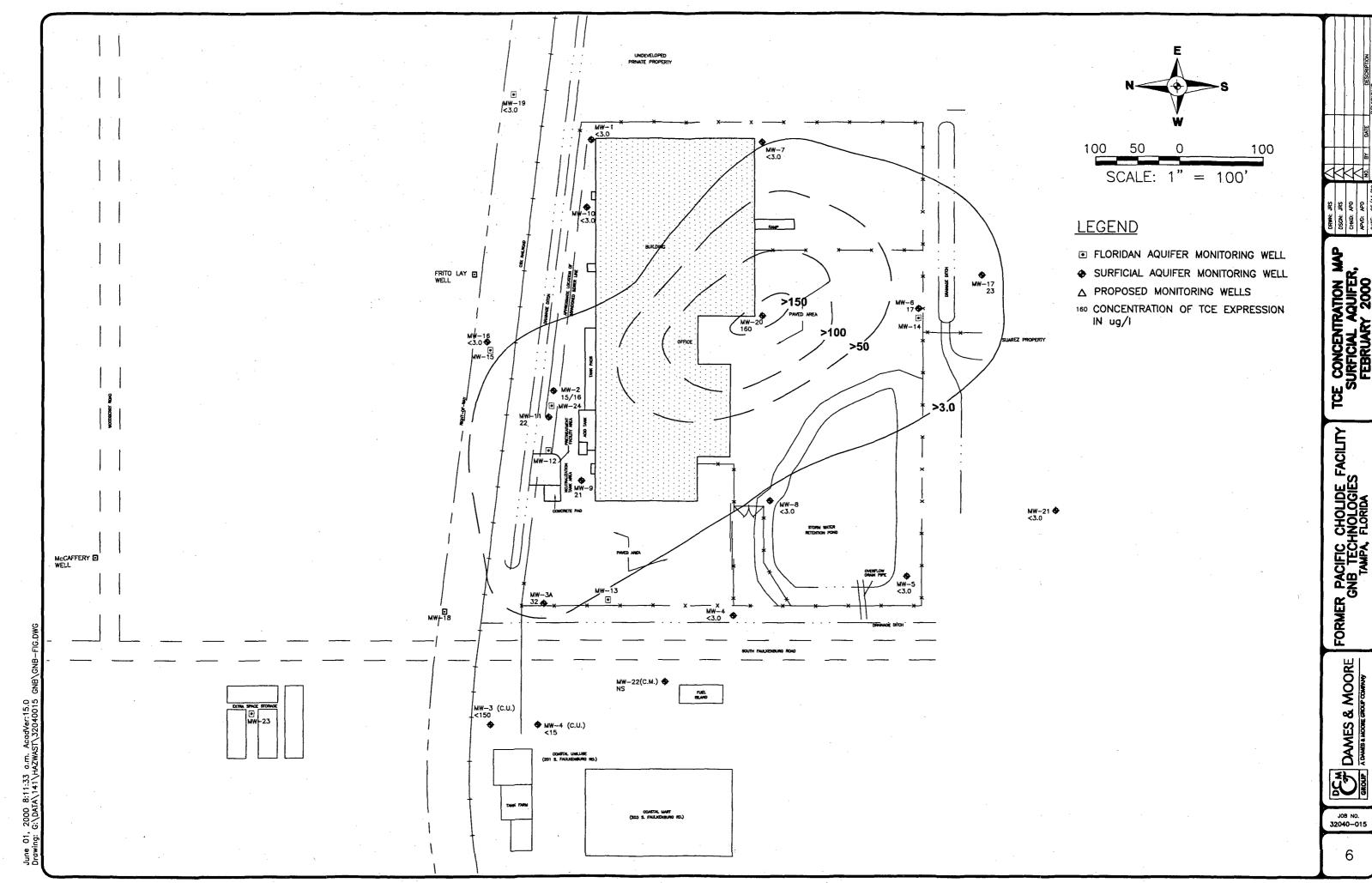












DAMES & MOORE

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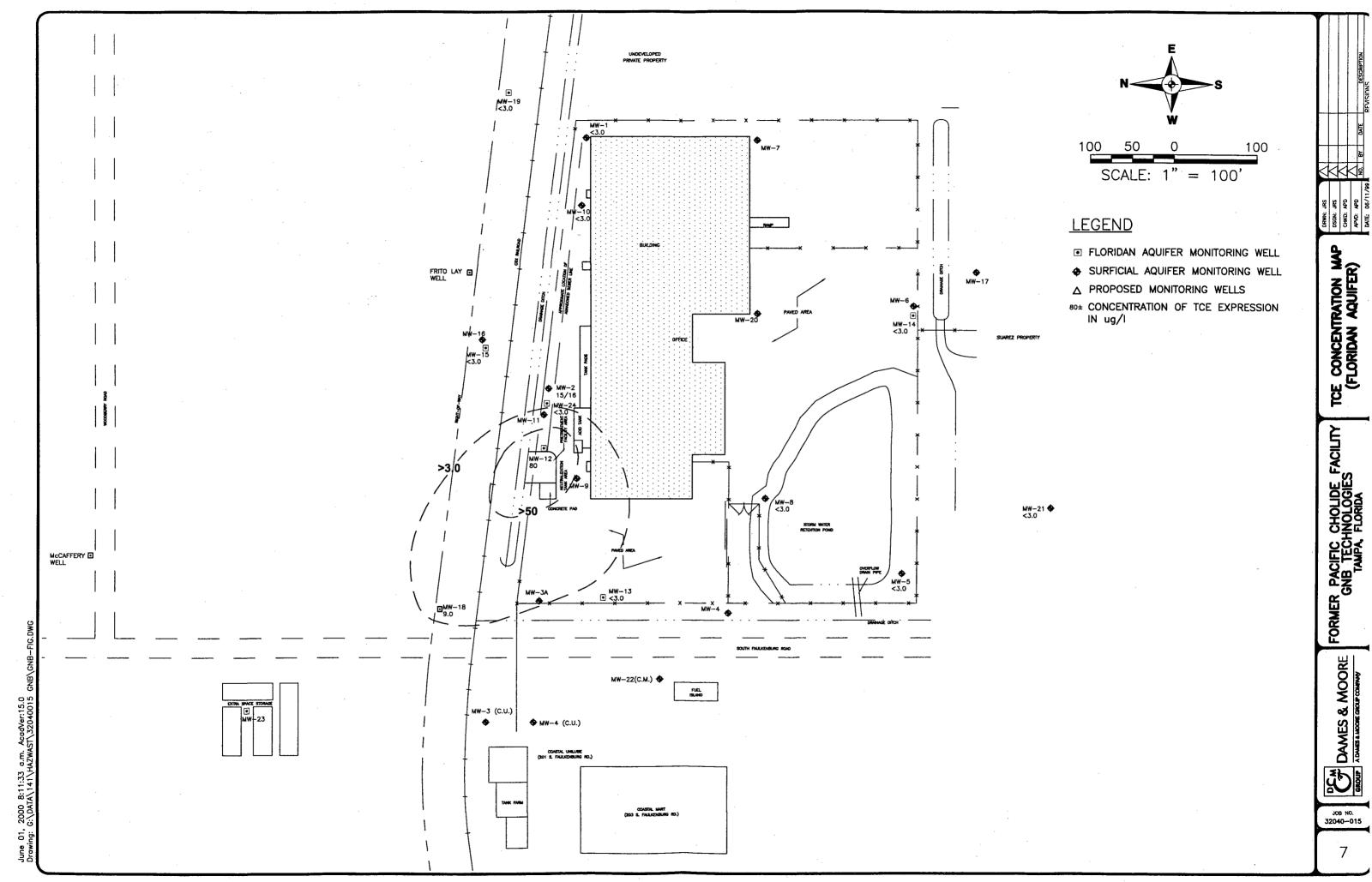


TABLE 1
GROUNDWATER ELEVATIONS
FORMER GNB FACILITY
200 South Falkenburg Road
Tampa, Florida

	Top of			Water
Monitoring		Well Depth	Water	Level
Well	Elevation	(ft)	Level (ft)	Elevation
	(ft.)			(ff)
MW-1	41.00	18.84	3.96	37.04
MW-2	40.01	10.27	4.29	35.72
MW-3A	39.48	14.35	5.19	34.29
MW-4	40.27	11.42	7.29	32.98
MW-5	39.66	18.79	7.22	32.44
MW-6	40.11	11.31	4.02	36.09
MW-7	40.17	14.58	3.82	36.35
MW-8	40.17	14.38	5.57	34.60
MW-9	40.23	14.58	4.93	35.30
MW-10	40.73	14.55	4.35	36.38
MW-11	39.72	14.39	4.04	35.68
MW-12 *	39.67	37.32	17.48	22.19
MW-13 *	39.87	37.21	17.63_	22.24
MW-14 *	39.75	41.34	14.57	25.18
MW-15 *	39.63	42.41	17.43	22.20
MW-16	39.84	14.46	3.98	35.86
MW-17	40.12	14.76	4.70	35.42
MW-18 *	39.75	42.31	19.10	20.65
MW-19 *	42.29	49.41	19.36	22.93
MW-20	40.02	14.40	3.65	36.37
MW-21	38.58	14.82	5.43	33.15
MW-22 (C.M.)	38.52	14.75	NA	NA
MW-23	39.36	51.26	18.70	20.66
MW-24	38.20	78.49	20.38	17.82

NOTE: Water levels measured on February 24, 2000.

NA - Water level was not recorded at MW-22 (C.M.). - Dry -

^{*} Floridan aquifer monitoring wells.

TABLE 2 ANALYTICAL SUMMARY TABLE INORGANIC GROUNDWATER RESULTS^A

FORMER GNB FACILITY

200 SOUTH FALKENBURG ROAD

TAMPA, FLORIDA

					Alun	ninum	Iron		Li	ead			
Location	pH	Temp.	Conductivity umbos	Turbidity (NTU)	Total	Diss.	Total	Diss.	Total	Diss.	Sulfates	Total Dissolved Solids	Dissolved Oxygen
MW - 1	4.07	71.3	42	0.53	1.8	2.1	<0.05	<0.05	<0.005	<0.005	84	260	9.5
MW - 2	3.59	72.2	99	2.51	22	24	11	12	<0.005	<0.005	410	870	4.3
MW - 3A	5.13	72.3	575	24.9	1.8	1.2	9.5	9.6	<0.005	<0.005	230	460	9.1
MW - 4	5.58	73.4	190	2.31	0.24	0.85	8.5	1	0.075	<0.005	18	130	17.6
MW - 5	5.59	75.4	14	0.66	<0.2	<0.2	0.4	0.45	<0.005	<0.005	<5.0	76	22.8
MW-6	5.60	70.7	196	0.85	0.69	<0.2	0.076	0.84	<0.005	<0.005	11	110	9.7
MW - 7	5.15	75.6	316	1.44	0.61	0.56	0.58	0.12	<0.005	<0.005	55	240	7.2
MW - 8	5.67	67.1	262	87.8	1.1	0.22	3.2	75	<0.005	<0.005	<5.0	150	9.0
MW - 9	5.08	71.7	132	137	60	35	20	20	<0.005	<0.005	730	1,200	5.9
MW - 10	6.29	73.1	12	3.39	0.24	0.22	0.074	<0.05	<0.005	<0.005	<5.0	110	10.4
MW - 11	3.54	74.7	136	130	85	76	16	17	<0.005	<0.005	730	1,300	7.0
MW - 12	6.90	84.5	920	0.95	<0.2	<0.2	0.16	<0.2	0.008	<0.005	170	580	7.6
MW - 13	7.54	78.0	342	0.66	<0.2	<0.2	0.2	0.31	<0.005	<0.005	14	210	7.9
MW - 14	10.65	77.6	417	30.2	<0.2	0.2	0.91	<0.05	<0.005	<0.005	7.5	140	10.3
MW - 15	11.33	76.0	165	4.06	0.59	0.66	0.17	<0.05	<0.005	<0.005	27	470	11.9
MW - 16	5.86	72.0	46	4.66	<0.2	<0.2	0.12	0.31	<0.005	<0.005	73	330	5.9
MW - 17	4.87	72.1	25	0.38	<0.2	<0.2	1.6	1.6	<0.005	<0.005	55	150	11.5
MW - 18	7.15	78.1	51	1.19	<0.2	<0.2	0.38	0.36	<0.005	<0.005	11	240	12.6
MW - 19	7.30	82.0	47	1.19	<0.2	<0.2	0.16	<0.2	<0.005	<0.005	<5.0	260	13.4
MW - 20	5.60	70.2	496	3.52	0.4	<0.2	8.5	9.7	<0.005	<0.005	120	330	
MW - 21	4.85	78.8		1.10	1.8	0.87	0.99	0.48	<0.005	<0.005	36	120	23.8
MW - 22 (C.M.)	Dry			,									
MW - 3 (C.U.)	5.73	75.4	25	0.62	<0.2	<0.2	0.36	0.37	<0.005	<0.005	42	170	6.1
MW - 4 (C.U.)	6.22	76.6	69	30.8	0.47	<0.2	13	12	<0.005	<0.005	90	400	29.2
MW-23	8.46	85.7	1,157	NM	110	<0.20	67	<0.092	0.21	<0.0050	340	1,000	17.8
MW-24	7.82	78.2	94	3.46	44	0.26	0.61	<0.050	<0.0050	<0.0050	110	460	12.1
Dup (MW-?)													
Frito Lay	7.39	76.2	54	3.49	<0.2	<0.2	0.64	0.59	<0.005	<0.005	15.0	270	23.0
McCaffery	7.54	86.1	408	3.02	<0.2	<0.2	3.7	2.8	0.013	<0.005	<5.0	210	11.8
Equip. Blank					<0.2	<0.2	<0.05	<0.005	<0.005	<0.005	<5.0	<5.0	

^A All groundwater analyses reported as mg/L or ppm, unless noted otherwise. pH - Expressed in standard units

ND - Not Detected

NM - Not Measured

NA - Not Analyzed

ANALYTICAL SUMMARY TABLE ORGANIC GROUNDWATER RESULTS

FORMER GNB FACILITY 200 SOUTH FALKENBURG ROAD TAMPA, FLORIDA

Sample Location	NADC	GWCTL	MCL	MW-1		MW-3A	MVV-4	MW-5	MVV-6	MVV-7	NIVI-8	MW-9			MW-12
Sampling Date				2/23/00	2/23/00	2/22/00	2/22/00	2/24/00	2/21/00	2/21/00	2/21/00	2/23/00	2/23/00	1 Z/Z 3/00	2/22/00
Method 8260 Volatiles															
Acetone	7000	700		<50.0	<50,0	<50.0	<50.0	<50.0	<50.0	<50.0	<50.0	<50.0	<50.0	<50.0	<50.0
Bromodichloromethane	60	0.6		<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0
Carbon Disulfide	7000	700		<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0
Chloroform	570	5.7		<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0
1,1 - Dichloroethane	700	70		<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0
1,1 - Dichloroethene	700		7	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0
cis-1,2-Dichloroethene	700		70	<5.0	21	14	25	<5.0	300	6.1	160	140	<5.0	35	28
Trans - 1,2 - Dichloroethene	1000		100	<5.0	<5.0	<5.0	<5.0	<5.0	9.5	<5.0	5.1	8.4	<5.0	<5.0	46
Ethylbenzene	7000		700	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0
Methyl Isobutyl Ketone	5600	560		<25.0	<25.0	<25.0	<25.0	<25.0	<25.0	<25.0	<25.0	<25.0	<25.0	<25.0	<25.0
Toluene	10000		1000	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0
Trichlorethene	300		3	<3.0	15	32	<3.0	<3.0	17	<3.0	<3.0	21	<3.0	22	80
Vinyl Chloride	100		1	<1.0	21	<1.0	<1.0	<1.0	19	<1.0	140*	37	<1.0	31	<1.0
All Other 8260 Volatiles				BDL.	BDL	BDL									

All concentrations expressed in parts per billion (ppb)(ug/l) unless otherwise noted.

BDL - Below Detection Limit

NADC - Natural Attenuation Default Concentrations - Chapter 62-777, Table V, Florida Administrative Code

GWCTL - Groundwater Cleanup Target Levels - Chapter 62-777, Table I, Florida Administrative Code

MCL - Maximum Contaminant Levels - Chapter 62-550, Florida Administrative Code

ANALYTICAL SUMMARY TABLE ORGANIC GROUNDWATER RESULTS

FORMER GNB FACILITY 200 SOUTH FALKENBURG ROAD TAMPA, FLORIDA

Sample Location Sampling Date	NADC	GWCTL	MCL	MVV-13 2/22/00	MW-14 2/21/00	MW-15 2/22/00	MVV-16 2/22/00	MW-17 2/24/00	MW-18 2/24/00	MVV-19 2/22/00		MW-21 2/21/00	MW-22 (C.M.) Dry	MW-3 (C.U.) 2/23/00	MW-4 (C.U.) 2/23/00
Method 8260 Volatiles															
Acetone	7000	700		<50.0	<50.0	<50.0	<50.0	<50.0	<50.0	<50.0	<50.0	<50.0	NS	<2500	<250
Bromodichloromethane	60	0.6		<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	NS	<250	<25.0
Carbon Disulfide	7000	700		<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	NS	<250	<25.0
Chloroform	570	5.7		<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	NS	<250	<25.0
1,1 - Dichloroethane	700	70		<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	NS	<250	<25.0
1,1 - Dichloroethene	700		7	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	NS	<250	<25.0
cis-1,2-Dichloroethene	700		70	6.9	34	6.3	<5.0	43	15	<5.0	350	<5.0	NS	<250	740
Trans - 1,2 - Dichloroethene	1000		100	<5.0	<5.0	<5.0	<5.0	<5.0	7	<5.0	19	<5.0	NS	<250	<25.0
Ethylbenzene	7000	1	700	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	NS	2,400	<25.0
Methyl Isobutyl Ketone	5600	560		<25.0	<25.0	<25.0	<25.0	<25.0	<25.0	<25.0	<25.0	<25.0	NS	<1,200	<120
Toluene	10000		1000	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	NS	230	<25.0
Trichlorethene	300		3	<3.0	<3.0	<3.0	<3.0	23	9	<3.0	160	<3.0	NS	<150	<15
Vinyl Chloride	100		1	<1.0	<1.0	<1.0	<1.0	<1.0	19	<1.0	16	<1.0	NS	<50	190
All Other 8260 Volatiles	<u> </u>		,	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	NS	BDL	BDL

All concentrations expressed in parts per billion (ppb)(ug/l) unless otherwise noted.

BDL - Below Detection Limit

NADC - Natural Attenuation Default Concentrations - Chapter 62-777, Table V, Florida Administrative Code

GWCTL - Groundwater Cleanup Target Levels - Chapter 62-777, Table I, Florida Administrative Code

MCL - Maximum Contaminant Levels - Chapter 62-550, Florida Administrative Code

ANALYTICAL SUMMARY TABLE ORGANIC GROUNDWATER RESULTS

FORMER GNB FACILITY 200 SOUTH FALKENBURG ROAD TAMPA, FLORIDA

Sample Location Sampling Date	NADG	GWCTL	MCL	MW-23 3/21/00	MW-24 2/27/00	Frito Lay 2/28/00	McCaffery Well 2/28/00	Equip Blank 2/28/00		Dup (MW-2) 2/23/00
			Metho	d 8260 Vol	atiles					2.000
Acetone	7000	700		<50.0	<50.0	<50.0	<50.0	<50.0	<50.0	<50.0
Bromodichloromethane	60	0.6		<5.0	8.4	<5.0	<5.0	<5.0	<5.0	<5.0
Carbon Disulfide	7000	700		<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0
Chloroform	570	5.7		<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0
1,1 - Dichloroethane	700	70		<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0
1,1 - Dichloroethene	700		7	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0
cis-1,2-Dichloroethene	700		70	19	<5.0	<5.0	<5.0	<5.0	10	23
Trans - 1,2 - Dichloroethene	1000		100	5	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0
Ethylbenzene	7000		700	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0
Methyl Isobutyl Ketone	5600	560		<25.0	<25.0	<25.0	<25.0	<25.0	<25.0	<25.0
Toluene	10000		1000	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0
Trichlorethene	300		3	<3.0	<3.0	<3.0	<3.0	<3.0	26	16
Vinyl Chloride	100		1	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	24
All Other 8260 Volatiles				BDL	BDL.	BDL	BDL	BDL	BDL	BDL

All concentrations expressed in parts per billion (ppb)(ug/l) unless otherwise noted.

BDL - Below Detection Limit

NADC - Natural Attenuation Default Concentrations - Chapter 62-777, Table V, Florida Administrative Code

GWCTL - Groundwater Cleanup Target Levels - Chapter 62-777, Table I, Florida Administrative Code

MCL - Maximum Contaminant Levels - Chapter 62-550, Florida Administrative Code

ANALYTICAL SUMMARY TABLE ORGANIC SOIL RESULTS

FORMER GNB FACILITY 200 SOUTH FALKENBURG ROAD TAMPA, FLORIDA

Sample Location (1994)	r verse (SCTL: 1	SS-1	SS-2	\$8-3	SS-4	SS-5	SS-6	SS-7	SS-8	SS-9	SS-10
Sample Depth	Direct Contact Industrial	Leachability To Groundwater	0 - 6 "	0-6"	O [©] (1) 1 2 2 3	0-6"	0-6"	0.6	0-6	-0-6"	0 - 6	0.6"
METHOD 8260		<u> </u>	:						-			-
Chloroform	500	30	<5.6	<4.9	<5.0	<6.1	<5.8	<5.2	<5.9	<5.5	<5.7	<1,000
cis-1,2-Dichloroethene	130,000	400	<5.6	<4.9	<5.0	<6.1	<5.8	<5.2	<5.9	<5.5	<5.7	<1,000
trans-1,2-Dichloroethene	210,000	700	<5.6	<4.9	<5.0	<6.1	<5.8	<5.2	<5.9	<5.5	<5.7	<1,000
Methylene Chloride	23,000	20	<5.6	<4.9	<5.0	<6.1	<5.8	<5.2	<5.9	<5.5	<5.7	<1,000
Trichloroethene	8,500	30	<5.6	<4.9	<5.0	<6.1	<5.8	<5.2	<5.9	<5.5	<5.7	<1,000
Vinyl Chloride	40	7	<11.0	<9.8	<10.0	<12.0	<12.0	<10.0	<12.0	<11.0	<11.0	<2,000
All Other 8260 Volatiles			BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL

All concentrations expressed in ug/kg or parts per billion

BDL - Below Detection Limit

Matrix interference on SS-10 resulted in elevated detection limits

APPENDIX A

BORING LOGS/
WELL CONSTRUCTION DIAGRAMS

SAMPLING RESISTANCE (BLOWS/FOOT) SPT-N

SURFACE ELEVATION NOT AVAILABLE WATER LEVEL AT SURFACE

DESCRIPTION

SANDY, TAN - DK BRN FG -FILL

SAND VERY DK BRN, FG

SAND REDDISH BRD, FG-MG GRADES TO CLAY - GREY BRN, SL SANDY

SAND BRN, FG-MG

CLAY, BLUE GREEN, V. SL SANDY, STIFF

CLAY, BLUE GREEN, MOTTLED WITH ORANGE AND BLACK

SAND, WHITE CLAYEY

SANDY CLAY / CLAYEY SAND, WHITE MOTTLED WITH ORANGE

LIMESTONE, WHITE, WEATHERED, ROCK FRAGMENTS WITH CARBONATE CLAY

LIMESTONE AND CARBONATE CLAY ALTERNATING (SPLIT SPOON REFUSAL AT 26')

BORING TERMINATED AT 55 FEET ON 2-23-00

DISTURBED SAMPLE UNDISTURBED SAMPLE

NO SAMPLE RECOVERED STANDARD PENETRATION TEST

WOH WEIGHT OF HAMMER



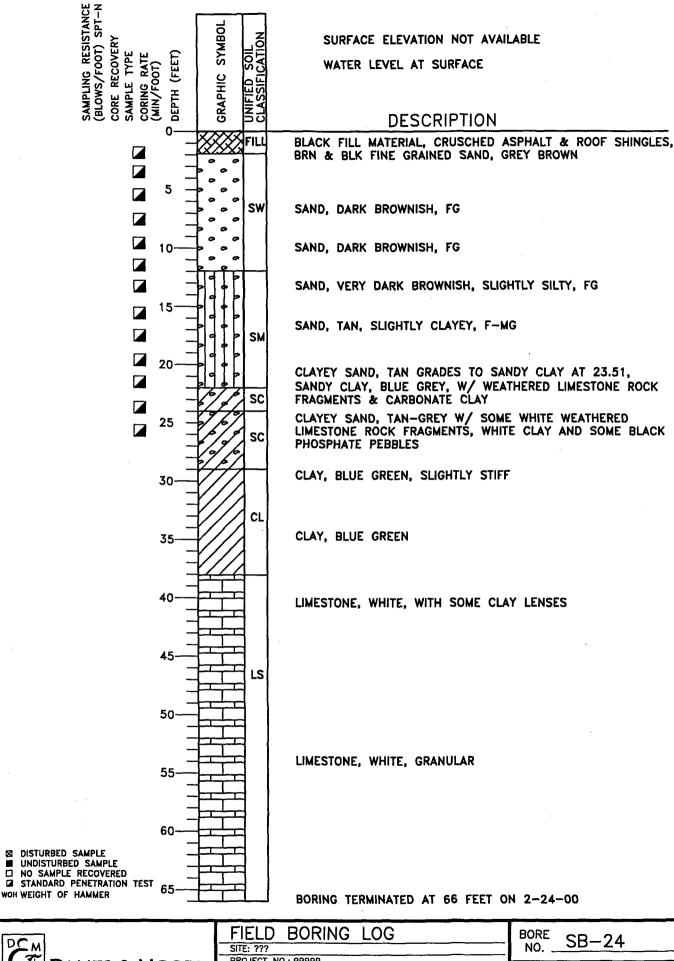
FIELD BORING	LOG
SITE: LDM	
PROJECT NO.: 32040-015	
LOGGED BY: LDM	
DRILLING CO.: DIVERSIFIED	
DRILLER: CHRIS	

BORE SB-23 NO.

DATA 141 HAZWAST 32040015 GNB SOIL BORING DWG

7: 52: 02 2000 15,

DRILLING DATE: FEB. 21, 2000 STARTED: FEB. 21, 2000 FINISHED: FEB. 25, 2000



5 GNB\SOIL BORING.DWG ر 2000 2000

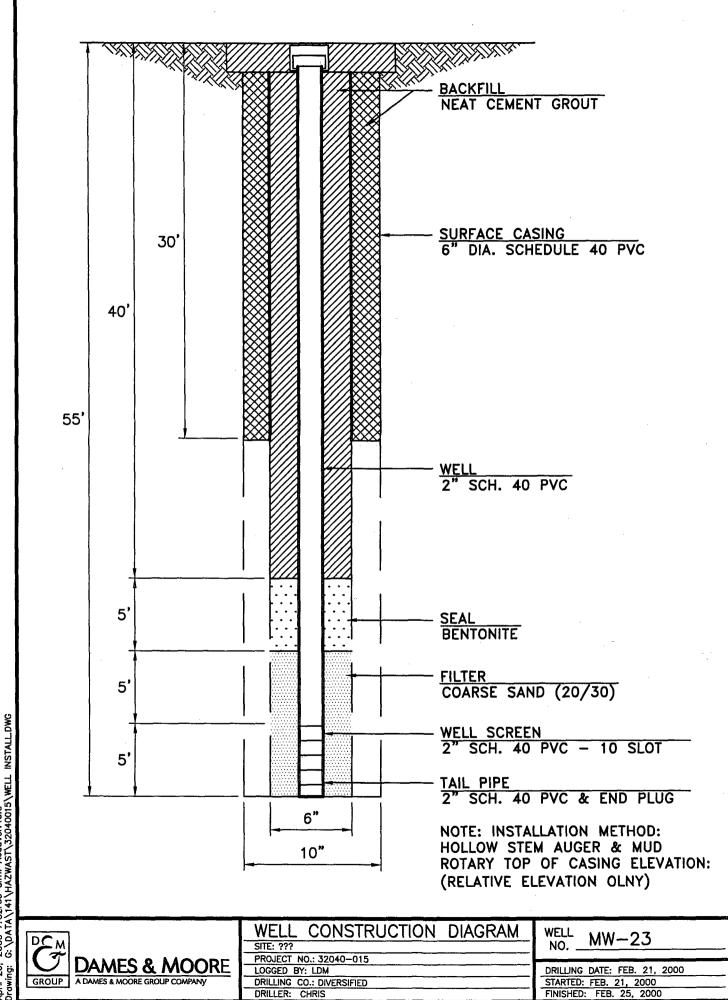
DCM A DAMES & MOORE GROUP COMPANY

DAMES & MOORE

PROJECT NO.: 99999 LOGGED BY: ??? DRILLING CO .: ???

DRILLER: ???

DRILLING DATE: 999999 STARTED: 99999 FINISHED: 999999



15, 2000 7:54:28 a.m. AcadVer:15.0 ving: G:\DATA\141\HAZWAST\32040015 GNB\WELL INSTAI

DAMES & MOORE
GROUP DAMES & MOORE GROUP COMPANY

WELL CONSTRUCTION DIAGRAM
SITE: ???
PROJECT NO.: 32040-015
LOGGED BY: LDM
DRILLING CO.: DIVERSIFIED
DRILLING CO.: DIVERSIFIED
DRILLING CO.: DIVERSIFIED
FINISHED: FEB. 21, 2000
FINISHED: FEB. 25, 2000

APPENDIX B

ANALYTICAL REPORT
AND CHAIN-OF-CUSTODY FORMS
(SOIL)



LOG NO: B0-60615 Received: 28 FEB 00 Reported: 13 MAR 00

Mr. Tony Damiano
Dames & Moore
1 North Dale Mabry, Suite 700
Tampa, FL 33609

Project: GNB Tampa Falkenburg

Sampled By: Client

Code: 133500313

REPORT OF RESULTS

LOG NO	SAMPLE DESCRIPTION ,	SOLID OR	SEMISOLID	SAMPLES	DATE/ TIME SAMPLEI)
60615-1	SS-1 0-6"				02-25-00/10:	30
60615-2	SS-2 0-6"				02-25-00/11:	00
60615-3	SS-3 0-6"				02-25-00/11:	30
60615-4	SS-4 0-6"				02-25-00/13:	: 00
60615-5	SS-5 0-6"				02-25-00/13:	30
PARAMETER		60615-1	60615-2	60615-3	60615-4	60615-5
Volatile Or	ganic Compounds					
Acrolein (Propenal), ug/kg dw	<110	<98	<100	<120	<120
Acrylonitr	ile, ug/kg dw	<110	<98	<100	<120	<120
Benzene, u	g/kg dw	<5.6	<4.9	<5.0	<6.1	<5.8
Bromoform,	ug/kg dw	<5.6	<4.9	<5.0	<6.1	<5.8
Carbon Tet	rachloride, ug/kg dw	<5.6	<4.9	<5.0	<6.1	<5.8
Chlorobenz	ene, ug/kg dw	<5.6	<4.9	<5.0	<6.1	<5.8
Chlorodibr	omomethane, ug/kg dw	<5.6	<4.9	<5.0	<6.1	<5.8
Chloroetha	ne, ug/kg dw	<11	<9.8	<10	<12	<12
2-Chloroet	hylvinyl Ether, ug/kg	dw <56	<49	<50	<61	<58
Chloroform	, ug/kg dw	<5.6	<4.9	<5.0	<6.1	<5.8
Dichlorobr	omomethane, ug/kg dw	<5.6	<4.9	<5.0	<6.1	<5.8
Dichlorodi	fluoromethane, ug/kg d	lw <5.6	<4.9	<5.0	<6.1	<5.8
1,1-Dichlo	roethane, ug/kg dw	<5.6	<4.9	<5.0	<6.1	<5.8
1,2-Dichlo	roethane, ug/kg dw	<5.6	<4.9	<5.0	<6.1	<5.8
1,1-Dichlo	roethylene, ug/kg dw	<5.6	<4.9	<5.0	<6.1	<5.8
1,2-Dichlo	ropropane, ug/kg dw	<5.6	<4.9	<5.0	<6.1	<5.8
1,3-Dichlo	ropropene, ug/kg dw	<5.6	<4.9	<5.0	<6.1	<5.8
Ethylbenze	ne, ug/kg dw	<5.6	<4.9	<5.0	<6.1	<5.8
Methyl Bro	mide, ug/kg dw	<11	<9.8	<10	<12	<12
Methyl Chl	oride, ug/kg dw	<11	<9.8	<10	<12	<12
Methylene	Chloride, ug/kg dw	<5.6	<4.9	<5.0	<6.1	<5.8



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LOG NO: B0-60615 Received: 28 FEB 00 Reported: 13 MAR 00

Mr. Tony Damiano
Dames & Moore
1 North Dale Mabry, Suite 700
Tampa, FL 33609

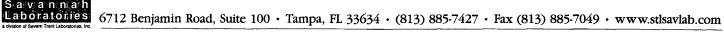
Project: GNB Tampa Falkenburg

Sampled By: Client

Code: 133500313

REPORT OF RESULTS

rog no	SAMPLE DESCRIPTION ,				DATE/ TIME SAMPLE	D
60615-1					02-25-00/10	:30
60615-2	SS-2 0-6"				02-25-00/11	:00
60615-3	SS-3 0-6"				02-25-00/11	:30
60615-4	SS-4 0-6"				02-25-00/13	:00
60615-5	SS-5 0-6"				02-25-00/13	:30
PARAMETER				60615-3	60615-4	60615-5
	etrachloroethane,			<5.0	<6.1	<5.8
Tetrachlo	roethylene, ug/kg dw	<5.6	<4.9	<5.0	<6.1	<5.8
Toluene, u	ug/kg dw	<5.6	<4.9	<5.0	<6.1	<5.8
cis/trans- ene, ug/	-1,2-Dichloroethyl kg dw	<5.6	<4.9	<5.0	<6.1	<5.8
1,1,1-Tric	chloroethane, ug/kg dw	<5.6	<4.9	<5.0	<6.1	<5.8
1,1,2-Tric	chloroethane, ug/kg dw	<5.6	<4.9	<5.0	<6.1	<5.8
Trichloroe	ethylene, ug/kg dw	<5.6	<4.9	<5.0	<6.1	<5.8
Trichlorof	fluoromethane, ug/kg dv	v <5.6	<4.9	<5.0	<6.1	<5.8
Vinyl Chlo	oride, ug/kg dw	<11	<9.8	<10	<12	<12
Percent Sol	lids	93	91	96	89	93



LOG NO: B0-60615 Received: 28 FEB 00 Reported: 13 MAR 00

Mr. Tony Damiano
Dames & Moore
1 North Dale Mabry, Suite 700
Tampa, FL 33609

Project: GNB Tampa Falkenburg

Sampled By: Client

Code: 141900313

REPORT OF RESULTS

	•	MILORI (T REDUETO			rage
LOG NO S	SAMPLE DESCRIPTION ,	SOLID OR	SEMISOLID	SAMPLES	DATE/ TIME SAMPLE	ED
60615-6	SS-6 0-6"				02-25-00/14	
	SS-7 0-6"				02-25-00/14	
	SS-8 0-6"				02-25-00/1	
60615-9					02-25-00/1	
60615-10					02-25-00/16	
PARAMETER		60615-6	60615-7	60615-8	60615-9	60615-10
Volatile Orga	anic Compounds					
Acrolein (Pr	copenal), ug/kg dw	<100	<120	<110	<110	<21000*F34
Acrylonitril	le, ug/kg dw	<100	<120	<110	<110	<21000
Benzene, ug/	/kg dw	<5.2	<5.9	<5.5	<5.7	<1000
Bromoform, u	ıg/kg dw	<5.2	<5.9	<5.5	<5.7	<1000
Carbon Tetra	achloride, ug/kg dw	<5.2	<5.9	<5.5	<5.7	<1000
Chlorobenzer	ne, ug/kg dw	<5.2	<5.9	<5.5	<5.7	<1000
Chlorodibrom	momethane, ug/kg dw	<5.2	<5.9	<5.5	<5.7	<1000
Chloroethane	e, ug/kg dw	<10	<12	<11	<11	<2000
	ylvinyl Ether, ug/kg		<59		<57	<10000
Chloroform,	- · -	<5.2	<5.9	<5.5	<5.7	<1000
	momethane, ug/kg dw	<5.2	<5.9	<5.5	<5.7	<1000
	luoromethane, ug/kg d		<5.9	<5.5		
	oethane, ug/kg dw	<5.2	<5.9	<5.5	<5.7	<1000
	oethane, ug/kg dw	<5.2	<5.9	<5.5	<5.7	<1000
-	oethylene, ug/kg dw	<5.2	<5.9	<5.5	<5.7	<1000
	opropane, ug/kg dw	<5.2	<5.9	<5.5	<5.7	<1000
1,3-Dichlore	opropene, ug/kg dw	<5.2	<5.9			<1000
Ethylbenzene	e, ug/kg dw	<5.2	<5.9	<5.5	<5.7	<1000
	ide, ug/kg dw	<10	<12	<11	<11	<2000
	ride, ug/kg dw	<10	<12	<11	<11	<2000
Methylene Ch	nloride, ug/kg dw	<5.2	<5.9	<5.5	<5.7	<1000



S. a. v. a. n. n. a. h Laboratories 6712 Benjamin Road, Suite 100 · Tampa, FL 33634 · (813) 885-7427 · Fax (813) 885-7049 · www.stlsavlab.com

LOG NO: B0-60615 Received: 28 FEB 00 Reported: 13 MAR 00

Mr. Tony Damiano
Dames & Moore
1 North Dale Mabry, Suite 700
Tampa, FL 33609

Project: GNB Tampa Falkenburg

Sampled By: Client

Code: 133500313

REPORT OF RESULTS

LOG NO	SAMPLE DESCRIPTION ,	SOLID OR	SEMISOLID	SAMPLES	DATE/ TIME SAMPLEI)
60615-6	SS-6 0-6"				02-25-00/14	:00
60615-7	SS-7 0-6"				02-25-00/14	:30
60615-8	SS-8 0-6"				02-25-00/15	:00
60615-9	SS-9 0-6"			•	02-25-00/15	:30
60615-10	SS-10 0-6"				02-25-00/16	:00
PARAMETER					60615-9	60615-10
					<5.7	<1000
Tetrachlor	oethylene, ug/kg dw	<5.2	<5.9	<5.5	<5.7	<1000
Toluene, u	g/kg dw	<5.2	<5.9	<5.5	<5.7	<1000
cis/trans- ene, ug/k	1,2-Dichloroethyl g dw	<5.2	<5.9	<5.5	<5.7	<1000
- ·	hloroethane, ug/kg dw	<5.2	<5.9	<5.5	<5.7	<1000
	hloroethane, ug/kg dw		<5.9	<5.5	<5.7	<1000
	thylene, ug/kg dw		·· <5.9		<5.7	<1000
	luoromethane, ug/kg dv			<5.5	<5.7	<1000
	ride, ug/kg dw	<10			<11	the state of the s
Percent Sol	ids	92	91	87	. 89	88



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LOG NO: B0-60615 Received: 28 FEB 00 Reported: 13 MAR 00

Mr. Tony Damiano Dames & Moore 1 North Dale Mabry, Suite 700 Tampa, FL 33609

Project: GNB Tampa Falkenburg

Sampled By: Client

Code: 133500313

REPORT OF RESULTS

	REPOR	r of RESULTS	DATE/	Page 5	
LOG NO	SAMPLE DESCRIPTION , QC REPO	ORT FOR SOLID,		TIME SAMPLE	D
 60615-11 60615-12 60615-13	Method Blank				· · · · · · · · · · · · · · · · · · ·
	Date Analyzed			,	
PARAMETER		60615-11		60615-13	60615-14
Volatile C	Organic Compounds				
Acrolein	(Propenal), ug/kg dw	<100			03.06.00
Acrylonit	rile, ug/kg dw	<100			03.06.00
Benzene,	ug/kg dw	<5.0	61 %	9.8 %	03.06.00
Bromoform	n, ug/kg dw	<5.0			03.06.00
Carbon Te	etrachloride, ug/kg dw	<5.0			03.06.00
Chloroben	nzene, ug/kg dw	<5.0	76 %	0.0 %	03.06.00
Chlorodik	promomethane, ug/kg dw	<5.0			03.06.00
Chloroeth	nane, ug/kg dw	<10			03.06.00
2-Chloroe	thylvinyl Ether, ug/kg dw	<50			03.06.00
Chlorofor	m, ug/kg dw	<5.0			03.06.00
Dichlorob	promomethane, ug/kg dw	<5.0			03.06.00
Dichlorod	lifluoromethane, ug/kg dw	<5.0			03.06.00
1,1-Dichl	oroethane, ug/kg dw	<5.0			03.06.00
1,2-Dichl	oroethane, ug/kg dw	<5.0			03.06.00
1,1-Dichl	oroethylene, ug/kg dw	<5.0	82 %	9.8 %	03.06.00
1,2-Dichl	oropropane, ug/kg dw	<5.0			03.06.00
1,3-Dichl	oropropene, ug/kg dw	<5.0			03.06.00
Ethylbenz	zene, ug/kg dw	<5.0			03.06.00
Methyl Br	comide, ug/kg dw	<10			03.06.00
-	nloride, ug/kg dw	<10			03.06.00
_	c Chloride, ug/kg dw	<5.0			03.06.00
	Petrachloroethane, ug/kg dw	<5.0			03.06.00



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LOG NO: B0-60615 Received: 28 FEB 00 Reported: 13 MAR 00

Mr. Tony Damiano
Dames & Moore
1 North Dale Mabry, Suite 700
Tampa, FL 33609

Project: GNB Tampa Falkenburg

DATE/

Sampled By: Client

Code: 133500313

REPORT OF RESULTS

Page 6

LOG NO	SAMPLE	DESCRIPTION	,	QC	REPORT	FOR	SOLID/SEMISOLID	TIME	SAMPLED

60615-11 Method Blank 60615-12 Accuracy (%Rec) 60615-13 Precision (%RPD) 60615-14 Date Analyzed

PARAMETER	60615-11	60615-12	60615-13	60615-14
Tetrachloroethylene, ug/kg dw	<5.0			03.06.00
Toluene, ug/kg dw	<5.0	83 %	2.4 %	03.06.00
cis/trans-1,2-Dichloroethylene, ug/kg dw	<5.0			03.06.00
1,1,1-Trichloroethane, ug/kg dw	<5.0			03.06.00
1,1,2-Trichloroethane, ug/kg dw	<5.0			03.06.00
Trichloroethylene, ug/kg dw	<5.0	79 %	2.5 %	03.06.00
Trichlorofluoromethane, ug/kg dw	<5.0			03.06.00
Vinyl Chloride, ug/kg dw	<10			03.06.00

Method: EPA SW-846

Certifications #'s: 84385,E84282

*F34 = Due to the abundance of organics in the sample, dilution was required.

Andre Rachmaninoff, Project Manager

4

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Sava Labor		n a h
a division of Severi	Trent Lab	oratories, Inc

ANALYSIS REQUEST AND CHAIN OF CUSTODY RECORD

-	DECLUBED ANALYSES	PAGE .	OF
0	6712 Benjamin Rd., Suite 100, Tampa, FL 33634	Phone: (813) 885-7427	Fax: (813) 885-7049
0	900 Lakeside Drive, Mobile, AL 36693	Phone: (334) 666-6633	Fax: (334) 666-6696
0	2846 Industrial Plaza Drive, Tallahassee, FL 32301	Phone: (850) 878-3994	Fax: (850) 878-9504
0	5102 LaRoche Avenue, Savannah, GA 31404	Phone: (912) 354-7858	Fax: (912) 352-0165

a division of Severn Trent Laboratories, Inc.					6712	2 Benjamin Rd., Sui	te 100, Tampa, FL 33634	Phone: (81	3) 885-7427 Fa	x: (813) 885-7049
PROJECT REFERENCE GNO-FAULKENS STL (LAB) PROJECT MANAGER	PROJECT NO.	PROJECT LOCATION (STATE)	MATRIX TYPE			REQUIRE	D ANALYSES	P	AGE .	OF
		CONTRACT NO.		ETC)					FANDARD REPOR	^T O
CLIENT (SITE) PM TONY CLIENT NAME CLIENT NAME	CLIENT PHONE 875-1115	S CLIENT FAX 874-7424	INDICATE	OLVENT,					DATE DUE KPEDITED REPOF ELIVERY	_
DAMES & MOCK	I		GRAB (G)	NONAQUEOUS LIQUID (OIL, SOLVENT, ETC)	17 S				URCHARGE) DATE DUE	<u> </u>
IN. Date May	bry Ste 700		C) OR ATER)	SLIGU			5.5% (m.C.) (25%82%) 4.5%80	NI NI		ERS SUBMITTED PE
COMPANY CONTRACTING THIS WORK	((if applicable):		COMPOSITE (C) OR GR AQUEOUS (WATER) SOLID OR SEMISOLID AIR	OUEOU					HIPMENT:	
SAMPLE DATE TIME	SAMPLE IDE	ENTIFICATION	COMP AQUEC SOLID AIR	NON	NUM	BER OF CONT	TAINERS SUBMITTED		REM	IARKS
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14005	55-60			Ш						
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RECEIVED BY: (SIGNATURE)	DATE TIME	RECEIVED BY: (SIGN	VATURE)		DATE 2-26-0	TIME 200941	RECEIVED BY: (SIGNA	ATURE)	DATE	TIME
		L/	ABORATOR'	/ USE (DALY C	poler	Temp 40 DRY REMARKS:	,40		
RECEIVED FOR LABORATOF (SIGNATURE)		CUSTODY INTACT YES	CUSTODY SEAL NO.		-SL LOG NO 26-061		DRY REMARKS:			

APPENDIX C

ANALYTICAL REPORT
AND CHAIN-OF-CUSTODY SHEETS
(GROUNDWATER)



Savannah Laboratories 6712 Benjamin Road, Suite 100 · Tampa, FL 33634 · (813) 885-7427 · Fax (813) 885-7049 · www.stlsavlab.com

LOG NO: B0-60565 Received: 23 FEB 00 Reported: 08 MAR 00

Mr. Tony Damiano Dames & Moore 1 North Dale Mabry, Suite 700 Tampa, FL 33609

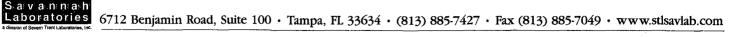
Client PO. No.: TPAR02000019

Project: 32040.015 GNB Falkenburg

Sampled By: Client

Code: 14530039

	REPORT OF RES		DATE/	Page 7
LOG NO	SAMPLE DESCRIPTION , LIQUID SAMPLES		TIME SAMPLE	
60565-6	MW-15		02-22-00/17	
60565-7	MW-16		02-22-00/18	:50
60565-8	DUP		02-22-00	
PARAMETER		60565-6	60565-7	60565-8
1,2,3-Tr	ichlorobenzene, ug/l	<5.0	<5.0	<5.0
1,2,4-Tr	ichlorobenzene, ug/l	<5.0	<5.0	<5.0
	ichloroethane, ug/l	<5.0	<5.0	<5.0
, ,	ichloroethane, ug/l	<5.0	<5.0	<5.0
	oethylene, ug/l	<3.0	<3.0	26
	ofluoromethane, ug/l	<5.0		<5.0
	ichloropropane, ug/l	<5.0		<5.0
	imethylbenzene, ug/l	<5.0		<5.0
	imethylbenzene, ug/l	<5.0		<5.0
-	loride, ug/l	<1.0		<1.0
o-Xylene		<5.0		<5.0
m&p-Xyle		<5.0	· · ·	<5.0
Acetone,		<50	<50	< 50
	ne (MEK), ug/l	<25	<25	<25
_	-2-pentanone (MIBK), ug/l	<25		<25
Carbon D	isulfide, ug/l	<5.0	<5.0	<5.0
Aluminum	(Dissolved) (6010), mg/l	0.66	<0.20	0.63
Iron (Dis	solved) (6010), mg/l	<0.050	0.31	9.5
Lead (Dis	solved) (7421), mg/l	<0.0050	<0.0050	<0.0050
Sulfate a	s SO4 (375.4), mg/l	27	73	240
Total Dis	solved Solids (160.1), mg/l	470	330	400





LOG NO: B0-60565 Received: 23 FEB 00

Reported: 08 MAR 00

Mr. Tony Damiano Dames & Moore 1 North Dale Mabry, Suite 700 Tampa, FL 33609

Client PO. No.: TPAR02000019

Project: 32040.015 GNB Falkenburg

Sampled By: Client

Code: 100800310

REPORT OF RESULTS

LOG NO	SAMPLE DESCRIPTION , LIQUID SAMPLES		ATE/ 'IME SAMPLED)
60565-6 60565-7 60565-8	MW-15 MW-16 DUP	0	2-22-00/17: 2-22-00/18:	
PARAMETER		60565-6	60565-7	60565-8
Dichlorod	Hifluoromethane, ug/l	<10	<10	<10
1,1-Dichl	oroethane, ug/l	<5.0	<5.0	<5.0
1,2-Dichl	loroethane, ug/l	<3.0	<3.0	<3.0
1,1-Dichl	loroethylene, ug/l	<5.0	<5.0	<5.0
cis-1,2-D	Dichloroethylene, ug/l	6.3	<5.0	10
trans-1,2	2-Dichloroethylene, ug/l	<5.0	<5.0	<5.0
1,2-Dichl	oropropane, ug/l	<5.0	<5.0	<5.0
-	oropropane, ug/l	<5.0	<5.0	<5.0
•	.oropropane, ug/l	<5.0	<5.0	<5.0
•	oropropylene, ug/l	<5.0	<5.0	<5.0
cis-1,3-D	Dichloropropene, ug/l	<5.0	<5.0	<5.0
	B-Dichloropropene, ug/l	<5.0	<5.0	<5.0
-	zene, ug/l	<5.0	<5.0	<5.0
Hexachlor	cobutadiene, ug/l	<5.0	<5.0	<5.0
Isopropyl	benzene, ug/l	<5.0	<5.0	<5.0
4-Isoprop	oyltoluene, ug/l	<5.0	<5.0	<5.0
Methylene	chloride, ug/l	<5.0	<5.0	<5.0
Naphthale	ene, ug/l	<5.0	<5.0	<5.0
n-Propylh	penzene , ug/l	<5.0	<5.0	<5.0
Styrene,	ug/l	<5.0	<5.0	<5.0
1,1,1,2-T	Tetrachloroethane, ug/l	<5.0	<5.0	<5.0
1,1,2,2-1	Tetrachloroethane, ug/l	<5.0	<5.0	<5.0
Tetrachlo	proethylene, ug/l	<3.0	<3.0	<3.0
Toluene,	ug/l	<5.0	<5.0	<5.0



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LOG NO: B0-60565 Received: 23 FEB 00 Reported: 08 MAR 00

Mr. Tony Damiano Dames & Moore 1 North Dale Mabry, Suite 700 Tampa, FL 33609

Client PO. No.: TPAR02000019

Project: 32040.015 GNB Falkenburg

Sampled By: Client

Code: 14530039

	REPORT OF	RESULTS		Page 5
			DATE/	
LOG NO	SAMPLE DESCRIPTION , LIQUID SAMP	LES	TIME SAMPLED	
60565-6	MW-15		02-22-00/17:	55
60565-7	MW-16		02-22-00/18:	50
60565-8	DUP		02-22-00	
PARAMETER			60565-7	60565-8
Volatile Or	ganic Compounds (8260)			
Benzene, u	g/l	<1.0	<1.0	<1.0
Bromobenze	ne, ug/l	<5.0	<5.0	<5.0
	omethane, ug/l	<5.0	<5.0	<5.0
	oromethane, ug/l		<5.0	<5.0
Bromoform,	•	<5.0	<5.0	<5.0
Bromometha	- '	<10	<10	<10
n-Butylben	zene, ug/l	<5.0	<5.0	<5.0
_	enzene, ug/l	<5.0	<5.0	<5.0
-	benzene, ug/l	<5.0	<5.0	<5.0
Carbon Tet	rachloride, ug/l	<3.0	<3.0	<3.0
Chlorobenz	ene, ug/l	<5.0	<5.0	<5.0
Chloroetha	ne, ug/l	<10	<10	<10
Chloroform	, ug/l	<5.0	<5.0	<5.0
Chlorometh	ane, ug/l	<10	<10	<10
Chlorotolu	ene, ug/l	<5.0	<5.0	<5.0
4-Chloroto	luene, ug/l	<5.0	<5.0	<5.0
Chlorodibr	omomethane, ug/l	<5.0	<5.0	<5.0
1,2-Dibrom	o-3-chloropropane, ug/l	<5.0	<5.0	<5.0
1,2-Dibrom	oethane (EDB), ug/l	<5.0	<5.0	<5.0
Dibromomet	hane, ug/l	<5.0	<5.0	<5.0
1,2-Dichlo	robenzene, ug/l	<5.0	<5.0	<5.0
1,3-Dichlo	robenzene, ug/l	<5.0	<5.0	<5.0
•	robenzene, ug/l	<5.0	<5.0	<5.0



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LOG NO: B0-60565 Received: 23 FEB 00

Reported: 08 MAR 00

Mr. Tony Damiano
Dames & Moore
1 North Dale Mabry, Suite 700
Tampa, FL 33609

Client PO. No.: TPAR02000019

Project: 32040.015 GNB Falkenburg

Sampled By: Client

Code: 14530039

REPORT OF RESULTS

					DATE/	 .
LOG NO	SAMPLE DESCRIPTION	, LIQUID SA	MPLES		TIME SAMPLED	
60565-1	MW-4				02-22-00/09:	40
60565-2	MW-13				02-22-00/11:	12
60565-3	MW-3A				02-22-00/12:	12
60565-4	MW-12		•		02-22-00/13:	40
60565-5	MW-19	•			02-22-00/16:	50
PARAMETER		60565-1	60565-2	60565-3	60565-4	60565-5
Lead (Disso	lved) (7421), mg/l	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050
Sulfate as	SO4 (375.4), mg/l	18	14	230	170	<5.0
Total Disso	lved Solids (160.1),	mg/l 130	210	460	580	260



LOG NO: B0-60565 Received: 23 FEB 00 Reported: 08 MAR 00

Mr. Tony Damiano Dames & Moore 1 North Dale Mabry, Suite 700 Tampa, FL 33609

Client PO. No.: TPAR02000019

Project: 32040.015 GNB Falkenburg

Sampled By: Client

Code: 14530039

		REPORT O	F RESULTS			Page 3
LOG NO	SAMPLE DESCRIPTION ,	LIQUID SA	MPLES		DATE/ TIME SAMPLED	
60565-1	MW-4				02-22-00/09:	40
60565-2	MW-13				02-22-00/11:	
60565-3	MW-3A				02-22-00/12:	12
60565-4	MW-12			÷	02-22-00/13:	40
60565-5	MW~19				02-22-00/16:	50
PARAMETER		60565-1	60565-2	60565-3	60565-4	60565-5
1,1,1,2-T	etrachloroethane, uq/l	<5.0	<5.0	<5.0	<5.0	<5.0
1,1,2,2-T	etrachloroethane, ug/l	<5.0	<5.0	<5.0	<5.0	<5.0
Tetrachlo	roethylene, ug/l	<3.0	<3.0	<3.0	<3.0	<3.0
Toluene,	<u> </u>	<5.0	<5.0	<5.0	<5.0	<5.0
1,2,3-Tri	chlorobenzene, ug/l	<5.0	<5.0	<5.0	<5.0	<5.0
1,2,4-Tri	chlorobenzene, ug/l	<5.0	<5.0	<5.0	<5.0	<5.0
1,1,1-Tri	chloroethane, ug/l	<5.0	<5.0	<5.0	<5.0	<5.0
1,1,2-Tri	chloroethane, ug/l	<5.0	<5.0	<5.0	<5.0	<5.0
Trichloro	ethylene, ug/l	<3.0	<3.0	32	80	<3.0
Trichloro	fluoromethane, ug/l	<5.0	<5.0	<5.0	<5.0	<5.0
1,2,3-Tri	chloropropane, ug/l	<5.0	<5.0	<5.0	<5.0	<5.0
1,2,4-Tri	methylbenzene, ug/l	<5.0	<5.0	<5.0	<5.0	<5.0
1,3,5-Tri	methylbenzene, ug/l	<5.0	<5.0	<5.0	<5.0	<5.0
Vinyl Chl	oride, ug/l	<1.0	<1.0	<1.0	<1.0	<1.0
o-Xylene,	ug/1	<5.0	<5.0	<5.0	<5.0	<5.0
m&p-Xylen	e, ug/l	<5.0	<5.0	<5.0	<5.0	<5.0
Acetone,	ug/l	<50	<50	<50	<50	<50
2-Butanon	e (MEK), ug/l	<25	<25	<25	<25	<25
4-methyl-	2-pentanone (MIBK), ug,	/1 <25	<25	<25	<25	<25
Carbon Di	sulfide, ug/l	<5.0	<5.0	<5.0	<5.0	<5.0
Aluminum (Dissolved) (6010), mg/I	L 0.85	<0.20	1.2	<0.20	<0.20
Iron (Diss	olved) (6010), mg/l	1.0	0.31	9.6	1.5	0.23



LOG NO: B0-60565 Received: 23 FEB 00

Reported: 08 MAR 00

Mr. Tony Damiano Dames & Moore 1 North Dale Mabry, Suite 700 Tampa, FL 33609

Client PO. No.: TPAR02000019

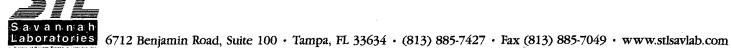
Project: 32040.015 GNB Falkenburg

Sampled By: Client

Code: 100800310

REPORT	OF	RESULTS
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LOG NO	SAMPLE DESCRIPTION ,		DATE/ TIME SAMPLED)					
60565-1	MW-4	MW-4							
60565-2	MW-13				02-22-00/11:	12			
60565-3	MW-3A				02-22-00/12:	12			
60565-4	MW-12		02-22-00/13:	40					
60565-5	MW-19		02-22-00/16:	50					
PARAMETER		60565-1	60565-2	60565-3	60565-4	60565-5			
1 3-Dich	lorobenzene, ug/l	<5.0	<5.0	<5.0	<5.0	<5.0			
•	lorobenzene, ug/l	<5.0	<5.0	<5.0	<5.0	<5.0			
-	difluoromethane, ug/l	<10	<10	<10	<10	<10			
	loroethane, ug/l	<5.0	<5.0	<5.0	<5.0	<5.0			
•	loroethane, ug/l	<3.0	<3.0	<3.0	<3.0	<3.0			
-	loroethylene, ug/l	<5.0	<5.0	<5.0	<5.0				
	Dichloroethylene, ug/1	25	6.9	14	28	<5.0			
	2-Dichloroethylene, ug/l		··· <5.0	<5.0	46	<5.0			
	loropropane, ug/1	<5.0	<5.0	<5.0	<5.0	<5.0			
1,3-Dich	loropropane, ug/l	<5.0	<5.0	<5.0	<5.0	<5.0			
2,2-Dich]	loropropane, ug/l	<5.0	<5.0	<5.0	<5.0	<5.0			
1,1-Dichl	loropropylene, ug/l	<5.0	<5.0	<5.0	<5.0	<5.0			
cis-1,3-	Dichloropropene, ug/l	<5.0	<5.0	<5.0	<5.0	<5.0			
trans-1,3	3-Dichloropropene, ug/l	<5.0	<5.0	<5.0	<5.0	<5.0			
Ethylben:	zene, ug/l	<5.0	<5.0	<5.0	<5.0	<5.0			
Hexachlo	robutadiene, ug/l	<5.0	<5.0	<5.0	<5.0	<5.0			
Isopropy:	lbenzene, ug/l	<5.0	<5.0	<5.0	<5.0	<5.0			
4-Isoprop	pyltoluene, ug/l	<5.0	<5.0	<5.0	<5.0	<5.0			
Methylene	e Chloride, ug/l	<5.0	<5.0	<5.0	<5.0	<5.0			
-	ene, ug/l	<5.0	<5.0	<5.0	<5.0	<5.0			
	benzene , ug/l	<5.0	<5.0	<5.0	<5.0	<5.0			
Styrene,	ug/l	<5.0	<5.0	<5.0	<5.0	<5.0			



LOG NO: B0-60565 Received: 23 FEB 00 Reported: 08 MAR 00

Mr. Tony Damiano Dames & Moore 1 North Dale Mabry, Suite 700 Tampa, FL 33609

Client PO. No.: TPAR02000019

Project: 32040.015 GNB Falkenburg

Sampled By: Client

Code: 14530039

REPORT OF RESULTS	Page	
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		REPORT C	F RESULTS		DATE/	Page 1		
LOG NO	SAMPLE DESCRIPTION ,	LIQUID SA	MPLES		TIME SAMPLED			
60565-1	MW-4				02-22-00/09:	40		
60565-2	MW-13				02-22-00/11:	12		
60565-3	MW-3A	MW-3A						
60565-4	MW-12	02-22-00/13:	40					
60565-5	MW-19		02-22-00/16:	50				
PARAMETER		60565-1	60565-2	60565-3	60565-4	60565-5		
Volatile Or	ganic Compounds (8260)							
Benzene, u	-	<1.0	<1.0	<1.0	<1.0	<1.0		
Bromobenze	ene, ug/l	<5.0	<5.0	<5.0	<5.0	<5.0		
Bromochlor	romethane, ug/l	<5.0	<5.0	<5.0	<5.0	<5.0		
Bromodichl	oromethane, ug/l	<5.0	<5.0	<5.0	<5.0	<5.0		
Bromoform,	ug/l	<5.0	<5.0	<5.0	<5.0	<5.0		
Bromometha	ne, ug/l	<10	<10	<10	<10	<10		
n-Butylber	nzene, ug/l	<5.0	<5.0	<5.0	<5.0	<5.0		
sec-Butylb	enzene, ug/l	<5.0	<5.0	<5.0	<5.0	<5.0		
tert-Butyl	.benzene, ug/l	<5.0	<5.0	<5.0	<5.0	<5.0		
Carbon Tet	rachloride, ug/l	<3.0	<3.0	<3.0	<3.0	<3.0		
Chlorobenz	ene, ug/l	<5.0	<5.0	<5.0	<5.0	<5.0		
Chloroetha	ne, ug/l	<10	<10	<10	<10	<10		
Chloroform	n, ug/l	<5.0	<5.0	<5.0	<5.0	<5.0		
Chlorometh	nane, ug/l	<10	<10	<10	<10	<10		
Chlorotolu	uene, ug/l	<5.0	<5.0	<5.0	<5.0	<5.0		
4-Chloroto	oluene, ug/l	<5.0	<5.0	<5.0	<5.0	<5.0		
Chlorodibr	romomethane, ug/l	<5.0	<5.0	<5.0	<5.0	<5.0		
1,2-Dibrom	no-3-chloropropane, ug/	1 <5.0	<5.0	<5.0	<5.0	<5.0		
1,2-Dibrom	noethane (EDB), ug/l	<5.0	<5.0	<5.0	<5.0	<5.0		
Dibromomet	chane, ug/l	<5.0	<5.0	<5.0	<5.0	<5.0		
1,2-Dichlo	probenzene, ug/l	<5.0	<5.0	<5.0	<5.0	<5.0		



Laboratories 6712 Benjamin Road, Suite 100 • Tampa, FL 33634 • (813) 885-7427 • Fax (813) 885-7049 • www.stlsavlab.com

LOG NO: B0-60565 Received: 23 FEB 00

Reported: 08 MAR 00

Mr. Tony Damiano
Dames & Moore
1 North Dale Mabry, Suite 700
Tampa, FL 33609

Client PO. No.: TPAR02000019

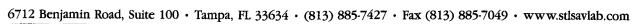
Project: 32040.015 GNB Falkenburg

Sampled By: Client

Code: 14530039

REPORT OF RESULTS

	KEFOR	I OF RE	оппо			rage
LOG NO SAMPLE DESCRIPTION	, QC REI	ORT FOR	LIQUID	SAMPLES	DATE/ TIME SAMPLED	
50565-9 Method Blank						
50565-10 Accuracy (%Rec)						
50565-11 Precision (%RPD)					•	
50565-13 Date Digested						
50565-12 Date Analyzed						
PARAMETER	60565-	9 605	65-10	60565-11	60565-13	60565-12
<i>J</i> olatile Organic Compounds (826	 0)					
Benzene, ug/l	<1.	0	98 %	0 왕		03.03.00
Bromobenzene, ug/l	<5.	0				03.03.00
Bromochloromethane, ug/l	<5.	0				03.03.00
Bromodichloromethane, ug/l	<5.	0				03.03.00
Bromoform, ug/l	<5.	0				03.03.00
Bromomethane, ug/l	<]	.0				03.03.00
n-Butylbenzene, ug/l	<5.	0				03.03.00
sec-Butylbenzene, ug/l	<5.	0				03.03.00
tert-Butylbenzene, ug/l	<5.	0				03.03.00
Carbon Tetrachloride, ug/l	<3.	0				03.03.00
Chlorobenzene, ug/l	<5.	0	91 %	2.2 %		03.03.00
Chloroethane, ug/l	<1	.0				03.03.00
Chloroform, ug/l	<5.	0				03.03.00
Chloromethane, ug/1	<1	.0				03.03.00
Chlorotoluene, ug/l	<5.	0				03.03.00
4-Chlorotoluene, ug/l	<5.	0				03.03.00
Chlorodibromomethane, ug/l	<5.	0				03.03.00
1,2-Dibromo-3-chloropropane, u	g/l <5.	0				03.03.00
1,2-Dibromoethane (EDB), ug/l	<5.	0				03.03.00
Dibromomethane, ug/l	<5.	0				03.03.00
1,2-Dichlorobenzene, ug/l	<5.	0 .		·		03.03.00





LOG NO: B0-60565 Received: 23 FEB 00

Reported: 08 MAR 00

Mr. Tony Damiano Dames & Moore 1 North Dale Mabry, Suite 700 Tampa, FL 33609

Client PO. No.: TPAR02000019

Project: 32040.015 GNB Falkenburg

Sampled By: Client

Code: 100800310

REPORT OF RESULTS

		KEPOKI OI	KESOFIS				rage 3
LOG NO	SAMPLE DESCRIPTION ,	QC REPORT	FOR LIQUID	SAMPLES	DATE/ TIME	SAMPLED	
60565-9	Method Blank						
60565-10	Accuracy (%Rec)						
60565-11	Precision (%RPD)						
60565-13	Date Digested						
60565-12	Date Analyzed						
PARAMETER		60565-9	60565-10	60565-11	605	65-13	60565-12
1,3-Dichlo	robenzene, ug/l	<5.0					03.03.00
•	robenzene, ug/l	<5.0					03.03.00
Dichlorodi	fluoromethane, ug/l	<10					03.03.00
1,1-Dichlo	roethane, ug/l	<5.0					03.03.00
1,2-Dichlo	roethane, ug/l	<3.0					03.03.00
1,1-Dichlo	roethylene, ug/l	<5.0	82 %	4.9 %			03.03.00
cis-1,2-Di	chloroethylene, ug/l	<5.0					03.03.00
trans-1,2-	Dichloroethylene, ug/l	. <5.0	·				03.03.00
1,2-Dichlo	ropropane, ug/l	<5.0	· ,				03.03.00
1,3-Dichlo	ropropane, ug/l	<5.0					03.03.00
2,2-Dichlo	ropropane, ug/l	<5.0					03.03.00
1,1-Dichlo	ropropylene, ug/l	<5.0					03.03.00
cis-1,3-Di	chloropropene, ug/l	<5.0					03.03.00
trans-1,3-	Dichloropropene, ug/l	<5.0					03.03.00
Ethylbenze	ne, ug/l	<5.0					03.03.00
Hexachloro	butadiene, ug/l	<5.0					03.03.00
	enzene, ug/l	<5.0					03.03.00
	ltoluene, ug/l	<5.0					03.03.00
-	Chloride, ug/l	<5.0					03.03.00
Naphthalen	- '	<5.0					03.03.00
	nzene , ug/l	<5.0					03.03.00
Styrene, u	g/1	<5.0					03.03.00



LOG NO: B0-60565 Received: 23 FEB 00 Reported: 08 MAR 00

Mr. Tony Damiano Dames & Moore 1 North Dale Mabry, Suite 700 Tampa, FL 33609

Client PO. No.: TPAR02000019

Project: 32040.015 GNB Falkenburg

Sampled By: Client

Code: 14570039

REPORT OF RESULTS

	REP	ORT OF	F RESULTS		DATE/	Page 10
LOG NO SAMPLE DESCRIPTION	, QC R	EPORT	FOR LIQUID	SAMPLES		
60565-9 Method Blank						
60565-10 Accuracy (%Rec)						
60565-11 Precision (%RPD)						•
60565-13 Date Digested						
60565-12 Date Analyzed						
PARAMETER	6056	5-9	60565-10	60565-11	60565-13	60565-12
1,1,1,2-Tetrachloroethane, ug/	 1 <	5.0				03.03.00
1,1,2,2-Tetrachloroethane, ug/		5.0				03.03.00
Tetrachloroethylene, ug/l	<	3.0				03.03.00
Toluene, ug/l	<	5.0	89 %	2.2 %		03.03.00
1,2,3-Trichlorobenzene, ug/l	<	5.0				03.03.00
1,2,4-Trichlorobenzene, ug/l	<	5.0				03.03.00
1,1,1-Trichloroethane, ug/l	<	5.0			~	03.03.00
1,1,2-Trichloroethane, ug/l	<	5.0				03.03.00
Trichloroethylene, ug/l	<	3.0	92 %	8.7 용	~	03.03.00
Trichlorofluoromethane, ug/l	<	5.0				03.03.00
1,2,3-Trichloropropane, ug/l	<	5.0				03.03.00
1,2,4-Trimethylbenzene, ug/l	<	5.0				03.03.00
1,3,5-Trimethylbenzene, ug/l	<	5.0			~	03.03.00
Vinyl Chloride, ug/l	<	1.0			~	03.03.00
o-Xylene, ug/l	<	5.0			·	03.03.00
m&p-Xylene, ug/l	<	5.0	<5.0	<5.0		03.03.00
Acetone, ug/l		<50				03.03.00
2-Butanone (MEK), ug/l		<25				03.03.00
4-methyl-2-pentanone (MIBK), ug	g/l	<25				03.03.00
Carbon Disulfide, ug/l	<	5.0			<u>.</u>	03.03.00
Aluminum (Dissolved) (6010), mg	/1 <0	.20	98 %	5.1 %	03.03.00	03.06.00
Iron (Dissolved) (6010), mg/l	<0.	050	104 %	2.9 %	03.03.00	03.06.00



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LOG NO: B0-60565 Received: 23 FEB 00 Reported: 08 MAR 00

Mr. Tony Damiano
Dames & Moore
1 North Dale Mabry, Suite 700
Tampa, FL 33609

Client PO. No.: TPAR02000019

Project: 32040.015 GNB Falkenburg

Sampled By: Client

Code: 14530039

REPORT OF RESULTS

Page 11

LOG NO	SAMPLE DESCRIPTION	, QC REPORT	FOR LIQUID	SAMPLES	DATE/ TIME SAMPLE	D
60565-9 60565-10 60565-11 60565-13 60565-12	Method Blank Accuracy (%Rec) Precision (%RPD) Date Digested Date Analyzed					
PARAMETER		60565-9	60565-10	60565-11	60565-13	60565-12
Lead (Disso	lved) (7421), mg/l	<0.0050	104 %	0.97 %	03.03.00	03.04.00
Sulfate as	SO4 (375.4), mg/l	<5.0	102 %	8.9 %		02.29.00
Total Disso		<5.0	99 %	0.10 %		02.25.00

Method: EPA SW-846, EPA 600/4-79-020 FDOH Certification: E84282, E87052

Andre Rachmaninoff, Project Manager

CARLOS MANAGEMENT AND	

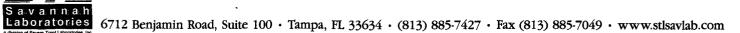
Phone: (912) 354-7858 Fax: (912) 352-0165

5102 LaRoche Avenue, Savannah, GA 31404

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Sava	a n r	ı a h
Labor	ato	ries
a division of Severi		

ANALYSIS REQUEST AND CHAIN OF CUSTODY RECORD

Sava Labora a division of Severn	nnah atories rent Laboratories, Inc.	•								000	900 Lak	dustrial Plaza I eside Drive, M enjamin Rd., S	lobile, AL	36693			Phone: (834) Phone: (813)) 666-6633	-ax: (850) 878-9504 -ax: (334) 666-6696 -ax: (813) 885-7049	
ROJECT REFER			PROJECT NO.	005	PROJECT LOCATION (STATE)		IATR TYPE					REQUIR	ED ANA	LYSES			PAC	GE .	OF	_
TL (LAB) PROJE	MPA FAI CT MANAGER	ENIXIRO	P.O. NUMBER	0.015	CONTRACT NO.	+	П				1			T	1			NDARD REPO	DRT C	_
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LIENT NAME			CLIENT EMAIL			(0)	} }	l os	The Contract of the Contract o	` `	9		1	}		}	DEL	IVERY RCHARGE)		
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			- 0	0	±) OR (ISOLI	ΠÖΠ	4	S			A 4 4 4 4 4 4	0 May 61 May	2.00					
	FAI KE RACTING THIS WO	ORK (if applicable): .	PMINA		COMPOSITE (C) OR AQUEOUS (WATER)	OR SEM	AIR NONAQUEOUS LIQUID (OIL, SOI			1							MBER OF COC PMENT:	LERS SUBMITTED F	EH
SAM DATE	IPLE TIME		SAMPLE	IDENTIFICAT	ΓΙΟΝ	COMP	SOLID	AIR		٨	IUMBE	R OF CON	ITAINE	RS SUB	MITTE	D		RE	MARKS	
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ECEIVELF	OR LABORATO	Oh	2-23-00	TIME	CUSTODY INTACT YES	SEAL			sть-s <i>806</i>			LABORAT	ORY RI	=WAHK	ა:	L	8 1341 4	er.		



LOG NO: B0-60556 Received: 22 FEB 00 Reported: 08 MAR 00

Mr. Tony Damiano Dames & Moore 1 North Dale Mabry, Suite 700 Tampa, FL 33609

Client PO. No.: TPAR02000019

Project: 32040.015 GNB Falkenburg

Sampled By: Client

Code: 09290038

		REPORT OF	RESULTS			Page 1
	-				DATE/	
LOG NO	SAMPLE DESCRIPTION ,	LIQUID SAM	PLES		TIME SAMPLED	
60556-1	MW-21				02-21-00/12:	45
60556-2	MW-14				02-21-00/15:	08
60556-3	MW-6				02-21-00/15:	
60556-4	MW - 7				02-21-00/16:	43
60556-5	MW-20				02-21-00/17:	35
PARAMETER		60556-1	60556-2	60556-3	60556-4	60556-5
Volatile Or	ganic Compounds (8260)					
Benzene, u	g/l	<1.0	<1.0	<1.0	<1.0	<1.0
Bromobenze	ne, ug/l	<5.0	<5.0	<5.0	<5.0	<5.0
Bromochlor	omethane, ug/l	<5.0	<5.0	<5.0	<5.0	<5.0
Bromodichl	oromethane, ug/l	<5.0	<5.0	<5.0	<5.0	<5.0
Bromoform,	ug/l	<5.0	<5.0	<5.0	<5.0	<5.0
Bromometha	ne, ug/l	<10	<10	<10	<10	<10
n-Butylben	zene, ug/l	<5.0	<5.0	<5.0	<5.0	<5.0
-	enzene, ug/l	<5.0	·· <5.0	<5.0	<5.0	<5.0
_	benzene, ug/l	<5.0	<5.0	<5.0	<5.0	<5.0
	rachloride, ug/l	<3.0	<3.0	<3.0	<3.0	<3.0
Chlorobenz	ene, ug/l	<5.0	<5.0	<5.0	<5.0	<5.0
Chloroetha		<10	<10	<10		<10
Chloroform		<5.0	<5.0	<5.0		<5.0
Chlorometh	,	<10	<10	<10	<10	<10
Chlorotolu		<5.0	<5.0	<5.0		<5.0
	oluene, ug/l	<5.0	<5.0	<5.0		<5.0
	comomethane, ug/l		<5.0	<5.0		
-	no-3-chloropropane, ug/		<5.0	<5.0		<5.0
•	oethane (EDB), ug/l	<5.0	<5.0	<5.0		<5.0
	hane, ug/l	<5.0	<5.0	<5.0		<5.0
1,2-Dichlo	probenzene, ug/l	<5.0	<5.0	<5.0	<5.0	<5.0



LOG NO: B0-60556 Received: 22 FEB 00 Reported: 08 MAR 00

Mr. Tony Damiano Dames & Moore 1 North Dale Mabry, Suite 700 Tampa, FL 33609

Client PO. No.: TPAR02000019

Project: 32040.015 GNB Falkenburg Sampled By: Client

Code: 092900310

		REPORT OF RESULTS			Page 2 DATE/		
LOG NO	SAMPLE DESCRIPTION ,	TIME SAMPLED					
60556-1	MW-21				02-21-00/12:	45	
60556-2	MW-14 02-21-00/15:08						
60556-3	MW-6	02-21-00/15:50 02-21-00/16:43					
60556-4	MW - 7						
60556-5	MW-20				02-21-00/17:	35	
PARAMETER		60556-1	60556-2	60556-3	60556-4	60556-5	
1,3-Dichlorobenzene, ug/l		<5.0	<5.0	<5.0	<5.0	<5.0	
1,4-Dichlorobenzene, ug/l		<5.0	<5.0	<5.0	<5.0	<5.0	
Dichlorodifluoromethane, ug/l		<10	<10	<10	<10	<10	
1,1-Dichloroethane, ug/l		<5.0	<5.0	<5.0	<5.0	<5.0	
1,2-Dichloroethane, ug/l		<3.0	<3.0	<3.0	<3.0	<3.0	
1,1-Dichloroethylene, ug/l		<5.0	<5.0	<5.0	<5.0	<5.0	
cis-1,2-Dichloroethylene, ug/l		<5.0	34	300*F42	6.1	350*F42	
trans-1,2-Dichloroethylene, ug/l		. <5.0	<5.0	9.5	<5.0	19	
1,2-Dichloropropane, ug/l		<5.0	<5.0	<5.0	<5.0	<5.0	
1,3-Dichloropropane, ug/l		<5.0	<5.0	<5.0		<5.0	
2,2-Dichloropropane, ug/l		<5.0	<5.0	<5.0		<5.0	
1,1-Dichloropropylene, ug/l		<5.0	<5.0	<5.0	<5.0	<5.0	
cis-1,3-Dichloropropene, ug/l		<5.0	<5.0	<5.0		<5.0	
trans-1,3-Dichloropropene, ug/l		<5.0	<5.0	<5.0		<5.0	
Ethylbenzene, ug/l		<5.0	<5.0	<5.0		<5.0	
Hexachlorobutadiene, ug/l		<5.0	<5.0	<5.0		<5.0	
Isopropylbenzene, ug/l		<5.0	<5.0	<5.0		<5.0	
4-Isopropyltoluene, ug/l		<5.0	<5.0	< 5.0		<5.0	
Methylene Chloride, ug/l		<5.0	<5.0	<5.0		<5.0	
Naphthalene, ug/l		<5.0	<5.0	<5.0		<5.0	
n-Propylbenzene , ug/l		<5.0	<5.0	<5.0	*	<5.0	
Styrene, ug/l		<5.0	<5.0	<5.0	<5.0	<5.0	



LOG NO: B0-60556 Received: 22 FEB 00

Reported: 08 MAR 00

Mr. Tony Damiano Dames & Moore 1 North Dale Mabry, Suite 700 Tampa, FL 33609

Client PO. No.: TPAR02000019

Project: 32040.015 GNB Falkenburg

Sampled By: Client

Code: 17330038

REPORT OF RESULTS

	1,22 0111 0				DATE/	
LOG NO SAMPLE DESCRIPTION	ON , LIQUID SA	MPLES		TIME SAMPLED)	
60556-1 MW-21				02-21-00/12:	45	
60556-2 MW-14		02-21-00/15:08				
60556-3 MW-6 02-21-00/15:						
60556-4 MW-7		02-21-00/16:43				
60556-5 MW-20	*			02-21-00/17:35		
PARAMETER	60556-1	60556-2	60556-3	60556-4	60556-5	
1,1,1,2-Tetrachloroethane,	ug/l <5.0	<5.0	<5.0	<5.0	<5.0	
1,1,2,2-Tetrachloroethane,	ug/l <5.0	<5.0	<5.0	<5.0	<5.0	
Tetrachloroethylene, ug/l	<3.0	<3.0	<3.0	<3.0	<3.0	
Toluene, ug/l	<5.0	<5.0	<5.0	<5.0	<5.0	
1,2,3-Trichlorobenzene, ug/	l <5.0	<5.0	<5.0	<5.0	<5.0	
1,2,4-Trichlorobenzene, ug/	l <5.0	<5.0	<5.0	<5.0	<5.0	
1,1,1-Trichloroethane, ug/l	<5.0	<5.0	<5.0	<5.0	<5.0	
1,1,2-Trichloroethane, ug/l	<5.0	<5.0	<5.0	<5.0	<5.0	
Trichloroethylene, ug/l	<3.0	<3.0	17	<3.0	160*F42	
Trichlorofluoromethane, ug/	l <5.0	<5.0	<5.0	<5.0	<5.0	
1,2,3-Trichloropropane, ug/	l <5.0	<5.0	<5.0	<5.0	<5.0	
1,2,4-Trimethylbenzene, ug/	l <5.0	<5.0	<5.0	<5.0	12	
1,3,5-Trimethylbenzene, ug/	l <5.0	<5.0	<5.0	<5.0	<5.0	
Vinyl Chloride, ug/l	<1.0	<1.0	19	<1.0	16	
o-Xylene, ug/l	<5.0	<5.0	<5.0	<5.0	<5.0	
m&p-Xylene, ug/l	<5.0	<5.0	<5.0	<5.0	<5.0	
Acetone, ug/l	<50	<50	<50	<50	<50	
2-Butanone (MEK), ug/l	<25	<25	<25	<25	<25	
4-methyl-2-pentanone (MIBK)	, ug/1 <25	<25	<25	<25	<25	
Carbon Disulfide, ug/l	<5.0	<5.0	<5.0	<5.0	<5.0	
Aluminum (Dissolved), mg/l	0.87	0.21	<0.20	0.56	<0.20	
Iron (Dissolved), mg/l	0.48	<0.050	0.84	0.12	9.7	



LOG NO: B0-60556 Received: 22 FEB 00 Reported: 08 MAR 00

Mr. Tony Damiano
Dames & Moore
1 North Dale Mabry, Suite 700
Tampa, FL 33609

Client PO. No.: TPAR02000019

Project: 32040.015 GNB Falkenburg

Sampled By: Client

Code: 09290038

REPORT OF RESULTS

LOG NO	SAMPLE DESCRIPTION	. LIOUID SA	MPLES		ATE/ IME SAMPLED		
					2 21 00/12.		_
60556-1 60556-2	MW-21 MW-14			0	2-21-00/12: 2-21-00/15:	08	
60556-3 60556-4	MW-6 MW-7		02-21-00/15:50 02-21-00/16:43				
60556-5	MW-20			0	2-21-00/17:	35	_
PARAMETER		60556-1	60556-2	60556-3	60556-4	60556-5	_
Lead (Disso	lved), mg/l	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	
Sulfate as	SO4 (375.4), mg/l	36	7.5	11	55	120	
Total Disso	lved Solids (160.1),	mg/l 120	140	110	240	330	



LOG NO: B0-60556 Received: 22 FEB 00 Reported: 08 MAR 00

Mr. Tony Damiano Dames & Moore 1 North Dale Mabry, Suite 700 Tampa, FL 33609

Client PO. No.: TPAR02000019

Project: 32040.015 GNB Falkenburg

Sampled By: Client

Code: 092900310

REPORT OF RESULTS

LOG NO	SAMPLE DESCRIPTION , LIQUID SAMPLES		DATE/ TIME SAMPLED
60556-6	MW-8 .		02-21-00/18:17
PARAMETER		60556-6	· · · · · · · · · · · · · · · · · · ·
Volatile (Organic Compounds (8260)		
Benzene,	ug/l	<1.0	
Bromoben	zene, ug/l	<5.0	
Bromochlo	oromethane, ug/l	<5.0	
Bromodic	hloromethane, ug/l	<5.0	
Bromoform	m, ug/l	<5.0	•
Bromometl	hane, ug/l	<10	
n-Butylbe	enzene, ug/l	<5.0	
sec-Buty	lbenzene, ug/l	<5.0	
-	ylbenzene, ug/l	<5.0	
	etrachloride, ug/l	<3.0	
	nzene, ug/l	<5.0	
	hane, ug/l	<10	·
Chlorofo		<5.0	<u> </u>
	thane, ug/l	<10	
	luene, ug/l	<5.0	
	toluene, ug/l	<5.0	
	bromomethane, ug/l	<5.0	
	omo-3-chloropropane, ug/l	<5.0	
	omoethane (EDB), ug/l	<5.0	
	ethane, ug/l	<5.0	
	lorobenzene, ug/l	<5.0	
	lorobenzene, ug/l	<5.0	
	lorobenzene, ug/l	<5.0	
	difluoromethane, ug/l	<10	
1,1-Dich	loroethane, ug/l	<5.0	



S a v a n n a h L'aboratories 6712 Benjamin Road, Suite 100 · Tampa, FL 33634 · (813) 885-7427 · Fax (813) 885-7049 · www.stlsavlab.com

LOG NO: B0-60556 Received: 22 FEB 00 Reported: 08 MAR 00

Mr. Tony Damiano
Dames & Moore
1 North Dale Mabry, Suite 700
Tampa, FL 33609

Client PO. No.: TPAR02000019

Project: 32040.015 GNB Falkenburg

Sampled By: Client

Code: 09290038

REPORT OF RESULTS

LOG NO	SAMPLE DESCRIPTION , LIQUID SAMPLE	DATE/ S TIME SAMPLED	
60556-6	ARAMETER 1,2-Dichloroethane, ug/l 1,1-Dichloroethylene, ug/l cis-1,2-Dichloroethylene, ug/l trans-1,2-Dichloroethylene, ug/l 1,2-Dichloropropane, ug/l 1,3-Dichloropropane, ug/l 2,2-Dichloropropane, ug/l 1,1-Dichloropropylene, ug/l cis-1,3-Dichloropropene, ug/l trans-1,3-Dichloropropene, ug/l trans-1,3-Dichloropropene, ug/l Ethylbenzene, ug/l Hexachlorobutadiene, ug/l Isopropylbenzene, ug/l 4-Isopropyltoluene, ug/l Methylene Chloride, ug/l Naphthalene, ug/l n-Propylbenzene , ug/l 5tyrene, ug/l 1,1,1,2-Tetrachloroethane, ug/l 1,1,2,2-Tetrachloroethane, ug/l Tetrachloroethylene, ug/l Toluene, ug/l Toluene, ug/l 1,2,3-Trichlorobenzene, ug/l	02-21-00/18:17	
PARAMETER		60556-6	
1,2-Dich		<3.0	
1,1-Dich	loroethylene, ug/l	<5.0	
cis-1,2-	Dichloroethylene, ug/l	160*F42	
trans-1,	2-Dichloroethylene, ug/l	5.1	•
1,2-Dich	loropropane, ug/l	<5.0	
1,3-Dich	loropropane, ug/l	<5.0	
2,2-Dich	loropropane, ug/l	<5.0	
1,1-Dich	loropropylene, ug/l	<5.0	
cis-1,3-1	Dichloropropene, ug/l	<5.0	
trans-1,	3-Dichloropropene, ug/l	<5.0	
Ethylben:	zene, ug/l	<5.0	
Hexachlo:	robutadiene, ug/l	<5.0	
Isopropy:	lbenzene, ug/l	<5.0	
4-Isopro	pyltoluene, ug/l	<5.0	
		<5.0	
-		<5.0	
n-Propyll	benzene , ug/l	<5.0	
Styrene,	ug/l	<5.0	
1,1,1,2-	Tetrachloroethane, ug/l	<5.0	
1,1,2,2-	Tetrachloroethane, ug/l	<5.0	
Tetrachlo	oroethylene, ug/l	<3.0	
Toluene,	ug/1	<5.0	•
1,2,3-Tr	ichlorobenzene, ug/l	<5.0	
1,2,4-Tr	ichlorobenzene, ug/l	<5.0	
	ichloroethane, ug/l	<5.0	
1,1,2-Tr	ichloroethane, ug/l	<5.0	



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LOG NO: B0-60556 Received: 22 FEB 00

Reported: 08 MAR 00

Mr. Tony Damiano
Dames & Moore
1 North Dale Mabry, Suite 700
Tampa, FL 33609

Client PO. No.: TPAR02000019

Project: 32040.015 GNB Falkenburg

Sampled By: Client

Code: 17330038

REPORT OF RESULTS

LOG NO SAMPLE DESCRIPTION , LIQUID SAMPLES		DATE/ TIME SAMPLED
60556-6 MW-8	_	02-21-00/18:17
PARAMETER	60556-6	
Trichloroethylene, ug/l	<3.0	
Trichlorofluoromethane, ug/l	<5.0	
1,2,3-Trichloropropane, ug/l	<5.0	
1,2,4-Trimethylbenzene, ug/l	<5.0	
1,3,5-Trimethylbenzene, ug/l	<5.0	
Vinyl Chloride, ug/l	140*F42	
o-Xylene, ug/l	<5.0	
m&p-Xylene, ug/l	<5.0	
Acetone, ug/l	<50	
2-Butanone (MEK), ug/l	<25	
4-methyl-2-pentanone (MIBK), ug/l	<25	
Carbon Disulfide, ug/l	<5.0	
Aluminum (Dissolved), mg/l	0.22	-
Iron (Dissolved), mg/l	75	
Lead (Dissolved), mg/l	<0.0050	
Sulfate as SO4 (375.4), mg/l	<5.0	
Total Dissolved Solids (160.1), mg/l	150	



LOG NO: B0-60556 Received: 22 FEB 00 Reported: 08 MAR 00

Mr. Tony Damiano

Dames & Moore

Client PO. No.: TPAR02000019

1 North Dale Mabry, Suite 700 Tampa, FL 33609

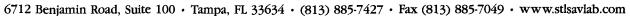
Project: 32040.015 GNB Falkenburg

Sampled By: Client

Code: 09290038

REPORT OF RESULTS

	REPOR	T OF RESULTS			Page 8	
LOG NO	SAMPLE DESCRIPTION , QC REE	PORT FOR LIQUID	SAMPLES	DATE/ TIME SAMPLE	D .	
60556-9	Method Blank Accuracy (%Rec) Precision (%RPD) Date Analyzed			,		
PARAMETER				60556-9	60556-10	
Volatile C	Organic Compounds (8260)	·				
Benzene,		<1.0	116 %	0 %	03.01.00	
Bromobenz	zene, ug/l	<5.0			03.01.00	
Bromochlo	promethane, ug/l	<5.0			03.01.00	
Bromodich	nloromethane, ug/l	<5.0			03.01.00	
Bromoform	n, ug/l	<5.0			03.01.00	
Bromometh	nane, ug/l	<10			03.01.00	
n-Butylbe	enzene, ug/l	<5.0			03.01.00	
sec-Buty]	lbenzene, ug/l	<5.0			03.01.00	
tert-Buty	/lbenzene, ug/l	<5.0			03.01.00	
Carbon Te	etrachloride, ug/l	<3.0			03.01.00	
Chlorober	nzene, ug/l	<5.0	115 %	1.7 %	03.01.00	
Chloroeth	nane, ug/l	<10			03.01.00	
Chlorofor	cm, ug/l	<5.0			03.01.00	
Chloromet	chane, ug/l	<10			03.01.00	
Chloroto]	luene, ug/l	<5.0			03.01.00	
4-Chlorot	coluene, ug/l	<5.0	 -		03.01.00	
Chlorodik	oromomethane, ug/l	<5.0			03.01.00	
1,2-Dibro	omo-3-chloropropane, ug/l	<5.0			03.01.00	
1,2-Dibro	omoethane (EDB), ug/l	<5.0			03.01.00	
Dibromome	ethane, ug/l	<5.0			03.01.00	
1,2-Dichl	lorobenzene, ug/l	<5.0			03.01.00	
1,3-Dichl	lorobenzene, ug/l	<5.0			03.01.00	





LOG NO: B0-60556 Received: 22 FEB 00

Reported: 08 MAR 00

Mr. Tony Damiano
Dames & Moore
1 North Dale Mabry, Suite 700
Tampa, FL 33609

Client PO. No.: TPAR02000019

Project: 32040.015 GNB Falkenburg

Sampled By: Client

Code: 092900310

REPORT OF RESULTS

LOG NO	SAMPLE DESCRIPTION , Q	C REPORT	FOR LIQUID	SAMPLES	DATE/ TIME SAMPLED	
60556-7 60556-8 60556-9 60556-10	Method Blank Accuracy (%Rec) Precision (%RPD) Date Analyzed					
PARAMETER		. 4	60556-7	60556-8	60556-9	60556-10
1,4-Dichlo	robenzene, ug/l		<5.0			03.01.00
Dichlorodi	fluoromethane, ug/l		<10			03.01.00
1,1-Dichlo	roethane, ug/l		<5.0			03.01.00
1,2-Dichlo	roethane, ug/l		<3.0			03.01.00
1,1-Dichlo	roethylene, ug/l		<5.0	100 %	0 %	03.01.00
cis-1,2-Di	chloroethylene, ug/l		<5.0			03.01.00
trans-1,2-	Dichloroethylene, ug/l		<5.0			03.01.00
1,2-Dichlo	ropropane, ug/l		<5.0		·	03.01.00
1,3-Dichlo	ropropane, ug/l		<5.0			03.01.00
2,2-Dichlo	ropropane, ug/l		<5.0			03.01.00
1,1-Dichlo	ropropylene, ug/l		<5.0			03.01.00
cis-1,3-Di	chloropropene, ug/l		< 5 . 0			03.01.00
trans-1,3-	Dichloropropene, ug/l		<5.0			03.01.00
Ethylbenze	ne, ug/l		<5.0			03.01.00
Hexachloro	butadiene, ug/l		<5.0			03.01.00
Isopropylb	enzene, ug/l		<5.0			03.01.00
4-Isopropy	ltoluene, ug/l		<5.0			03.01.00
Methylene	Chloride, ug/l		<5.0			03.01.00
Naphthalen	ue, ug/l		<5.0			03.01.00
n-Propylbe	nzene , ug/l		<5.0			03.01.00
Styrene, u	ıg/1		<5.0			03.01.00
1,1,1,2-Te	trachloroethane, ug/l		<5.0			03.01.00
1,1,2,2-Te	trachloroethane, ug/l		<5.0			03.01.00



LOG NO: B0-60556 Received: 22 FEB 00

Reported: 08 MAR 00

Mr. Tony Damiano
Dames & Moore
1 North Dale Mabry, Suite 700
Tampa, FL 33609

Client PO. No.: TPAR02000019

Project: 32040.015 GNB Falkenburg

Sampled By: Client

Code: 16450039

REPORT OF RESULTS

		DATE/	Page 10		
LOG NO SAMPLE DESCRIPTION ,				TIME SAMPLED	
60556-7 Method Blank 60556-8 Accuracy (%Rec) 60556-9 Precision (%RPD) 60556-10 Date Analyzed					
PARAMETER		60556-7	60556-8	60556-9	
Tetrachloroethylene, ug/l Toluene, ug/l 1,2,3-Trichlorobenzene, ug/l		<3.0 <5.0 <5.0		 3.6 %	03.01.00 03.01.00 03.01.00
<pre>1,2,4-Trichlorobenzene, ug/l 1,1,1-Trichloroethane, ug/l</pre>		<5.0 <5.0			03.01.00 03.01.00
1,1,2-Trichloroethane, ug/l Trichloroethylene, ug/l		<5.0 <3.0	 115 %		03.01.00 03.01.00
Trichlorofluoromethane, ug/l 1,2,3-Trichloropropane, ug/l		<5.0 <5.0			03.01.00
1,2,4-Trimethylbenzene, ug/l 1,3,5-Trimethylbenzene, ug/l		<5.0 <5.0			03.01.00
Vinyl Chloride, ug/l o-Xylene, ug/l		<1.0 <5.0			03.01.00 03.01.00 03.01.00
m&p-Xylene, ug/l Acetone, ug/l 2-Butanone (MEK), ug/l		<5.0 <50 <25			03.01.00 03.01.00
4-methyl-2-pentanone (MIBK), ug Carbon Disulfide, ug/l	/1	<25 <5.0			03.01.00 03.01.00
Aluminum (Dissolved), mg/l		<0.20	116 %	7.4 %	03.02.00
Iron (Dissolved), mg/l	-	<0.050	113 %	8.8 %	03.02.00
Lead (Dissolved), mg/l		<0.0050	106 %	8.5 %	03.02.00
Sulfate as SO4 (375.4), mg/l		<5.0	89 %		02.25.00



LOG NO: B0-60556

Received: 22 FEB 00

Reported: 08 MAR 00

Mr. Tony Damiano
Dames & Moore
1 North Dale Mabry, Suite 700
Tampa, FL 33609

Client PO. No.: TPAR02000019

Project: 32040.015 GNB Falkenburg

Sampled By: Client

Code: 16450039

REPORT OF RESULTS

Page 11

LOG NO	SAMPLE DESCRIPTION , QC REI	PORT FOR LIQUID	SAMPLES	DATE/ TIME SAMPLED	J
60556-7 60556-8 60556-9 60556-10	Method Blank Accuracy (%Rec) Precision (%RPD) Date Analyzed				
PARAMETER		60556-7	60556-8	60556-9	60556-10
Total Disso	lved Solids (160.1), mg/l	<5.0	100 %	0.50 %	02.24.00

Method: EPA SW-846, EPA 600/4-79-020

FDOH Certification: E84282

*F42 = Target compounds were quantitated from a secondary dilution due to analyte abundance in the sample.

Andre Rachmaninoff, Project Manager

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5102 LaRoche Avenue, Savannah, GA 31404

Phone: (912) 354-7858 Fax: (912) 352-0165

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ANALYSIS REQUEST AND CHAIN OF CUSTODY RECORD

TOTAL STATE OF THE PROPERTY OF	4					$\overline{\mathcal{O}}$	2846 In	dustrial Plaz	za Drive	, Tallah	assee, Fi	_ 32301		Phone: (850) 878-3994	Fax: (850) 878	-9504
Savannah Laboratories				900 Lakesid			keside Drive, Mobile, AL 36693			Phone: (334) 666-6633	Fax: (334) 666	-6696				
Laboratories a division of Severn Trent Laboratories, Inc.						\circ	6712 Be	njamin Rd.	., Suite	100, Tar	npa, FL	33634		Phone: (813) 885-7427	Fax: (813) 885	-7049
CASE TO LES MAN AND STATE OF S	PROJECT LOCATION (STATE)		IATRI) TYPE					REQUI	IRED	ANAL	YSES				PAGE	OF	
CNB Folkenburg 32040.015 L (LAB) PROJECT MANAGER P.O. NUMBER	CONTRACT NO.	ÌТ	П	0											STANDARD REP DELIVERY	ORT	<u> </u>
A. DAMIANO TA1-R-0200-0019 IENT (SITE) PM CLIENT PHONE (\$13) 875-1115	CLIENT FAX	ايا		19	.	. •										_	
IENT (SITE) PM	CLIENT FAX	DICA	H	VEN	74 C	ZDZ,	^								DATE DUE EXPEDITED REP		_
IENT NAME CLIENT EMAIL		[§]		SOI.	م`م	` - ,	Ç		Ì						DELIVERY)
CNB		RAB (ğ	d /	7	- 1		ĺ			. **			(SURCHARGE)		-
CNB JENT ADDRESS		COMPOSITE (C) OR GRAB (G) INDICATE AQUEOUS (WATER)	SOLID OR SEMISOLID	S S	X (T/D)	So	8								DATE DUE		
DMPANY CONTRACTING THIS WORK (if applicable):		(C) WATE	EMIS	US LI					727	aani.	MitH		†		NUMBER OF CO	DLERS SUBMI	TTED PER
DAY W		SITE US ()	S RS	SUEO	X		べき			WAY:					SHIPMENT:		
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1-21-00 12:45P mw-21	·	CX	\Box		2		3										
3:08P mw-14		6 x			2	1	3					•					
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LOG NO: B0-60578 Received: 24 FEB 00 Reported: 08 MAR 00

Mr. Tony Damiano Dames & Moore 1 North Dale Mabry, Suite 700 Tampa, FL 33609

Client PO. No.: TPAR02000019

Project: 32040.015/GNB Falkenburg

Sampled By: Client

Code: 09300038

REPORT OF RESULTS

LOG NO	SAMPLE DESCRIPTION ,		F RESULTS		DATE/ TIME SAMPLED	Page 1
60578-1	MW-4 (C.U.)				02-23-00/11:	35
60578-2	MW-3 (C.U.)				02-23-00/12:	11
60578-3	MW-1				02-23-00/13:	27
60578-4	MW-10				02-23-00/14:	05
60578-5	MW-2				02-23-00/14:	42
PARAMETER		60578-1	60578-2	60578-3	60578-4	60578-5
Volatile On	ganic Compounds (8260)					
Benzene, ı	1g/l	<5.0	<50	<1.0	<1.0	<1.0
Bromobenze	ene, ug/l	<25	<250	<5.0	<5.0	<5.0
Bromochlor	comethane, ug/l	<25	<250	<5.0	<5.0	<5.0
Bromodichl	Loromethane, ug/l	<25	<250	<5.0	<5.0	<5.0
Bromoform,	ug/l	<25	<250	<5.0		<5.0
Bromometha	ane, ug/l	<50	<500	<10	<10	<10
n-Butylber	nzene, ug/l	<25	<250	<5.0	<5.0	<5.0
sec-Butylk	penzene, ug/l	<25	·· <250	<5.0	<5.0	<5.0
tert-Butyl	lbenzene, ug/l	<25	<250	<5.0	<5.0	<5.0
Carbon Tet	crachloride, ug/l	<15	<150	<3.0	<3.0	<3.0
Chlorobenz	zéne, ug/l	<25	<250	<5.0	<5.0	<5.0
Chloroetha	ane, ug/l	<50	<500	<10	<10	<10
Chloroform	n, ug/l	<25	<250	<5.0	<5.0	<5.0
Chlorometh	nane, ug/l	<50	<500	<10	<10	<10
Chlorotolu	uene, ug/l	<25	<250	<5.0	<5.0	<5.0
4-Chloroto	oluene, ug/l	<25	<250	<5.0	<5.0	<5.0
Chlorodib	comomethane, ug/l	<25	<250	<5.0	<5.0	<5.0
1,2-Dibro	no-3-chloropropane, ug/	1 <25	<250	<5.0	<5.0	<5.0
1,2-Dibrom	moethane (EDB), ug/l	<25	<250	<5.0	<5.0	<5.0
Dibromomet	chane, ug/l	<25	<250	<5.0	<5.0	<5.0
1,2-Dichlo	orobenzene, ug/l	<25	<250	<5.0	<5.0	<5.0



LOG NO: B0-60578 Received: 24 FEB 00

Reported: 08 MAR 00

Mr. Tony Damiano
Dames & Moore
1 North Dale Mabry, Suite 700
Tampa, FL 33609

Client PO. No.: TPAR02000019

Project: 32040.015/GNB Falkenburg

Sampled By: Client Code: 120100310

REPORT OF RESULTS

LOG NO	SAMPLE DESCRIPTION ,	LIQUID SA	MPLES		DATE/ TIME SAMPLED	·
60578-1	MW-4 (C.U.)				02-23-00/11:	35
60578-2	MW-3 (C.U.)			•	02-23-00/12:	
60578-3	MW-1			•	02-23-00/13:	27
60578-4	MW-10				02-23-00/14:	
60578-5	MW-2				02-23-00/14:	42
PARAMETER		60578-1	60578-2	60578-3	60578-4	60578-5
1,3-Dichlo	probenzene, ug/l	<25	<250	<5.0	<5.0	<5.0
1,4-Dichlo	robenzene, ug/l	<25	<250	<5.0	<5.0	<5.0
Dichlorodi	.fluoromethane, ug/l	<50	<500	<10	<10	<10
1,1-Dichlo	roethane, ug/l	<25	<250	<5.0	<5.0	<5.0
1,2-Dichlo	roethane, ug/l	<15	<150	<3.0	<3.0	<3.0
1,1-Dichlo	proethylene, ug/l	<25	<250	<5.0	<5.0	<5.0
cis-1,2-Di	.chloroethylene, ug/l	740	<250	<5.0	<5.0	21
trans-1,2-	Dichloroethylene, ug/l	. <25	<250	<5.0	<5.0	<5.0
1,2-Dichlo	ropropane, ug/l	<25	<250	<5.0	<5.0	<5.0
1,3-Dichlo	ropropane, ug/l	<25	<250	<5.0	<5.0	<5.0
2,2-Dichlo	propropane, ug/l	<25	<250	<5.0	<5.0	<5.0
1,1-Dichlo	ropropylene, ug/l	<25	<250	<5.0	<5.0	<5.0
cis-1,3-Di	.chloropropene, ug/l	<25	<250	<5.0	<5.0	<5.0
trans-1,3-	Dichloropropene, ug/l	<25	<250	<5.0	<5.0	<5.0
Ethylbenze	ene, ug/l	<25	2400	<5.0	<5.0	<5.0
Hexachloro	butadiene, ug/l	<25	<250	<5.0	<5.0	<5.0
Isopropylb	enzene, ug/l	<25	<250	<5.0	<5.0	<5.0
4-Isopropy	ltoluene, ug/l	<25	<250	<5.0	<5.0	<5.0
Methylene	Chloride, ug/l	<25	<250	<5.0	<5.0	<5.0
Naphthaler	ne, ug/l	<25	<250	<5.0	<5.0	<5.0
n-Propylbe	enzene , ug/l	<25	<250	<5.0	<5.0	<5.0
Styrene, u	1g/l	<25	260	<5.0	<5.0	<5.0



Mr. Tony Damiano
Dames & Moore
1 North Dale Mabry, Suite 700
Tampa, FL 33609

Project: 32040.015/GNB Falkenburg

Client PO. No.: TPAR02000019

Sampled By: Client

Code: 17050038

REPORT OF RESULTS

LOG NO SAMPLE DESCRIE	PTION , LIQUID SA	MPLES		DATE/ TIME SAMPLED	· ·
60578-1 MW-4 (C.U.)				02-23-00/11:	35
60578-2 MW-3 (C.U.)				02-23-00/12:	11
60578-3 MW-1				02-23-00/13:	27
60578-4 MW-10				02-23-00/14:	05
60578-5 MW-2				02-23-00/14:	42
PARAMETER	60578-1	60578-2	60578-3	60578-4	60578-5
1,1,1,2-Tetrachloroethane	e, ug/l <25	<250	<5.0	<5.0	<5.0
1,1,2,2-Tetrachloroethane	e, ug/l <25	<250	<5.0	<5.0	<5.0
Tetrachloroethylene, ug/l	<15	<150	<3.0	<3.0	<3.0
Toluene, ug/l	<25	230	<5.0	<5.0	<5.0
1,2,3-Trichlorobenzene, u	ıg/l <25	<250	<5.0	<5.0	<5.0
1,2,4-Trichlorobenzene, u	ıg/1 <25	<250	<5.0	<5.0	<5.0
1,1,1-Trichloroethane, ug	g/l <25	<250	<5.0	<5.0	<5.0
1,1,2-Trichloroethane, ug	y/l <25	<250	<5.0	<5.0	<5.0
Trichloroethylene, ug/l	<15	<150	<3.0	<3.0	15
Trichlorofluoromethane, u	ıg/1 <25	<250	<5.0	<5.0	<5.0
1,2,3-Trichloropropane, u	ıg/l <25	<250	<5.0	<5.0	. <5.0
1,2,4-Trimethylbenzene, u	ıg/l <25	<250	<5.0	<5.0	<5.0
1,3,5-Trimethylbenzene, u	ıg/1 <25	<250	<5.0	<5.0	<5.0
Vinyl Chloride, ug/l	190	<50	<1.0	<1.0	21
o-Xylene, ug/l	<25	<250	<5.0	<5.0	<5.0
m&p-Xylene, ug/l	<25	370	<5.0	<5.0	<5.0
Acetone, ug/l	<250	<2500	<50	<50	<50
2-Butanone (MEK), ug/l	<120	<1200	<25	<25	<25
4-methyl-2-pentanone (MIE		<1200	<25	<25	<25
Carbon Disulfide, ug/l	<25	<250	<5.0	<5.0	<5.0
Aluminum, mg/l	0.47	<0.20	1.8	0.24	22
Aluminum (Dissolved), mg/l	<0.20	<0.20	2.1	0.22	24



LOG NO: B0-60578 Received: 24 FEB 00

Reported: 08 MAR 00

Mr. Tony Damiano
Dames & Moore
1 North Dale Mabry, Suite 700
Tampa, FL 33609

Client PO. No.: TPAR02000019

Project: 32040.015/GNB Falkenburg

Sampled By: Client

Code: 09300038

REPORT OF RESULTS

LOG NO	SAMPLE DESCRIPTION	, LIQUID S	AMPLES		DATE/ TIME SAMPLE	D
60578-1 60578-2	MW-4 (C.U.) MW-3 (C.U.)				02-23-00/11 02-23-00/12	
60578-3	MW-1				02-23-00/12	
60578-4 60578-5	MW-10 MW-2				02-23-00/14 02-23-00/14	4
PARAMETER			60578-2	60578-3	60578-4	60578-5
Iron, mg/l			0.36	<0.050	0.074	11
Iron (Disso	lved), mg/l	12	0.37	<0.050	<0.050	12
Lead, mg/l		<0.0050	<0.0050	<0.0050	<0.0050	<0.0050
Lead (Disso	lved), mg/l	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050
Sulfate as	SO4 (375.4), mg/l	90	42	84	<5.0	410
Total Disso	lved Solids (160.1),	mg/l 400	170	260	110	870



Mr. Tony Damiano Dames & Moore 1 North Dale Mabry, Suite 700 Tampa, FL 33609

Client PO. No.: TPAR02000019

Project: 32040.015/GNB Falkenburg

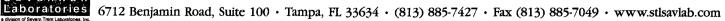
Sampled By: Client

Code: 09300038

REPORT OF RESULTS

		Page	5	
DATE,	/			
CIME	SAMPLED			

LOG NO SAMPLE DESCRIPTION , LIQUID SAMPLES		DATE/ FIME SAMPLED	
60578-6 MW-11 60578-7 MW-9 60578-8 DUP	(02-23-00/16: 02-23-00/17: 02-23-00	
PARAMETER	60578-6	60578-7	60578-8
Volatile Organic Compounds (8260)			
Benzene, ug/l	<1.0	<1.0	<1.0
Bromobenzene, ug/l	<5.0		
Bromochloromethane, ug/l	<5.0		
Bromodichloromethane, ug/l	<5.0		
Bromoform, ug/l	<5.0	<5.0	<5.0
Bromomethane, ug/l	<10	<5.0	<10
n-Butylbenzene, ug/l	<5.0	<5.0	<5.0
sec-Butylbenzene, ug/l	<5.0	<5.0	<5.0
tert-Butylbenzene, ug/l	<5.0	<5.0	<5.0
Carbon Tetrachloride, ug/l	<3.0	<3.0	<3.0
Chlorobenzene, ug/1	<5.0	<5.0	<5.0
Chloroethane, ug/l	<10	<10	<10
Chloroform, ug/l	<5.0	<5.0	<5.0
Chloromethane, ug/l	<10	<10	<10
Chlorotoluene, ug/l	<5.0	<5.0	<5.0
4-Chlorotoluene, ug/l	<5.0	<5.0	<5.0
Chlorodibromomethane, ug/l	<5.0	<5.0	<5.0
1,2-Dibromo-3-chloropropane, ug/l	<5.0	<5.0	<5.0
1,2-Dibromoethane (EDB), ug/l	<5.0	<5.0	<5.0
Dibromomethane, ug/l	<5.0	<5.0	<5.0
1,2-Dichlorobenzene, ug/l	<5.0	<5.0	<5.0
1,3-Dichlorobenzene, ug/l	<5.0	<5.0	<5.0
1,4-Dichlorobenzene, ug/l	<5.0	<5.0 	<5.0





Mr. Tony Damiano Dames & Moore 1 North Dale Mabry, Suite 700 Tampa, FL 33609

Client PO. No.: TPAR02000019

Project: 32040.015/GNB Falkenburg

Sampled By: Client

Code: 120100310

REPORT OF RESULTS

LOG NO	SAMPLE DESCRIPTION , L	•	DATE/ TIME SAMPLED	rage o
60578-6 60578-7 60578-8	MW-11 MW-9 DUP		02-23-00/16: 02-23-00/17: 02-23-00	
PARAMETER		60578-6	60578-7	60578-8
Dichloro	difluoromethane, ug/l	<10	<10	<10
	loroethane, ug/l	<5.0	<5.0	<5.0
	loroethane, ug/l	<3.0		<3.0
	loroethylene, ug/l	<5.0		<5.0
	Dichloroethylene, ug/l	35	140	23
	2-Dichloroethylene, ug/l	<5.0		<5.0
	loropropane, ug/l	<5.0	<5.0	<5.0
	loropropane, ug/l	<5.0	<5.0	<5.0
	loropropane, ug/l	<5.0		<5.0
	loropropylene, ug/l	<5.0		<5.0
· · · · · · · · · · · · · · · · · · ·	Dichloropropene, ug/l	<5.0		<5.0
· · · · · · · · · · · · · · · · · · ·	3-Dichloropropene, ug/l	<5.0	<5.0	<5.0
-	zene, ug/l	<5.0	<5.0	<5.0
	robutadiene, ug/l	<5.0		<5.0
	lbenzene, ug/l	<5.0		<5.0
	pyltoluene, ug/l	<5.0		<5.0
•	e Chloride, ug/l	<5.0	<5.0	<5.0
_	ene, ug/l	<5.0		<5.0
	benzene , ug/l	<5.0		<5.0
Styrene,		<5.0		<5.0
	Tetrachloroethane, ug/l	<5.0		<5.0
	Tetrachloroethane, ug/l	<5.0		<5.0
	oroethylene, ug/l	<3.0		<3.0
Toluene,	ug/1	<5.0	<5.0	<5.0



Mr. Tony Damiano Dames & Moore

Client PO. No.: TPAR02000019

1 North Dale Mabry, Suite 700 Tampa, FL 33609

Project: 32040.015/GNB Falkenburg

Sampled By: Client

Code: 17050038

REPORT OF RESULTS

LOG NO	SAMPLE DESCRIPTION , LIQUID SAMPLES	5	DATE/ TIME SAMPLE)
60578-6 60578-7 60578-8	MW-11 MW-9 DUP		02-23-00/16: 02-23-00/17: 02-23-00	
PARAMETER		60578-6	60578-7	
1,2,3-Trice 1,2,4-Trice 1,1,2-Trice Trichlorous Trichlorous 1,2,3-Trice 1,2,4-Trice 1,3,5-Trice Vinyl Chlorous O-Xylene, M&p-Xylene Acetone, 12 2-Butanone 4-methyl-2	chlorobenzene, ug/l chlorobenzene, ug/l chloroethane, ug/l chloroethane, ug/l chloromethane, ug/l fluoromethane, ug/l chloropropane, ug/l methylbenzene, ug/l methylbenzene, ug/l methylbenzene, ug/l oride, ug/l ug/l e, ug/l	<5.0 <5.0 <5.0 <5.0 <5.0 <5.0 <10 <5.0 <5.0 <5.0 <5.0 <25 <25	<5.0 <5.0 <5.0 <5.0 <5.0 <5.0 <5.0 <5.0	<5.0 <5.0 <5.0 <5.0 <5.0 <5.0 <5.0 <5.0
Aluminum, r	•	85	60	24
Aluminum (I	Dissolved), mg/l	76	35	24
Iron, mg/l		16	20	12
Iron (Disso	olved), mg/l	17	20	11
Lead, mg/l		<0.0050	<0.0050	<0.0050



LOG NO: B0-60578

Received: 24 FEB 00 Reported: 08 MAR 00

Mr. Tony Damiano
Dames & Moore
1 North Dale Mabry, Suite 700
Tampa, FL 33609

Client PO. No.: TPAR02000019

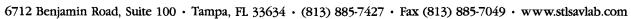
Project: 32040.015/GNB Falkenburg

Sampled By: Client

Code: 09300038

REPORT OF RESULTS

LOG NO	SAMPLE DESCRIPTION , LIQUID SAMPLES		ATE/ IME SAMPLED	
60578-6 60578-7 60578-8	MW-11 MW-9 DUP	O)2-23-00/16:)2-23-00/17:)2-23-00	
PARAMETER		60578-6	60578-7	60578-8
Lead (Disso	olved), mg/l	<0.0050	<0.0050	<0.0050
Sulfate as	SO4 (375.4), mg/l	730	730	420
Total Disso	olved Solids (160.1), mg/l	1300	1200	880





LOG NO: B0-60578

Received: 24 FEB 00

Reported: 08 MAR 00

Mr. Tony Damiano
Dames & Moore
1 North Dale Mabry, Suite 700
Tampa, FL 33609

Client PO. No.: TPAR02000019

Project: 32040.015/GNB Falkenburg

Sampled By: Client

Code: 104900310

REPORT OF RESULTS

		KEEOKI O	. KESOLIS			rage
LOG NO	SAMPLE DESCRIPTION ,	QC REPORT	FOR LIQUID	SAMPLES	DATE/ TIME SAMPLED	
60578-9	Method Blank					
60578-10	Accuracy (%Rec)					
60578-11	Precision (%RPD)	•				
60578-13	Date Digested					
60578-12	_					
PARAMETER					60578-13	
Volatile Or	ganic Compounds (8260)					
Benzene, u	1g/1	<1.0	98 %	0.0 %		03.05.00
Bromobenze	ene, ug/l	<5.0				03.05.00
Bromochlor	romethane, ug/l	<5.0			·	03.05.00
Bromodichl	oromethane, ug/l	<5.0				03.05.00
Bromoform,	ug/l	<5.0				03.05.00
Bromometha	ne, ug/l	<10				03.05.00
n-Butylber	nzene, ug/l	<5.0				03.05.00
sec-Butylk	enzene, ug/l	<5.0				03.05.00
tert-Butyl	benzene, ug/l	< 5.0				03.05.00
Carbon Tet	rachloride, ug/l	<3.0				03.05.00
Chlorobenz	zene, ug/l	<5.0	91 %	2.2 %		03.05.00
Chloroetha	ne, ug/l	<10				03.05.00
Chloroform	n, ug/l	<5.0				03.05.00
Chlorometh	nane, ug/l	<10				03.05.00
Chlorotolu	iene, ug/l	<5.0				03.05.00
4-Chloroto	oluene, ug/l	<5.0				03.05.00
Chlorodibr	comomethane, ug/l	<5.0				03.05.00
1,2-Dibrom	no-3-chloropropane, ug/	1 <5.0				03.05.00
1,2-Dibrom	noethane (EDB), ug/l	<5.0				03.05.00
Dibromomet	chane, ug/l	<5.0				03.05.00
1,2-Dichlo	probenzene, ug/l	<5.0				03.05.00



LOG NO: B0-60578

Received: 24 FEB 00

Reported: 08 MAR 00 Mr. Tony Damiano

Dames & Moore 1 North Dale Mabry, Suite 700 Tampa, FL 33609

Project: 32040.015/GNB Falkenburg

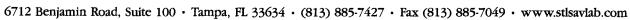
Client PO. No.: TPAR02000019

Sampled By: Client

Code: 120100310

REPORT OF RESULTS

LOG NO SAMPLE DESCRIPTION , QC REPORT 60578-9 Method Blank 60578-10 Accuracy (*Rec) 60578-11 Precision (*RPD) 60578-13 Date Digested 60578-12 Date Analyzed PARAMETER 60578-9	. KESOLIS			rage 10
60578-10 Accuracy (*Rec) 60578-11 Precision (*RPD) 60578-13 Date Digested 60578-12 Date Analyzed	FOR LIQUID	SAMPLES	DATE/ TIME SAMPLED	
60578-10 Accuracy (*Rec) 60578-11 Precision (*RPD) 60578-13 Date Digested 60578-12 Date Analyzed				
60578-11 Precision (%RPD) 60578-13 Date Digested 60578-12 Date Analyzed				
60578-12 Date Analyzed				
60578-12 Date Analyzed		•		
PARAMETER 60578-9				
	60578-10	60578-11	60578-13	60578-12
1,3-Dichlorobenzene, ug/l <5.0				03.05.00
1,4-Dichlorobenzene, ug/l <5.0				03.05.00
Dichlorodifluoromethane, ug/l <10				03.05.00
1,1-Dichloroethane, ug/l <5.0				03.05.00
1,2-Dichloroethane, ug/l <3.0				03.05.00
1,1-Dichloroethylene, ug/l <5.0	82 %	4.9 %		03.05.00
cis-1,2-Dichloroethylene, ug/l <5.0				03.05.00
trans-1,2-Dichloroethylene, ug/l <5.0				03.05.00
1,2-Dichloropropane, ug/l <5.0				03.05.00
1,3-Dichloropropane, ug/l <5.0				03.05.00
2,2-Dichloropropane, ug/l <5.0				03.05.00
1,1-Dichloropropylene, ug/l <5.0				03.05.00
cis-1,3-Dichloropropene, ug/l <5.0				03.05.00
trans-1,3-Dichloropropene, $ug/1$ <5.0				03.05.00
Ethylbenzene, ug/l <5.0				03.05.00
Hexachlorobutadiene, ug/l <5.0				03.05.00
Isopropylbenzene, ug/l <5.0				03.05.00
4-Isopropyltoluene, ug/l <5.0				03.05.00
Methylene Chloride, ug/l <5.0				03.05.00
Naphthalene, ug/l <5.0	~ ~ ~			03.05.00
n-Propylbenzene , ug/l <5.0				03.05.00
Styrene, ug/l <5.0				03.05.00





LOG NO: B0-60578 Received: 24 FEB 00

Reported: 08 MAR 00

Mr. Tony Damiano Dames & Moore 1 North Dale Mabry, Suite 700

Tampa, FL 33609

Client PO. No.: TPAR02000019

Project: 32040.015/GNB Falkenburg

Sampled By: Client

Code: 120100310

		REPORT OF RESULTS				Page 11	
LOG NO	SAMPLE DESCRIPTION ,	QC REPORT	FOR LIQUID	SAMPLES	DATE/ TIME SAMPLED		
60578-9	Method Blank						
60578-10	Accuracy (%Rec)						
60578-11	Precision (%RPD)						
60578-13	Date Digested				*		
60578-12	Date Analyzed						
PARAMETER			60578-10		60578-13	60578-12	
1 1 1 2-Te	etrachloroethane, ug/l	<5.0				03.05.00	
	etrachloroethane, ug/l	<5.0				03.05.00	
	coethylene, ug/l	<3.0				03.05.00	
Toluene, u		<5.0	89 %	2.2 %		03.05.00	
	chlorobenzene, ug/l	<5.0				03.05.00	
	chlorobenzene, ug/l	<5.0	,			03.05.00	
	chloroethane, ug/l	<5.0				03.05.00	
	chloroethane, ug/l	<5.0				03.05.00	
	ethylene, ug/l	<3.0	92 %	8.7 %		03.05.00	
	fluoromethane, ug/l	<5.0				03.05.00	
	chloropropane, ug/l	<5.0				03.05.00	
	methylbenzene, ug/l	<5.0				03.05.00	
	methylbenzene, ug/l	<5.0				03.05.00	
	oride, ug/l	<1.0		· 		03.05.00	
o-Xylene,		<5.0				03.05.00	
m&p-Xylene	_	<5.0				03.05.00	
Acetone, u		<50		~		03.05.00	
	(MEK), ug/l	<25	-			03.05.00	
	2-pentanone (MIBK), ug					03.05.00	
-	sulfide, ug/l	<5.0				03.05.00	
Aluminum, n	ng/l	<0.20	94 %	0.21 %	02.29.00	03.06.00	
Aluminum (I	Dissolved), mg/l	<0.20	94 %	0.21 %	02.29.00	03.06.00	



LOG NO: B0-60578 Received: 24 FEB 00

Reported: 08 MAR 00

Mr. Tony Damiano
Dames & Moore
1 North Dale Mabry, Suite 700
Tampa, FL 33609

Client PO. No.: TPAR02000019

Project: 32040.015/GNB Falkenburg

Sampled By: Client

Code: 120100310

REPORT OF RESULTS

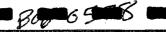
Page 12

LOG NO	SAMPLE DESCRIPTION	, QC REPORT	FOR LIQUID	SAMPLES	DATE/ TIME SAMPLEI	
60578-9 60578-10 60578-11 60578-13 60578-12	Method Blank Accuracy (%Rec) Precision (%RPD) Date Digested Date Analyzed					
PARAMETER		60578-9	60578-10	60578-11	60578-13	60578-12
Iron, mg/l		<0.050	94 %	0.84 %	02.29.00	03.06.00
Iron (Disso	lved), mg/l	<0.050	94 %	0.84 %	02.29.00	03.06.00
Lead, mg/l		<0.0050	91 %	0.40 %	02.29.00	03.06.00
Lead (Disso	lved), mg/l	<0.0050	91 %	0.40 %	02.29.00	03.06.00
Sulfate as	SO4 (375.4), mg/l	<5.0	88 %	6.2 %		03.06.00
Total Disso	lved Solids mg/l	<5.0	99 %	0.10 %		02.25.00

Method: EPA SW-846, EPA 600/4-79-020

FDOH Certification: E84282

Andre Rachmaninoff, Project Manager



Labor a division of Severn	ato Trent Labo	a II TIES ratories, Inc.

GN 3 TAMPA FAIKENBURD STL (LAB) PROJECT MANAGER

A. DAMIANO

FORMER GNB

SAMPLE

TIME

11:35 A

12: il P 1:270

2:05 8 2:427

H: 20

5:40

RELINQUISHED BY: (SIGNATURE)

RECEIVED BY: (SIGNATURE)

PROJECT REFERENCE -

CLIENT NAME

DATE

2-23-00

ANALYSIS REQUEST AND CHAIN OF CUST

PROJECT NO.

P.O. NUMBER

CLIENT PHONE

CLIENT EMAIL

mw-4 (c.s.)

mw-3 (c.u.)

FAIKENBURG RD, TAMPA, FL

mw-1 m W-10

mw-2 mw-11

mw-9

DUP

DATE

DATE

2-11-00

32040,015

SAMPLE IDENTIFICATION

IN OF CUSTODY	R	EC	OF	?D		0000	2846 In	dustrial P eside Dri	laza Dri ve, Mob	Savannah /e, Tallah ile, AL 36 e 100, Tal	assee, F 693	L 3230°	1	Phone:	: (850) 8 : (334) 6	54-7858 78-3994 66-6633 85-7427	Fax: (85	12) 352-0165 50) 878-9504 34) 666-6696 13) 885-7049	4 6
PROJECT LOCATION (STATE)			TRI)	<				REQ	JIREC	ANAL	YSES				PAGE		(OF	
CONTRACT NO. CLIENT FAX	(C) OR GRAB (G) INDICATE	AQUEOUS (WATER)	SOLID OR SEMISOLID	MONAQUEOUS LIQUID (OIL, SOLVENT, ETC)	Al, Pb, Fe (T/D)	SO4, TOS						1. 高寸 1. 城市 1. 城市 1.			EXPEI DELIV (SURCI	DATE DUE DITED REF ERY HARGE) DATE DUE	PORT	O) PER
· .	COMPOSITE	N) SNO	ORSI	ONEO								igi se i Si se i Si à			SHIPM	IENT:			
ON	COMF	AQUE	SOLIC	NON		N	UMBE	ROF	CONT	AINER	S SUB	MITTE	ED			RI	EMARI	KS	
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CUSTODY INTACT			OD.		STL-S	L LOG	NO.	LABO	RATO	RY RE	MARK	S:	22	MILL	es				

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CUSTODY INTA YES

B06-0578



S a v a n n a h Laboratories 6712 Benjamin Road, Suite 100 · Tampa, FL 33634 · (813) 885-7427 · Fax (813) 885-7049 · www.stlsavlab.com

LOG NO: B0-60613 Received: 25 FEB 00 Reported: 07 MAR 00

Mr. Tony Damiano
Dames & Moore
1 North Dale Mabry, Suite 700
Tampa, FL 33609

Client PO. No.: TPAR02000019

Project: 32040.015/GNB Falkenburg

Sampled By: Client

Code: 09160037

REPORT (OF .	RESULTS
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		REPORT	F RESULIS		DAME /	rage 1	
LOG NO	SAMPLE DESCRIPTION	, LIQUID SA	MPLES		DATE/ TIME SAMPLEI		
60613-1	MW-21				02-24-00/11:	:30	•
60613-2	MW-6				02-24-00/12	: 05	
60613-3	MW-14				02-24-00/12	:10	
60613-4	MW-15				02-24-00/12	: 45	
60613-5	MW-16				02-24-00/13	:20	
PARAMETER		60613-1	60613-2	60613-3	60613-4	60613-5	-
Aluminum (6	010), mg/l	1.8	0.69	<0.20	0.59	<0.20	
Iron (6010)	, mg/l	0.99	0.076	0.91	0.17	0.12	
Lead (6010)	, mg/l	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	



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Code: 09160037

REPORT OF RESULTS

		REPORT O	r KESULIS		DAME /	rage z
LOG NO	SAMPLE DESCRIPTION	N , LIQUID SA	MPLES		DATE/ FIME SAMPLEI	D
60613-6	MW-19				02-24-00/13	:50
60613-7	MW-13				02-24-00/14	:50
60613-8	MW-3A	4			02-24-00/15	:20
60613-9	MW-8				02-24-00/16	:15
60613-10	MW - 7				02-24-00/16	:45
PARAMETER		60613-6	60613-7	60613-8	60613-9	60613-10
Aluminum (6	010), mg/l	<0.20	<0.20	1.8	1.1	0.61
Iron (6010)	, mg/l	0.16	0.20	9.5	3.2	0.58
Lead (6010)	, mg/l	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050



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1 North Dale Mabry, Suite 700
Tampa, FL 33609

Client PO. No.: TPAR02000019

Project: 32040.015/GNB Falkenburg

Sampled By: Client

Code: 09160037

REPORT OF RESULTS

		REPORT OF REPORTS		DAME /	rage 3
LOG NO	SAMPLE DESCRIPTION ,	LIQUID SAMPLES		DATE/ TIME SAMPLED	
60613-11 60613-12	MW-20 MW-4			02-24-00/17:20 02-24-00/17:53	
PARAMETER			60613-11	60613-12	
Aluminum (60	010), mg/l		0.40	0.24	
Iron (6010)	, mg/l		8.5	0.42	
Lead (6010)	, mg/l		<0.0050	0.075	



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Project: 32040.015/GNB Falkenburg

Sampled By: Client

Code: 09160037

REPORT OF RESULTS

Page 4

LOG NO	SAMPLE DESCRIPTION	, QC REP	ORT FOR	riquid	SAMPLES	DATE/ TIME SAMPI	LED	
60613-13 60613-14 60613-15 60613-16 60613-17	Method Blank Accuracy (%Rec) Precision (%RPD) Date Digested Date Analyzed							
PARAMETER							6 60613-17	
Aluminum (6	010), mg/l	<0.2	0	103 %	5.8 %	03.01.00	0 03,03.00	
Iron (6010)	, mg/l	<0.05	0	110 %	12 %	03.01.00	0 03.03.00	
Lead (6010)	. mg/l	<0.005	0	102 %	0 %	03.01.00	0 03.03.00	

Method: EPA SW-846

FDOH Certification: E87052

Andre Rachmaninoff, Project Manager

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	12:45		mw-	_															
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LOG NO: B0-60612 Received: 25 FEB 00 Reported: 08 MAR 00

Mr. Tony Damiano Dames & Moore 1 North Dale Mabry, Suite 700 Tampa, FL 33609

Client PO. No.: TPAR02000019

Project: 32040.015/GNB Falkenburg

Sampled By: Client

Code: 15570039

		REPORT OF RESULTS			Page 1
				DATE/	
LOG NO	SAMPLE DESCRIPTION ,	LIQUID SAMPLES		TIME SAMPLED	
60612-1	MW-17	· · · · · · · · · · · · · · · · · · ·		02-24-00/09:	20
60612-2	MW-5			02-24-00/11:	00
60612-3	MW-18			02-24-00/15:	40
PARAMETER				60612-2	60612-3
Volatile Org	ganic Compounds (8260)				
Benzene, ug	₅ /1		<1.0	<1.0	<1.0
Bromobenzer	ne, ug/l		<5.0	<5.0	<5.0
Bromochloro	omethane, ug/l		<5.0	<5.0	<5.0
Bromodichlo	promethane, ug/l		<5.0	<5.0	<5.0
Bromoform,	ug/l		<5.0	<5.0	<5.0
Bromomethar	ue, ug/l		<10	<10	<10
n-Butylbenz			<5.0		<5.0
sec-Butylbe	enzene, ug/l		<5.0	<5.0	<5.0
-	enzene, ug/l		<5.0		<5.0
	achloride, ug/l	•-	<3.0		<3.0
Chlorobenze	ene, ug/l		<5.0	<5.0	<5.0
Chloroethar	ne, ug/l		<10		<10
Chloroform,	ug/l		<5.0	<5.0	<5.0
Chlorometha	ne, ug/l		<10	<10	<10
Chlorotolue	ene, ug/l		<5.0	<5.0	<5.0
4-Chlorotol	uene, ug/l		<5.0	<5.0	<5.0
Chlorodibro	omomethane, ug/l		<5.0	<5.0	<5.0
1,2-Dibromo	-3-chloropropane, ug,	/1	<5.0	<5.0	<5.0
1,2-Dibromo	oethane (EDB), ug/l	•	<5.0	<3.0	<3.0
Dibromometh	ane, ug/l		<5.0	<5.0	<5.0
1,2-Dichlor	obenzene, ug/l		<5.0	<5.0	<5.0
1,3-Dichlor	cobenzene, ug/l		<5.0	<5.0	<5.0
1,4-Dichlor	robenzene, ug/l		<5.0	<5.0	<5.0



Mr. Tony Damiano
Dames & Moore
1 North Dale Mabry, Suite 700
Tampa, FL 33609

Client PO. No.: TPAR02000019

Project: 32040.015/GNB Falkenburg

Sampled By: Client

Code: 094500310 Page 2

REPORT OF R	RESULTS	
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LOG NO	SAMPLE DESCRIPTION , LIQUID SAMPLES		DATE/ TIME SAMPLED 	
60612-2	MW-5		02-24-00/11:	A CONTRACTOR OF THE CONTRACTOR
60612-3	MW-18		02-24-00/15:	
PARAMETER		60612-1	60612-2	60612-3
	difluoromethane, ug/l	<10		<10
•	loroethane, ug/l	<5.0		<5.0
	loroethane, ug/l	<3.0		<3.0
-	loroethylene, ug/l	<5.0		<5.0
	Dichloroethylene, ug/l	43		15
	2-Dichloroethylene, ug/l	<5.0		7.0
-	loropropane, ug/l	<5.0		<5.0
-	loropropane, ug/l	<5.0		<5.0
	loropropane, ug/l	<5.0	**	<5.0
-	loropropylene, ug/l	<5.0		<5.0
	Dichloropropene, ug/l	<5.0		<5.0
	3-Dichloropropene, ug/l	<5.0		<5.0
_	zene, ug/l	<5.0		<5.0
	robutadiene, ug/l	<5.0	<5.0	<5.0
	lbenzene, ug/l	<5.0		<5.0
	pyltoluene, ug/l	<5.0		<5.0
_	e Chloride, ug/l	<5.0		<5.0
_	ene, ug/l	<5.0		<5.0
	benzene , ug/l	<5.0		<5.0
Styrene,	— ·	<5.0		<5.0
	Tetrachloroethane, ug/l	<5.0		< 5.0
	Tetrachloroethane, ug/l	<5.0		<5.0
	oroethylene, ug/l	<3.0		<3.0
Toluene,	ug/1	<5.0	<5.0	<5.0



LOG NO: B0-60612 Received: 25 FEB 00

Reported: 08 MAR 00

Mr. Tony Damiano Dames & Moore 1 North Dale Mabry, Suite 700 Tampa, FL 33609

Client PO. No.: TPAR02000019

Project: 32040.015/GNB Falkenburg

Sampled By: Client

Code: 15570039

REPORT OF RESULTS

	SAMPLE DESCRIPTION , LIQUID SAMPLES		DATE/ TIME SAMPLED)
	MW-17 MW-5 MW-18		02-24-00/09: 02-24-00/11: 02-24-00/15:	00
PARAMETER		60612-1	60612-2	
	ichlorobenzene, ug/l		<5.0	
1,2,4-Tr	ichlorobenzene, ug/l	<5.0	<5.0	<5.0
1,1,1-Tr	ichloroethane, ug/l		<5.0	<5.0
1,1,2-Tr	ichloroethane, ug/l	<5.0		<5.0
	oethylene, ug/l	23		9.0
	ofluoromethane, ug/l	<5.0	<5.0	<5.0
	ichloropropane, ug/l		<5.0	
	imethylbenzene, ug/l	<5.0		<5.0
	imethylbenzene, ug/l	<5.0	<5.0	<5.0
Vinyl Ch	loride, ug/l	<1.0	<1.0	19
o-Xylene,	, ug/l	<5.0	<5.0	<5.0
m&p-Xyler	ne, ug/l	<5.0		<5.0
Acetone,		<50		<50
	ne (MEK), ug/l	<25	<25	<25
4-methyl-	-2-pentanone (MIBK), ug/l	<25	<25	<25
Carbon D	isulfide, ug/l	<5.0	<5.0	<5.0
Aluminum	(6010), mg/l	<0.20	<0.20	<0.20
Aluminum	(Dissolved) (6010), mg/l	<0.20	<0.20	<0.20
Iron (601)	0), mg/l	1.6	0.40	0.38
Iron (Dis	solved) (6010), mg/l	1.6	0.45	0.36
Lead (742	1), mg/l	<0.0050	<0.0050	<0.0050



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Client PO. No.: TPAR02000019

Project: 32040.015/GNB Falkenburg

Sampled By: Client

Code: 15570039

REPORT OF RESULTS

LOG NO	SAMPLE DESCRIPTION , LIQUID SAMPLES		DATE/ TIME SAMPLED		
60612-1 60612-2 60612-3	MW-17 MW-5 MW-18		02-24-00/09: 02-24-00/11: 02-24-00/15:	00	•
PARAMETER		60612-1	60612-2	60612-3	-
Lead (Disso	lved) (7421), mg/l	<0.0050	<0.0050	<0.0050	
Sulfate as	SO4 (375.4), mg/l	55	<5.0	11	
Total Disso	lved Solids (160.1), mg/l	150	76	240	



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Mr. Tony Damiano
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1 North Dale Mabry, Suite 700
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Client PO. No.: TPAR02000019

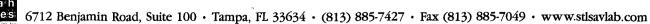
Project: 32040.015/GNB Falkenburg

Sampled By: Client

Code: 15570039

REPORT OF RESULTS

				DATE/	20.50	
LOG NO	SAMPLE DESCRIPTION ,	QC REPORT	FOR LIQUID	SAMPLES	•)
60612-4	Method Blank					
60612-5	Accuracy (%Rec)					•
60612-6	Precision (%RPD)					
60612-7	Date Digested					
60612-8	Date Analyzed					
PARAMETER	- 4	60612-4	60612-5	60612-6	60612-7	60612-8
Volatile Or	ganic Compounds (8260)					
Benzene, u	1g/1	<1.0	104 %	0 %	· 	03.05.00
Bromobenze	ene, ug/l	<5.0				03.05.00
Bromochlor	comethane, ug/l	<5.0				03.05.00
Bromodichl	Loromethane, ug/l	<5.0				03.05.00
Bromoform, ug/l		<5.0			** ** =	03.05.00
Bromometha	ane, ug/l	<10				03.05.00
n-Butylber	nzene, ug/l	<5.0				03.05.00
sec-Butylb	penzene, ug/l	<5.0				03.05.00
tert-Buty	lbenzene, ug/l	<5.0				03.05.00
Carbon Tet	rachloride, ug/l	<3.0				03.05.00
Chlorobenz	zene, ug/l	<5.0	93 %	2.2 %		03.05.00
Chloroetha	ane, ug/l	<10				03.05.00
Chloroform	n, ug/l	<5.0			** *-	03.05.00
Chlorometh	nane, ug/l	<10				03.05.00
Chlorotolu	iene, ug/l	<5.0			- -	03.05.00
4-Chloroto	oluene, ug/l	<5.0				03.05.00
Chlorodiba	comomethane, ug/l	<5.0			·	03,05.00
1,2-Dibron	no-3-chloropropane, ug/	1 <5.0				03.05.00
1,2-Dibron	noethane (EDB), ug/l	<5.0				03.05.00
Dibromomet	chane, ug/l	<5.0			·	03.05.00
1,2-Dichlo	probenzene, ug/l	<5.0				03.05.00



Mr. Tony Damiano Dames & Moore 1 North Dale Mabry, Suite 700 Tampa, FL 33609

Client PO. No.: TPAR02000019

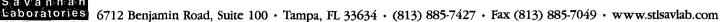
Project: 32040.015/GNB Falkenburg

Sampled By: Client

Code: 094500310

REPORT OF RESULTS

		REPORT OF			DATE/	Page 6
LOG NO	SAMPLE DESCRIPTION ,	QC REPORT	FOR LIQUID	SAMPLES	TIME SAMPLED	
60612-4	Method Blank					
60612-5	Accuracy (%Rec)					
60612-6	Precision (%RPD)					
60612-7	Date Digested					
60612-8	Date Analyzed					
PARAMETER		60612-4	60612-5	60612-6	60612-7	60612-8
1,3-Dichlo	probenzene, ug/l	<5.0				03.05.00
	probenzene, ug/l	<5.0				03.05.00
•	fluoromethane, ug/l	<10				03.05.00
1,1-Dichlo	proethane, ug/1	<5.0				03.05.00
1,2-Dichlo	proethane, ug/l	<3.0				03.05.00
1,1-Dichlo	roethylene, ug/l	<5.0	88 %	0 왕		03.05.00
cis-1,2-Di	.chloroethylene, ug/l	<5.0			 .	03.05.00
trans-1,2-	Dichloroethylene, ug/l	<5.0				03.05.00
1,2-Dichlo	propropane, ug/l	<5.0				03.05.00
1,3-Dichlo	propropane, ug/l	<5.0		,		03.05.00
2,2-Dichlo	propropane, ug/l	<5.0				03.05.00
1,1-Dichlo	propropylene, ug/l	<5.0				03.05.00
cis-1,3-Di	chloropropene, ug/l	<5.0				03.05.00
trans-1,3-	Dichloropropene, ug/l	<5.0	** ** **			03.05.00
Ethylbenze	ene, ug/l	<5.0				03.05.00
Hexachloro	butadiene, ug/l	<5.0				03.05.00
Isopropylk	enzene, ug/l	<5.0				03.05.00
4-Isopropy	/ltoluene, ug/l	<5.0				03.05.00
Methylene	Chloride, ug/l	<5.0				03.05.00
Naphthaler	ne, ug/l	<5.0				03.05.00
	enzene , ug/l	<5.0				03.05.00
Styrene, u	ıg/l	<5.0				03.05.00





LOG NO: B0-60612 Received: 25 FEB 00

Reported: 08 MAR 00

Mr. Tony Damiano
Dames & Moore
1 North Dale Mabry, Suite 700
Tampa, FL 33609

Client PO. No.: TPAR02000019

Project: 32040.015/GNB Falkenburg

Sampled By: Client

Code: 15570039

REPORT OF RESULTS

		KEPOKI O	E KESOLIS			1490
LOG NO	SAMPLE DESCRIPTION ,	OC DEDODE	EOD TIOUTD	CAMDI PC	DATE/)
LOG NO	SAMPLE DESCRIPTION ,	QC REPORT	FOR LIQUID			,
60612-4	Method Blank					
50612-5	Accuracy (%Rec)		•			
60612-6	Precision (%RPD)					
60612-7	Date Digested					
60612-8	Date Analyzed					
PARAMETER		60612-4			60612-7	
1.1.1.2-T	etrachloroethane, ug/l	<5.0				03.05.00
	etrachloroethane, ug/l	<5.0				03.05.00
	roethylene, ug/1	<3.0				03.05.0
Toluene,		<5.0	94 %	0 %		03.05.0
	chlorobenzene, ug/l	<5.0				03.05.0
	chlorobenzene, ug/l	<5.0				03.05.0
•	chloroethane, ug/l	<5.0				03.05.0
	chloroethane, ug/l	<5.0	·			03.05.0
	ethylene, ug/l	<3.0	· 92 %	0 %		03.05.0
	fluoromethane, ug/l	<5.0				03.05.0
1,2,3-Tri	chloropropane, ug/l	<5.0				03.05.0
	methylbenzene, ug/l	<5.0				03.05.0
1,3,5-Tri	methylbenzene, ug/l	<5.0			·	03.05.0
	oride, ug/l	<1.0				03.05.0
o-Xylene,	ug/l	<5.0	·			03.05.0
m&p-Xylen	_	<5.0				03.05.0
Acetone,	ug/l	<50				03.05.0
2-Butanon	e (MEK), ug/l	<25				03.05.0
4-methyl-	2-pentanone (MIBK), ug/	/1 <25				03.05.0
Carbon Di	sulfide, ug/l	<5.0				03.05.0
Aluminum (6010), mg/l	<0.20	103 %	5.8 %	03.01.00	03.03.0
Aluminum (Dissolved) (6010), mg/l	L <0.20	103 %	5.8 %	03.01.00	03.03.0



LOG NO: B0-60612 Received: 25 FEB 00 Reported: 08 MAR 00

Mr. Tony Damiano Dames & Moore 1 North Dale Mabry, Suite 700 Tampa, FL 33609

Client PO. No.: TPAR02000019

Project: 32040.015/GNB Falkenburg

Sampled By: Client

Code: 15570039

REPORT OF RESULTS

Page 8

LOG NO	SAMPLE DESCRIPTION	, QC REPORT	FOR LIQUID	SAMPLES	DATE/ TIME SAMPLE	D
60612-7	Method Blank Accuracy (%Rec) Precision (%RPD) Date Digested Date Analyzed					
PARAMETER		60612-4	60612-5	60612-6	60612-7	60612-8
Iron (6010)	, mg/l	<0.050	110 %	12 %	03.01.00	03.03.00
Iron (Disso	olved) (6010), mg/l	<0.050	110 %	12 %	03.01.00	03.03.00
Lead (7421)	, mg/l	<0.0050	96 %	2.1 %	03.01.00	03.07.00
Lead (Disso	olved) (7421), mg/l	<0.0050	96 %	2.1 %	03.01.00	03.07.00
Sulfate as	SO4 (375.4), mg/l	<5.0	102 %	5.9 %		02.28.00
Total Disso	olved Solids mg/l	<5.0	99 %	0.70 %		_03.01.00

Method: EPA SW-846, EPA 600/4-79-020 FDOH Certification: E84282, E87052

Andre Rachmaninoff, Project Manager

						-	Bo		our					Se	rial Numb	er 12 3(J78
	VAH LABOR IMENTAL SERVIC TAND CHAIN C	ES, INC.		ORD)		2846 Inde 414 SW ⁻ 900 Lake 3712 Ber	ustrial Pla 12th Aver side Driv njamin Ro	renue, Sav aza Drive, nue, Deerl re, Mobile, pad, Suite Suite 110,	Tallaha field Be AL 366 100, Ta	assee, Fl ach, FL 3 693 ampa, FL	L 32301 33442 L 33634	Ph Ph Ph Ph	one: (90 one: (95 one: (33 one: (81	2) 354-785 4) 878-395 4) 421-74(4) 666-663 3) 885-743 4) 764-110	94 Fax: (904) 90 Fax: (954) 33 Fax: (334) 27 Fax: (813)	352-0165 878-9504 421-2584 666-6696 885-7049 725-1163
ROJECT REFERENCE	PROJEC	T NO.	P.O. NUMBE	R '		· 						-					
K GNB TAMPA	FOUR 320	40.015				M	IATRIX TYPE				REQUI	REDA	NALYS	SES		PA	GE OF
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LOG NO: B0-60617 Received: 28 FEB 00

Reported: 07 MAR 00

Mr. Tony Damiano
Dames & Moore
1 North Dale Mabry

Client PO. No.: TPAR02000019

1 North Dale Mabry, Suite 700 Tampa, FL 33609

Project: 32040.015/GNB Falkenburg

Sampled By: Client

Code: 16100037

REPORT OF RESULTS

		REPORT OF RESULTS	rage 1
LOG NO	SAMPLE DESCRIPTION ,		DATE/ TIME SAMPLED
	PMW-24		02-27-00/15:10
PARAMETER		60617-1	
Purgeable	Halocarbons (601)		
Bromodic	hloromethane, ug/l	11	
Bromofor	m, ug/l	<5.0	
Bromomet	hane, ug/l	<1.0	
Carbon T	etrachloride, ug/l	<1.0	
Chlorobe	nzene, ug/l	<1.0	
Chloroet	hane, ug/l	<1.0	
2-Chloro	ethylvinyl Ether, ug/l	<10	·
Chlorofo	rm, ug/l	4.4	
Chlorome	thane, ug/l	<1.0	
Dibromoc	hloromethane, ug/l	14	
1,2-Dich	lorobenzene, ug/l	<1.0	
	lorobenzene, ug/l	<1.0	
-	lorobenzene, ug/l	<1.0	
	difluoromethane, ug/l	<1.0	
-	loroethane, ug/l	<1.0	
-	loroethane, ug/l	<1.0	
	loroethylene, ug/l	<1.0	
	Dichloroethylene, ug/l	<1.0	·
	2-Dichloroethylene, ug/		
•	loropropane, ug/l	<1.0	
	Dichloropropene, ug/l	<1.0	
	3-Dichloropropene, ug/l	<1.0	
-	e Chloride, ug/l	<5.0	•
	Tetrachloroethane, ug/l	<1.0	
	oroethylene, ug/l	<1.0	
	richloroethane, ug/l	<1.0	
	ichloroethane, ug/l	<1.0	
	oethylene, ug/l	<1.0	
	ofluoromethane, ug/l	<1.0	•
Vinyl Ch	loride, ug/l	<1.0	



LOG NO: B0-60617 Received: 28 FEB 00 Reported: 07 MAR 00

Mr. Tony Damiano
Dames & Moore
1 North Dale Mabry, Suite 700
Tampa, FL 33609

Client PO. No.: TPAR02000019

Project: 32040.015/GNB Falkenburg

Sampled By: Client

Code: 16100037

REPORT OF RESULTS

	REPO	RT OF RESULTS	DATE/	Page 2	
LOG NO	SAMPLE DESCRIPTION , QC RE	PORT FOR LIQUID	SAMPLES	TIME SAMPLED	
60617-2	Method Blank				
60617-3	Accuracy (%Rec)				
60617-4	Precision (%RPD)				
60617-5	Date Analyzed			·	
PARAMETER		60617-2	60617-3	60617-4	60617-5
Purgeable	Halocarbons (601)				
Bromodic	hloromethane, ug/l	<1.0			02.28.00
Bromofor	m, ug/l	<5.0			02.28.00
Bromomet:	hane, ug/l	<1.0			02.28.00
Carbon To	etrachloride, ug/l	<1.0			02.28.00
Chlorobe	nzene, ug/l	<1.0	9.4 %	1.1 %	02.28.00
Chloroet	hane, ug/l	<1.0			02.28.00
2-Chloro	ethylvinyl Ether, ug/l	<10			02.28.00
Chlorofo		<1.0			02.28.00
Chlorome	thane, ug/l	<1.0			02.28.00
Dibromoc	hloromethane, ug/l	<1.0			02.28.00
1,2-Dich	lorobenzene, ug/l	<1.0			02.28.00
1,3-Dich	lorobenzene, ug/l	<1.0		, -	02.28.00
1,4-Dich	lorobenzene, ug/l	<1.0			02.28.00
Dichloro	difluoromethane, ug/l	<1.0			02.28.00
	loroethane, ug/l	<1.0			02.28.00
1,2-Dich	loroethane, ug/l	<1.0			02.28.00
	loroethylene, ug/l	<1.0	105 %	9.5 %	02.28.00
cis-1,2-	Dichloroethylene, ug/l	<1.0			02.28.00
trans-1,	2-Dichloroethylene, ug/l	<1.0			02.28.00
1,2-Dich	loropropane, ug/l	<1.0			02.28.00
	Dichloropropene, ug/l	<1.0			02.28.00
trans-1,	3-Dichloropropene, ug/l	<1.0			02.28.00



LOG NO: B0-60617 Received: 28 FEB 00 Reported: 07 MAR 00

Mr. Tony Damiano
Dames & Moore
1 North Dale Mabry, Suite 700
Tampa, FL 33609

Client PO. No.: TPAR02000019

Project: 32040.015/GNB Falkenburg

Sampled By: Client

Code: 16100037

REPORT OF RESULTS

Page 3

LOG NO	SAMPLE DESCRIPTION , QC	REPORT FOR	LIQUID	SAMPLES	DATE/ TIME SAMPLED	· .
60617-2	Method Blank					
60617-3	Accuracy (%Rec)		•			
60617-4	Precision (%RPD)					
60617-5	Date Analyzed					
PARAMETER		606	317-2	60617-3	60617-4	60617-5
Methylene	Chloride, ug/l		<5.0			02.28.00
1,1,2,2-Te	etrachloroethane, ug/l		<1.0			02.28.00
Tetrachlo	roethylene, ug/l		<1.0			02.28.00
1,1,1-Tri	chloroethane, ug/l		<1.0			02.28.00
1,1,2-Tri	chloroethane, ug/l	•	<1.0			02.28.00
Trichloro	ethylene, ug/l		<1.0	110 %	18 %	02.28.00
Trichloro	fluoromethane, ug/l		<1.0			02.28.00
Vinyl Chlo	oride, ug/l		<1.0			02.28.00

Methods: EPA CFR Part 136, EPA SW-846, EPA 600/4-79-020 FDOH Certification: E84282

Andre Rachmaninoff, Project Manager



LOG NO: B0-60617 Received: 28 FEB 00 Reported: 07 MAR 00

Mr. Tony Damiano
Dames & Moore
1 North Dale Mabry, Suite 700
Tampa, FL 33609

Client PO. No.: TPAR02000019

Project: 32040.015/GNB Falkenburg

Sampled By: Client

Code: 16140037

REPORT OF RESULTS

LOG NO	SAMPLE DESCRIPTION , LIQUID SAMPLES	DATE/ TIME SAMPLED	
60617-1	PMW-24		02-27-00/15:10
PARAMETER		60617-1	
Volatile O	rganic Compounds (8260)		
Benzene,	ug/l	<1.0	
Bromobenz	ene, ug/l	<5.0	
	romethane, ug/l	<5.0	
	loromethane, ug/l	8.4	
Bromoform	• =	10	
Bromometh		<10	
_	nzene, ug/l	<5.0	
_	benzene, ug/l	<5.0	
-	lbenzene, ug/l	<5.0	
	trachloride, ug/l	<3.0	
	zene, ug/l	<5.0	
Chloroeth	• •	<10	
Chlorofor		<5.0	-
	hane, ug/l	<10	
	uene, ug/l	<5.0	•
	oluene, ug/l	<5.0	
	romomethane, ug/l	15	
	mo-3-chloropropane, ug/l	<5.0	
	moethane (EDB), ug/l	<5.0	
	thane, ug/l	<5.0	
=	orobenzene, ug/l	<5.0	
	orobenzene, ug/l	<5.0	
	orobenzene, ug/l	<5.0	
	ifluoromethane, ug/l	<5.0	
1,1-Dichl	oroethane, ug/l	<5.0	



LOG NO: B0-60617 Received: 28 FEB 00 Reported: 07 MAR 00

Mr. Tony Damiano
Dames & Moore
1 North Dale Mabry, Suite 700
Tampa, FL 33609

Client PO. No.: TPAR02000019

Project: 32040.015/GNB Falkenburg

Sampled By: Client

Code: 16140037

REPORT OF RESULTS

	MII ONI OI MIDOLIO	DATE/
LOG NO SAMPLE DESCRIPTION ,	LIQUID SAMPLES	TIME SAMPLED
60617-1 PMW-24		02-27-00/15:10
PARAMETER	60617-1	
1,2-Dichloroethane, ug/l	<3.0	
1,1-Dichloroethylene, ug/l	<5.0	
cis-1,2-Dichloroethylene, ug/l	<5.0	
trans-1,2-Dichloroethylene, ug/	l <5.0	
1,2-Dichloropropane, ug/l	<5.0	
1,3-Dichloropropane, ug/l	<5.0	
2,2-Dichloropropane, ug/l	<5.0	
1,1-Dichloropropylene, ug/l	<5.0	
cis-1,3-Dichloropropene, ug/l	<5.0	
trans-1,3-Dichloropropene, ug/l	<5.0	
Ethylbenzene, ug/l	<5.0	
Hexachlorobutadiene, ug/l	<5.0	
Isopropylbenzene, ug/l	<5.0	
4-Isopropyltoluene, ug/l	<5.0	
Methylene Chloride, ug/l	<5.0	- *
Naphthalene, ug/l	<5.0	
n-Propylbenzene, ug/l	<5.0	
Styrene, ug/l	<5.0	
1,1,1,2-Tetrachloroethane, ug/l	<5.0	
1,1,2,2-Tetrachloroethane, ug/l	<5.0	
Tetrachloroethylene, ug/l	<3.0	
Toluene, ug/l	<5.0	•
1,2,3-Trichlorobenzene, ug/l	<5.0	
1,2,4-Trichlorobenzene, ug/l	<5.0	
1,1,1-Trichloroethane, ug/l	<5.0	
1,1,2-Trichloroethane, ug/l	<5.0	



LOG NO: B0-60617 Received: 28 FEB 00 Reported: 07 MAR 00

Mr. Tony Damiano
Dames & Moore
1 North Dale Mabry, Suite 700
Tampa, FL 33609

Client PO. No.: TPAR02000019

Project: 32040.015/GNB Falkenburg

Sampled By: Client

Code: 16140037

REPORT OF RESULTS

	REPORT OF R	ED01110	DATE/	rage 3
LOG NO	SAMPLE DESCRIPTION , LIQUID SAMPLE		TIME SAMPLED	,
60617-1				10
PARAMETER		60617-1		
	ethylene, ug/l	<3.0		
Trichloro	fluoromethane, ug/l	<5.0		
1,2,3-Tri	chloropropane, ug/l	<5.0		
	methylbenzene, ug/l	<5.0	•	
	methylbenzene, ug/l	<5.0		•
_	oride, ug/l	<1.0		
o-Xylene,	=	<5.0	*	
m-Xylene,		<5.0		
p-Xylene,	-	<5.0		
Acetone, 1	-	<50		
	e (MEK), ug/l	<25		
_	2-pentanone (MIBK), ug/l	<25	i .	
Carbon Di	sulfide, ug/l	<5.0		
Aluminum, ı	mg/l	0.44		-
Aluminum (Dissolved), mg/l	0.26		
Iron, mg/l		0.061		
Iron (Disso	olved), mg/l	<0.050		
Lead, mg/l		<0.0050		
Lead (Diss	olved), mg/l	<0.0050		
Sulfate as	SO4 (375.4), mg/l	110		
Total Disso	olved Solids (160.1), mg/l	460		



Savannah Laboratories 6712 Benjamin Road, Suite 100 · Tampa, FL 33634 · (813) 885-7427 · Fax (813) 885-7049 · www.stlsavlab.com

LOG NO: B0-60617 Received: 28 FEB 00 Reported: 07 MAR 00

Mr. Tony Damiano Dames & Moore 1 North Dale Mabry, Suite 700 Tampa, FL 33609

Client PO. No.: TPAR02000019

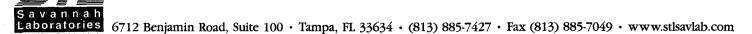
Project: 32040.015/GNB Falkenburg

Sampled By: Client

Code: 16140037

REPORT OF RESULTS

LOG NO	SAMPLE DESCRIPTION , QC REP	PORT FOR LIQUID	SAMPLES	DATE/ TIME SAMPLE	0
60617-2 60617-3 60617-4	Precision (%RPD)				
60617-5	Date Analyzed				
PARAMETER		60617-2		60617-4	
Volatile (Organic Compounds (8260)				
Benzene,	ug/l	<1.0	117 %	12 %	02.28.00
Bromobenz	zene, ug/l	<5.0			02.28.00
Bromochlo	oromethane, ug/l	<5.0			02.28.00
Bromodich	nloromethane, ug/l	<5.0			02.28.00
Bromoform	n, ug/l	<5.0		·	02.28.00
Bromometh	nane, ug/l	<10			02.28.00
n-Butylbe	enzene, ug/l	<5.0			02.28.00
sec-Butyl	lbenzene, ug/l	<5.0			02.28.00
tert-Buty	ylbenzene, ug/l	<5.0			02.28.00
Carbon Te	etrachloride, ug/l	<3.0			02.28.00
Chlorober	nzene, ug/l	<5.0	105 %	1.9 %	_02.28.00
Chloroeth	nane, ug/l	<10		~ ~ ~	02.28.00
Chlorofo	rm, ug/l	<5.0			02.28.00
Chloromet	chane, ug/l	<10			02.28.00
Chlorotol	luene, ug/l	<5.0			02.28.00
4-Chlorot	coluene, ug/l	<5.0			02.28.00
Chlorodik	oromomethane, ug/l	<5.0			02.28.00
1,2-Dibro	omo-3-chloropropane, ug/l	<5.0		~ ~ ~	02.28.00
1,2-Dibro	omoethane (EDB), ug/l	<5.0			02.28.00
Dibromome	ethane, ug/l	<5.0			02.28.00
1,2-Dichl	lorobenzene, ug/l	<5.0			02.28.00
1,3-Dich]	lorobenzene, ug/l	<5.0			02.28.00



LOG NO: B0-60617 Received: 28 FEB 00 Reported: 07 MAR 00

Mr. Tony Damiano Dames & Moore 1 North Dale Mabry, Suite 700 Tampa, FL 33609

Client PO. No.: TPAR02000019

Project: 32040.015/GNB Falkenburg

Sampled By: Client

Code: 16140037

REPORT OF RESULTS

* 0.0		REPORT OF RES		633407 FG	DATE/	Page 5
LOG NO	SAMPLE DESCRIPTION ,	QC REPORT FOR	LIQUID	SAMPLES	TIME SAMPLED	
60617-2	Method Blank					
60617-3	Accuracy (%Rec)					
60617-4	Precision (%RPD)					
60617-5	Date Analyzed					
PARAMETER		606	17-2	60617-3	60617-4	60617-5
1,4-Dichl	Lorobenzene, ug/l		<5.0		-,	02.28.00
Dichloro	difluoromethane, ug/l		<5.0			02.28.00
1,1-Dichl	loroethane, ug/l		<5.0			02.28.00
1,2-Dich	loroethane, ug/l		<3.0			02.28.00
1,1-Dich	loroethylene, ug/l		<5.0	98 %	16 %	02.28.00
cis-1,2-I	Dichloroethylene, ug/l		<5.0			02.28.00
trans-1,2	2-Dichloroethylene, ug/l		<5.0			02.28.00
1,2-Dich	loropropane, ug/l		<5.0			02.28.00
1,3-Dich]	loropropane, ug/l		<5.0			02.28.00
2,2-Dich]	loropropane, ug/l		<5.0			02.28.00
1,1-Dich	loropropylene, ug/l		<5.0			02.28.00
cis-1,3-I	Dichloropropene, ug/l		<5.0			02.28.00
trans-1,3	3-Dichloropropene, ug/l		<5.0			02.28.00
Ethylbenz	zene, ug/l		<5.0			02.28.00
Hexachlor	robutadiene, ug/l		<5.0			02.28.00
Isopropy]	lbenzene, ug/l		<5.0			02.28.00
4-Isoprop	pyltoluene, ug/l		<5.0	ma ta ma		02.28.00
Methylene	e Chloride, ug/l		<5.0			02.28.00
Naphthale	ene, ug/l		<5.0			02.28.00
n-Propyll	oenzene , ug/l		<5.0			02.28.00
Styrene,	ug/l		<5.0			02.28.00
1,1,1,2-7	Tetrachloroethane, ug/l		<5.0			02.28.00
1,1,2,2-7	Tetrachloroethane, ug/l		<5.0			02.28.00



LOG NO: B0-60617 Received: 28 FEB 00 Reported: 07 MAR 00

Mr. Tony Damiano
Dames & Moore
1 North Dale Mabry, Suite 700
Tampa, FL 33609

Client PO. No.: TPAR02000019

Project: 32040.015/GNB Falkenburg

Sampled By: Client

Code: 16140037

REPORT OF RESULTS

		REPORT O	F RESULTS	D3.000 /	Page 6	
LOG NO	SAMPLE DESCRIPTION ,			SAMPLES		
50617-2	Method Blank					
0617-3	Accuracy (%Rec)					
	Precision (%RPD)					
50617-5	Date Analyzed					
PARAMETER			60617-2	60617-3	60617-4	60617-5
Tetrachlor	oethylene, ug/l		<3.0			02.28.00
Toluene, u	- ·		<5.0	102 %	3.9 %	
1,2,3-Tric	hlorobenzene, ug/l		<5.0			02.28.00
	hlorobenzene, ug/l		<5.0			02.28.00
	hloroethane, ug/l		<5.0		. — — —	02.28.00
	hloroethane, ug/l		<5.0			02.28.00
	thylene, ug/l	•	<3.0	105 %	5.7 %	02.28.00
	luoromethane, ug/l		<5.0			02.28.00
	hloropropane, ug/l		<5.0			02.28.00
	ethylbenzene, ug/l		<5.0			02.28.00
	ethylbenzene, ug/l		<5.0			02.28.00
	ride, ug/l		<1.0			_02.28.00
o-Xylene,			<5.0			02.28.00
m-Xylene,	- ·		<5.0			02.28.00
p-Xylene,	- '		<5.0			02.28.00
Acetone, u	-		<50			02.28.00
2-Butanone	(MEK), ug/l		<25			02.28.00
_	-pentanone (MIBK), ug	_/ /1	<25			02.28.00
Carbon Dis	ulfide, ug/l		<5.0			02.28.00
Aluminum, m	g/l		<0.20	95 %	1.5 %	03.01.00
Aluminum (D	issolved), mg/l		<0.20	95 %	1.5 %	03.01.00
Iron, mg/l			<0.050	94 %	2.6 %	03.01.00



LOG NO: B0-60617

Received: 28 FEB 00 Reported: 07 MAR 00

Mr. Tony Damiano
Dames & Moore
1 North Dale Mabry, Suite 700
Tampa, FL 33609

Client PO. No.: TPAR02000019

Project: 32040.015/GNB Falkenburg

Sampled By: Client

Code: 16140037

REPORT OF RESULTS

Page 7

LOG NO	SAMPLE DESCRIPTION , (C REPORT F	OR LIQUID	SAMPLES	DATE/ TIME SAMPLED	
60617-2 60617-3 60617-4 60617-5	Method Blank Accuracy (%Rec) Precision (%RPD) Date Analyzed					
PARAMETER			60617-2	60617-3	60617-4	60617-5
Iron (Disso			<0.50	94 %	2.6 %	03.01.00
Lead, mg/l			<0.0050	94 %	1.7 %	03.01.00
Lead (Disso	lved), mg/l		<0.0050	94 %	1.7 %	03.01.00
Sulfate as	SO4 (375.4), mg/l		<5.0	88 %	6.2 %	03.06.00
Total Disso	lved Solids (160.1), mg	g/l	<5.0	99 %	0.70 %	03.01.00

Methods: EPA CFR Part 136, EPA SW-846, EPA 600/4-79-020

FDOH Certification: E84282

Andre Rachmaninoff, Project Manager

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Sava Labora a division of Severn T	atories rent Laboratories, Inc.	ANALYSI		T AND CH	AIN OF CUSTO	DDY RE	ECC	ORD		000	2846 Ind 900 Lake	dustrial Pla	aza Drive e, Mobile	ivannah, G. , Tallahass e, AL 3669: 100, Tampa	ee, FL 32 3		Phone	e: (912) 354-7858 e: (850) 878-3994 e: (334) 666-6633 e: (813) 885-7427	Fax:	(912) 352-0165 (850) 878-9504 (334) 666-6696 (813) 885-7049
PROJECT REFER		AK.	3204	10.015	PROJECT LOCATION (STATE)	_	MAT					REQU	IRED .	ANALYS	ES			PAGE		OF
	AMIA	7V O	P.O. NUMBER CLIENT PHONE CLIENT EMAIL		CONTRACT NO.	(C) OR GRAB (G) INDICATE	ATER)	AIR NONADUFOUS LIQUID (OIL SOLVENT FTC)	60%	Al, PL, Fe	SOY, TOS		. 182 - Est	5° +3° \$2.244\$				STANDARD F DELIVERY DATE D EXPEDITED F DELIVERY (SURCHARGE) DATE D	PUE	O CASS SUBMITTED PER
COMPANY CONTR		DRK (if applicable				COMPOSITE (EOUS (W.	AOUFOU			14 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1			200				SHIPMENT:		
DATE	TIME			EIDENTIFICA	TION	COM	Ş Ş	A P			UMBE	R OF C	ONTA	INERS S	SUBMIT	TED		 	REMA	ARKS
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RECEIVED BY			DATE	TIME	ACCEIVED BY: (SIGNATOR	(E) ノ・ イ			DATE 2-28	-00	TIME 8:5	3	RECEIV	ED BY:	(SIGNAT	TURE)	DAT	E	TIME .
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ORIGINAL



LOG NO: B0-60636 Received: 29 FEB 00 Reported: 13 MAR 00

Mr. Tony Damiano
Dames & Moore
1 North Dale Mabry, Suite 700
Tampa, FL 33609

Project: 32040.015/GNB Tampa Falkenburg

Sampled By: Client

Code: 123500313

REPORT OF RESULTS

LOG NO	SAMPLE DESCRIPTION , LIQUID SAMP	LES	DATE/ TIME SAMPLED)
60636-1 60636-2 60636-3	Frito Lay Well McCaffery Well Equipment Blank		02-28-00/10: 02-28-00/12: 02-28-00/15:	15
PARAMETER		60636-1	60636-2	60636-3
Volatile (Organic Compounds (8260)			
Benzene,	<u> </u>	<1.0		<1.0
	zene, ug/l	<5.0		<5.0
	promethane, ug/l	<5.0		<5.0
	nloromethane, ug/l	<5.0		<5.0
Bromoform	•	<5.0		<5.0
Bromomethane, ug/l		<10		<10
n-Butylbenzene, ug/l		<5.0		<5.0
-	benzene, ug/l	<5.0		
-	/lbenzene, ug/l	<5.0		<5.0
	etrachloride, ug/l	<3.0 <5.0		<3.0
	nzene, ug/l nane, ug/l	<10		<5.0 <10
Chlorofor		<5.0		<5.0
	chane, ug/l	<10		<10
	Luene, ug/l	<5.0		<5.0
	coluene, ug/l	<5.0		<5.0
	promomethane, ug/l	<5.0		<5.0
	omo-3-chloropropane, ug/l	<5.0	•	<5.0
	omoethane (EDB), ug/l	<5.0		<5.0
•	ethane, ug/l	<5.0		<5.0
	Lorobenzene, ug/l	<5.0		<5.0
	Lorobenzene, ug/l	<5.0		<5.0
•	lorobenzene, ug/l	<5.0	<5.0	<5.0



LOG NO: B0-60636 Received: 29 FEB 00 Reported: 13 MAR 00

Mr. Tony Damiano Dames & Moore 1 North Dale Mabry, Suite 700 Tampa, FL 33609

Project: 32040.015/GNB Tampa Falkenburg

Sampled By: Client

Code: 123500313

LOG NO	SAMPLE DESCRIPTION , LIQUID SAMPLES		DATE/ FIME SAMPLEI)
60636-1 60636-2 60636-3	Frito Lay Well McCaffery Well Equipment Blank	(02-28-00/10: 02-28-00/12: 02-28-00/15:	15
PARAMETER		60636-1	60636-2	60636-3
Dichloro	difluoromethane, ug/l	<10		<10
1,1-Dich	loroethane, ug/l	<5.0	<5.0	<5.0
•	loroethane, ug/l	<3.0		<3.0
	loroethylene, ug/l	<5.0		<5.0
	Dichloroethylene, ug/l	<5.0	<5.0	<5.0
	2-Dichloroethylene, ug/l	<5.0		<5.0
-	loropropane, ug/l	<5.0		<5.0
1,3-Dichloropropane, ug/l		<5.0		<5.0
-	loropropane, ug/l	<5.0	<5.0	<5.0
	loropropylene, ug/l	<5.0	<5.0	<5.0
	Dichloropropene, ug/l	<5.0	<5.0	<5.0
	3-Dichloropropene, ug/l	<5.0	<5.0	<5.0
-	zene, ug/l	<5.0	<5.0	<5.0
	robutadiene, ug/l	<5.0	<5.0	<5.0
	lbenzene, ug/l	<5.0	<5.0	<5.0
_	pyltoluene, ug/l	<5.0	<5.0	<5.0
-	e Chloride, ug/l	<5.0	<5.0	<5.0
-	ene, ug/l	<5.0	<5.0	<5.0
	benzene , ug/l	<5.0	<5.0	<5.0
Styrene,	=	<5.0	<5.0	<5.0
	Tetrachloroethane, ug/l	<5.0	<5.0	<5.0
	Tetrachloroethane, ug/l	<5.0	<5.0	< 5.0
	oroethylene, ug/l	<3.0	<3.0	<3.0
Toluene,	nd\T	<5.0	<5.0	<5.0



LOG NO: B0-60636 Received: 29 FEB 00 Reported: 13 MAR 00

Mr. Tony Damiano
Dames & Moore
1 North Dale Mabry, Suite 700
Tampa, FL 33609

Project: 32040.015/GNB Tampa Falkenburg

Sampled By: Client

Code: 123500313

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LOG NO	SAMPLE DESCRIPTION , LIQUID SAMPLE	es .	DATE/ TIME SAMPLE	ס	
60636-1 Frito Lay Well 60636-2 McCaffery Well 60636-3 Equipment Blank			02-28-00/10:10 02-28-00/12:15 02-28-00/15:05		
PARAMETER		60636-1	60636-2	60636-3	
1,2,4-Tr: 1,1,2-Tr: 1,1,2-Tr: Trichlore Trichlore 1,2,3-Tr: 1,2,4-Tr: 1,3,5-Tr: Vinyl Ch: o-Xylene m-Xylene p-Xylene Acetone,	, ug/l , ug/l	<5.0 <5.0 <5.0 <5.0 <3.0 <5.0 <5.0 <5.0 <1.0 <5.0 <5.0 <5.0 <5.0	<5.0 <5.0 <5.0 <3.0 <5.0 <5.0		
4-methyl	-2-pentanone (MIBK), ug/l isulfide, ug/l	<25 <5.0	<25 <5.0	<25 <5.0	
Aluminum,	mg/l	<0.20	<0.20	<0.20	
Aluminum	(Dissolved), mg/l	<0.20	<0.20	<0.20	
Iron, mg/	1	0.64	3.7	<0.050	
Iron (Dis	solved), mg/l	0.59	2.8	<0.050	
Lead, mg/	1	<0.0050	0.013	<0.0050	



S.a.v.a.n.n.a.h Laboratories 6712 Benjamin Road, Suite 100 · Tampa, FL 33634 · (813) 885-7427 · Fax (813) 885-7049 · www.stlsavlab.com

LOG NO: B0-60636 Received: 29 FEB 00 Reported: 13 MAR 00

Mr. Tony Damiano
Dames & Moore
1 North Dale Mabry, Suite 700
Tampa, FL 33609

Project: 32040.015/GNB Tampa Falkenburg

Sampled By: Client

Code: 123500313

REPORT OF RESULTS

LOG NO	SAMPLE DESCRIPTION , LIQUID SAMPI		DATE/ TIME SAMPLED		
60636-1 60636-2 60636-3	Frito Lay Well McCaffery Well Equipment Blank		02-28-00/10: 02-28-00/12: 02-28-00/15:	15	
PARAMETER		60636-1	60636-2	60636-3	
Lead (Disso		<0.0050	<0.0050	<0.0050	
Sulfate as	SO4 (375.4), mg/l	15	<5.0	<5.0	
Total Disso	lved Solids (160.1), mg/l	270	210	<5.0	



LOG NO: B0-60636 Received: 29 FEB 00 Reported: 13 MAR 00

Mr. Tony Damiano Dames & Moore 1 North Dale Mabry, Suite 700 Tampa, FL 33609

Project: 32040.015/GNB Tampa Falkenburg

Sampled By: Client

Code: 123500313

	REPO	ORT OF RESULTS		Page 5
LOG NO	SAMPLE DESCRIPTION , LIQUI	D SAMPLES	DATE/ TIME SAMPLED	
60636-4 60636-5	DUP-1 DUP-2		02-28-00/13:05 02-28-00/14:50	
PARAMETER			60636-5	,
Aluminum, m	· · · · · · · · · · · · · · · · · · ·	2.3	11	
Aluminum (D	issolved), mg/l	1.2	10	
Lead, mg/l		<0.0050	<0.0050	
Lead (Disso	lved), mg/l	<0.0050	<0.0050	
Iron, mg/l		3.7	10	
Iron (Disso	lved), mg/l	2.6	10	



LOG NO: B0-60636 Received: 29 FEB 00 Reported: 13 MAR 00

Mr. Tony Damiano Dames & Moore 1 North Dale Mabry, Suite 700 Tampa, FL 33609

Project: 32040.015/GNB Tampa Falkenburg

Sampled By: Client

Code: 123500313

REPORT OF RESULTS

LOG NO	SAMPLE DESCRIPTION , LIQUID SAMPLES	·	DATE/ TIME SAMPLED
60636-6	MW-12		02-28-00/14:50
PARAMETER		60636-6	
Aluminum, m	g/l	<0.20	
Lead, mg/l		0.0079	
Iron, mg/l		0.16	



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LOG NO: B0-60636 Received: 29 FEB 00

Reported: 13 MAR 00

Mr. Tony Damiano
Dames & Moore
1 North Dale Mabry, Suite 700
Tampa, FL 33609

Project: 32040.015/GNB Tampa Falkenburg

Sampled By: Client

Code: 123500313

REPORT OF RESULTS

LOG NO	SAMPLE DESCRIPTION	, QC REPORT	FOR LIQUID	SAMPLES	DATE/ TIME SAMPLEI)
60636-11	Method Blank Accuracy (%Rec) Precision (%RPD) Date Digested Date Analyzed					
PARAMETER				60636-9	60636-11	60636-10
Aluminum, m				8.1 %	03.07.00	03.09.00
Aluminum (D	issolved), mg/l	<0.20	109 %	8.1 %	03.07.00	03.09.00
Iron (Disso	lved), mg/l	<0.050	104 %	9.3 %	03.07.00	03.09.00
Iron, mg/l		<0.050	104 %	9.3 %	03.07.00	03.09.00
Lead, mg/l		<0.0050	102 %	4.8 %	03.07.00	03.09.00
Lead (Disso	lved), mg/l	<0.0050	102 %	4.8 %	03.07.00	03.09.00
Sulfate as	SO4 (375.4), mg/l	<5.0	88 %	6.2 %		03.06.00
Total Disso (160.1),	lved Solids mg/l	<5.0	99 %	0.70 %		03.01.00



LOG NO: B0-60636 Received: 29 FEB 00 Reported: 13 MAR 00

Mr. Tony Damiano
Dames & Moore
1 North Dale Mabry, Suite 700
Tampa, FL 33609

Project: 32040.015/GNB Tampa Falkenburg

Sampled By: Client

Code: 123500313

REPORT OF RESULTS

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LOG NO SAMP	LE DESCRIPTION ,	00.5	שת המשנים מים המשנים	EΟD	TTOITD		DATE		
LOG NO SAMP	LE DESCRIPTION ,	QC R	EPORT	FOR	TIGOTO	SAMPLES	TIME	JAMPLED	
60636-7 Meth	od Blank								
60636-8 Accu	racy (%Rec)								
60636-9 Prec	ision (%RPD)								
60636-11 Date	Digested								
60636-10 Date	Analyzed								
PARAMETER		6063	36-7	606	36-8	60636-9	600	636-11	60636-1
Volatile Organic	Compounds (8260))							
Benzene, ug/l	• · · · · · · · · · · · · · · · · · · ·		:1.0	1	.04 %	0 %			03.06.0
Bromobenzene, u	g/1	<	<5.0						03.06.0
Bromochlorometh	ane, ug/l	<	5.0						03.06.0
Bromodichlorome	thane, ug/l	<	<5.0	V					03.06.0
Bromoform, ug/l		. <	5.0						03.06.0
Bromomethane, u	g/l		<10						03.06.0
n-Butylbenzene,	ug/l		5.0						03.06.0
sec-Butylbenzen	e, ug/l	<	5.0		,				03.06.0
tert-Butylbenze	ne, ug/l	<	5.0						03.06.0
Carbon Tetrachl	oride, ug/l	<	3.0						03.06.0
Chlorobenzene,	ug/l	<	5.0		92 %	0 %			03.06.0
Chloroethane, u	g/l		<10						03.06.0
Chloroform, ug/	1	<	5.0						03.06.0
Chloromethane,	ug/l		<10						03.06.0
Chlorotoluene,	ug/l	<	5.0						03.06.0
4-Chlorotoluene	, ug/l	<	45.0						03.06.0
Chlorodibromome	thane, ug/l	<	45.0				•		03.06.0
1,2-Dibromo-3-c	hloropropane, ug	_J /l <	<5.0						03.06.0
1,2-Dibromoetha	ne (EDB), ug/l	<	45.0						03.06.0
Dibromomethane,	ug/l	<	<5.0						03.06.0
1,2-Dichloroben	zene, ug/l	<	<5.0						03.06.0



LOG NO: B0-60636 Received: 29 FEB 00 Reported: 13 MAR 00

Mr. Tony Damiano Dames & Moore 1 North Dale Mabry, Suite 700 Tampa, FL 33609

Project: 32040.015/GNB Tampa Falkenburg

Sampled By: Client

Code: 123500313

REPORT OF RESULTS

		KBFOKI O	KESOLIS			rages
LOG NO SA	AMPLE DESCRIPTION ,	QC REPORT	FOR LIQUID	SAMPLES	DATE/ TIME SAMPLEI)
	ethod Blank					
60636-8 Ad	ccuracy (%Rec)					
	recision (%RPD)					
	ate Digested					•
	ate Analyzed					
PARAMETER		60636-7	60636-8	60636-9	60636-11	60636-10
1,3-Dichlorol	benzene, ug/l	<5.0				03.06.00
1,4-Dichlorol	benzene, ug/l	<5.0				03.06.00
Dichlorodifly	uoromethane, ug/l	<5.0				03.06.00
1,1-Dichloro	ethane, ug/l	<5.0				03.06.00
1,2-Dichloro	ethane, ug/l	<3.0	,			03.06.00
1,1-Dichloro	ethylene, ug/l	<5.0	87 %	2.3 %		03.06.00
cis-1,2-Dich	loroethylene, ug/l	<5.0				03.06.00
trans-1,2-Die	chloroethylene, ug/l	<5.0				03.06.00
1,2-Dichloro	propane, ug/l	<5.0				03.06.00
1,3-Dichloro	propane, ug/l	<5.0				03.06.00
2,2-Dichloro	propane, ug/l	<5.0				03.06.00
1,1-Dichloro	propylene, ug/l	<5.0				03.06.00
cis-1,3-Dich	loropropene, ug/l	<5.0				03.06.00
trans-1,3-Die	chloropropene, ug/l	<5.0				03.06.00
Ethylbenzene	, ug/l	<5.0				03.06.00
Hexachlorobu	tadiene, ug/l	<5.0				03.06.00
Isopropylben	zene, ug/l	<5.0				03.06.00
4-Isopropylto	oluene, ug/l	<5.0				03.06.00
Methylene Chi	loride, ug/l	<5.0				03.06.00
Naphthalene,	ug/l	[′] <5.0				03.06.00
n-Propylbenze	ene , ug/l	<5.0				03.06.00
Styrene, ug/	1	<5.0				03.06.00



LOG NO: B0-60636 Received: 29 FEB 00 Reported: 13 MAR 00

Mr. Tony Damiano
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Tampa, FL 33609

Project: 32040.015/GNB Tampa Falkenburg

Sampled By: Client

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REPORT OF RESULTS

Page 10

LOG NO	SAMPLE DESCRIPTION ,	QC REPORT	FOR LIQUID	SAMPLES	DATE/ TIME SAMPLE)
60636-7	Method Blank					
60636-8	Accuracy (%Rec)				•	
60636-9	Precision (%RPD)					
60636-11	Date Digested			*		
60636-10	Date Analyzed					
PARAMETER		60636-7	60636-8	60636-9	60636-11	60636-10
1.1.1.2-Te	trachloroethane, ug/l	<5.0				03.06.00
	trachloroethane, ug/l	<5.0				03.06.00
	oethylene, ug/l	<3.0				03.06.00
Toluene, u		<5.0	91 %	2.2 %		03.06.00
	hlorobenzene, ug/l	<5.0				03.06.00
	hlorobenzene, ug/l	<5.0				03.06.00
1,1,1-Tric	hloroethane, ug/l	<5.0				03.06.00
1,1,2-Tric	hloroethane, ug/l	<5.0				03.06.00
Trichloroe	thylene, ug/l	<3.0	" 90 %	4.4 %		03.06.00
Trichlorof	luoromethane, ug/l	<5.0				03.06.00
1,2,3-Tric	hloropropane, ug/l	<5.0				03.06.00
1,2,4-Trim	ethylbenzene, ug/l	<5.0				03.06.00
1,3,5-Trim	ethylbenzene, ug/l	<5.0			·	03.06.00
Vinyl Chlo	ride, ug/l	<1.0				03.06.00
o-Xylene,	ug/l	<5.0				03.06.00
m-Xylene,	ug/l	<5.0				03.06.00
p-Xylene,	ug/l	<5.0				03.06.00
Acetone, u	g/l	<50			~	03.06.00
2-Butanone	(MEK), ug/l	<25				03.06.00
4-methyl-2	-pentanone (MIBK), ug,	/1 <25				03.06.00
Carbon Dis	ulfide, ug/l	<5.0				03.06.00

Methods: EPA SW-486, EPA 600/4-79-020

DOH Certification #'s: E842828

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CONTRACTOR CONTRACTOR		Course Annual Con-		1000	

5102 LaRoche Avenue, Savannah, GA 31404 Phone: (912) 354-7858 Fax: (912) 352-0165
2846 Industrial Plaza Drive, Tailahassee, FL 32301 Phone: (850) 878-3994 Fax: (850) 878-9504
900 Lakeside Drive, Mobile, AL 36693 Phone: (334) 666-6633 Fax: (334) 666-6696

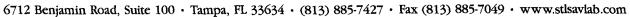
a division of Severn Trent Laboratories, Inc.								\circ	6/12 B6	enjamin Ha., S	oune 100, 1a	ampa, ru	33034	Phone: (813) 885-7427	Fax: (813) 885-7049
PROJECT REFERÊNCE CNB TRIMPA FAIK. STL (LAB) PROJECT MANAGER	PROJECT NO.	×40.015	PROJECT LOCATION (STATE)		MATI					REQUIR	ED ANAI	YSES			PAGE	OF
CLIENT (SITE) PM	CLIENT PHONE		CLIENT FAX	OR GRAB (G) INDICATE	ER) SOLID	AIR NONAQUEOUS LIQUID (OIL. SOLVENT. ETC)		41, Pb, Fc (T/0)	SOU, TOS	M, Pb, Fe (TOTAL)					STANDARD REPO DELIVERY DATE DUE EXPEDITED REPO DELIVERY (SURCHARGE) DATE DUE	ORT
EALKEN RULL COMPANY CONTRACTING THIS WORK (If applicab	- 20, T	MAA	FC	OSITE (C)	AQUEOUS (WATER) SOLID OR SEMISOLID	UEOUS I									NUMBER OF COC SHIPMENT:	DLERS SUBMITTED PER
SAMPLE DATE TIME	SAMPLE	E IDENTIFICAT	TON	COMPC	SOLID	AIR		N		R OF CO					RE	MARKS
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RECEIVED BY: (SIGNATURE)	DATE	TIME	AECEIVED BY:	D		,	7	DATE - 29.	ال	TIME O930			BY: (SIGNATU	JRE)	DATE	TIME
RECEIVED FOR LABORATORY BY	DATE	TIME	L. CUSTODY INTACT	ABOF	STO	RY L	ISE ON	ILY C	ool	er Ten	EB. 27 1	MARKS	3			
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	and the second s
Phone: (912) 354-7858	Fax: (912) 352-016
Phone: (850) 878-3994	Fax: (850) 878-950
Phone: (334) 666-6633	Fax: (334) 666-669
Phone: (813) 885-7427	Fax: (813) 885-704

ANALYSIS REQUEST AND CHAIN OF CUSTODY RECORD

Sava Labor	n n a h atories Treit Laboratories, Inc.				4.						_	900 Lak	dustrial P eside Dri enjamin F	ve, Mobi	le, AL 36	693			Phone: (850) 878-3994 334) 666-6633 813) 885-7427	Fax: (850) 87 Fax: (334) 66 Fax: (813) 88	6-6696
ROJECT REFER			PROJECT NO.		PROJECT LOCATION (STATE)	Τ		TRIX					BEO	UIRED	ANAL	YSES				PAGE	OF	1
TL (LAB) PROJE	ECT MANAGER	Paris .	P.O. NUMBER	, MO.015	CONTRACT NO.	+	TY	PE	-				1	1	T		T			STANDARD REP	ORT .	
									ETC)				7							DELIVERY	(\supset
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LIENT NAME			CLIENT EMAIL					Ì,	SOLV	(**)	U,] urr b.								EXPEDITED REF DELIVERY	ORT .	$\overline{}$
						I GRAB (G)			OIL,	*	0	J,	المنافق المناف							(SURCHARGE))
LIENT ADDRES	SS	·				H _{GR}	£ 2	3	OID.											DATE DUE		
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	Y: (SIGNATURE)		DATE	TIME	RECEIVED BY: (sign	NATUF	RE)				DATE	4 197	TIME		RECE	IVED I	BY: (sid	SNATUR	E)	DATE	TIME	
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ECEIVED F	OR LABORAT	ORY BY:	DATE	TIME	CUSTODY INTACT			DDY NO.		STL-S	L LOG	NO.	LABO	RATO	RY RE	MARK	S:					
oidina i UHE)	,				YES NO	SE	~L I	NO.														

5102 LaRoche Avenue, Savannah, GA 31404





LOG NO: B0-60873 Received: 22 MAR 00

Reported: 31 MAR 00

Mr. Tony Damiano
Dames & Moore

Client PO. No.: TPA-R-0200-0019

1 North Dale Mabry, Suite 700 Tampa, FL 33609

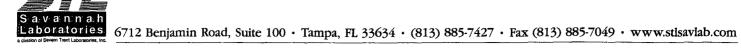
Project: 32040.015/GNB Falkenburg

Sampled By: Client

Code: 162300331

REPORT OF RESULTS

LOG NO	SAMPLE DESCRIPTION , LIQUID SAMPLES		DATE/ TIME SAMPLED
60873-1			03-21-00/13:30
PARAMETER		60873-1	
	Organic Compounds (8260)		
Benzene,	ug/l	<1.0	
Bromoben:	zene, ug/l	<5.0	
Bromochle	oromethane, ug/l	<5.0	
Bromodic	hloromethane, ug/l	<5.0	*
Bromofor	m, ug/l	<5.0	
	hane, ug/l	<10	
-	enzene, ug/l	<5.0	
_	lbenzene, ug/l	<5.0	
	ylbenzene, ug/l	<5.0	
	etrachloride, ug/l	<3.0	
	nzene, ug/l	<5.0	
	hane, ug/l	<10	
Chlorofo:	· · · · · · · · · · · · · · · · · · ·	<5.0	· · · · · · · · · · · · · · · · · · ·
	thane, ug/l	<10	
	luene, ug/l	<5.0	
	toluene, ug/l	<5.0	
	bromomethane, ug/l	<5.0	
	omo-3-chloropropane, ug/l	<5.0	
	omoethane (EDB), ug/l	<5.0	
	ethane, ug/l	<5.0	·
	lorobenzene, ug/l	<5.0	
	lorobenzene, ug/l	<5.0	
	lorobenzene, ug/l	<5.0	
	difluoromethane, ug/l	<10	•
1,1-Dich	loroethane, ug/l	<5.0	



LOG NO: B0-60873 Received: 22 MAR 00

Reported: 31 MAR 00

Mr. Tony Damiano
Dames & Moore
1 North Dale Mabry, Suite 700
Tampa, FL 33609

Client PO. No.: TPA-R-0200-0019

Project: 32040.015/GNB Falkenburg

Sampled By: Client Code: 155000331

Page 2

REPORT OF RESULTS

LOG NO	SAMPLE DESCRIPTION ,	LIQUID SAMPLES	DATE/ TIME SAMPLED
60873-1			03-21-00/13:30
PARAMETER		60873-1	
•	oroethane, ug/l	<3.0	
	oroethylene, ug/l	<5.0	
	Dichloroethylene, ug/l	19	
	2-Dichloroethylene, ug/l		
	oropropane, ug/l	<5.0	
1,3-Dichl	.oropropane, ug/l	<5.0	
	.oropropane, ug/l	<5.0	
1,1-Dichl	oropropylene, ug/l	<5.0	•
	Dichloropropene, ug/l	<5.0	
	3-Dichloropropene, ug/l	<5.0	
Ethylbenz	zene, ug/l	<5.0	
Hexachlor	obutadiene, ug/l	<5.0	
Isopropyl	benzene, ug/l	<5.0	
	yltoluene, ug/l	<5.0	
Methylene	chloride, ug/l	<5.0	-
Naphthale	ene, ug/l	<5.0	
n-Propylh	enzene , ug/l	<5.0	
Styrene,	ug/l	<5.0	
1,1,1,2-7	Tetrachloroethane, ug/l	<5.0	
1,1,2,2-1	Tetrachloroethane, ug/l	<5.0	
Tetrachlo	proethylene, ug/l	<3.0	
Toluene,	ug/l	<5.0	
1,2,3-Tri	chlorobenzene, ug/l	<5.0	
1,2,4-Tri	chlorobenzene, ug/l	<5.0	,
1,1,1-Tri	chloroethane, ug/l	<5.0	
1,1,2-Tri	chloroethane, ug/l	<5.0	



LOG NO: B0-60873 Received: 22 MAR 00

Reported: 31 MAR 00

Mr. Tony Damiano
Dames & Moore
1 North Dale Mabry, Suite 700
Tampa, FL 33609

Client PO. No.: TPA-R-0200-0019

Project: 32040.015/GNB Falkenburg

Sampled By: Client

Code: 155000331

REPORT OF RESULTS Page 3 DATE/ SAMPLE DESCRIPTION , LIQUID SAMPLES TIME SAMPLED 03-21-00/13:30 PARAMETER Trichloroethylene, ug/l < 3.0 Trichlorofluoromethane, ug/l <5.0 1,2,3-Trichloropropane, ug/l < 5.0 1,2,4-Trimethylbenzene, ug/l < 5.0 1,3,5-Trimethylbenzene, ug/l < 5.0 Vinyl Chloride, ug/l <1.0 o-Xylene, ug/l < 5.0 m-Xylene, ug/l <5.0 p-Xylene, ug/l < 5.0 Acetone, ug/l < 50 2-Butanone (MEK), ug/l <25 4-methyl-2-pentanone (MIBK), ug/l <25 Carbon Disulfide, ug/l <5.0 Aluminum, mg/l 110 Aluminum (Dissolved), mg/l <0.20 Iron, mg/l 67 Iron (Dissolved), mg/l 0.092 Lead, mg/l 0.21 Lead (Dissolved), mg/l < 0.0050 Sulfate as SO4 (375.4), mg/1340 Total Dissolved Solids (160.1), mg/l 1000



Eaboratories 6712 Benjamin Road, Suite 100 • Tampa, FL 33634 • (813) 885-7427 • Fax (813) 885-7049 • www.stlsavlab.com

LOG NO: B0-60873 Received: 22 MAR 00

Reported: 31 MAR 00

Mr. Tony Damiano
Dames & Moore
1 North Dale Mabry, Suite 700
Tampa, FL 33609

Client PO. No.: TPA-R-0200-0019

Project: 32040.015/GNB Falkenburg

Sampled By: Client

Code: 155000331

REPORT OF RESULTS

LOG NO	SAMPLE DESCRIPTION				DATE/ TIME SAMPLED	
60873-3 60873-4 60873-5	Date Analyzed					
PARAMETER		60873-2			60873-5	
Aluminum, mg			99 %	4.4 %	03.24.00	03.30.00
Aluminum (Di	.ssolved), mg/l	<0.20	99 %	4.4 %	03.24.00	03.30.00
Iron (Dissol	ved), mg/l	<0.050	100 %	7.9 %	03.24.00	03.30.00
Iron, mg/l		<0.050	100 %	7.9 %	03.24.00	03.30.00
Lead, mg/l		<0.0050	100 %	2.9 %	03.24.00	03.30.00
Lead (Dissol	ved), mg/l	<0.0050	100 %	2.9 %	03.24.00	03.30.00
Sulfate as S	304 (375.4), mg/l	<5.0	104 %	11 %		03.28.00
Total Dissol (160.1), m	ng/l		98 %			03.22.00



LOG NO: B0-60873 Received: 22 MAR 00 Reported: 31 MAR 00

Mr. Tony Damiano Dames & Moore 1 North Dale Mabry, Suite 700 Tampa, FL 33609

Client PO. No.: TPA-R-0200-0019

Project: 32040.015/GNB Falkenburg

Sampled By: Client

Code: 155000331

		REPORT OF	F RESULTS		70 mm /	Page 5
LOG NO	SAMPLE DESCRIPTION ,	QC REPORT	FOR LIQUID	SAMPLES	DATE/ TIME SAMPLED	
60873-2	Method Blank					
60873-3	Accuracy (%Rec)					*
60873-4	Precision (%RPD)					
60873-5	Prep Date					
60873-6	Date Analyzed					
PARAMETER		60873-2	60873-3	60873-4	60873-5	60873-6
 Volatile O	organic Compounds (8260)					
Benzene,	-	<1.0	93 %	11 %		3.30.00
Bromobenz	•	<5.0				3.30.00
	romethane, ug/l	<5.0				3.30.00
Bromodich	loromethane, ug/l	<5.0				3.30.00
Bromoform	, ug/l	<5.0				3.30.00
Bromometh	ane, ug/l	<10				3.30.00
n-Butylbe	nzene, ug/l	<5.0			:	3.30.00
sec-Butyl	benzene, ug/l	<5.0		~		3.30.00
tert-Buty	lbenzene, ug/l	<5.0				3.30.00
Carbon Te	trachloride, ug/l	<3.0			· 	3.30.00
Chloroben	zene, ug/l	<5.0	88 %	4.5 %		3.30.00
Chloroeth	ane, ug/l	<10				3.30.00
Chlorofor	m, ug/1	<5.0				3.30.00
Chloromet	hane, ug/l	<10				3.30.00
Chlorotol	uene, ug/l	<5.0				3.30.00
4-Chlorot	oluene, ug/l	<5.0				3.30.00
Chlorodib	romomethane, ug/l	<5.0			, -	3.30.00
1,2-Dibro	mo-3-chloropropane, ug/	1 <5.0				3,30.00
1,2-Dibro	omoethane (EDB), ug/l	<5.0				3.30.00
Dibromome	thane, ug/l	<5.0				3.30.00
1.2-Dich1	orobenzene, ug/l	<5.0				3.30.00



LOG NO: B0-60873 Received: 22 MAR 00

Reported: 31 MAR 00

Mr. Tony Damiano Dames & Moore 1 North Dale Mabry, Suite 700

Tampa, FL 33609

Client PO. No.: TPA-R-0200-0019

Project: 32040.015/GNB Falkenburg

Sampled By: Client

Code: 162300331

REPORT OF RESULTS

					DATE/	
LOG NO	SAMPLE DESCRIPTION ,	QC REPORT	FOR LIQUID	SAMPLES	TIME SAMPLED	
60873-2	Method Blank					
60873-3	Accuracy (%Rec)				-	
60873-4	Precision (%RPD)					
60873-5	Prep Date					
60873-6	Date Analyzed	,				
PARAMETER		60873-2	60873-3	60873-4	60873-5	60873-6
1,3-Dichlo	robenzene, ug/l	<5.0				3.30.00
	robenzene, ug/l	<5.0				3.30.00
	fluoromethane, ug/l	<10	-		-	3.30.00
1,1-Dichlo	roethane, ug/l	<5.0				3.30.00
1,2-Dichlo	roethane, ug/l	<3.0				3.30.00
1,1-Dichlo	roethylene, ug/l	<5.0	90 %	13 %		3.30.00
cis-1,2-Di	chloroethylene, ug/l	<5.0				3.30.00
trans-1,2-	Dichloroethylene, ug/l	<5.0				3.30.00
1,2-Dichlo	ropropane, ug/l	<5.0				3.30.00
1,3-Dichlo	ropropane, ug/l	<5.0		:		3.30.00
2,2-Dichlo	ropropane, ug/l	<5.0				3.30.00
1,1-Dichlo	ropropylene, ug/1	<5.0				3.30.00
cis-1,3-Di	chloropropene, ug/l	<5.0				3.30.00
trans-1,3-	Dichloropropene, ug/l	<5.0				3.30.00
Ethylbenze:	ne, ug/l	<5.0				3.30.00
Hexachloro	butadiene, ug/l	<5.0				3.30.00
Isopropylb	enzene, ug/l	<5.0				3.30.00
4-Isopropy	ltoluene, ug/l	<5.0				3.30.00
Methylene	Chloride, ug/l	<5.0				3.30.00
Naphthalen	e, ug/l	<5.0				3.30.00
n-Propylbe	nzene , ug/l	<5.0				3.30.00
Styrene, u	g/1	<5.0			, 	3.30.00



LOG NO: B0-60873 Received: 22 MAR 00

Reported: 31 MAR 00

Mr. Tony Damiano
Dames & Moore
1 North Dale Mabry, Suite 700
Tampa, FL 33609

Client PO. No.: TPA-R-0200-0019

Project: 32040.015/GNB Falkenburg

Sampled By: Client

Code: 155000331

REPORT OF RESULTS

Page 7

LOG NO	SAMPLE DESCRIPTION ,	עמטמשמ טט	תדווחדה מחק	SAMDLES	DATE/ TIME SAMPLED	_
100 NO		QC KEFORT				
60873-2	Method Blank					
60873-3	Accuracy (%Rec)					
60873-4	Precision (%RPD)					
60873-5	Prep Date					
60873-6	Date Analyzed					
PARAMETER		60873-2	60873-3	60873-4	60873-5	60873-6
1.1.1.2-Te	etrachloroethane, ug/l	<5.0				3.30.00
	etrachloroethane, ug/l	<5.0				3.30.00
	coethylene, ug/l	<3.0				3.30.00
Toluene, u		<5.0	85 %	2.4 %		3.30.00
•	chlorobenzene, ug/l	<5.0				3.30.00
	chlorobenzene, ug/l	<5.0				3.30.00
- ·	chloroethane, ug/l	<5.0				3.30.00
1,1,2-Tric	chloroethane, ug/l	<5.0				3.30.00
	ethylene, ug/l	<3.0		4.7 %		3.30.00
Trichlorof	luoromethane, ug/l	<5.0				3.30.00
1,2,3-Tric	hloropropane, ug/l	<5.0				3.30.00
1,2,4-Trim	methylbenzene, ug/l	<5.0				3.30.00
1,3,5-Trim	methylbenzene, ug/l	<5.0	·			3.30.00
Vinyl Chlo	oride, ug/l	<1.0				3.30.00
o-Xylene,	ug/l	<5.0				3.30.00
m-Xylene,	ug/l	<5.0				3.30.00
p-Xylene,	ug/l	<5.0				3.30.00
Acetone, u	1g/l	<50				3.30.00
2-Butanone	e (MEK), ug/l	<25		,		3.30.00
4-methyl-2	2-pentanone (MIBK), ug	/1 <25				3.30.00
Carbon Dis	sulfide, ug/l	<5.0				3.30.00

Method: EPA SW-846

DOH Certification #'s: E84282

ARU

Andre Rachmaninoff, Project Manager

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ANALYSIS REQUEST AND CHAIN O Savannah Laboratories a division of Severn Frent Laboratories, Inc.	F CUSTODY REC		_	5102 Lal 2846 ind	Roche Avenue, dustrial Plaza Dr eside Drive, Mol	Savannah, GA 31404 ive, Tallahassee, FL 32301	Phone: (912) Phone: (850) Phone: (334) Phone: (813)	354-7858 Fax: (878-3994 Fax: (666-6633 Fax: ((912) 352-0165 (850) 878-9504 (334) 666-6696 (813) 885-7049
OJECT REFERENCE PROJECT NO. PROJECT NO. PROJECT NO. PROJECT NO. PROJECT NO. PROJECT NO. PROJECT NO. PROJECT NO.	CT LOCATION M.	MATRIX TYPE			REQUIRE	D ANALYSES	PAG	E	OF
L (LAB) PROJECT MANAGER P.O. NUMBER TPA- R-0200-009	X X X X X X X X X X X X X X X X X X X	ISOLID LIQUID (OIL, SOLVENT, ETC)	8260	77, 20,			EXP DEL (SUF	NDARD REPORT IVERY DATE DUE EDITED REPORT IVERY ICHARGE) DATE DUE	S SUBMITTED PER
OMPANY CONTRACTING THIS WORK (if applicable):	DSITE (C	SOLID OR SEMISOLIT AIR NONAQUEOUS LIQUI						MENT:	S SUBMITTED PER
SAMPLE SAMPLE IDENTIFICATION	COMP	SOLID AIR NONA(NUMBE	R OF CONT	TAINERS SUBMITTED		REMA	RKS
3-21-00 1:30 P MW-23	G X	.	Κ,	< X		·			
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ECEIVED BY: (SIGNATURE) DATE TIME RECE	BO PTURE	20	DA		TIME OBUS	RECEIVED BY: (SIGN	ATURE)	DATE	TIME
THE STATE OF LABORATORY BY					r Temp				
GNATURE) CONTROL OF THE CUST	ODY INTACT CUST SEAL	L NO.	100	.og no. 08 23	LABOHATC	ORY REMARKS:	BAILER		

APPENDIX D

WELL SAMPLING FIELD DATA SHEETS

WELL SAMPLING FIELD DATA SHEET 2-23-00 MB DATE: USER'S NAME: CITY: +AMPA COMPANY NAME: CNB FAIK. RCI PROJECT NO 32040,015 STATE: **=** -INITIAL FIELD CALIBRATION pH Meter No.: Serial No.: Purge Cal. Buffers 7 10 Temp ۰C °C Sample 10 Temp °C Meter Cf : Conductivity Meter No.: Serial No.: Pume Temp¹ Table Cf Sample ٩C Temp Table Meter Purge Cal. Solution² Turbidity Meter No.: Serial No.: 0.00 20.0 100 800 Sample 20.0 800 0.00 100 CALIBRATION FOR WELL VOLUME π r (Water Column x 7.481) DATE: **WELL INFORMATION** Well Depth (Bottom) (Feet) Min. Volume to be Purged ___(Gal.) Top of Casing Elevation (Feet) Volume of Water in Water Water Level (Feet) Level Elevation (Feet) Water Well Column (Feet) Casing (Gal.) 2" Well 4" Well 6" Well 18.84 3.96 wisr² == r² = 0.0069 0.0278 r² = 0.0625 x 3.14 x 3.14 x 3.14 PVC Well Casing Construction: 0.220 0.087 0.196 2 " Well Casing Diameter, Gal = Gal≃ Gal = x 7.48 x 7.48 x 7.48 Onon meters are temperature compensated to 25°C. Meter should be set to 1408 at 25°C ± 5°C. Cole 0.165 0.653 1.47 Parmer meters are temperature compensated to 25°C. YSI meter must have a correction factor of 1.00 ±0.5%. Water Column x 2.46 Water Column x Water Column x Also, the temperature must be corrected manually. Check calibration manual for further details. Well Volumes x 3 Well Volumes x 3 Well Volumes x 3 7 77 Turbidity Meter must be set according to the lab assigned calibration NTU's values for each standard. Min. Volume to be Purged Field measurements must stabilize to within 5% before purging is complete or 3 volumes, whichever is greater. Min. Volume to be Purged Min. Volume DATE: PURGE INFORMATION SAMPLING INFORMATION DATE: Purged Volume (Gal) Time Purged (Min.) Actual Time Purged D o Field, Temp' Fleid Temp (°C) Field Conductivity (µmhos) Field Conductivity³ Field Turbidity* Time Sampled Field pH3 Field pH (umhos) 45 4.85 .90 5 ¥3.0 43 9.0 71.8 4-13 42 .60 12.8 4.07 .88 .53 6 42.i 42 1:2779.5 71.3 42 71.8 7 9.0 4.13 42 . 60 8 4.07 47 3 ک د د 71.3 One Point Final Check One Point Final Check

Signature of Field Technician:

Lab Manager Approval:

House Rouge

Signature of Field Technician:

Lab Manager Approval:

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WELL SAMPLING FIELD DATA SHEET																	
DATE: 4	2-23-	00			CITY: TAMPA												
COMPANY N	امن :IAME	UB FAIR	۲		RCI PROJECT	NO. 3	205	40.015				STATE:	FL	-			
	INITIAL FIELD CALIBRATION																
pH Meter No.	pH Meter No.: Serial No.: Purge Cal, Buffers											7 10				Temp	°C
Sample										4		7 10			·	Temp	•c
Conductivity Meter No.: Serial No.: Purge										Temp ¹	•c	Table	М	Meter C		Cf ·	
Sample										_Temp	°C	Table	м	Meter C		Cf	
Turbidity Met	er No.:			Serial No.: _	·		Purg	e Cal. Solution	2	0.00		20,0	10	00		800	
							Sam	ple		0.00		20.0		00		800	
DATE:	CALIBRATION FOR WELL VOLUME π r' (Water Column x 7.481)																
	Top of	_Well		L INFORMA Water		Volume	of	Min, Volume							ĺ		
Well E	Top of Casing Eleyation (Feet)	Depth (Bottom) (Feet)	Wate Leve (Feet	r Level	n Water Column (Feet)	Volume Water Casin (Gal.)	in I	to be Purged (Gal.)		2" Well	,		4" Well		6" Well		
mw-z		10.27	4.29						r² ==		0.0069	r² =		0.0278	r² =		0,0625
DUP									π=		x 3.14	1		x 3.14	π=		x 3.14
Well Casing (Construction:	PV	C					-			0,220			0.087			0,196
Well Casing [Diameter:	2"	BI	eoken ca	P				Gai =		x 7.48	Gal=		x 7.48	Gal =		x 7.48
¹ Orion mete	rs are tempe	rature compe	ensated to	25°C. Meter	should be set to	1408 at 25°0	C ± 5°C	. Cole			0.165		. *	0.653			1.47
Parmer me	ters are temp	erature comp	pensated	to 25°C. YSI n	neter must have	a correction f	factor of	f 1.00 ±0.5%.	Water Column x / O Water Column x Water					Vater Column x			
	•			•	alibration manua				Well Volumes x 3 3.0 Well Volumes x 3 We					 	Well Volumes x 3		
•			-	. ~	libration NTU's ng is complete o			11							Min. Volume to be Purged		
TIOIG MICCO		or oranizo re			ig is combiste o	TO VOIGITIOS,	THE COLOR	or is greater.	to be	olume Purged	3.0	to be	Purged	===	to be P	urged	
DATE:			PUF	RGE INFORM	MATION	-			DATE: SAMPLING INFORMATION								
Purged Volume (Gal)	Time Purg (Min.)	ed Aci Ti Pui	tual me rged Do	Field, Temps (°C)	Field pH³	Fle Conduc (µmh	ld ctivity ^s los)	Field Turbidity* (NTU)		Time Sampled		eld PMP C)	Field pH C		Field onductivit (µmhos)	ty	Field Turbidity* (NTU)
ع	20		11.6	73.8	3.84	10	3	5.61		6.8 7		3.1	3.63		97		3.43
_3			11.1	75.0	3.67	10	6	7.12	2:	4204.3	72	.2	3.59		99		2.51
<u>.</u> 4			6.8	73.1	3.63	9		3.43							· · · · · · · · · · · · · · · · · · ·		
<u>ح</u>			4.3	72.2	3.59	9	<u> </u>	2.51								_	
	·	AL	-50	DUP		_	· · ·										
								ļ						<u> </u>			· ·
One Point Fi	nat Check							<u> </u>	One Point Final Check								
Signature of	Signature of Field Technician: Tours of Field Technician:								Signature of Field Technician:								
Lab Manager Approval:								Lab Manager Approval:									

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DATE: 2-22-00 USER'S NAME: FB CITY: TAWNOR																		
DATE:	CITY: +AMPA																	
COMPANY NAME: GNB FRIK. RCI PROJECT NO. 32040.015										STATE: FL								
						INITIAL F	FIELD	D CALIBRA	TION									
pH Meter	r No.:		Se	nal No.:				Cal. Buffers		14 7		7 10			Tei	mp °C		
							Samp	le		4		7	10		Tei	mp °C		
Conducti	vity Meter No.:		Se	rial No.:			Purge)		Temp ¹	°C.	Table	Mete	er	Cf			
				·		Į.	Samp			Temp	°C	Table	Mete	er	Cf			
Turbidity	Meter No.:	·	Se	rial No.:			Purge	Cal. Solution		0.00		20.0	100		800	0		
							Samp	le		0.00		20.0	100		800	0		
DATE: WELL INFORMATION											CALI	BRATIC	ON FOR WEL	L VC 7.481)	LUME			
Well No.	Top of Casing Eleyation (Feet)	Well Depth (Bottom) (Feet)	Water Level (Feet)	Water Level Elevation (Feet)	Water Column (Feet)	Volume of Water In Casing (Gal.)	r M	lin. Volume to be Purged (Gal.)		2" Well			4" Well	6" Well		" Well		
MW-34		14.35	5.19						r² =		0,0069	r² ≂	0,0	278	_ c² =	0,0625		
DUP									π=		x 3,14	π=	x	3.14	π=	x 3.14		
Well Cas	ing Construction:	pvo									0,220		0	.087		0,196		
Well Casi	ing Diameter:	2"							Gal =		x 7.48	Gal=	x	7.48	Gal =	x 7.48		
¹ Orion n	neters are tempe	rature compe	nsated to 2	5°C. Meter sho	ould be set to 1	408 at 25°C ±	Ŀ 5°C.	Cole			0.165		0	.653		1.47		
	r meters are tem	•						1.00 ±0.5%.	Water Column x 1.5 Water Column x Water Column						mn x			
	ne temperature n ty Meter must be			•				aml	Well Volumes x 3 4, 5 Well Volumes x 3						Well Volumes x 3			
	easurements mu		_	_				- 11	Min. \ to be	/olume / Purged	1.5	Min. V	olume Purged		Min. Volume to be Purge	e id		
DATE:			PURG	E INFORMA	TION		\ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \		D	ATE:		SAMP	LING INFOR	MATI	ION			
Purged Volume (Gal)	Time Puro (Min.)	ged Act Tii Pur	ged pe	Field, Temp ³ (°C)	Field pH³	Field Conductiv (µmhos	/ity³	Field Turbidity* (NTU)		Time Sampled	Fle Tei (°	eld mp C)	Fleld pH	Co	Field enductivity (µmhos)	Field Turbidity* (NTU)		
- 2	20		11.6	73.0	5.80	517	-	114		12.9	73	. 1	5.18		555	26.0		
3			12.9	42.4	5.31	533		33.4	12:	120 9.1	77	.3	5.13		5 ¥ S	249		
<u>H</u>			12.9	73.1	5.18	5.55		26.0	_ _					<u> </u>				
			E I			1 .			11			*						

One Point Final Check One Point Final Check Signature of Field Technician: Signature of Field Technician: Lab Manager Approval: Lab Manager Approval:

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		WELL SAMPLING FIELD DATA SHEET															
DATE;	2-2	2-00		U:	SER'S NAME:		CITY: -tampA										
COMPANY	(NAME: G	NB		R	CI PROJECT N	o. 3 2 0	>4c	0.015				STATE:	FL				
						INITIAL	FIEL	D CALIBRA	TION								
pH Meter No.: Serial No.: Purge Cal. Buffers										4		7	10	10		np °C	
Sample_										4		7 10			Ten	np °C	
Conductivity Meter No.: Serial No.: Purge								Ө		Temp ¹	•c	Table	Meter		Cf ·	ř	
							Sam			Temp	-°C	Table	Meter		Cf		
Turbidity M	eter No.:		s	Serial No.:		 }		e Cal. Solution	! 	0.00		20.0	100		800		
							Samp	ple		0.00		20.0	. 100		800		
DATE:			WELI	L INFORMATI	ON						CAL	IBRATI π r (V	ON FOR WELL ater Column x 7.4	VOLUI	ME		
Well No.	Top of Casing Elevation (Feet)	Well Depth (Bottom) (Feet)	Water Level (Feet)	Water Level Elevation (Feet)	Water Column (Feet)	Volume o Water In Casing (Gal.)	1 1	Min. Volume to be Purged (Gal.)	2" Well				4" Well			Well	
MW-4		11-42	7.29						r² ==		0,0069	r ² =	0,027	8 r²=		0,0625	
									π=		x 3.14	π =	x 3.1	4 π=		x 3.14	
Well Casino	Construction	<u>.</u>									0,220	ļ	0,08	7.		0,196	
Well Casing	Diameter:								Gal =		x 7.48	Gal=	x 7.4	8 Gal	=	x 7.48	
	·	•		25°C. Meter sho				l.			0,165		0.65	3		1.47	
		-	-	o 25°C. YSI mete ally. Check calib				1.00 ±0.5%.	Water Column x . 6 3 Water Column x Water Column						n x		
	•			b assigned calibr				dard.	Well Volumes x 3 Z . Well Volumes x 3 Well Vo					i Volume	s x 3		
* Field mea	asurements mi	ust stabilize t	o within 5%	before purging is	s complete or 3	volumes, wł	hichev	er is greater.	Min. Volume to be Purged Min. Volume to be Purged Discourse to be Purged						,		
DATE:			PUR	GE INFORMA	TION				DATE: SAMPLING INFORMATION								
Purged Volume (Gal)	Time Puro (Min.)	ged Ac	etual ime irged Do	Field, Temp' (°C)	Fleld pH³	Fleid Conducti (µmho	vity³	Field Turbidity* (NTU)	Time Time		El I e	eld emp C)			id ctivity os)	Field Turbidity' (NTU)	
2.0			13.0	۳.2£	5.71	200		87.8		18.4	ήų	٥	5,55	181		2.26	
3.0			11.8	43.5	5.59	192	•	1.73		40A 17.6	73	٠4	5.58	190	<u> </u>	2.31	
4.0			118.4	74.0	<u>5.55</u>	181		2.26									
5,0			17.6	73.4	5.58	190		2.31									
							<u> </u>	 	_		<u>`</u>						
One Point	Final Check				*.				Or	e Point Fin	al Chec	k					
		nician:	2	100	S. Que V.				Signature of Field Technician:								
										Lab Manager Approval:							

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						WELL SAM	IPLING	G FIELD DATA	SHEET								
DATE:	2-24-	00		US	ER'S NAME:	F. B	•					CITY:	TAW	NO FA			
COMPANY N	NAME: Br	US FAU	(KEN)	RC RC	PROJECT N	0. <u>32</u> 1	صرر	<u>70.00</u>				STATE:	ード	_			
						INITIAL	FIEL	D CALIBRA	TION								í
pH Meter No	.:		Se	orial No.:			Purge	e Cal. Buffers		4 4.0	33	7 6	.98	10 C	ો.લમ	Temp	° C
				<i>~</i> ····································			Sam	pie		4		7		10		Temp	<u>.c</u>
Conductivity	Meter No.: _		Se	rial No.:			Purge			Temp ¹	•c	Table		Meter		Cf ·	
							Sam			Temp	<u>°C</u>	Table		Meter		Cf	
Turbidity Met	er No.: _		Se	rial No.:				e Cal. Solution ²		0.00		20.0		100		800 800	
							Samp	pie		0.00		20.0		. 100			
DATE:			WELL	INFORMATIO	ONNC						CAL	IBRATIO	ON FOR	WELL \	(OLUME		
Well I	Top of Casing Elevation (Feet)	Well Depth (Bottom) (Feet)	Water Level (Feet)	Water Level Elevation (Feet)	2" Well			4" Wel	l i		6" V	/ell					
MW-5		18.79	7.22			Volume (Water Ir Casing (Gal.)	Min. Volume to be Purged (Gal.)	r² ⊨		0,0069	r² =		0,0278	r² =		0,0625	
			<u> </u>	<u> </u>		· · · · · · · · · · · · · · · · · · ·		π=		<u>x 3.14</u>	π=		x 3.14	π=		x 3.14	
Well Casing (Construction:		IC								0,220			0,087	·		0,196
Well Casing [Diameter:	2		(NO 101)	TO MAN	HOLE)	······································		Gal =		x 7.48	Gal=		x 7.48	Gal =	····	x 7.48
	•	•		25°C, Meter sho				. 11			0,165			0.653	<u> </u>		1.47
	-	•		25°C. YSI mete lly. Check calibr				1 1.00 ±0.5%,		Column x	_		Column)	(Column	
	•			assigned calibra				dard.			9.54	Well V	olumes x	3		olumes	x 3
³ Field meas	urements mus	t stabilize to	within 5%	before purging is	complete or 3	volumes, w	hichev	er is greater.	Min. V to be f	olume Purged	1.54	Min. V to be	olume Purged		Min. Vo	lume urged	
DATE:			PURG	E INFORMAT	rion				DA	TE:		SAMP	LING IN	FORMA	TION		
Purged Volume (Gal)	Time Purge (Min.)	d Acti Tin Pur	ual ne ged ນູບ	Field, Temps (°C)	Fleld pH ³	Fleic Conduct (µmho	lvity ^s	Field Turbidity ³ (NTU)	8	Time Sampled DO	FI Te	eld emp C)	Fleld	рН	Field Conductivi (µmhos)	ty	Field Turbidity* (NTU)
S	TO		22.1	76.6	5.68	14		. 42		21.4	モ	5.2	<u>خ</u> .	55	14		.63
¥			21.8	76.8	5.62	15		.68	11:0	DOA 22.8	Ę	5.4	<u> </u>	59	14		.66
9			21.4	75.2	5.55	14		.63							····		
10	<u> </u>	11.001	7 22.8	75.4	5.59	14		.66									
		_								· · · · · · · · · · · · · · · · · · ·							
One Point Fl	nai Cheok								On	a Point Fin	al Chec	k					
Signature of	Field Technic	clan:	jour	eall?	Cover					nature of I							
Lab Manage			b Manager				٠٠.										

WELL SAMPLING FIELD DATA SHEET EB TOMPA USER'S NAME: CITY: 22040.015 RCI PROJECT NO. STATE: INITIAL FIELD CALIBRATION Purge Cal. Buffers 4 10 Temp °C Sample 7 10 Temp °C Cf · Purge Temp1 °C Table Meter Sample Cf Temp ۰C Table Meter Purge Cal. Solution² 20.0 100 800 0.00 Sample 20.0 100 800 0.00 CALIBRATION FOR WELL VOLUME π Γ (Water Column x 7.481) **WELL INFORMATION** Min. Volume to be Purged (Gal.) Volume of Water in Casing (Gal.) Water Column (Feet) 2" Well 4" Well 6" Well r² = r² ... r2 = 0.0278 0.0069 0.0625 x 3.14 x 3.14 x 3.14 $\pi =$ 0.220 0.087 0.196 Gal = Gal = x 7.48 Gal= x 7.48 x 7.48 Orion meters are temperature compensated to 25°C. Meter should be set to 1408 at 25°C ± 5°C. Cole 0.653 0.165 1.47 Parmer meters are temperature compensated to 25°C. YSI meter must have a correction factor of 1.00 ±0.5%. Water Column x Water Column x Water Column x Also, the temperature must be corrected manually. Check calibration manual for further details, 3.5 Well Volumes x 3 Well Volumes x 3 Well Volumes x 3 Turbidity Meter must be set according to the lab assigned calibration NTU's values for each standard. Field measurements must stabilize to within 5% before purging is complete or 3 volumes, whichever is greater. Min. Volume 1 5 Min. Volume Min. Volume

7 TOTA THOU		Dilizo to Within 57	e perore barging i	s complete of o	Volumes, Whicheve	is greater.	be Purged C	3.5 to be	Purged	to be Purge	d
DATE:	` .	PUR	GE INFORMA	TION			DATE:	SAME	LING INFORI	MATION	
Purged Volume (Gal)	Time Purged (Min.) りさ	Actual Time Purged	Field, Temp' (°C)	Field pH³	Field Conductivity ^s (µmhos)	Field Turbidity ³ (NTU)	Time Sampled りご	Field Temp (°C)	Fleld pH	Field Conductivity (µmhos)	Field Turbidity³ (NTU)
2	20 8.0		75,7	6.60	199	1.48	5.9	72.6	5.62	195	1.28
4	6.3		71.8	5.90	197	2.14	3:5079.7	70.7	5.60	196	.85
5	5.9		F2.6	5.62	1-28			·			
6			70.7	5.60	196	.85				·	
	·										
			·								
One Point F	Final Check	\sim					One Point Fina	l Check			
Signature o	f Field Technician	: House	2020	Querr		Signature of F	eld Technician:				
11	er Approval:	4	01	Ψ.			Lab Manager A				
								,			

2-21-00

GNB

Well Depth (Bottom) (Feet)

11.31

Serial No.:

Serial No.:

Serial No.:

Water Level (Feet)

4.02

Water Level Elevation (Feet)

DATE:

DATE:

Well No.

mw-6

COMPANY NAME:

Conductivity Meter No.:

Top of Casing Elevation (Feet)

Well Casing Construction:

Well Casing Diameter:

Turbidity Meter No.:

pH Meter No.:

WELL SAMPLING FIELD DATA SHEET 2-21-00 TAMPA DATE: USER'S NAME: FB CITY: GNB RCI PROJECT NO. 32040.015 FL COMPANY NAME: STATE: INITIAL FIELD CALIBRATION Serial No.: Purge Cal. Buffers pH Meter No.: 4 10 Temp °C ۰C Sample 10 Temp Meter Cf : Purge Conductivity Meter No.: Serial No.: Temp1 °C Table <u>Meter</u> Cf Sample Temp ۰C Table Turbidity Meter No.: Serial No.: Purge Cal. Solution² 008 0.00 20.0 100 Sample 20.0 100 800 0.00 CALIBRATION FOR WELL VOLUME π Γ (Water Column x 7.481) 2-21-00 DATE: WELL INFORMATION Well Depth (Bottom) (Feet) Volume of Water in Casing (Gal.) Min. Volume to be Purged (Gal.) Top of Casing Elevation (Feet) Water Level Elevation (Feet) Water Level (Feet) Water Well No. Column 2" Well 4" Well 6" Well 14.581 3.82 Mw-7 r2 = 0,0069 r² = 0.0278 r2 = 0.0625 x 3.14 x 3.14 x 3.14 PVC Well Casing Construction: 0.220 0.087 0.196 2" Well Casing Diameter. Gal = x 7.48 Gal= x7.48Gal = x7.48Orion meters are temperature compensated to 25°C. Meter should be set to 1408 at 25°C ± 5°C. Cole 0.165 0.653 1.47 Parmer meters are temperature compensated to 25°C. YSI meter must have a correction factor of 1.00 ±0.5%, 1.77 Water Column x Water Column x Water Column x Also, the temperature must be corrected manually. Check calibration manual for further details. Well Volumes x 3 5.33 Well Volumes x 3 Well Volumes x 3 Turbidity Meter must be set according to the lab assigned calibration NTU's values for each standard. Min. Volume to be Purged Min. Volume to be Purged 5.33 Min. Volume to be Purged Field measurements must stabilize to within 5% before purging is complete or 3 volumes, whichever is greater. **PURGE INFORMATION** DATE: SAMPLING INFORMATION DATE: Actual Time Purged 5 © Field Temp (°C) Purged Volume (Gal) Fleld, Temp' (°C) Field Conductivity^s (µmhos) Fleid Turbidity³ (NTU) Field Conductivity (µmhos) Time Purged (Min.) Time Sampled Fleid pH3 Fleld pH 9.88 770 76.5 5.21 2 5.62 309 2.06 20 320 5.33 4.32 4:438 H 313 316 1.44 5.21 4.0 3 309 2.06 316 .44 One Point Final Check One Point Final Check Signature of Field Technician:

Lab Manager Approval:

Signature of Field Technician:

WELL SAMPLING FIELD DATA SHEET 2-21-00 TAMPA DATE: USER'S NAME: CITY 32040-015 COMPANY NAME: BCI PROJECT NO. FL CADB STATE: INITIAL FIELD CALIBRATION pH Meter No.: Serial No.: Temp Purce Cal. Buffers 10 °C 10 Temp °C Sample Purge °C Cf : Conductivity Meter No.: Serial No.: Temp1 Table Meter Sample Cf °C Table Meter Temp Serial No.: Purce Cal. Solution² Turbidity Meter No.: 0.00 20.0 100 800 Sample 0.00 20.0 100 800 CALIBRATION FOR WELL VOLUME WELL INFORMATION DATE: Well Depth (Bottom) (Feet) Volume of Water in Casing (Gal.) Min. Volume to be Purged (Gal.) Top of Casing Eleyation (Feet) Water Water Level (Feet) Level Elevation (Feet) Water Well No. Column 2" Well 4" Well 6" Well 14.38 mw-8 5.57 r2 __ r2 = ے 2 0.0069 0.0278 0.0625 x 3.14 π= x 3.14 x 3.14 Well Casing Construction: 0.220 0.087 0.196 Well Casing Diameter: Gal = x 7.48 Gal= x 7.48 Gal = x 7.48 Orion meters are temperature compensated to 25°C. Meter should be set to 1408 at 25°C ± 5°C. Cole 0.165 0.653 1.47 Parmer meters are temperature compensated to 25°C. YSI meter must have a correction factor of 1.00 ±0.5%. Water Column x 141 Water Column x Water Column x Also, the temperature must be corrected manually. Check calibration manual for further details. Well Volumes x 3 Well Volumes x 3 4, 22 Well Volumes x 3 Turbidity Meter must be set according to the lab assigned calibration NTU's values for each standard. Min. Volume to be Purged Min. Volume to be Purged Min. Volume to be Purged Field measurements must stabilize to within 5% before purging is complete or 3 volumes, whichever is greater. 4.22 DATE: **PURGE INFORMATION** SAMPLING INFORMATION DATE: Time Sampled Purged Volume (Gal) Actual Time Purged po Field, Temps (°C) Field Conductivity³ (µmhos) Field Conductivity (µmnos) Time Purged (Min.) Field Turbidity* (NTU) Eield Field pH3 Field pH Temp 88.2 68.7 5.73 69. C 2 68 15.5 269 2 20 7.79 13.4 73.1 £7.8 9.3 29.0 6:17 9.0 3 66.9 5.72 275 67.1 5.67 262 88.2 5.79 69.6 4 i5.5 269 262 87.8 5.67 67.1 One Point Final Check One Point Final Check

Signature of Fleid Technician:

Lab Manager Approval:

Signature of Field Technician:

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						WELL SAMPL	ING FIELD DATA	SHEET								
DATE:	2.	23-06	5	U	SER'S NAME:	FB.					CITY:	TAMP	ų			
COMPAN	IY NAME: G	NB FA	LK.	R	CI PROJECT N	10. 320	10.015				STATE:	FL				
				'			ELD CALIBRA	TION								
pH Meter	No.:		s	erial No.:			urge Cal. Buffers		4		7	10		Tem	D.	°C
							ample		4		7	10		Tem		•C
Conductiv	ity Meter No.:		s	erial No.:		Р	urge		Temp ¹	°C	Table	Meter	-	Cf ·		ii 2.1
						s	ample		Temp	<u>•</u> c	Table	Meter		Cf		
Turbidity I	Meter No.:		s	erial No.:		P	urge Cal. Solution	2	0.00		20,0	100		800		
						s	ample		0.00		20.0	100		800		
DATE:		•	WELI	. INFORMATI	ON					CAL	BRATIO	N FOR WELL ter Column x 7	VOLUN	IE		
Well No.	Top of Casing Elevation (Feet)	Well Depth (Bottom) (Feet)	Water Level (Feet)	Water Level Elevation (Feet)	Water Column (Feet)		2" Well			4" Well			Well			
mw-9		14.58	4.93			Casing (Gal.)	Min. Volume to be Purged (Gal.)	r² =		0.0069	r² =	0.02	78 r² =	<u> </u>		0,0625
								π =		x 3.14	π=	x 3.				x 3.14
Well Casi	ng Construction:	PVC								0,220		0.0	37			0,196
Well Casi	ng Diameter:	2"						Gal =		x 7.48	Gal=	x 7.	48 Gal	=		x 7.48
1 Orion m	eters are tempe	rature compe	nsated to	25°C. Meter sho	ould be set to 1	408 at 25°C ± 8	5°C. Cole			0.165		0,6	53			1.47
	•	•		25°C. YSI mete				Water	Column x	1.59	Water 0	Column_x	Wate	er Colum	ın x	
	•			ally. Check calib b assigned calibr				Well \	/olumes x 3	4.78	Well Vo	lumes x 3	Well	Volume	s x 3	
		-	-	before purging is			ı	Min.	/olume Purged 서	.' 7 8	Min. Vo	lume	Min.	Volume Purged	ı	
DATE.			DUD	GE INFORMA	TION									ruigoo		
DATE:	T			T	HON			==	ATE:			ING INFORM		. 1		
Purged Volume (Gal)	Time Purc (Min.)	jed <u>Act</u> Tir Pur	ne ged _{DO}	Field, Temp' (°C)	Field pH ³	Field Conductivit (µmhos)	y' Turbidity' (NTU)		Time Sampled	Fle Te	mp C)	Field pH	Field Conduct (µmhd	ivity s)	Turb (N	eld fulty
2	20		9.7	73.0	<u>5.93</u>	104	5.36		6.1	7-2	2.1	5.61	122		10	3
3			6.0	72.1	6.30	101	5.40	<u>s:</u>	40P S.9	71	.ㅋ	5.08	132		13	· 子
44			6.3	71.9	6.33	100	18.02									
<u> </u>			6.1	72.1	5.61	122	103		·							
7			5.9	71.7	5.08	132	/37						·			
One Date	t Final Check				· · · · · · · · · · · · · · · · · · ·				ne Point Fin							· ·
	of Field Techr	ololon: D	CA.	1300	1				anature of F							
	e cor Polenico SACOT	111:12111 EVA CT	MIN 1 / /	40 1 Name 1	LANCE A DI VI	11 50	musiliem AT M	1 MIT 1 DC	unician'							

Lab Manager Approval:

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						WELL SAMPL	ING FIELD DATA	SHEET							
DATE: 2	-23-	00			JSER'S NAME:	FB					CITY;	TAMP	A		
COMPANY	VAME: O-A	JB FAIK	<u>د،</u>		RCI PROJECT N	0. <u>320</u>	40.015				STATE:	FL			
						INITIAL FI	ELD CALIBRA	TION							
pH Meter No	·:		Se	rial No.:		Р	urge Cal. Buffers		4		7	10		Te	emp ₃°C
						<u>s</u>	ample		4		7	10		Te	emp °C
Conductivity	Meter No.:		Se	rial No.:		<u>P</u>	urge		Temp ¹	<u>•</u> c	Table	Mete	er	C	f ·
							ample		Temp	<u>•c</u>	Table	Mete	∍r	C1	
Turbidity Met	ter No.:		Se	rial No.:			urge Cal. Solution	2	0.00		20.0	100		80	10
						s	ample		0.00		20.0	100		80	10
DATE:		·	WELL	INFORMAT	ION					CAL	IBRATIO	ON FOR WEI	L VC 7.481)	LUME	
Well I	Top of Casing Eleyation (Feet)	Well Depth (Bottom) (Feet)	Water Level (Feet)	Water Level Elevation (Feet)	Water Column (Feet)	Volume of Water in Casing (Gal.)	Min. Volume to be Purged (Gal.)		2" Well			4" Well			6" Well
nu-10		14.55	4.35					r² =		0,0069	= م	0.0	0278	r² =	0,0625
			·					π=		x 3,14			3.14	π=	x 3.14
Well Casing (Construction:	PVC) 							0,220		0	.087		0,196
Well Casing [Diameter:	2"						Gal =		x 7.48	Gal=	x	7.48	Gal =	x 7.48
1 Orion mete	rs are tempe	rature compe	nsated to 2	5°C. Meters	nould be set to 1	408 at 25°C ±	5°C. Cole			0,165		0	.653		1.47
	•				ter must have a			Water	Column x	1.68	Water	Column x		Water Colu	ımn x
					bration manual for oration NTU's val		1	Well V	/olumes x 3	5.05	Well V	/olumes x 3		Well Volun	nes x 3
, -			_	-	is complete or 3			Min. V	olume Purged		Min. V	olume Purged		Min. Volum to be Purg	10,
															ea
DATE:	<u> </u>			E INFORM	ATION	T T			ATE:		SAMP	LING INFOR	T		
Purged Volume (Gal)	Time Purg (Min.)	ged Act Ti Pur	tual me rged _{DO}	Field, Temp' (°C)	Field pH³	Field Conductivit (µmhos)	Turbidity (NTU)		Time Sampled . ウン	Flo Te	eld (mp (C)	Fleld pH	Co	Field enductivity (µmhos)	Fleid Turbidity ³ (NTU)
3	30		14.5	41.1	5.86	13	4.56		9.1	٦.	2.3	6.28		12	3.3z
4			11.2	72.1	6.01	11	3.87	2:	05P 104	耳,	3.1	6.29	<u> </u>	12	3.39
			9.1	72.3	6.28	12	3.32						ļ	<u>:</u>	
6			10.4	73.1	6.29	12	3.39				-		1 : "		
					-	· ·	·	-					 		
One Point Fi	Inal Check	.						Or	ne Point Fin	al Chec	k			4.1	
Signature of	Field Techr	nician:	V0€11 € >20	o LA la	main			Sic	gnature of F	leld Ted	chnician:				
Lab Manage				1000					b Manager			·			. , ,

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						WELL SAN	IPLING	FIELD DATA	SHEET	•		: = 51000						
DATE:	2-23-	00		U	SER'S NAME:	FB							CITY:	DAMA	PA			
COMPANY N	الم سى NAME:	B FAL	<u>K</u>	R	CI PROJECT N	o. <u>32</u>	040	0.015				<u>·</u>	STATE:	FL			=======================================	
						INITIAL	FIELI	D CALIBRA	TION									
pH Meter No.	.:		s	erial No.:			Purge	Cal. Buffers		4			7	1	0		Temp	·°C
							Samp	le		4			7	1	0		Temp	့င
Conductivity i	Meter No.:		s	erial No.:			Purge) ·		Tem	p ¹	<u>°C</u>	Table		<u>/leter</u>		Cf ·	
							Samp	ole		Tem	p	<u>°C</u>	Table		/eter		Cf	
Turbidity Met	er No.:		S	ərial No.:		·		Cal. Solution ²	!	0.00			20,0		00		800	
							Samp	le		0.00			20.0		00		B00	
DATE:		•	WELL	INFORMATI	ON							CALI	BRATI	ON FOR Water Column	/ELL V(PLUME		
Well Casing Elevation (Feet) Water Level Elevation (Feet) (Feet) Water (Feet) Water (Gal.) Water Column (Gal.) Purged (Gal.) Casing (Gal.) Purged (Gal.) Pur																	6" Well	
			T .					r² =			0.0069	r² =		0.0278	r² =		0,0625	
·								π=			x 3.14	π=		x 3.14	π =		x 3.14	
Well Casing (Construction:	PV	'C			·						0,220	<u> </u>		0,087			0,196
Well Casing (Diameter:	2"							Gal =			x 7.48	Gal=		x 7.48	Gal =	· · · · · · · · · · · · · · · · · · ·	x 7.48
	•	•		,	ould be set to 14			il		···-		0.165			0.653			1,47
	•				er must have a c pration manual fo			1.00 ±0.5%.	Water	Colum	n x	1-7	Water	Column x		Water C	olumn x	
	•			•	ration NTU's val			lard.	Well \	/olume	s x 3	<u>5.12</u>	Well V	olumes x 3		Well Vol	ımes x 3	
• Field meas	urements mus	st stabilize to	within 5%	before purging i	is complete or 3	volumes, w	hicheve	er is greater.	Min. V to be	olume Purgec	د د	. (2	Min. V to be	olume Purged		Min. Volt to be Pu	ime rged	
DATE:			PURC	GE INFORMA	TION				D	ATE:			SAMP	LING INFO	ORMAT	ION		
Purged Volume (Gal)	Time Purge (Min.)	ed Act	ual ne ged DC	Field, Temps (°C)	Fleid pH³	Fleid Conduct (µmhd	lvity³	Fleid Turbidity* (NTU)		Time Sample	ed Deg	Fle Ter (°0	ld np C)	Fleid pH	Co	Field onductivity (µmhos)	Tu	Field irbidity* (NTU)
35	30.5		5.0	75.3	3.56	1×8	2.	> i000			¥.2	<i>`</i> *+1	₹- i	3.51		143	2	54
47			5.4	74.7	3.58	150		438	4:	20 P	7.5	70	1.7	3.54		136		30
59	·		3.9	72.9	3.53	15		371	_	······································								
6 10			7.2	74.1	3,51	14		254				·····			_			
12			14.0	74.7	3.54	13	<u> </u>	130		· · · · · · ·								
One Point Fi	Inal Chack				,					B DAI	t Gine	l Check				· · · · · · · · · · · · · · · · · · ·		
Signature of		Iclan: J	رهيب	1 7	Deart			1				eld Tec						
SIGNATO OF	TINIA LONIIII	A-10111		<u> </u>	atinital.	~ ~	-14 100	TIPIGITI										

Lab Manager Approval:

WELL SAMPLING FIELD DATA SHEET 2-22-00 USER'S NAME: FB TAM DA DATE: CITY: COMPANY NAME: GNR FALK RCI PROJECT NO. 32040.015 STATE: INITIAL FIELD CALIBRATION pH Meter No .: Serial No.: 7 Temp °C Purge Cal. Buffers 4 10 7 10 Temp °C Sample Purge Conductivity Meter No.: Serial No.: °C Table Meter Cf : Temp1 Cf Sample Temp °C Table Meter Turbidity Meter No.: Serial No.: Purge Cal. Solution² 0.00 20.0 100 800 Sample 0.00 800 CALIBRATION FOR WELL VOLUME π r' (Water Column x 7,481) DATE: WELL INFORMATION Well Depth (Bottom) (Feet) Volume of Water in Casing (Gal.) Min. Volume to be Purged (Gal.) Top of Casing Elevation (Feet) Water Level Elevation (Feet) Water Level (Feet) Water Well No. Column (Feet) 2" Well 4" Well 6" Well 17.48 34.32 mw-12 r2 = r2 = r2 = 0.0069 0.0278 0.0625 x 3.14 $\pi =$ x 3.14 $\pi =$ x 3.14 π == PVC Well Casing Construction: 0.220 0.087 0,196 Well Casing Diameter: Gal = Gal = x 7.48 Gal= x 7.48 x 7.48 3.27 Onon meters are temperature compensated to 25°C. Meter should be set to 1408 at 25°C ± 5°C. Cole △ 0.165 0.653 1.47 Parmer meters are temperature compensated to 25°C. YSI meter must have a correction factor of 1.00 ±0.5%. -165 Water Column x Water Column x Water Column x Also, the temperature must be corrected manually. Check calibration manual for further details. Well Volumes x 3 9.82 Well Volumes x 3 Well Volumes x 3 Turbidity Meter must be set according to the lab assigned calibration NTU's values for each standard. Min. Volume to be Purged Min. Volume to be Purged Min. Volume to be Purged Field measurements must stabilize to within 5% before purging is complete or 3 volumes, whichever is greater. 9.82 DATE: PURGE INFORMATION SAMPLING INFORMATION DATE: Purged Volume (Gal) Actual Time Purged D O Field Turbidity* (NTU) Field Conductivity (µmhos) Time Purged (Min.) Field, Field Conductivity³ Fleid Turbidity* Time Sampled Field Fleld pH3 Fleld pH Temp Temp (°C) (µmhos) Do 6.89 962 6.41 85.8 7 85.4 [[4] 3.89 40 7.2 .95 6.80 84.5 7 7.6 6.50 920 84.5 1012 HG 1: 40 A 9 1.15 85.4 6.89 962 84.5 6.90 920 , 95 10 1: 40P One Point Final Check

Signature of Field Technician: Lab Manager Approval:

Signature of Field Technician: Lab Manager Approval:

One Point Final Check

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						WELL SAMP	LING FIELD DATA	SHEET	•							
DATE:	2-2	2-00		<u> </u>	JSER'S NAME:	FB					CITY;	TAMA	· 14·			
COMPAN	Y NAME: GN	B		<u>_</u>	RCI PROJECT N	10. 3201	10.015				STATE:	FL				
						INITIAL F	IELD CALIBRA	TION								
pH Meter	No.:		s	Serial No.:			Purge Cal. Buffers		4 4.0	7	7 6.	99	10 9.9	92 T	emp	°C
						s	Sample		4		7		10	Т	emp	°C
Conductiv	ity Meter No.:		s	erial No.:			Purge		Temp ¹	<u>•c</u>	Table		Meter)f '	
					······································		Sample		Temp	<u>•</u> c	Table		Meter)f	- '
Turbidity I	Meter No.:		s	erial No.:			Purge Cal. Solution	2	0,00		20.0		100		00	
							Sample	1	0.00		20.0		100		00	
DATE:			WELI	_ INFORMAT	ION					CAL	BRATIC	ON FOR V	VELL VO n x 7.481) LUME		
Well No. Top of Casing Elevation (Feet) Well (Bottom) (Feet) Water Level Elevation (Feet) Water Column (Feet) Volume of Water in Casing (Gal.) Min. Volume to be Purged (Gal.) 2" Well 4" Well Mub. 13 37.21 17.63 r² = 0.0069 r² = 0.0069 r² = 0.0069 r² = 0.0069															6" Well	
	11000		·		1	1 (Gai.)	1 (Muli)			0.0069	p2 _		0,0278	r ² =	·	0.0625
,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,				Ť				π=		x 3.14	π=		x 3,14	π=		x 3.14
Well Casir	ng Construction	PVC								0,220			0,087			0,196
Well Casir	ng Diameter:	2"						Gal =		x 7.48	Gal=		x 7.48	Gal =		x 7.48
¹ Orion m	eters are tempe	erature compe	ensated to	25°C. Meter sh	ould be set to 1	408 at 25°C ±	5°C. Cole			0.165			0.653			1.47
		•	•				or of 1.00 ±0.5%.	Water	Column x	3.23	Water	Column x		Water Co	lumn x	
	•				bration manual f ration NTU's val			Well \	/olumes x 3	9.7	Well V	olumes x 3		Well Volu	mes x 3	
				=			chever is greater.	Min. V	olume Purged	7.7	Min. V	olume Purged		Min. Volu	me	
				05 11/50011		3									30u	
DATE:				GE INFORM	TION				ATE:			LING INF	7		T	
Purged Volume (Gal)	Time Purg (Min.)	ged Ac T Pu	tual Ime rged bo	Field, Temps (°C)	Field pH ^s	Field Conductivi (µmhos)	ty ³ Field Turbidity (NTU)		Time Sampled りつ	Fle Te	eld mp C)	Fleid pi	1 C	Field onductivity (µmhos)	Turk (N	eld plaity* TU)
5	40		10.0	72.9	7.50	312	1.53		10.6	7 7	.8	7.50		345	1.1	/
ৰ		<u> </u>	12.8	76.2	7.51	337			12 19	78	٥.<	4.54	<u> </u>	342	. 60	<u>.</u>
9			10.6	77.8	7.50	345	1011									
16			7.9	78.0	7.34	342	- 66		· · · · · ·						 	
												· · · · · · · · · · · · · · · · · · ·				
One Poin	t Final Check		V					0	na Point Fin	al Check	(
. //	of Field Tech	nician:	ne	2012	Q				unature of F							
	ger Approval:			0-1			b Manager									

a:\de te\fm\waller tr. fr WELL SAMPLING FIELD DATA SHEET 2 - 71 -00 TAMPA FB USER'S NAME: CITY GNB COMPANY NAME: 32040.015 RCI PROJECT NO. STATE INITIAL FIELD CALIBRATION Serial No.: nH Meter No : Purge Cal. Buffers 10 Temp °C 7 10 °C Sample Temn Cf · Serial No : Purge °C Conductivity Meter No.: Temp1 Table Meter Sample °C Table Cf Temp Meter Turbidity Meter No.: Serial No.: Purce Cal. Solution² 0.00 20.0 100 800 Sample 0.00 20.0 100 800 CALIBRATION FOR WELL VOLUME π Γ (Water Column x 7.481) 2-21-00 **WELL INFORMATION** Well Depth (Bottom) (Feet) Min. Volume to be Purged (Gal.) Volume of Water in Top of Casing Elevation (Feet) Water Level Elevation Water Level (Feet) Water Column (Feet) 2" Well 4" Well 6" Well Casing (Gal.) 41.34 14.57 r² _ ب 2 0.0069 0.0278 0.0625 x 3.14 x 3.14 x 3.14 Well Casing Construction: 0.220 0.087 0.196 Well Casing Diameter. Gal = Gal= x 7.48 Gal = x 7.48 x 7.48 Orion meters are temperature compensated to 25°C. Meter should be set to 1408 at 25°C ± 5°C. Cole 0.653 0.165 1.47 Parmer meters are temperature compensated to 25°C. YSI meter must have a correction factor of 1.00 ±0.5%. Water Column x H 28 Water Column x Water Column x Also, the temperature must be corrected manually. Check calibration manual for further details. Weil Volumes x 3 12.85 Well Volumes x 3 Well Volumes x 3 Turbidity Meter must be set according to the lab assigned calibration NTU's values for each standard. Min. Volume to be Purged Min. Volume to be Purged Field measurements must stabilize to within 5% before purging is complete or 3 volumes, whichever is greater. Min. Volume to be Purged 12.85 **PURGE INFORMATION** SAMPLING INFORMATION DATE: Actual Time Purged Field Conductivity' (µmhos) Time Purged (Min.) Field, Temp Field Turbidity³ (NTU) Fleid Temp Field Conductivity (µmhos) Time Sampled Fleld pH³ Fleid pH 00 78.9 32 9 11.67 71.3 30 85.0 2390 10.82 472 18.6 11. 34 392 50.9 14.8 82. 3:000 417 77.6 10.65 30.2 12.4 82.3 8 33 39.5 Lo 11.12 15 11.5 78.9 32.9 10.82 472 io.3

One Point Final Check

Lab Manager Approval:

Signature of Field Technician:

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Signature of Field Technician: Lab Manager Approval:

One Point Final Check

DATE:

DATE:

Well No.

mw-14

DATE:

Purged Volume (Gal)

8

10

12

13

WELL SAMPLING FIELD DATA SHEET 2-22-00 TAMPA USER'S NAME: FB CITY: COMPANY NAME: GNB FAIK RCI PROJECT NO 32040.015 STATE: **INITIAL FIELD CALIBRATION** Serial No .: Temp Purge Cal. Buffers 10 °C 10 Temp °C Sample Purge Temp1 °C Table Meter Cf ' Conductivity Meter No.: Serial No.: Sample °C Cf Temp Table Meter Purge Cal. Solution² Turbidity Meter No.: Serial No.: 100 800 0.00 20.0 Sample 0.00 20.0 100 800 CALIBRATION FOR WELL VOLUME π r (Water Column x 7.481) WELL INFORMATION Top of Casing Elevation (Feet) Well Depth (Bottom) (Feet) Water Level Elevation (Feet) Volume of Water in Casing (Gai.) Min. Volume to be Purged (Gal.) Water Level (Feet) Water Column (Feet) 6" Well 2" Well 4" Well 42.41 17.43 r2 = r² = 0.0278 r2 = 0.0625 0.0069 π= x 3.14 x 3.14 x 3.14 π == PVC Well Casing Construction: 0.220 0.087 0,196 2 " Well Casing Diameter: Gal = x 7.48 Gal= x 7.48 Gal = x7.48Orion meters are temperature compensated to 25°C. Meter should be set to 1408 at 25°C ± 5°C. Cole 0.653 0.165 1.47 Parmer meters are temperature compensated to 25°C. YSI meter must have a correction factor of 1.00 ±0.5%. Water Column x 4.12 Water Column x Water Column x Also, the temperature must be corrected manually. Check calibration manual for further details. Well Volumes x 3 /2.37 Well Volumes x 3 Well Volumes x 3 Turbidity Meter must be set according to the lab assigned calibration NTU's values for each standard. Min. Volume to be Purged Min, Volume to be Purged Min. Volume to be Purged Field measurements must stabilize to within 5% before purging is complete or 3 volumes, whichever is greater, 12.37

DATE:

DATE:

Well No.

mw 15

pH Meter No.:

DATE:		PUR	GE INFORMA	ATION			DATE:	SAME	LING INFOR	MATION				
Purged Volume (Gal)	Time Purged (Min.)	Actual Time Purged 50	Field, Temp' (°C)	Fleld pH³	Field Conductivity ^s (µmhos)	Field Turbidity ³ (NTU)	Time Sampled	Field Temp (°C)	Fleld pH	Field Conductivity (µmhos)	Fleid Turbidity³ (NTU)			
7	55	11.4	81.5	11.60	277	6.93	10.8	77.1	11.40	184	4.57			
9		8.7	79.3	11.50	23/	5.18	5:55P 11.9	76.0	11.33	165	4.06			
11	10.8 77.1 11.40 184 4.57													
/3	1 10.8 +1.1 11.40 184 4.57													
	<u> </u>				<u>;</u>									
							·				, ,			
One Point P	inal Check	^			.,3		One Point Fina	il Check						
	Field Technician	Q m	ARO	en			Signature of Fi	eld Technician:			par sea c			
Lab Manage	r Approval:	•	4 4				Lab Manager A	pproval:						

a:\date\fm\well\nt.frm WELL SAMPLING FIELD DATA SHEET CITY: TAMPA FL STATE: FL INITIAL FIELD CALIBRATION

pH Meter	No.:		Se	rial No.:			Purge Cal, Buf	ers		4		7		10		Temp	°C
							Sample			4		7		10	·	Temp	°C
Conductiv	vity Meter No.:		Se	rial No.:			Purge			Temp ¹	°C	Table		Meter		Cf ·	,,
							Sample			Temp	•c	Table		Meter		Cf	
Turbidity	Meter No.:		Se:	rial No.:			Purge Cal. Soli	tion ²		0,00		20,0		100		800	·
						<u> </u>	Sample			0.00		20.0		100		800	
DATE:			WELL	INFORMATION	ON					·	CAL	IBRATI π r (V	ON FOR Vater Colum	WELL V	OLUME		
Well No.	Top of Casing Elevation (Feet)	Well Depth (Bottom) (Feet)	Water Level (Feet)	Water Level Elevation (Feet)	Water Cojumn (Feet)	Volume of Water in Casing (Gal.)	Min. Volume to be Purged (Gal.)	ne		2" Well			4" Well			6" W	ell
mw-16		14.46	3.98						r² =		0,0069	r² =		0,0278	r² =		0,0625
							π=		x 3,14	π =		x 3.14	π=		x 3.14		
Well Casi	ng Construction:	PIC							0,220			0.087			0,196		
Well Casi	ng Diameter:	2"					Gal =		x 7.48	Gal=		x 7.48	Gal =		x 7.48		
¹ Orion m	neters are tempe	rature compe	nsated to 2	5°C. Meter sho	uld be set to 1	7		····	0.165			0.653			1.47		
	meters are temp	•						%. -	Water	Column x		 	r Column x		Water	Column	
Also, th	e temperature n	nust be correc	ted manuall	y. Check calibi	ation manual fo	or further deta	ails.	-							 		
	y Meter must be	-	-	-				╟		olumes x 3	5.19		Volumes x 3)	 	lumes x	3
* Field m	easurements mu	ıst stabilize to	within 5% b	efore purging is	complete or 3	volumes, whi	chever is great	∍r.	Min. Vo	olume urged		Min. \ to be	/olume Purged		Min. Vo	lume urged	
DATE:			PURG	E INFORMA	TION				DA	TE:		SAME	LING INF	ORMAT	ION		
Purged Volume (Gal)	Time Purc (Min.)	jed Act Fir Pur	ged Do	Fleid, Temp' (°C)	Field pH³	Field Conductiv (µmhos	ity³ Fle	n iita,	s	Time sampled	Fic Te	eld mp C)	Fleid p	н с	Field onductivi (µmhos)	ty	Field Turbidity* (NTU)
3	30		17.7	72.9	7.15	31	5.8	4		DO							
- 4			7.1	72.3	6.25	48	5.2	5		6.3	72.	. પ	5.90		46		4.56
5			6.3	72-4	5.90	46	4.5	56	6:	50 P 5.9	7+2	, , O	5.86	,	46		4.60
G		·	15.9	72.0	5.86	HG	4.6	6		·							
One Poin	t Final Check			Λ.4	^		On	n Point Fin	al Chec	k							
Signature	of Field Techr	nician: 🔫	Keein	ALL C	Diano			Sia	nature of F	leld Tec	hnician:						
	ger Approval:		4	2117			Manager /										
										,							

USER'S NAME: FB

RCI PROJECT NO. 32040.015

DATE: 2-22-00

COMPANY NAME: GNB FAIR

WELL SAMPLING FIELD DATA SHEET 1-24-00 FB DAMPA DATE: USER'S NAME: CITY: 32040015 COMPANY NAME: RCI PROJECT NO. STATE: INITIAL FIELD CALIBRATION Serial No.: pH Meter No.: Purge Cal. Buffers 10 Temp °C Sample 10 Temp °C Purge Cf · Conductivity Meter No.: Serial No.: Temp¹ °C Table Meter Sample °C Table Cf Temp Meter Purge Cal. Solution² Turbidity Meter No.: Serial No.: 800 0.00 20.0 100 Sample 20.0 800 0.00 100 CALIBRATION FOR WELL VOLUME π Γ (Water Column x 7.481) DATE: WELL INFORMATION Well Depth (Bottom) (Feet) Volume of Water in Casing (Gal.) Min. Volume to be Purged (Gal.) Top of Casing Eleyation (Feet) Water Water Level (Feet) Water Level Elevation (Feet) Well No. Column 2" Well 4" Well 6" Well 4.70 14.76 mw-17 r2 = r2 = r² = 0.0069 0.0278 0,0625 x 3.14 x 3.14 x 3.14 Well Casing Construction: 0.220 0.087 0,196 Well Casing Diameter: Gal = x 7.48 Gal= x 7.48 Gal = x 7.48 Orion meters are temperature compensated to 25°C. Meter should be set to 1408 at 25°C ± 5°C. Cole 0,165 0.653 1.47 Parmer meters are temperature compensated to 25°C. YSI meter must have a correction factor of 1.00 ±0.5%, Water Column x 1.66 Water Column x Water Column x Also, the temperature must be corrected manually. Check calibration manual for further details, Well Volumes x 3 5 0 Well Volumes x 3 Well Volumes x 3 Turbidity Meter must be set according to the lab assigned calibration NTU's values for each standard. Min. Volume to be Purged Field measurements must stabilize to within 5% before purging is complete or 3 volumes, whichever is greater. Min. Volume to be Purged Min. Volume to be Purged 5,0 **PURGE INFORMATION** DATE: DATE: SAMPLING INFORMATION Actual Time Purged DO Field, Temp' (°C) Purged Volume (Gal) Time Purged (Min.) Field Conductivity (µmhos) Field Conductivity^s Field Turbidity* (NTU) Time Sampled Fleid Field Turbidity³ (NTU) Field pH3 Field pH Temp (°C) (µmhos) PO 68.0 .39 4.88 25 - 41 Z 70 5.03 17,9 71.9 25 11.0 9:20A 11.5 .37 33 3 8.3 25 69.9 4.88 25 42.1 4-87 71.9 4 12.9 25 020 4.88 .41 72 25 4.87 £.__ 38 One Point Final Check One Point Final Check Signature of Field Technician: Signature of Fleid Technician:

Lab Manager Approval:

Lab Manager Approval:

g:\data\fm\wellwtr.fr

							WELL SAME	PLING	FIELD DATA	SHEET	•							S IS VIII) W SIW F. III
DATE:	2-24	-00				USER'S NAME:	FB						CITY:	Am	PAB			
COMPANY	NAME: CA	JB FR	2/5	CH BO	12C	RCI PROJECT N	10. 320	240	0.015			·	STATE:		FL			
							INITIAL F	FIEL	D CALIBRA	TION								
pH Meter No	.:			s	erial No.:			Purqe	e Cal. Buffers		4		7		10	-	Temp	·°C
		<u>.</u>						Samp	ole		4		7		10		remp	°C
Conductivity	Meter No.:			S	erial No.:			Purge)		Temp ¹	°C	Table		Meter		<u> </u>	
						·		Samp	ole		Temp	<u>•</u> c	Table		Meter		Of	
Turbidity Met	ter No.:			s	ərial No.:	· · · · · · · · · · · · · · · · · · ·		Purge	Cal, Solution	2	0.00		20.0		100		300	
								Samp	ole		0.00		20.0		100	8	300	
DATE:				WELL	. INFORMA	TION						CAL	IBRATI	ON FOR V	VELL VO	OLUME		<u>-</u>
Top of Well Water Volume of Min. Volume Casing Depth Water Level Water Water in to be															6" Weil			
	11.0017						(540)	10000	r2	·	0.0069	ے عم		0.0278	j ₂		0,0625	
1102 13				LL.					π ==		x 3.14			x 3.14	π=		x 3.14	
Well Casing	Construction:	4	v C									0,220			0,087			0,196
Well Casing I	Diameter:	Ž	11			_				Gal =		x 7.48	Gal=		x 7.48	Gal =		x 7.48
¹ Orion mete	rs are tempe	rature com	pens	ated to	25°C, Meter	should be set to 1	408 at 25°C ±	5°C.	. Cole	23	.21 ×	0.165			0.653			1.47
			•			eter must have a			1.00 ±0.5%.		Column x	3.83	Water	Column x	, , , , , , , , , , , , , , , , , , , ,	Water Co	lumn x	
	•				•	libration manual f					/olumes x 3		Well \	/olumes x 3		Well Volu	mes x 3	
·			_			ibration NTU's va g is complete or 3			- 1		/aluma	7.5	Min. V	/olume Purged		Min. Volu to be Pur	me med	
				DUD	SE INCORE	LATION	'''											
DATE:				T	SE INFORM	ATION					ATE:			LING INF				
Purged Volume (Gal)	Time Purg (Min.)	jed /	ctua Time urge	od 20	Fleid, Temp* (°C)	Field pH³	Fleid Conductiv (µmhos	rity ^s i)	Field Turbidity* (NTU)		Time Sampled	Flo Te	eld mp C)	Field pl	1 0	Field onductivity (µmhos)	Tu	Fleid rbidity* NTU)
9				14.9	79.9	6.62	51		1.32		12.9	<i>j</i> +	4.7	7.10	<u>5</u>	0		.06
10	<u></u>			14.1	77.1	7.05	50	<u> </u>	1.25	3:	407 12.6	7	6.1	7.15	ک ے	<u> </u>	1	. 19
				12.8	77.7	F.10	.50		1.06									
12]	12.6	78.1	7.15	51		1.19	_								
								<u>;</u>		_					_		 	
	1						 		 									
One Point F			Đ			*	<u> </u>		<u> </u>		ne Point Fin					4.	<u></u>	
Signature of		ician:	the	Brier	1	Kleep			71	gnature of F								
Lab Manage	r Approval:		4		. 					La	b Manager /	Approva	d:	,				

															q:\de	havimweliwir.ir
						WELL SAMPL	ING FIELD DATA	SHEET								
DATE;	2-22-0	00		Us	SER'S NAME:	FB					CITY:	TAMP	A_			
COMPAN	NAME: GA	OB FAIL	<u> </u>	R	CI PROJECT N	0. 320C	10.015			<u> </u>	STATE:	FL				
						INITIAL FI	ELD CALIBRA	TION								
pH Meter !	No.:		Se	rial No.:		Pt	ırge Cal. Buffers		4			10		Т	emp	°C
						Sa	ample		4		7	10		Т	emp	<u>∘c</u>
Conductivi	y Meter No.:		Se	rial No.:		Pt Pt	ırge		Temp ¹	°C _	Table	Met	er	c	<u>f </u>	
						St	ample		Temp	<u>°C</u>	Table	Met	er		<u>f</u>	
Turbidity M	eter No.:		Se	rial No.:		Pt Pt	irge Cal. Solution	2 	0.00		20.0	100		8	00	
						Sa	ımple		0.00		20,0	. 100		. 8	00	
DATE:			WELL	INFORMATI	ON					CALI	BRATIC	ON FOR WE	LL V 7.481	OLUME		
Well No.	Top of Casing Elevation (Feet)	Well Depth (Bottom) (Feet)	Water Level (Feet)	Water Level Elevation (Feet)	Water Column (Feet)		2" Well			4" Well			6" Weil			
mw-19	1.55,7	49.41	19.36		1.33.7	Casing (Gal.)	Purged (Gal.)	r² =		0,0069	r² =	<u> </u>	0278	r² ==		0.0625
	'							π =		x 3.14	π =		3.14	π=		x 3.14
Well Casin	g Construction:	ρ_{V}	/c							0,220		(0.087			0,196
Well Casin	g Diameter:	2	i •					Gal =		x 7.48	Gal=	×	7.48	Gal =		x 7.48
¹ Orion me	ters are tempe	rature compe	nsated to 2	5°C. Meter sho	ould be set to 1	108 at 25°C ± 5	S°C. Cole			0,165		(0.653			1.47
	•	•		25°C. YSI mete				Water	Column x		Water	Column x		Water Co	umn x	
	· · · · · · · · · · · · · · · · · · ·			ly. Check calib assigned calibr				Well \	/olumes x 3	: 15.0	Well V	olumes x 3		Well Volu	mes x 3	
							never is greater.	Min. \	/olume Purged	15.0	Min. V	olume Purged		Min. Volum to be Pur	me red	
DATE:			PURG	E INFORMA	TION				ATE:			LING INFOF	DAAAT		100	
	Ti D				1101	Field	F-1-1				Ī	Litta ini or	T		T	7.1.4
Purged Volume (Gal)	Time Purg (Min.)	Fur	ual me ged	Field, Temp ³ (°C)	Field pH³	Field Conductivit (µmhos)	y ³ Turblaity ³ (NTU)		Time Sampled	Fle Tel (°	iip S)	Field pH	C	Fleid onductivity (µmhos)	Tur ()	Teld bldity* VTU)
9	6 0		13.4	84.7	7.56	506	2.70		12.0	81	, 2_	7.24		47	1.	-63
11			15.3	84.0	7.38	49	1.86	3:	507 13.4	82	.0	7.30		47	1_1	.19
13	<u> </u>		12.0	81.2	7.24	1.63						4-		-		
i5	<u> </u>	3:50	7113 4	82.0	7.30	47	1.19	- -					 : -			
							:						-		 	
One Point	Final Check	I							ne Point Fin	al Charl					1	
		Jolon: 1		100	0										ar es.	
	of Field Techn ger Approval:	iician:		45 Aze	X V				gnature of F b Manager				,			
-an Malla	101 WALLOAU!							~ manayel /	Phina	•						

a:\data\/fm\wellwtr.frm WELL SAMPLING FIELD DATA SHEET 2-21-00 FB TAMB A DATE: USER'S NAME: CITY: COMPANY NAME: GN B 32040.015 FL RCI PROJECT NO. STATE: INITIAL FIELD CALIBRATION Serial No.: pH Meter No.: Purge Cal. Buffers 10 Temp ٥C ٥C Sample 10 Temp Conductivity Meter No.: Serial No.: Purge Temp1 °C Table Meter Cf ' Sample Temp °C Meter Cf Table Turbidity Meter No.: Serial No.: Purge Cal. Solution² 20.0 0.00 100 800 Sample 0.00 20.0 100 800 CALIBRATION FOR WELL VOLUME π r' (Water Column x 7.481) 2-21-00 DATE WELL INFORMATION Volume of Water In Casing (Gal.) Min. Volume to be Purged (Gal.) Top of Casing Elevation (Feet) Water Level Elevation (Feet) Well Depth (Bottom) (Feet) Water Level (Feet) Water Column (Feet) Well No. 2" Well 4" Well 6" Well 3. € 5 14.40 Mw-Zo r² == 0.0069 0.0278 0.0625 π= x 3.14 x 3.14 x 3.14 PVC Well Casing Construction: 0.220 0.087 0,196 7 ... 1-7-4 Well Casing Diameter. Gal = x 7.48 Gal= x 7.48 Gal = x 7.48 Orion meters are temperature compensated to 25°C. Meter should be set to 1408 at 25°C ± 5°C. Cole 0.165 0.653 1.47 Parmer meters are temperature compensated to 25°C. YSI meter must have a correction factor of 1.00 ±0.5%, Water Column x 1.77 Water Column x Water Column x Also, the temperature must be corrected manually. Check calibration manual for further details. Well Volumes x 3 5, 3 2 Well Volumes x 3 Well Volumes x 3 Turbidity Meter must be set according to the lab assigned calibration NTU's values for each standard. Min. Volume to be Purged Min. Volume to be Purged Min. Volume to be Purged Field measurements must stabilize to within 5% before purging is complete or 3 volumes, whichever is greater, 5.32 DATE: PURGE INFORMATION SAMPLING INFORMATION DATE: Time Purged (Min.) Actual Time Fleid, Temp' Fleid Conductivity³ Time Sampled Field Conductivity (µmhos) Purged Volume (Gal) Eleid Field pH3 Fleid pH (°C) Purged DO (umhos) 5.80 3 495 25 7 34 74.5 5.3 オルタ 5.64 516 3.64 5:35P3.5 70.2 3.52 4.42 496 4 T 2.4 5.71 5.60 512 5 5.64 5.3 3.64 496 3.5 5.60 3.52 70 Z One Point Final Check One Point Final Check Signature of Fleid Technician: Signature of Field Technician:

Lab Manager Approval:

							···							·			da ta'yim'wellwir. fri
						WELL SAM	IPLING	FIELD DATA	SHEE	<u> </u>							
DATE:	2-21-	-00		1	JSER'S NAME:	FA	3 ,					CITY:	TAN	IPA			. ,
COMPANY N	NAME:	D +	in, a	2NB F	RCI PROJECT N	o. 32	20L	10.015	_		· .	STATE:	FL				
								D CALIBRA									!
pH Meter No	.:			Serial No.:			Purge	Cal. Buffers		4 4.1	5	7 E.	97 1	0 9.0	74	Temp	°C
·							Samp			4.		7		0		Temp	
Conductivity	Meter No.:			Serial No.:			Purge	4.)		Temp ¹	°C	Table		eter		Cf ·	
				····			Samp	le		Temp	<u>•c</u>	Table	N	eter		Cf	
Turbidity Met	er No.:		s	Serial No.:			Purge	Cal. Solution ²		0.00		20.0		00		800	
							Samp	le		0.00		20.0	. 10	00		800	
DATE:	2-21	-00	WEL	L INFORMAT	ION				-		CAL	IBRATIO	N FOR W	ELL VO	PLUME		
Well I	Top of Casing Eleyation (Feet)	Well Depth (Bottom) (Feet)	Water Level (Feet)	Water Level Elevation (Feet)	Water Cojumn (Feet)	Volume o Water In Casing (Gal.)	lin. Volume to be Purged (Gal.)		2" Wel	l		4" Well			6" Well		
mw21		14.82	5.43					r ² =		0.0069) r² =		0.0278	r² =		0.0625	
				*				π=		x 3.14			x 3.14	π=		x 3.14	
Well Casing (Construction:	ρ	VC								0,220			0,087			0,196
Well Casing [Diameter:		2"					-	Gal =		x 7.48	Gal=		x 7.48	Gal =		x 7.48
Orion mete	rs are tempe	rature comp	ensated to	25°C. Meter sh	nould be set to 14	408 at 25°C	± 5°C.	Cole			0.165	;	,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	0.653			1.47
					ter must have a d			1.00 ±0.5%.	Water	Column 3	1.54	Water (Column x		Water C	Column x	
	-			•	bration manual for pration NTU's val			and	Well \	/olumes x	34.64	Well Vo	olumes x 3		Well Voi	lumes x 3	
			-	_	is complete or 3			11		/aluma		Min. Vo	lume.		Min. Vol	ume,	
	<u> </u>								to be	Purgea	4.64					ırgea	
DATE:			PUR	GE INFORMA	TION			 		ATE:	-1	SAMPL	ING INFO	ORMAT	<u>ION</u>		
Purged Volume (Gal)	Time Purge (Min.)	ed Ac T D D Pu	tual Ime Irged	Field, Temps (°C)	Field pH³	Fleid Conducti (µmho	ivity³ (s)	Fleld Turbidity ³ (NTU)		Time Sampled Do	T9	eld emp °C)	Fleld pH	Co	Field onductivit (µmhos)	y Tu	Field irbidity' (NTU)
2.0	20		30 A	83.3	5.30	79,	90.	18.9	_ _	23.	3 7	8.6	4.90	2 :	7650	,	1.82
4.0	37/	11:4		78.7	3.05	199		9.63	12	45 23	8 79	8.8	4.85		x180		1.jo
6.0		13/2:		78.6	4.90	765		1.82		25.	5						
8. U	123	1.8 12	95	78.8	4.85	.18	<u>U</u>	1.10	-∦		_						
	<u> </u>	<u> </u>							∦			 -					
																_	
One Point Fi				क्रिन्ट	-0.	<u> </u>				ne Point F					4.1		
Signature of		Iclan:	<u>pour ce</u>	+ a 47/7	>xc	<u> </u>				gnature of							
Lab Manager	r Approval:								عل_الـــ	b Manage	r Approva	al:					

						WELL SAME	PLING	FIELD DATA	SHEET								
DATE:	2-23-0	ပ်			JSER'S NAME:	FB						CITY:	THE	MPA			
COMPANY	المر-ي NAME: C	B FAIR	EN RUB	<u>. </u>	RCI PROJECT N	0. 320	<u> </u>	2.015	- <u></u>			STATE:	F	<u></u>			
						INITIAL I	FIELD	CALIBRA	TION								
pH Meter No	∴ .		Se	rial No.:			Purge	Cal. Buffers		4		7		10		Гетр	•€
							Samp	le		4		7		10		Temp	<u>°C</u>
Conductivity	Meter No.:		Se	rial No.:			Purge	· · · · · · · · · · · · · · · · · · ·		Temp ¹	<u>°C</u>	Table		Meter		Cf	
		 			· · · · · · · · · · · · · · · · · · ·		Samp			Temp	<u>c</u>	Table		Meter		Cf	
Turbidity Met	ter No.:		Se	rial No.:				Cal. Solution ²	!	0.00	<u>-</u>	20,0		100		800	·
							Samp	le		0,00		20,0		100		300	
DATE:			WELL	INFORMAT	ION						CAL	IBRATI	ON FOR	WELL V	PLUME		
Well I	Top of Casing Depth (Bottom) Casing (Feet) Water Level (Feet) Water Column (Feet) (Fee																
mw-2z		14.76						r² _		0.0069	ے م		0.0278	ے 2		0.0625	
(C.u.)			(DRY))				π=		x 3.14			x 3.14	π=		x 3.14	
Well Casing	Construction:										0,220			0.087			0,196
Weil Casing I	Diameter:								Gal =		x 7.48	Gal=		x 7.48	Gal =		x 7.48
¹ Orion mete	ers are temper	rature comp	ensated to 2	5°C. Metersl	nould be set to 1	408 at 25°C ±	£ 5°C.	Cole			0,165			0.653			1.47
	•		•		ter must have a			1.00 ±0.5%.	Water	Column x		Water	Column x		Water Co	olumn x	
	•			•	bration manual foration NTU's val			ami	Well \	/olumes x 3		Well \	/olumes x 3	3	Well Volu	ımes x 3	·
•			-	-	is complete or 3			11	Min. V	olume Purged		Min. V	olume Purged		Min. Volu	ime	
DATE:			PURC	E INFORM	ATION				7				LING IN	ODMAT		900	
9	Time Pure	- A			ATION	Fold		Field		ATE:			LING IN			- 	
Purged Volume (Gal)	Time Purge (Min.)	Pi	tual Ime irged	Field, Temp* (°C)	Field pH ³	Field Conductive (µmhos	(itys	Field Turbidity ³ (NTU)	- :	Time Sampled	Γ'e (*	eld mp C)	Field p	н с	Field enductivity (µmhos)	Tu	Field roldity NTU)
	DRY	A.															
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	l	1							-	_							
One Point Fi	• •		<u> </u>	(D)		<u></u>				ne Point Fin							
	Field Techni	Ician:	Mon (cy)	SH-TO	erpe					gnature of F						· · · · · · · · · · · · · · · · · · ·	
Lab Manage	r Approval:								_ La	b Manager	Approva	N:					

WELL SAMPLING FIELD DATA SHEET 3-21-00 DATE: USER'S NAME: I. J. BOHORQUEZ CITY: TAMPA FL COMPANY NAME: D= IM RCI PROJECT NO. STATE: INITIAL FIELD CALIBRATION 4.01 pH Meter No .: Serial No.: 7 7.05 10 10.06 Temp °C Purge Cal. Buffers Sample 7 10 Temp ٥C Purge Cf ' Conductivity Meter No.: Serial No.: Temp1 °C Table Meter Cf Sample Temp °C Table Meter Serial No.: Purge Cal. Solution² Turbidity Meter No.: 0.00 20.0 100 800 Sample 20.0 800 0.00 100 CALIBRATION FOR WELL VOLUME
π r (Water Column x 7.481) DATE: WELL INFORMATION Min. Volume to be Purged (Gal.) Well Depth (Bottom) (Feet) Volume of Water in Casing (Gal.) Top of Casing Elevation (Feet) Water Level Water Level (Feet) Water Column (Feet) Elevation (Feet) Well No. 2" Well 4" Well 6" Well 23 51.26 18.70 r2 = r² == 0.0278 r2 = 0.0069 0.0625 x 3.14 x 3.14 x 3.14 PVC Well Casing Construction: 0.220 0.087 0,196 2" Well Casing Diameter: Gal = Gal = x 7.48 Gal⇒ x 7.48 x 7.48 Orion meters are temperature compensated to 25°C. Meter should be set to 1408 at 25°C ± 5°C. Cole 0.165 0.653 1.47 Parmer meters are temperature compensated to 25°C. YSI meter must have a correction factor of 1.00 ±0.5%. Water Column x Water Column x Water Column x Also, the temperature must be corrected manually. Check calibration manual for further details. Well Volumes x 3 /6.12 Well Volumes x 3 Well Volumes x 3 Turbidity Meter must be set according to the lab assigned calibration NTU's values for each standard. Min. Volume to be Purged 16.12 Min. Volume to be Purged Min. Volume to be Purged Field measurements must stabilize to within 5% before purging is complete or 3 volumes, whichever is greater. **PURGE INFORMATION SAMPLING INFORMATION** DATE: DATE: Actual Time Purged DO Purged Volume (Gal) Fleid, Temps (°C) Field Conductivity^s (µmhos) Field Conductivity (µmhos) Time Purged (Min.) Fleid Temp (°C) Field Turbldity* (NTU) Field Turbidity* Time Sampled Field pH3 Fleid pH 86.9 9:40 A 8.93 1235 1 3 86-7 8.96 11,95 18.5 8.85 15.0 86.3 16.5 \$5.7 3.75 HRS 1:32P178 8.46 1157 One Point Final Check One Point Final Check Signature of Field Technician: Signature of Field Technician:

Lab Manager Approval:

WELL SAMPLING FIELD DATA SHEET 7-27-00 TAMPA USER'S NAME: DATE: CITY: COMPANY NAME: GWB TOWNER FAIK. FL 32040.015 RCI PROJECT NO. STATE: INITIAL FIELD CALIBRATION 4.04 pH Meter No .: Serial No.: 7.04 10.01 Purge Cal. Buffers 10 Temp ·°C Temp °C Sample 10 Cf · Conductivity Meter No.: Serial No.: Purge Temp1 °C Table Meter Sample °C Table Meter Cf Temp Serial No.: Purge Cal. Solution² Turbidity Meter No.: 0.00 20.0 100 800 Sample 20.0 100 800 0.00 CALIBRATION FOR WELL VOLUME π r (Water Column x 7.481) **WELL INFORMATION** DATE: Top of Casing Eleyation (Feet) Well Depth (Bottom) (Feet) Water Level Elevation (Feet) Volume of Water in Casing (Gal.) Min. Volume to be Purged (Gal.) Water Level (Feet) Water Well No. 6" Well Column (Feet) 2" Well 4" Well 76.49 20.38 Pmw-24 r² = 0.0069 r² = 0.0278 r² = 0.0625 x 3.14 π == x 3.14 x 3.14 $\pi =$ PVC Well Casing Construction: 0.220 0,087 0.196 211 Well Casing Diameter. Gal = Gal= Gal = x 7.48 x 7.48 x7.48Orion meters are temperature compensated to 25°C. Meter should be set to 1408 at 25°C ± 5°C. Cole 0,165 0.653 1.47 Panner meters are temperature compensated to 25°C. YSI meter must have a correction factor of 1.00 ±0.5%. 9.6 Water Column x Water Column x Water Column x Also, the temperature must be corrected manually. Check calibration manual for further details. Well Volumes x 3 28.8 Well Volumes x 3 Well Volumes x 3 Turbidity Meter must be set according to the lab assigned calibration NTU's values for each standard. Min. Volume to be Purged Min. Volume to be Purged Min. Volume to be Purged Field measurements must stabilize to within 5% before purging is complete or 3 volumes, whichever is greater. 28.8 DATE: **PURGE INFORMATION** SAMPLING INFORMATION DATE: Purged Volume (Gal) Time Purged (Min.) Actual Time Field, Temp's (°C) Fleid Conductivity³ (µmhos) Field Turbidity* (NTU) Field Temp (°C) Fleid Conductivity (µmhos) Field Turbidity* Time Sampled Field pH3 Ha bleff Purged 00 ĎΟ 88.2 8:49 5.31 7.75 96 40 7.1.0 1/8 11.8 78.6 3.54 16.2 48.2 84.6 4:17 3:100 ጉ.ያ 2 94 3.46 6.66 101 7.75 118 78.6 3.5 Y 96 3.46 78.2 7.82 94 3:10P One Point Final Check One Point Final Check Signature of Field Technician: Signature of Fleid Technician:

Lab Manager Approval:

g:\data\/m\wellwtr.frm

DATE: 2-13-00						USER'S NAME: FB						CITY: TAMPA						
COMPANY NAME: CNB FAIK. RCI PROJECT NO. 3						20	14.015				STATE: FL							
							INITIAL	FIELD	CALIBRA	TION								
pH Meter No.: Serial No.:							Purge Cal. Buffers			4		7	10			Temp	•c	
Sample								le	4			7	10			Temp	•c	
Conductivity Meter No.: Serial No.: Purge								Temp¹ °C			Table Meter		leter		Cf	7		
						Sample			Temp	<u>•</u> c	Table	N	Meter		Cf			
Turbidity Meter No.: Serial No.:						Purge Cal, Solution ²			0.00		20.0	100			800			
								Samp	le		0.00		20.0 100 800					
DATE: WELL INFORMATION								CALIBRATION FOR WELL VOLUME π r' (Water Column x 7.481)										
Well I	Top of Casing Eleyation (Feet)	W De (Bol	rell pth tom) set)	Water Level (Feet)	Water Level Eleyation (Feet)	Water Column (Feet)	Volume o Water in Casing (Gal.)	of M	lin. Volume to be Purged (Gal.)	2" Well			4" Well			6" Well		
mw-3		13.	26	5.06						r² ==		0,0069	r ² =		0.0278	r² ==		0.0625
(c.u.)										π=		x 3.14	π=		x 3.14	π=		x 3,14
Well Casing (Well Casing Construction: PVC											0,220	<u> </u>		0.087			0,196
Well Casing I	Diameter:		. "							Gal =		x 7.48	Gal=		x 7.48	Gal =		x 7.48
¹ Orion meters are temperature compensated to 25°C. Meter should be set to 1408 at 25°C ± 5°C. Cole										0,165			0.653			1.47		
Parmer meters are temperature compensated to 25°C. YSI meter must have a correction factor of 1.00 ±0.5%.								Water Column x 1.35			Water Column x			Water Column x				
Also, the temperature must be corrected manually. Check calibration manual for further details. Turbidity Meter must be set according to the lab assigned calibration NTU's values for each standard.								Well Volumes x 3 4.05			Well Volumes x 3			Well Vo	Well Volumes x 3			
full littly where in that the set according to the lab assigned calibration 1410's values for each standard.								Min. \ to be	Min. Volume to be Purged Min. Volume to be Purged Min.			Min. Vo	lin. Volume be Purged					
DATE: PURGE INFORMATION								DATE: SAMPLING INFORMATION										
Purged Volume (Gal)	Time Purg (Min.)	jed	Actu Tin Purg	ral ne ged _{Do}	Field, Temp' (°C)	Fleid pH³	Field Conductive (µmhos	vity³ s)	Field Turbidity* (NTU)		Time Sampled	Fie Tei (°	old mp C)	Fleid pH	c	Field onductivi (µmhos)	ty T	Field urbidity* (NTU)
2	20			11.5	75.8	5.78	30		3.5		5.6	745	. . 5	2F.Z		27		1.03
3				10.0	75,7	5.76	27		1.14	12	11/6.1	£	5.4	5. 73	<u> </u>	25		.62
4				5.6	75.5	5.75	2.5		1.03	_ _								
5				6.1	75.4	5.43	25		.62	_								
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One Point Final Check									One Point Final Check									
	Signature of Field Technician: Traces & Learn								11	Signature of Field Technician:								
Lab Manager Approval:								_La	Lab Manager Approval:									

WELL SAMPLING FIELD DATA SHEET

2-13-00

WELL SAMPLING FIELD DATA SHEET 2-23-60 DATE: USER'S NAME: KB. CITY: TAMPA COMPANY NAME: GNB FAIK. 32040-015 RCI PROJECT NO. STATE: INITIAL FIELD CALIBRATION 6.97 Temp 80.3 °C 4.04 10.09 Serial No.: pH Meter No.: Purge Cal. Buffers 7 Temp Sample 10 °C Conductivity Meter No.: Serial No.: Purge Cf : Temp1 °C Table Meter Meter Cf Sample °C Table Temp Serial No.: Purge Cal. Solution² Turbidity Meter No.: 0.00 20.0 100 800 Sample 0.00 20.0 100 800 CALIBRATION FOR WELL VOLUME π r (Water Column x 7.481) **WELL INFORMATION** DATE: Volume of Water In Casing (Gal.) Min. Volume to be Purged (Gal.) Top of Casing Elevation (Feet) Well Depth (Bottom) (Feet) Water Water Elevation (Feet) 4" Well 6" Well Well No. Leve Feet Column (Feet) 2" Well 4.95 12.66 **س نن ۱۸۸** r2 == 0,0069 r² <u>-</u>= 0.0278 r2 = 0.0625 (Cu.) x 3.14 x 3.14 x 3.14 Weil Casing Construction: PVC 0.220 0.087 0.196 Well Casing Diameter: Gal = x 7.48 Gal= x 7.48 Gal = x 7.48 Orion meters are temperature compensated to 25°C. Meter should be set to 1408 at 25°C ± 5°C. Cole 0.653 0.165 1.47 Parmer meters are temperature compensated to 25°C. YSI meter must have a correction factor of 1.00 ±0.5%. 1.27 Water Column x Water Column x Water Column x Also, the temperature must be corrected manually. Check calibration manual for further details, Well Volumes x 3 3.8/ Well Volumes x 3 Well Volumes x 3 Turbidity Meter must be set according to the lab assigned calibration NTU's values for each standard. Min. Volume to be Purged Min. Volume to be Purged Min. Volume to be Purged Field measurements must stabilize to within 5% before purging is complete or 3 volumes, whichever is greater. 3.81 **PURGE INFORMATION** SAMPLING INFORMATION DATE: DATE: Purged Volume (Gal) Actual Time Purged o G Field Conductivity* (µmhos) Field Temp (°C) Field Conductivity (µmhos) Time Purged Fleid, Temp' Field Turbidity* (NTU) Time Sampled Field pH3 Fleld pH 76 80.6 6.15 2 20 297 80.1 6.22 71 30.0 27.4 30.8 76.6 3 6.22 71 6.22 69 80.1 30.0 (1:35 129.7 11:35 76.6 6. 22 69 30.8 PORCITO DRY TWICE 5 One Point Final Check One Point Final Check

Signature of Field Technician:

Lab Manager Approval:

Signature of Field Technician:

WELL SAMPLING FIELD DATA SHEET 2-28-00 FB USER'S NAME: CITY: NAMAT COMPANY NAME: CNB FAIKONBURE 32040,015 RCI PROJECT NO. STATE: INITIAL FIELD CALIBRATION pH Meter No.: Serial No.: Purge Cal. Buffers 7 Temp °C 10 Temp °C Sample 10 Purae Temp1 °C Table Meter Cf : Conductivity Meter No.: Serial No.: Meter Sample °C Cf Temp Table Purge Cal. Solution² Turbidity Meter No.: Serial No.: 0.00 20.0 100 800 Sample 0.00 20.0 100 800 CALIBRATION FOR WELL VOLUME π r (Water Column x 7.481) DATE: WELL INFORMATION Well Depth (Bottom) (Feet) Volume of Water in Casing (Gal.) Min, Volume to be Purged (Gal.) Top of Casing Elevation (Feet) Water Level Elevation (Feet) Water Column (Feet) Water Level (Feet) Well No. 2" Well 4" Well 6" Well FRID r2 = r2 = r2 = 0.0069 0.0278 0.0625 x 3.14 x 3,14 x 3.14 Well Casing Construction: 0.220 0.087 0,196 Well Casing Diameter. Gal = Gal= Gal = x 7.48 x 7.48 x 7.48 Orion meters are temperature compensated to 25°C. Meter should be set to 1408 at 25°C ± 5°C. Cole 0.165 0.653 1,47 Parmer meters are temperature compensated to 25°C. YSI meter must have a correction factor of 1.00 ±0.5%. Water Column x Water Column x Water Column x Also, the temperature must be corrected manually. Check calibration manual for further details. Well Volumes x 3 Well Volumes x 3 Well Volumes x 3 Turbidity Meter must be set according to the lab assigned calibration NTU's values for each standard. Min. Volume to be Purged Min. Volume to be Purged Min. Volume to be Purged Field measurements must stabilize to within 5% before purging is complete or 3 volumes, whichever is greater. **SAMPLING INFORMATION PURGE INFORMATION** DATE: DATE: Time Sampled Time Purged (Min.) Actual Time Purged Do Fleld, Temp Field Conductivity³ Field Conductivity (µmhos) Purged Volume (Gal) Field Turbidity¹ (NTU) Fleld Temp (°C) Field Turbidity³ (NTU) Fleld pH3 Field pH (µmhos) 78.2 7.36 3.54 15 7.48 5 4.85 76.4 54 76. 56 27.7 7.39 3.49 7 7. 41 4.01 23.0 ~ U 76.4 7.36 3. SY 54 22.9 3.49 23.0 7 39 76.2 54 One Point Final Check One Point Final Check Signature of Fleid Technician: Signature of Fleid Technician:

Lab Manager Approval:

a:\date\im\wellwtr.frm WELL SAMPLING FIELD DATA SHEET TAMPA 2-28-00 USER'S NAME: EB CITY: DATE: COMPANY NAME: GNB TOWNER FOREWILL RCI PROJECT NO. 32040.015 STATE: INITIAL FIELD CALIBRATION pH Meter No.: Serial No.: 7 °C Purge Cal. Buffers 10 Temp 7 10 °C Sample Temp Purge Cf: Conductivity Meter No.: Serial No.: Temp1 °C Table Meter Temp °C Cf Sample Table Meter Turbidity Meter No.: Serial No.: Purge Cal, Solution² 0.00 20.0 100 800 Sample 0.00 20.0 100 800 CALIBRATION FOR WELL VOLUME π r (Water Column x 7.481) DATE: WELL INFORMATION Well Depth (Bottom) Min. Volume to be Purged (Gal.) Top of Casing Elevation Water Level Elevation (Feet) Volume of Water in Water Level (Feet) Water Well No. Column (Feet) 2" Well 4" Well 6" Well Casing (Gal.) (Feet) 23.12 > 100 r² = r² = 0.0069 0.0278 0.0625 x 3.14 x 3.14 x 3.14 $\pi =$ $\pi =$ Well Casing Construction: 0.220 0.087 0.196 Well Casing Diameter. Gal = Gal= Gal = x7.48x7.48x7.48Orion meters are temperature compensated to 25°C. Meter should be set to 1408 at 25°C ± 5°C. Cole 0.165 0.653 1.47 Parmer meters are temperature compensated to 25°C. YSI meter must have a correction factor of 1.00 ±0.5%, Water Column x Water Column x Water Column x Also, the temperature must be corrected manually. Check calibration manual for further details. Well Volumes x 3 Well Volumes x 3 Well Volumes x 3 Turbidity Meter must be set according to the lab assigned calibration NTU's values for each standard. Min. Volume to be Purged Min. Volume to be Purged Min. Volume to be Purged Field measurements must stabilize to within 5% before purging is complete or 3 volumes, whichever is greater. DATE: PURGE INFORMATION SAMPLING INFORMATION DATE: Purged Volume (Gal) Time Purged (Min.) Actual Time Purged DO Field, Temp Field Conductivity (µmhos) Field Conductivity³ Field Turbidity* (NTU) Field Temp Field Turbidity³ (NTU) Time Sampled Field pH3 Field pH (µmhos) 60 78.65 10 7.37 4.21 88.9 404 86.7 412 3.08 87 70 399 4.12 86.1 73.S4 408 12:15/18 3.02 7.8.65 86.7 412 3.08 861 78.54 408 3.02 118 One Point Final Check One Point Final Check Signature of Field Technician:

Signature of Field Technician:

Lab Manager Approval:

vonce

APPENDIX E

WASTE DISPOSAL MANIFEST

# Plea (For	ise print or type m designed for use on ellie (12-pitch) typewriter.)											
	NON-HAZARDOUS WASTE MANIFEST	1. Generator's US		Manifest Document No.	2. Page 1 of 1							
A	WASTE MANIFEST F.L.D.O.O.O.6.O.8.O.8.3 · D. J.											
	5. Transporter 1 Company Name FREEHOLD CARTAGE, INC.	A. Transporter's Phone (941) 533–4599										
	7. Transporter 2 Company Name	B. Transporter's Phone										
	9. Designated Facility Name and Site Address	C. Facility's Phone										
	Jamson Environmental, Inc. 11817 Elyssa Road Thonotosassa, FL 33592	(813)891-0440										
	11. Waste Shipping Name and Description				12. No	Containers Type	13. Total Quantity	14. Unit Wt/Vol				
	o.Non-RCRA Regulated Materia	1			CX)3 _{D·M}	100165	G				
GENER	b Non-RCRA Regulated Materia	1			C)	15 D.M	1.7.5.00	P				
R A T O R	c.							-				
	d.			-								
	D. Additional Descriptions for Materials Listed About 11a. IDW Water #E1135IW02 11b. IDW Soil and Drilling Mater #E1135IW02	Codes for W	des for Wastes Listed Above									
	15. Special Handling Instructions and Additional Information Emergency Contact: Will Horn (813)891-0440 SITE: Former GNB, 200 S. Falkenburg Rd., Tampa, FL WO#002910											
	16. GENERATOR'S CERTIFICATION: I certify the materials described above on this manifest are not subject to federal regulations for reporting proper disposal of Hazardous Waster Printed/Typed Name #### Supplied Signature Month Day Year											
T	17. Rovee Creater III	Materials		13. (2	No. 13	E Ber	2.3 3.1	126-				
TRANSPORTER	Printed/Typed Name AM ES 13	.Sm12	Signature	- P	1 2/2		Month Day	Year				
RT	18. Transporter 2 Acknowledgement of Receipt of Printed/Typed Name	Materials	Signature	The second secon			Month Day	Year				
Ř	19. Discrepancy Indication Space							1				
FACI												
20. Facility Owner or Operator: Certification of receipt of waste materials covered by this manifest except as noted in Item 19.												
Y	Printed Typed Name S HAAF		Signature	, 19	1/1/		Month Day	Year OO				
	nted by J. J. KELLER & ASSOCIATES, INC. anah, WI 54957-0368	ORIGINAL	- REFURN TO GE	ENERATOR	7		12.8	C _M 5				