Remedial Action Status Report

McNatt's Cleaners
5297 Ehrlich Road
Tampa, Hillsborough County, Florida
ERIC_4752
Task DC017N

Florida Department of Environmental Protection

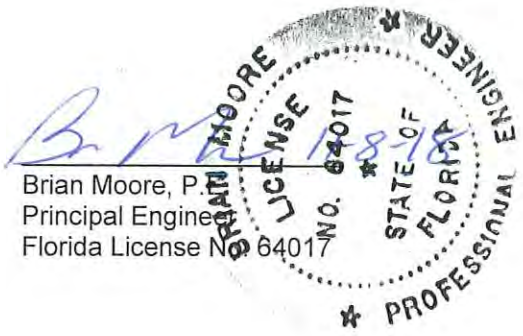
GHD | Hampton Oaks Business Park 5904 Hampton Oaks Parkway Tampa Florida 33610
09113 | Report No 11 | November 08 2018

PROFESSIONAL ENGINEER CERTIFICATION

Remedial Action Status Report for:

McNatt's Cleaners
5297 Ehrlich Road
Tampa, Florida
FDEP Facility ID: 29-9502136

In accordance with Chapter 471, Florida Statutes, and Chapter 62-780 Florida Administrative Code, I hereby certify that, to the best of my knowledge, all engineering plans, specifications, and calculations included herein are in accordance with standard and appropriate engineering practices.



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1. General Information

GHD Services Inc. (GHD) was retained by the Florida Department of Environmental Protection (FDEP) to operate a remediation system designed to recover volatile organic halocarbons (VOHs) identified in the vadose zone at the McNatt's Cleaners facility located at 5297 Ehrlich Road, Tampa, Hillsborough County, Florida (**Figure 1**). The subject facility is an active drycleaner that currently utilizes petroleum-based drycleaning solvent. A site plan is provided as **Figure 2**.

GHD conducted Contamination Assessment (CA) activities at the McNatt's site and submitted a Contamination Assessment Report (CAR) to the FDEP, dated December 17, 1999. The CAR was subsequently approved. The CA activities identified significant soil and groundwater impacts within the limits of the detention pond located adjacent and west of the McNatt's facility. In order to address the impacted soil in the detention pond, GHD prepared and submitted an Interim Source Removal Plan (ISRP) on July 7, 2000. The ISRP proposed dewatering and excavation within the limits of the detention pond and west of the McNatt's facility. Interim Source Removal (ISR) activities were conducted in January and February 2001, and an ISR Report was submitted to the Department on April 17, 2001. A Remedial Alternatives Evaluation (RAE) was submitted in August 2001 and a Revised RAE was submitted in February 2002. The Revised RAE addressed remaining soil and groundwater impacts following ISR activities.

Although Multi-phase Extraction (MPE) was initially recommended as a remedial approach, the use of a phased remedial approach was selected. The initial step in the phased remedial process was the design and implementation of Soil Vapor Extraction (SVE) to remediate shallow soils. A Limited Remedial Action Plan (LRAP) was prepared and submitted to FDEP and approved in January 2004. The SVE treatment system was installed and operations were initiated in December 2004.

As mentioned above, a phased remedial approach was selected for the McNatt's site. Following initial SVE operations and completion of additional assessment in the vicinity of monitoring well MW025, a LRAP for groundwater remediation was prepared in September 2007. The LRAP for groundwater remediation was approved in July 2008. As recommended in the LRAP, injections of biostimulation materials (SRS®) took place between October 27 and December 17, 2009.

In February 2014, GHD prepared a Remedial Action Plan Modification (RAP Mod), which proposed the installation of an additional SVE well and completion of additional bioremediation injections. The RAP Mod proposed the installation of an SVE lateral north of the facility near the retention pond and additional injections of SRS®.

Implementation of the remedial system modifications was conducted in three stages; 1) construction of an additional soil vacuum extraction (SVE) lateral with connection to the existing remedial system, 2) installation of interior and exterior injection wells and 3) injection of biostimulant amendments and cultured bacteria for bioaugmentation. The remedial system modifications and implementation was reported in the September 1, 2017 Injection Summary and Performance Monitoring Report, along with the June 2017 groundwater monitoring event.

Semi-annual summary reports and Annual Remedial Action Status Reports (RASR) have been submitted to the Department that detail SVE system operations and performance. Annual groundwater monitoring is being conducted in accordance with the approved RAPM. A Groundwater Monitoring Report was submitted in August 2018 detailing the June 2018 sampling event, with the results summarized below. This RASR describes the performance of the SVE system from October 2017 through September 2018.

2. Groundwater Monitoring Summary

GHD conducted groundwater monitoring at the site in accordance with the approved RAPM on June 20, 2018. The most recent groundwater sampling was conducted fifteen months after the completion of the biostimulant injections and was reported in the August 2018 Groundwater Monitoring Report.

Depth-to-water measurements and groundwater elevations are summarized in **Table 1** of **Appendix A**. Groundwater elevation contours for the upper shallow, lower shallow, and deep zones from the June 2018 sampling event are shown on **Figures 3, 4,** and **5**, respectively. The groundwater field parameters are summarized in **Table 2** and a summary of groundwater analytical results is included in **Table 3** of **Appendix A**. The upper shallow, lower shallow, and deep zone analytical results are depicted in **Figures 6, 7,** and **8**, respectively.

2.1 McNatt's Cleaners Facility Area (Primary Area)

The analytical results exhibited within the upper shallow zone during the most recent sampling event in June 2018 indicate some continued improvement in groundwater conditions within this zone. The concentrations of tetrachloroethene (PCE), trichloroethene (TCE) and vinyl chloride (VC) decreased, however the concentration of cis-1,2-dichloroethene (cDCE) increased at wells MW042 and MW051. The results of groundwater analysis at monitoring well MW051 are an indicator that residual PCE mass remaining below the McNatt's Cleaners facility has decreased.

Within the lower shallow aquifer zone, exceedances of applicable GCTLs are exhibited within the primary source area wells MW052 (PCE, TCE, cDCE, and VC) and MW040 (TCE, cDCE and VC). The analytical results from MW052 and MW040 provide evidence of the reductive dechlorination of PCE and TCE with elevated or increasing levels of cDCE and VC.

Within the deep zone wells, the primary source area well MW002 has generally exhibited decreases in TCE and cDCE, while the concentrations of PCE and VC have fluctuated. Within primary source area well MW019, cDCE and VC concentrations have continued to exhibit significant decreases. In deep zone well MW030, the concentration of cDCE notably increased; and, the concentration of VC has continued to decrease since 2015, but remains elevated.

2.2 Secondary Source Area

Within the secondary source area wells, a general decreasing trend of PCE, TCE, cDCE and VC continues to be observed at wells MW043 and MW045. The trends indicate that residual PCE mass remains in this area. Conditions for reductive dechlorination remain favorable at MW043, but

are less so at MW045 based upon the ORP and DO within these wells. The ORP at MW045 has increased.

Within the secondary source zone wells, concentrations of PCE, TCE, cDCE, and VC within MW033 have all decreased to below applicable GCTLs, with all being below MDLs during the June 2018 sampling event.

2.3 Dissolved Gases Monitoring Analytical Results

During the January, April, and June 2018 monitoring events, dissolved gases (methane, ethane, and ethene) were sampled at monitor wells MW051 and MW052. At upper shallow zone well MW051, methane was detected at concentrations of 4,100 micrograms per liter [ug/L (January 2018)], 11,000 ug/L (April 2018), and 1,600 ug/L (June 2018). Ethene was detected at concentrations of 200 ug/L (January 2018), 480 ug/L (April 2018), and 270 ug/L (June 2018). Ethane was reported at concentrations of 4.0 ug/L (January 2018) and 8.6 ug/L (April 2018), but below the reporting limit of 0.55 ug/L in June 2018.

At lower shallow zone well MW052, methane was detected at concentrations of 10,000 ug/L (January 2018), 14,000 ug/L (April 2018), and 11,000 ug/L (June 2018). Ethene was detected at concentrations of 4.8 ug/L (January 2018), 5.0 ug/L (April 2018), and 5.1 ug/L (June 2018). Ethane was reported at a concentration of 0.55 ug/L in April 2018 and below the reporting limits in January and June 2018.

These results suggest that methanogenesis is occurring in some capacity and residual PCE contaminant mass is decreasing. The laboratory analytical reports are provided in **Appendix C**.

3. Remedial System Operation and Maintenance

The remedial system was initially constructed with two horizontal vapor extraction wells (VE001 and VE002) and six vertical wells (AI-1 through AI-6). The horizontal vapor extraction wells were installed in horizontal trenches beneath the interior of the McNatt's facility. Each trench was approximately 12-feet long and 3-feet wide. Following excavation, the trenches were backfilled with pea gravel. The vapor extraction wells were each constructed with two sections of 5-foot length, 4-inch diameter, 0.010-slot Schedule 40 PVC well screen. The wells were installed at a depth of approximately 2.2 feet below land surface (ft bls). Following installation, additional pea gravel was placed around and above each vapor extraction well. A geotextile fabric liner was installed above the pea gravel and native soil was placed to approximately 4-inches below the existing grade. A visqueen barrier was placed above the soil and 4-inches of concrete were placed to match the existing floor surface.

Six wells (AI-1 through AI-6), originally designated as air injection wells were installed with a decontaminated stainless steel hand auger. These wells were constructed with two-inch diameter, Schedule 40 PVC and screened (0.010-slot) from 1 ft bls to approximately 5 ft bls. The annulus of each well was backfilled with 20/30 silica sand to 0.5 ft above the screened section. The remaining annulus of the borehole was filled with neat cement grout to match the existing floor slab grade.

Interior piping and equipment installation was completed on September 16 and 17, 2004. Each vapor extraction well was plumbed with 3-inch diameter PVC piping at the center of each well, through the trench and concrete floor. The SVE piping was then extended to the ceiling within the drycleaner and along the ceiling rafters and walls to the southwest corner of the facility and through the exterior wall to the equipment compound. The three air injection wells (AI-1, AI-2, and AI-3) located along the northern wall of the facility were plumbed together and piped to the equipment manifold. The three air injection wells (AI-4, AI-5, and AI-6) located within the middle of the drycleaning facility were plumbed together and piped to the equipment compound. The manifolded air injection wells were configured such that opening/closing valves can accomplish air injection or air extraction. In December 2008, AI-4 was removed due to the placement of new drycleaning equipment at the location of AI-4. The aboveground piping to AI-4 was then capped with a ball valve.

The equipment utilized at the subject site was previously used at the Valet Cleaners site in Brandon, Florida (FAC ID: 299501431) and later at the Terrace Cleaners site in Temple Terrace, Florida (FAC ID: 299501362). The SVE treatment system included a 5 horsepower (hp) Rotron Regenerative SVE blower, a 2.5-hp Rotron Regenerative air injection blower, moisture separator, and two carbon filters. Granular activated carbon filters are currently utilized to treat remedial system vapor emissions, although emissions sampling was previously discontinued. The As-Built SVE piping layout is included as **Figure 9**. A Remedial System Summary is provided on **Table 4** of **Appendix A**. The SVE blower at this site was replaced with an equivalent model in November 2007 and again in February 2011. The moisture separator was replaced with an equivalent model in January 2010 and in July 2013. A timer was installed on the SVE system in November 2011 in order to pulse system operation on a 24 hour on/off timeframe following discussion with the Department. In February 2013, the timer was modified to operate approximately 6 hours per day. In February 2018, the timer was adjusted so the system operates continuously.

In accordance with the approved RAPM, an additional horizontal SVE lateral (VE003) was installed and connected to the existing manifold on March 8 and 9, 2017. The modified system as-built layout is illustrated on **Figure 9**. The supplemental SVE (VE003) lateral as-built construction detail is illustrated on **Figure 10**.

3.1 System Maintenance and Site Visit Data

Monthly site visits are conducted to perform routine operation and maintenance activities, and air samples are collected quarterly from the SVE system treatment influent. During this reporting period, site visits were conducted on October 30, November 27, December 22, 2017; January 29, February 23, March 19, April 30, June 5, June 26, July 30, August 22, and October 16, 2018. During the current reporting period, the system operated in a pulsed mode through February 23, 2018, and was then set to run continuously to capture any gases generated by the remedial injections beneath the facility.

During the January 29, 2018 site visit, the system was off on arrival and GHD realized the system timer was inadvertently switched to the “off” position before departure on the previous site visit. The system timer was adjusted prior to departure during the January 2018 site visit. The system was off upon arrival on several occasions due to the scheduled system timer operation. The timer is

switched from "on" to "auto" on arrival to startup the system and perform O&M activities when site visits are conducted outside the systems daily operational period. The timer is then switched back to "on" prior to departure. It appears that the timer was inadvertently switched to the "off" position before departure during the December 22, 2017 site visit.

During the February 23, 2018 site visit, GHD realized that accumulation of water within the moisture separator resulted in system downtime and the vacuum at SVE lateral VE003 was reduced at that time to minimize entrainment of groundwater. Similarly, the system was off on arrival during the March 2018 site visit and well VE003 was turned off at that time. Due to continuous operations through the month of April and the observed depth to the water table, well VE003 was slightly opened and utilized for extraction at a lower vacuum; however, the system shut down after 15 days of continuous operation due to the entrainment of groundwater. Well VE003 was shutoff on June 5, 2018 and groundwater entrainment was not an issue for the remainder of the reporting period.

The system has operated for approximately 52% of the current reporting period, which includes timer operations through February 23, 2018. Operational issues encountered during the current reporting period included: water entrainment through horizontal well VE003, the AI blower observed tripped and subsequently reset during the December 2017 site visit, and the SVE blower observed tripped and subsequently reset during the July 2018 site visit. After resetting the breakers, normal blower operation was observed during each occasion. A system performance summary is included as **Table 5** of **Appendix A**.

3.2 Treatment System Operation and Performance

During operation of the SVE system, vacuum and/or pressure measurements are collected at each wellhead to determine the subsurface vacuum distribution within the impacted area as a result of the remedial system. During the current period, the vapor extraction and air injection well operations were reconfigured on March 19, April 30, and June 5 to reduce water entrainment and maximize capture of any gases produced by the subsurface remedial injections beneath the facility. The current configuration includes vapor extraction from laterals VE001 and VE002, AI-1 through AI-3, AI-5 and AI-6. Vacuum/pressure measurements at the air injection and the SVE wells are provided in **Table 6** of **Appendix A**. Field notes and O&M data sheets are included in **Appendix B**.

During the current reporting period, the influent PCE concentration was reported at 3.547 milligrams per cubic meter (mg/m^3) in December 2017, 0.666 mg/m^3 in March 2018, 1.79 mg/m^3 in June 2018, and 1.0 mg/m^3 in October 2018. The analytical results from total influent vapor samples collected during the current period display slight fluctuations and remain at relatively low levels. Complete laboratory analytical results are included in **Appendix C**.

The extraction rate was measured with a Dwyer Thermo hot-wire anemometer and the values have varied between approximately 39 and 78 cubic feet per minute (cfm) during the current reporting period. The cause of the variability in flow rate is unclear; however, it may be related to the cooling effect of moisture in the airstream, which would result in erroneous velocity readings. Based on influent concentrations, system flow rate and operation time, the contaminant mass removal since startup and the daily removal rate was calculated and is provided in **Table 7** of **Appendix A**. Using the average values between each monitoring event, the estimated total VOH mass removed from

the subsurface since inception of the remedial system is calculated as approximately 444.9 pounds. The calculated contaminant mass in the unsaturated zone was significantly underestimated during LRAP preparation, due to the inherent heterogeneity in soil contaminant distribution. **Figure 11** provides a histogram of total mass removed by the system since start-up. It should be noted the calculated mass removal may be overestimated for the pulsed operation period because the PCE influent concentrations may be elevated during monthly site visits (system restart to conduct O&M), as well as some of the velocity measurements being elevated due to unfavorable conditions as they relate to equipment accuracy. Generally, the PCE concentrations in the total influent samples appear to have leveled off.

The maximum calculated VOH mass removal rate during the current reporting period was approximately 0.03 pounds per day (lbs/day), which is well below the allowable emissions rate for any individual Hazardous Air Pollutant (HAP) of 2.7 lbs/day. As a result, GHD discontinued air emissions monitoring following the first month of operation. Air emissions continue to be passed through the activated carbon canisters to provide additional noise reduction of the treatment system.

4. QA/QC

One influent air sample (AR002/AR091) was collected on December 22, 2017. A final report was issued on January 10, 2018. The sample was collected in a 6 liter summa canister and analyzed by Eurofins Spectrum Analytical for volatile compounds by Method TO-15. Laboratory quality control included surrogates, a method blank (MB), and laboratory control samples (LCS). The surrogates met recovery criteria, with the MB reporting a PCE detection of 0.000381 parts per million by volume (ppmv), which is only slightly above the laboratory reportable detection limit (RDL) of 0.000341 ppmv. The LCS recoveries and relative percent difference (RPD) were within established limits. The results are considered acceptable.

One influent air sample (AR002/AR092) was collected on March 19, 2018. A final report was issued on March 29, 2018. The sample was collected in a tedlar bag and analyzed by Eurofins Spectrum Analytical for volatile compounds by Method TO-15. Laboratory quality control included surrogates, MBs, and LCSs. The surrogates met recovery criteria, with the MB 1804014-BLK2 reporting a PCE detection of 0.000992 ppmv; however, MB 1804014-BLK1 did not detect PCE above the RDL of 0.000341 ppmv. The LCS recoveries and RPD were within established limits. Regarding contaminants of concern, the results are considered acceptable.

One influent air sample (AR002/AR093) was collected on June 26, 2018. A final report was issued on June 29, 2018. The sample was collected in a tedlar bag and analyzed by Eurofins Spectrum Analytical for volatile compounds by Method TO-15. Laboratory quality control included surrogates, MBs, and LCSs. The surrogates met recovery criteria and the MBs did not detect any target analytes. The LCS recoveries and RPD were within established limits. The results are considered acceptable.

One influent air sample (AR002/AR094) was collected on October 16, 2018. A final report was issued on November 7, 2018. The sample was collected in a tedlar bag and analyzed by Eurofins

Air Toxics for volatile compounds by Method TO-15. Laboratory quality control included surrogates, MBs, and LCSs. The surrogates met recovery criteria and the MBs did not detect any target analytes. The LCS recoveries and RPD were within established limits. The results are considered acceptable.

Two groundwater samples (MW051/GW657 and MW052/GW658) were collected on January 29, 2018. A final report was issued on February 7, 2018. The samples were submitted to Jupiter Environmental Laboratories, Inc. (Jupiter) and analyzed by TestAmerica Laboratories, Inc. (TestAmerica) for dissolved gases (methane, ethene, ethane) by Method RSK-175. Laboratory quality control included MBs and LCSs. The LCSs met recovery criteria and the MBs did not detect any target analytes. The results are considered acceptable.

Two groundwater samples (MW051-GW659 and MW052-GW660) were collected on April 30, 2018. A final report was issued on May 14, 2018. The samples were submitted to Jupiter and analyzed by TestAmerica for dissolved gases (methane, ethene, ethane) by Method RSK-175. Laboratory quality control included MBs and LCSs. The LCSs met recovery criteria and the MBs did not detect any target analytes. The results are considered acceptable.

Two groundwater samples (MW051/GW665 and MW052/GW670) were collected on June 20, 2018. A final report was issued on July 5, 2018. The samples were submitted to Jupiter and analyzed by TestAmerica for dissolved gases (methane, ethene, ethane) by Method RSK-175. Laboratory quality control included MBs and LCSs. The LCSs met recovery criteria and the MBs did not detect any target analytes. The results are considered acceptable.

Complete laboratory analytical reports are included in **Appendix C**.

5. Conclusions and Recommendations

5.1 Conclusions

- GHD has completed annual operations of the remedial system at the McNatt's Cleaners site;
- GHD discontinued air emissions monitoring following the first month of operation as maximum HAP recovery rates are well below allowable emission standards;
- During the current reporting period, the SVE system operated approximately 52% of the time and was set to run continuously on February 23, 2018 to capture any gases generated from the subsurface remedial injections beneath the facility. During the current reporting period, unscheduled downtime was primarily a result of groundwater entrainment;
- Contaminant mass removal through the most recent reporting period is estimated at approximately 444.9 pounds. Based on recent influent concentrations, mass recovery appears to have leveled off;
- System flow rates and vacuum/pressure measurements generally correspond to historical measurements;
- Elevated methane concentrations in groundwater were observed at interior wells MW051 and MW052 and suggest that methanogenesis is occurring; and

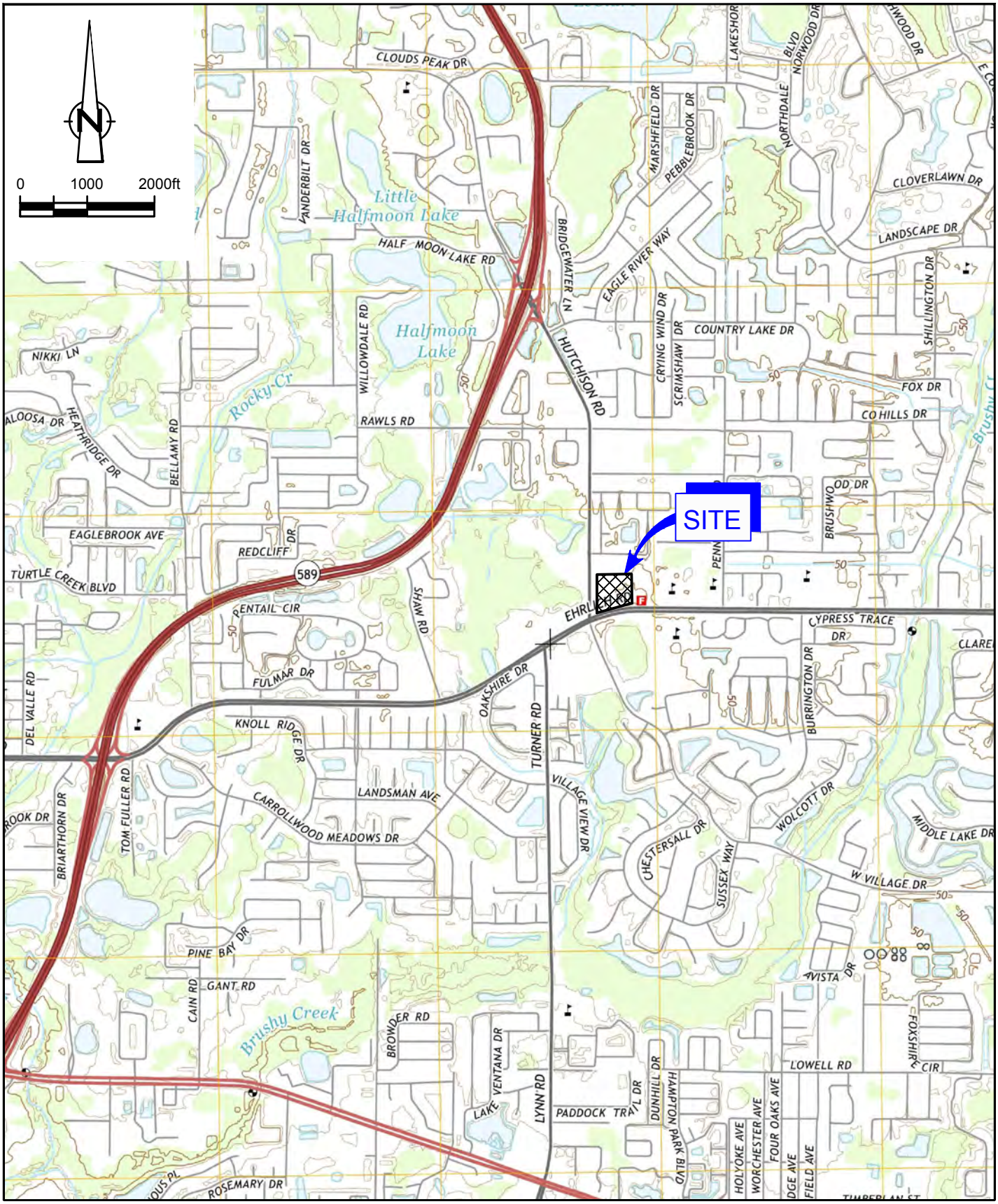
- The June 2018 groundwater sampling results generally support the idea that PCE contaminant mass is decreasing in the primary and secondary areas of concern.

5.2 Recommendations

Based on influent concentrations reported for the current operation period, it appears that the remedial system has reached an asymptotic level of mass recovery; however, GHD recommends continued operation of the SVE system due to the remedial injections beneath the facility and the methane concentrations observed in shallow zone groundwater at MW051 and MW052. For the continued operations of the SVE system, GHD recommends quarterly site visits to check system operations and complete groundwater sampling at MW051 and MW052. During quarterly site visits, the system operations will be verified and hour meter readings will be gathered. The focus for continued SVE is at interior vertical and horizontal SVE wells.

GHD also recommends continued annual groundwater monitoring in accordance with the approved RAPM, with additional quarterly groundwater samples from interior source area wells MW051 and MW052 to evaluate levels of dissolved gasses (methane, ethene, and ethane).

Figures



USGS QUADRANGLE MAPS: CITRUS PARK QUADRANGLE, FLORIDA-HILLSBOROUGH CO., 2015.

McNATT'S CLEANERS (FDEP FACILITY ID #ERIC_4752)
5297 EHRLICH ROAD, TAMPA, FLORIDA 33624
REMEDIAL ACTION STATUS REPORT

090113-07
Oct 23, 2018

SITE LOCATION MAP

FIGURE 1

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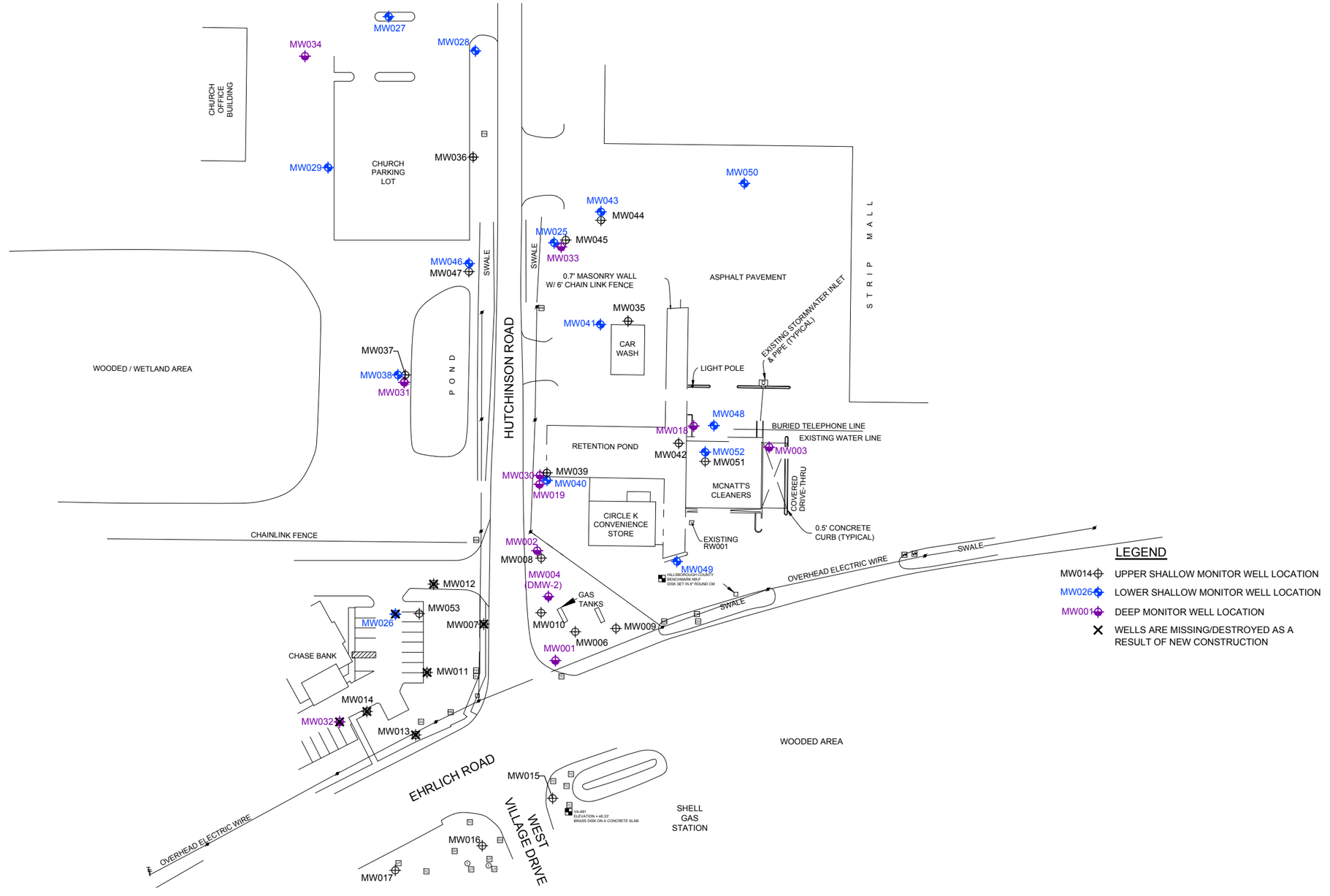

0 50 100ft

GHD

McNATT'S CLEANERS (FDEP FACILITY ID #ERIC_4752)
5297 EHRLICH ROAD, TAMPA, FLORIDA 33624
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090113-07
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MONITORING WELL LOCATION MAP

FIGURE 2

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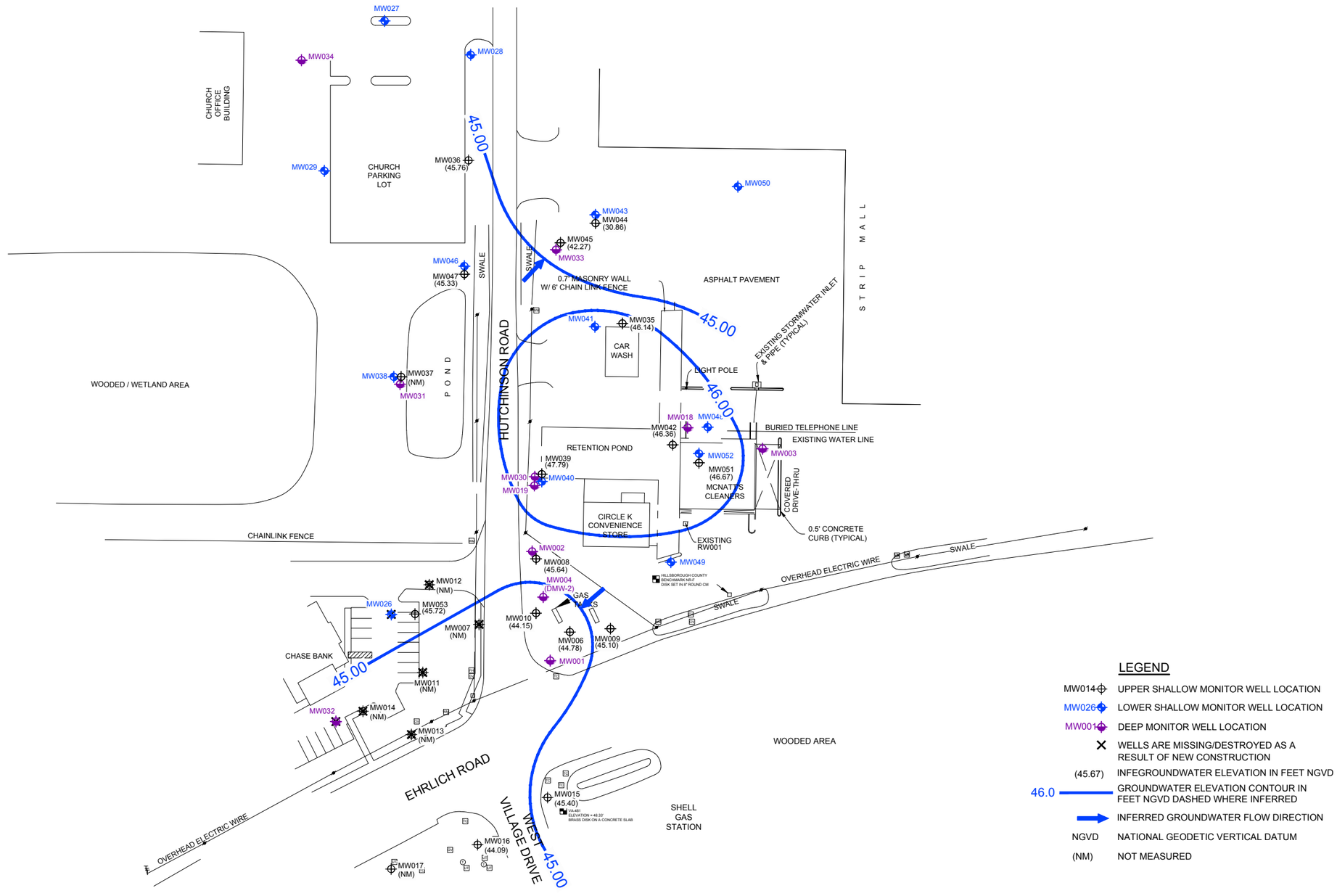

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GHD

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GROUNDWATER ELEVATION CONTOUR MAP UPPER SHALLOW (JUNE 19, 2018)

090113-07
Oct 23, 2018

FIGURE 3

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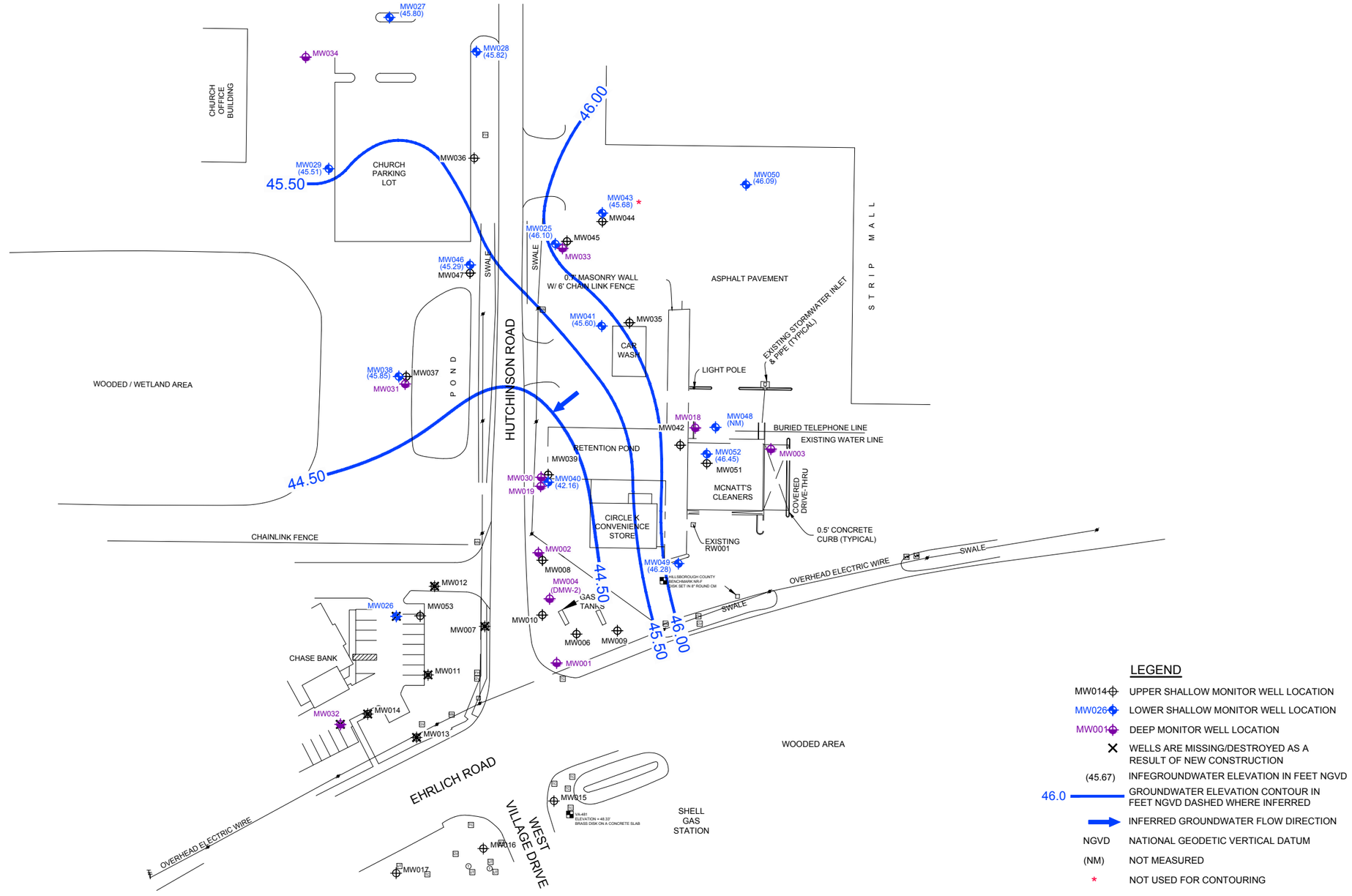

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GHD

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5297 EHRLICH ROAD, TAMPA, FLORIDA 33624
REMEDIAL ACTION STATUS REPORT

GROUNDWATER ELEVATION CONTOUR MAP LOWER SHALLOW (JUNE 19, 2018)

090113-07
Oct 23, 2018

FIGURE 4

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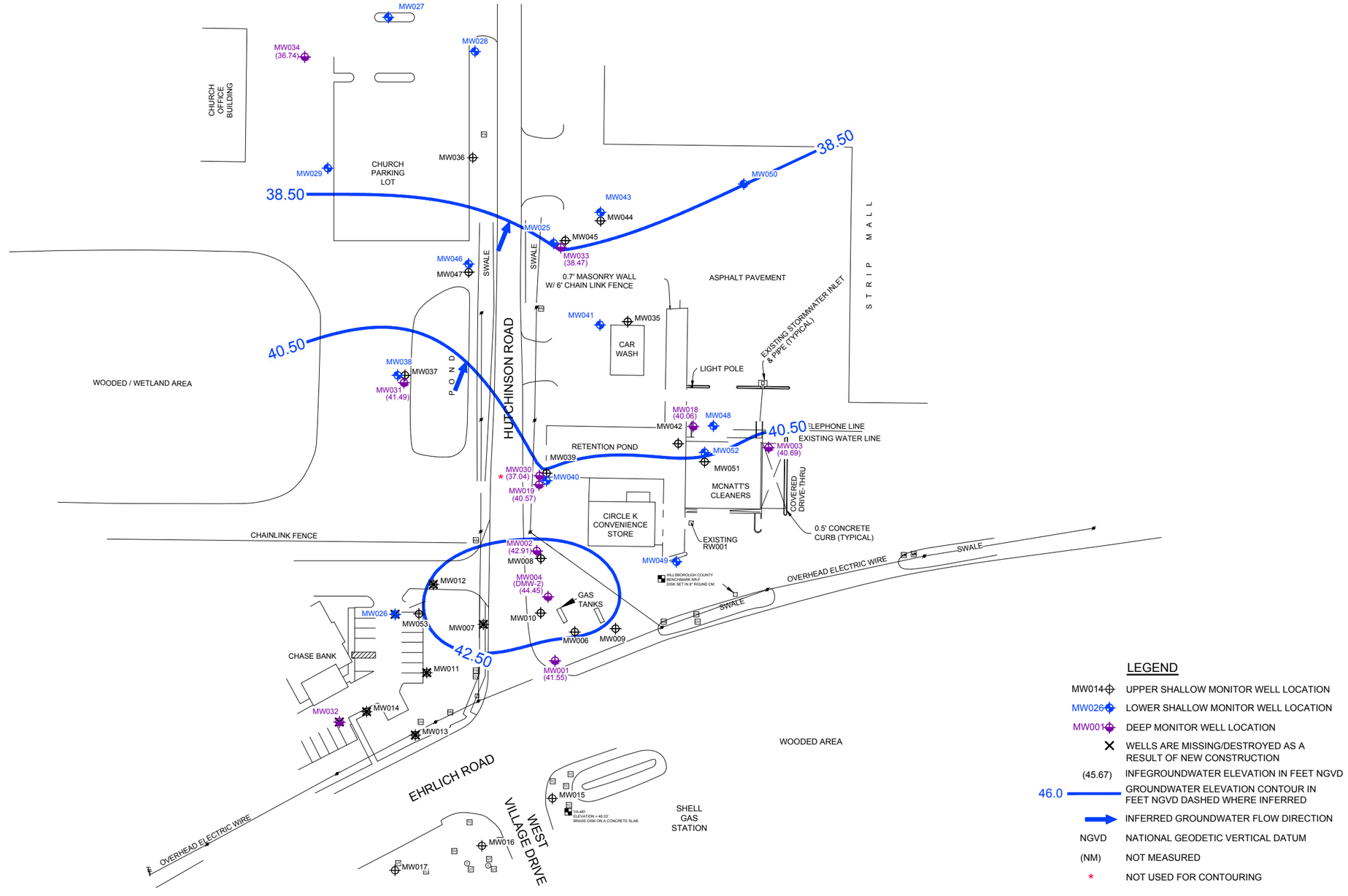

LEGEND

MW014	UPPER SHALLOW MONITOR WELL LOCATION
MW026	LOWER SHALLOW MONITOR WELL LOCATION
MW001	DEEP MONITOR WELL LOCATION
X	WELLS ARE MISSING/DESTROYED AS A RESULT OF NEW CONSTRUCTION
(45.67)	INFEGROUNDWATER ELEVATION IN FEET NGVD
46.0	GROUNDWATER ELEVATION CONTOUR IN FEET NGVD DASHED WHERE INFERRED
→	INFERRED GROUNDWATER FLOW DIRECTION
NGVD	NATIONAL GEODETIC VERTICAL DATUM
(NM)	NOT MEASURED
*	NOT USED FOR CONTOURING

0 50 100ft

GHD

McNATT'S CLEANERS (FDEP FACILITY ID #ERIC_4752)
5297 EHRLICH ROAD, TAMPA, FLORIDA 33624
REMEDIAL ACTION STATUS REPORT

GROUNDWATER ELEVATION CONTOUR MAP DEEP (JUNE 19, 2018)

090113-07
Oct 23, 2018

FIGURE 5

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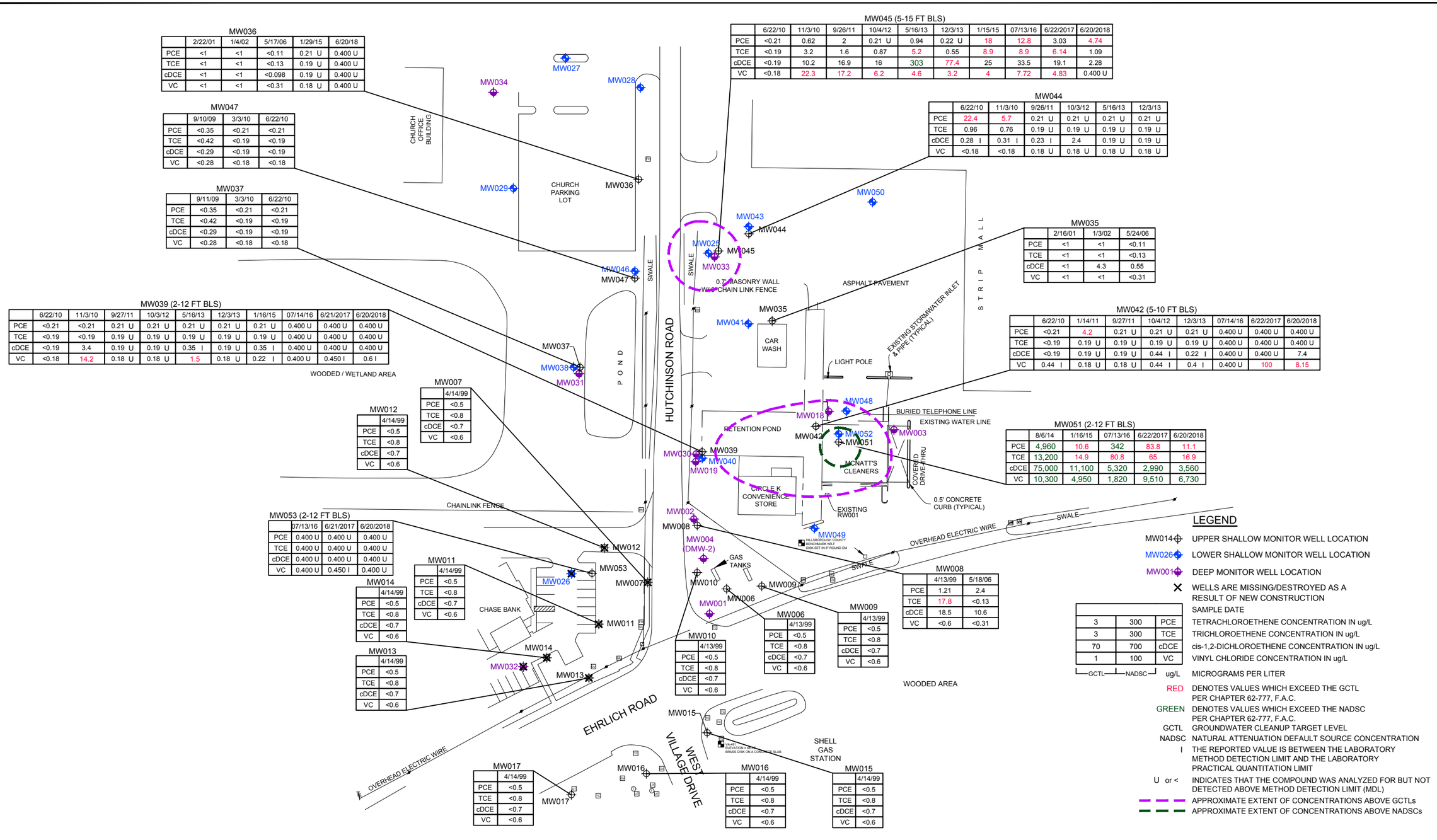

MW036

	2/22/01	1/4/02	5/17/06	1/29/15	6/20/18
PCE	<1	<1	<0.11	0.21 U	0.400 U
TCE	<1	<1	<0.13	0.19 U	0.400 U
cDCE	<1	<1	<0.098	0.19 U	0.400 U
VC	<1	<1	<0.31	0.18 U	0.400 U

MW047

	9/10/09	3/3/10	6/22/10
PCE	<0.35	<0.21	<0.21
TCE	<0.42	<0.19	<0.19
cDCE	<0.29	<0.19	<0.19
VC	<0.28	<0.18	<0.18

MW037

	9/11/09	3/3/10	6/22/10
PCE	<0.35	<0.21	<0.21
TCE	<0.42	<0.19	<0.19
cDCE	<0.29	<0.19	<0.19
VC	<0.28	<0.18	<0.18

MW039 (2-12 FT BLS)

	6/22/10	11/3/10	9/27/11	10/3/12	5/16/13	12/3/13	1/16/15	07/14/16	6/21/2017	6/20/2018
PCE	<0.21	<0.21	0.21 U	0.21 U	0.21 U	0.21 U	0.21 U	0.400 U	0.400 U	0.400 U
TCE	<0.19	<0.19	0.19 U	0.19 U	0.19 U	0.19 U	0.19 U	0.400 U	0.400 U	0.400 U
cDCE	<0.19	3.4	0.19 U	0.19 U	0.35 I	0.19 U	0.35 I	0.400 U	0.400 U	0.400 U
VC	<0.18	14.2	0.18 U	0.18 U	1.5	0.18 U	0.22 I	0.400 U	0.450 I	0.6 I

MW007

	4/14/99
PCE	<0.5
TCE	<0.8
cDCE	<0.7
VC	<0.6

MW012

	4/14/99
PCE	<0.5
TCE	<0.8
cDCE	<0.7
VC	<0.6

MW053 (2-12 FT BLS)

	07/13/16	6/21/2017	6/20/2018
PCE	0.400 U	0.400 U	0.400 U
TCE	0.400 U	0.400 U	0.400 U
cDCE	0.400 U	0.400 U	0.400 U
VC	0.400 U	0.450 I	0.400 U

MW011

	4/14/99
PCE	<0.5
TCE	<0.8
cDCE	<0.7
VC	<0.6

MW014

	4/14/99
PCE	<0.5
TCE	<0.8
cDCE	<0.7
VC	<0.6

MW013

	4/14/99
PCE	<0.5
TCE	<0.8
cDCE	<0.7
VC	<0.6

MW017

	4/14/99
PCE	<0.5
TCE	<0.8
cDCE	<0.7
VC	<0.6

MW045 (5-15 FT BLS)

	6/22/10	11/3/10	9/26/11	10/4/12	5/16/13	12/3/13	1/15/15	07/13/16	6/22/2017	6/20/2018
PCE	<0.21	0.62	2	0.21 U	0.94	0.22 U	18	12.8	3.03	4.74
TCE	<0.19	3.2	1.6	0.87	5.2	0.55	8.9	8.9	6.14	1.09
cDCE	<0.19	10.2	16.9	16	303	77.4	25	33.5	19.1	2.28
VC	<0.18	22.3	17.2	6.2	4.6	3.2	4	7.72	4.83	0.400 U

MW044

	6/22/10	11/3/10	9/26/11	10/3/12	5/16/13	12/3/13
PCE	22.4	5.7	0.21 U	0.21 U	0.21 U	0.21 U
TCE	0.96	0.76	0.19 U	0.19 U	0.19 U	0.19 U
cDCE	0.28 I	0.31 I	0.23 I	2.4	0.19 U	0.19 U
VC	<0.18	<0.18	0.18 U	0.18 U	0.18 U	0.18 U

MW035

	2/16/01	1/3/02	5/24/06
PCE	<1	<1	<0.11
TCE	<1	<1	<0.13
cDCE	<1	4.3	0.55
VC	<1	<1	<0.31

MW042 (5-10 FT BLS)

	6/22/10	1/14/11	9/27/11	10/4/12	12/3/13	07/14/16	6/22/2017	6/20/2018
PCE	<0.21	4.2	0.21 U	0.21 U	0.21 U	0.400 U	0.400 U	0.400 U
TCE	<0.19	0.19 U	0.19 U	0.19 U	0.19 U	0.400 U	0.400 U	0.400 U
cDCE	<0.19	0.19 U	0.19 U	0.44 I	0.22 I	0.400 U	0.400 U	7.4
VC	0.44 I	0.18 U	0.18 U	0.44 I	0.4 I	0.400 U	100	8.15

MW051 (2-12 FT BLS)

	8/6/14	1/16/15	07/13/16	6/22/2017	6/20/2018
PCE	4,960	10.6	342	83.8	11.1
TCE	13,200	14.9	80.8	65	16.9
cDCE	75,000	11,100	5,320	2,990	3,560
VC	10,300	4,950	1,820	9,510	6,730

MW008

	4/13/99	5/18/06
PCE	1.21	2.4
TCE	17.8	<0.13
cDCE	18.5	10.6
VC	<0.6	<0.31

MW010

	4/13/99
PCE	<0.5
TCE	<0.8
cDCE	<0.7
VC	<0.6

MW006

	4/13/99
PCE	<0.5
TCE	<0.8
cDCE	<0.7
VC	<0.6

MW009

	4/13/99
PCE	<0.5
TCE	<0.8
cDCE	<0.7
VC	<0.6

MW016

	4/14/99
PCE	<0.5
TCE	<0.8
cDCE	<0.7
VC	<0.6

MW015

	4/14/99
PCE	<0.5
TCE	<0.8
cDCE	<0.7
VC	<0.6

0 50 100ft

GHD

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GROUNDWATER ANALYTICAL RESULTS UPPER SHALLOW ZONE

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FIGURE 6

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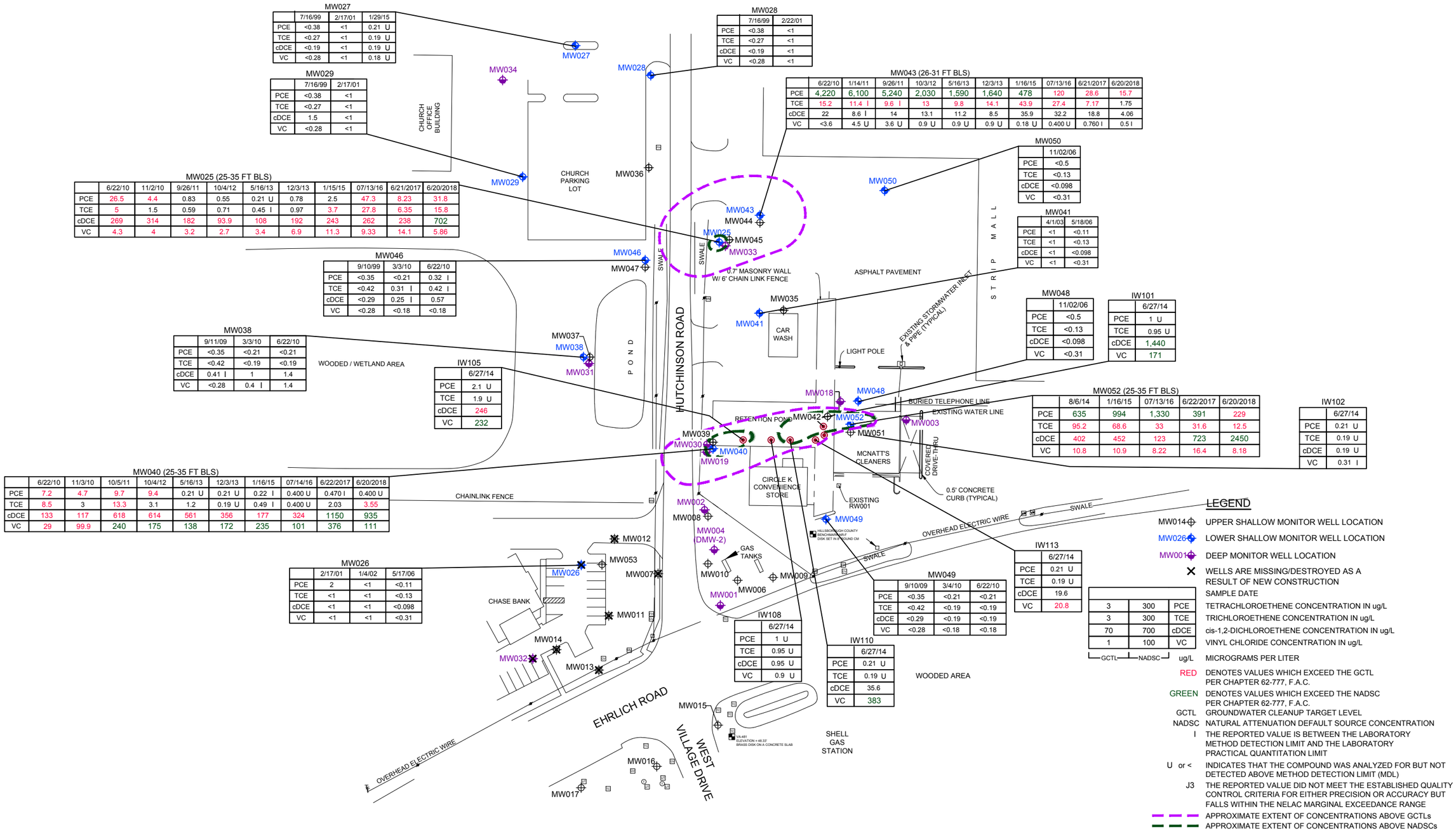

MW027

	7/16/99	2/17/01	1/29/15
PCE	<0.38	<1	0.21 U
TCE	<0.27	<1	0.19 U
cDCE	<0.19	<1	0.19 U
VC	<0.28	<1	0.18 U

MW028

	7/16/99	2/22/01
PCE	<0.38	<1
TCE	<0.27	<1
cDCE	<0.19	<1
VC	<0.28	<1

MW029

	7/16/99	2/17/01
PCE	<0.38	<1
TCE	<0.27	<1
cDCE	1.5	<1
VC	<0.28	<1

MW043 (26-31 FT BLS)

	6/22/10	1/14/11	9/26/11	10/3/12	5/16/13	12/3/13	1/16/15	07/13/16	6/21/2017	6/20/2018
PCE	4,220	6,100	5,240	2,030	1,590	1,640	478	120	28.6	15.7
TCE	15.2	11.4 I	9.6 I	13	9.8	14.1	43.9	27.4	7.17	1.75
cDCE	22	8.6 I	14	13.1	11.2	8.5	35.9	32.2	18.8	4.06
VC	<3.6	4.5 U	3.6 U	0.9 U	0.9 U	0.9 U	0.18 U	0.400 U	0.760 I	0.5 I

MW025 (25-35 FT BLS)

	6/22/10	11/2/10	9/26/11	10/4/12	5/16/13	12/3/13	1/15/15	07/13/16	6/21/2017	6/20/2018
PCE	26.5	4.4	0.83	0.55	0.21 U	0.78	2.5	47.3	8.23	31.8
TCE	5	1.5	0.59	0.71	0.45 I	0.97	3.7	27.8	6.35	15.8
cDCE	269	314	182	93.9	108	192	243	262	238	702
VC	4.3	4	3.2	2.7	3.4	6.9	11.3	9.33	14.1	5.86

MW050

	11/02/06
PCE	<0.5
TCE	<0.13
cDCE	<0.098
VC	<0.31

MW041

	4/1/03	5/18/06
PCE	<1	<0.11
TCE	<1	<0.13
cDCE	<1	<0.098
VC	<1	<0.31

MW046

	9/10/99	3/3/10	6/22/10
PCE	<0.35	<0.21	0.32 I
TCE	<0.42	0.31 I	0.42 I
cDCE	<0.29	0.25 I	0.57
VC	<0.28	<0.18	<0.18

MW048

	11/02/06
PCE	<0.5
TCE	<0.13
cDCE	<0.098
VC	<0.31

IW101

	6/27/14
PCE	1 U
TCE	0.95 U
cDCE	1,440
VC	171

MW038

	9/11/09	3/3/10	6/22/10
PCE	<0.35	<0.21	<0.21
TCE	<0.42	<0.19	<0.19
cDCE	0.41 I	1	1.4
VC	<0.28	0.4 I	1.4

IW105

	6/27/14
PCE	2.1 U
TCE	1.9 U
cDCE	246
VC	232

MW052 (25-35 FT BLS)

	8/6/14	1/16/15	07/13/16	6/22/2017	6/20/2018
PCE	635	994	1,330	391	229
TCE	95.2	68.6	33	31.6	12.5
cDCE	402	452	123	723	2450
VC	10.8	10.9	8.22	16.4	8.18

IW102

	6/27/14
PCE	0.21 U
TCE	0.19 U
cDCE	0.19 U
VC	0.31 I

MW040 (25-35 FT BLS)

	6/22/10	11/3/10	10/5/11	10/4/12	5/16/13	12/3/13	1/16/15	07/14/16	6/22/2017	6/20/2018
PCE	7.2	4.7	9.7	9.4	0.21 U	0.21 U	0.22 I	0.400 U	0.470 I	0.400 U
TCE	8.5	3	13.3	3.1	1.2	0.19 U	0.49 I	0.400 U	2.03	3.55
cDCE	133	117	618	614	561	356	177	324	1150	935
VC	29	99.9	240	175	138	172	235	101	376	111

MW026

	2/17/01	1/4/02	5/17/06
PCE	2	<1	<0.11
TCE	<1	<1	<0.13
cDCE	<1	<1	<0.098
VC	<1	<1	<0.31

IW108

	6/27/14
PCE	1 U
TCE	0.95 U
cDCE	0.95 U
VC	0.9 U

IW110

	6/27/14
PCE	0.21 U
TCE	0.19 U
cDCE	35.6
VC	383

MW049

	9/10/09	3/4/10	6/22/10
PCE	<0.35	<0.21	<0.21
TCE	<0.42	<0.19	<0.19
cDCE	<0.29	<0.19	<0.19
VC	<0.28	<0.18	<0.18

IW113

	6/27/14
PCE	0.21 U
TCE	0.19 U
cDCE	19.6
VC	20.8

LEGEND

- MW014 — UPPER SHALLOW MONITOR WELL LOCATION
- MW026 — LOWER SHALLOW MONITOR WELL LOCATION
- MW001 — DEEP MONITOR WELL LOCATION
- ✕ — WELLS ARE MISSING/DESTROYED AS A RESULT OF NEW CONSTRUCTION
- SAMPLE DATE

GCTL	NADSC	
3	300	PCE — TETRACHLOROETHENE CONCENTRATION IN ug/L
3	300	TCE — TRICHLOROETHENE CONCENTRATION IN ug/L
70	700	cDCE — cis-1,2-DICHLOROETHENE CONCENTRATION IN ug/L
1	100	VC — VINYL CHLORIDE CONCENTRATION IN ug/L

ug/L — MICROGRAMS PER LITER

- RED — DENOTES VALUES WHICH EXCEED THE GCTL PER CHAPTER 62-777, F.A.C.
- GREEN — DENOTES VALUES WHICH EXCEED THE NADSC PER CHAPTER 62-777, F.A.C.
- GCTL — GROUNDWATER CLEANUP TARGET LEVEL
- NADSC — NATURAL ATTENUATION DEFAULT SOURCE CONCENTRATION
- I — THE REPORTED VALUE IS BETWEEN THE LABORATORY METHOD DETECTION LIMIT AND THE LABORATORY PRACTICAL QUANTITATION LIMIT
- U or < — INDICATES THAT THE COMPOUND WAS ANALYZED FOR BUT NOT DETECTED ABOVE METHOD DETECTION LIMIT (MDL)
- J3 — THE REPORTED VALUE DID NOT MEET THE ESTABLISHED QUALITY CONTROL CRITERIA FOR EITHER PRECISION OR ACCURACY BUT FALLS WITHIN THE NELAC MARGINAL EXCEEDANCE RANGE
- APPROXIMATE EXTENT OF CONCENTRATIONS ABOVE GCTLs
- APPROXIMATE EXTENT OF CONCENTRATIONS ABOVE NADSCs

0 50 100ft

GHD

McNATT'S CLEANERS (FDEP FACILITY ID #ERIC_4752)
5297 EHRLICH ROAD, TAMPA, FLORIDA 33624
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GROUNDWATER ANALYTICAL RESULTS LOWER SHALLOW ZONE

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FIGURE 7

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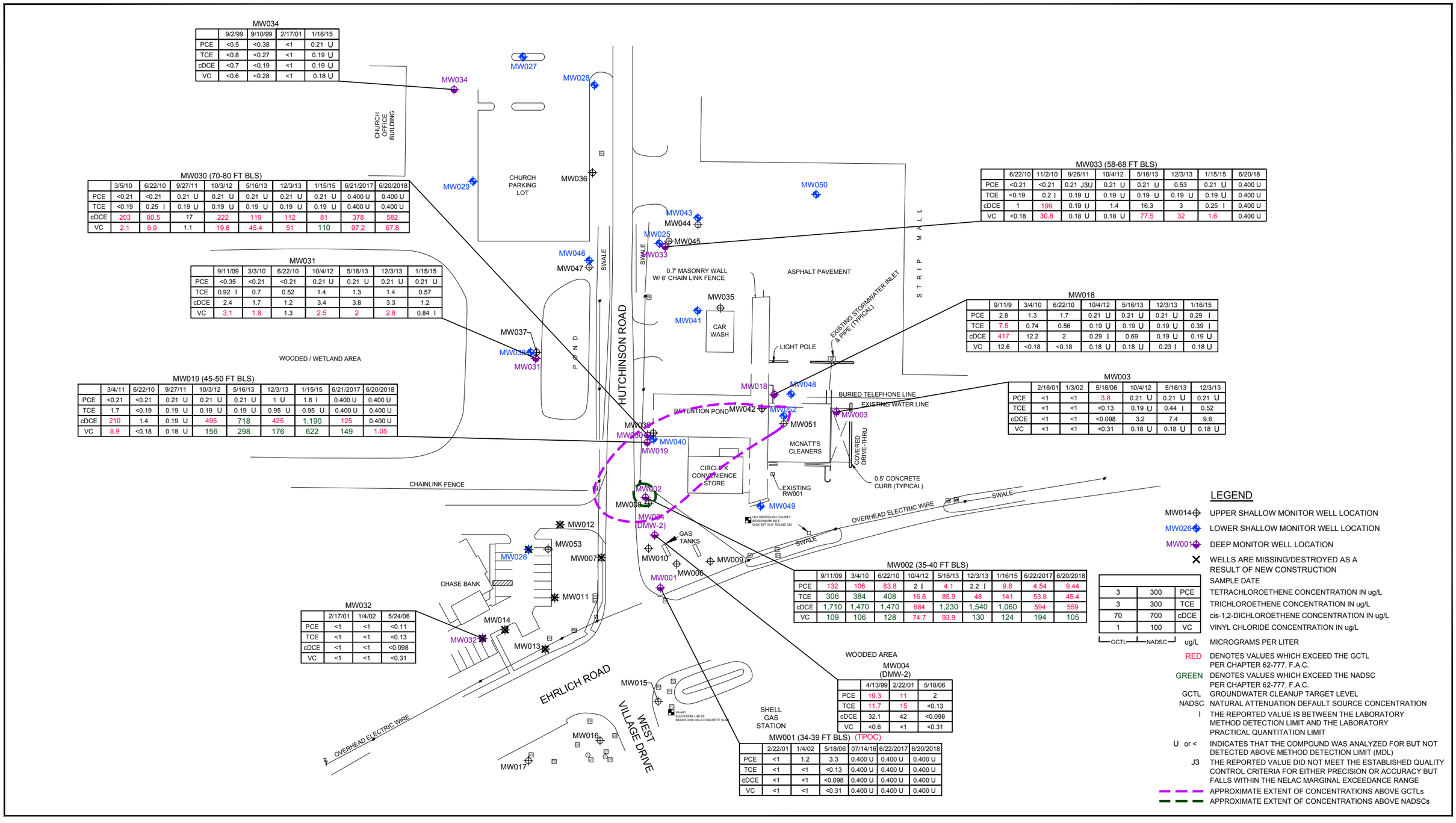

MW034

	9/2/99	9/10/99	2/17/01	1/16/15
PCE	<0.5	<0.38	<1	0.21 U
TCE	<0.8	<0.27	<1	0.19 U
cDCE	<0.7	<0.19	<1	0.19 U
VC	<0.6	<0.28	<1	0.18 U

MW030 (70-80 FT BLS)

	3/5/10	6/22/10	9/27/11	10/3/12	5/16/13	12/3/13	1/15/15	6/21/2017	6/20/2018
PCE	<0.21	<0.21	0.21 U	0.21 U	0.21 U	0.21 U	0.21 U	0.400 U	0.400 U
TCE	<0.19	0.25 I	0.19 U	0.19 U	0.19 U	0.19 U	0.19 U	0.400 U	0.400 U
cDCE	203	80.5	17	222	119	112	81	378	582
VC	2.1	6.9	1.1	19.8	45.4	51	110	97.2	67.8

MW031

	9/11/09	3/3/10	6/22/10	10/4/12	5/16/13	12/3/13	1/15/15
PCE	<0.35	<0.21	<0.21	0.21 U	0.21 U	0.21 U	0.21 U
TCE	0.92 I	0.7	0.52	1.4	1.3	1.4	0.57
cDCE	2.4	1.7	1.2	3.4	3.8	3.3	1.2
VC	3.1	1.8	1.3	2.5	2	2.8	0.84 I

MW019 (45-50 FT BLS)

	3/4/11	6/22/10	9/27/11	10/3/12	5/16/13	12/3/13	1/15/15	6/21/2017	6/20/2018
PCE	<0.21	<0.21	0.21 U	0.21 U	0.21 U	1 U	1.8 I	0.400 U	0.400 U
TCE	1.7	<0.19	0.19 U	0.19 U	0.19 U	0.95 U	0.95 U	0.400 U	0.400 U
cDCE	210	1.4	0.19 U	495	718	425	1,190	125	0.400 U
VC	8.9	<0.18	0.18 U	156	298	176	622	149	1.05

MW033 (58-68 FT BLS)

	6/22/10	11/2/10	9/26/11	10/4/12	5/16/13	12/3/13	1/15/15	6/20/18
PCE	<0.21	<0.21	0.21 J3U	0.21 U	0.21 U	0.53	0.21 U	0.400 U
TCE	<0.19	0.2 I	0.19 U	0.19 U	0.19 U	0.19 U	0.19 U	0.400 U
cDCE	1	199	0.19 U	1.4	16.3	3	0.25 I	0.400 U
VC	<0.18	30.8	0.18 U	0.18 U	77.5	32	1.6	0.400 U

MW018

	9/11/9	3/4/10	6/22/10	10/4/12	5/16/13	12/3/13	1/16/15
PCE	2.8	1.3	1.7	0.21 U	0.21 U	0.21 U	0.29 I
TCE	7.5	0.74	0.56	0.19 U	0.19 U	0.19 U	0.39 I
cDCE	417	12.2	2	0.29 I	0.69	0.19 U	0.19 U
VC	12.6	<0.18	<0.18	0.18 U	0.18 U	0.23 I	0.18 U

MW003

	2/16/01	1/3/02	5/18/06	10/4/12	5/16/13	12/3/13
PCE	<1	<1	3.8	0.21 U	0.21 U	0.21 U
TCE	<1	<1	<0.13	0.19 U	0.44 I	0.52
cDCE	<1	<1	<0.098	3.2	7.4	9.6
VC	<1	<1	<0.31	0.18 U	0.18 U	0.18 U

MW002 (35-40 FT BLS)

	9/11/09	3/4/10	6/22/10	10/4/12	5/16/13	12/3/13	1/16/15	6/22/2017	6/20/2018
PCE	132	106	83.8	2 I	4.1	2.2 I	9.8	4.54	9.44
TCE	306	384	408	16.6	85.9	48	141	53.8	45.4
cDCE	1,710	1,470	1,470	684	1,230	1,540	1,060	594	559
VC	109	106	128	74.7	93.9	130	124	194	105

MW032

	2/17/01	1/4/02	5/24/06
PCE	<1	<1	<0.11
TCE	<1	<1	<0.13
cDCE	<1	<1	<0.098
VC	<1	<1	<0.31

MW004 (DMW-2)

	4/13/99	2/22/01	5/18/06
PCE	19.3	11	2
TCE	11.7	15	<0.13
cDCE	32.1	42	<0.098
VC	<0.6	<1	<0.31

MW001 (34-39 FT BLS) (TPOC)

	2/22/01	1/4/02	5/18/06	07/14/16	6/22/2017	6/20/2018
PCE	<1	1.2	3.3	0.400 U	0.400 U	0.400 U
TCE	<1	<1	<0.13	0.400 U	0.400 U	0.400 U
cDCE	<1	<1	<0.098	0.400 U	0.400 U	0.400 U
VC	<1	<1	<0.31	0.400 U	0.400 U	0.400 U

LEGEND

- MW014 — UPPER SHALLOW MONITOR WELL LOCATION
- MW026 — LOWER SHALLOW MONITOR WELL LOCATION
- MW001 — DEEP MONITOR WELL LOCATION
- X — WELLS ARE MISSING/DESTROYED AS A RESULT OF NEW CONSTRUCTION
- SAMPLE DATE

3	300	PCE — TETRACHLOROETHENE CONCENTRATION IN ug/L
3	300	TCE — TRICHLOROETHENE CONCENTRATION IN ug/L
70	700	cDCE — cis-1,2-DICHLOROETHENE CONCENTRATION IN ug/L
1	100	VC — VINYL CHLORIDE CONCENTRATION IN ug/L
GCTL	NADSC	ug/L — MICROGRAMS PER LITER

- RED — DENOTES VALUES WHICH EXCEED THE GCTL PER CHAPTER 62-777, F.A.C.
- GREEN — DENOTES VALUES WHICH EXCEED THE NADSC PER CHAPTER 62-777, F.A.C.
- GCTL — GROUNDWATER CLEANUP TARGET LEVEL
- NADSC — NATURAL ATTENUATION DEFAULT SOURCE CONCENTRATION
- I — THE REPORTED VALUE IS BETWEEN THE LABORATORY METHOD DETECTION LIMIT AND THE LABORATORY PRACTICAL QUANTITATION LIMIT
- U or < — INDICATES THAT THE COMPOUND WAS ANALYZED FOR BUT NOT DETECTED ABOVE METHOD DETECTION LIMIT (MDL)
- J3 — THE REPORTED VALUE DID NOT MEET THE ESTABLISHED QUALITY CONTROL CRITERIA FOR EITHER PRECISION OR ACCURACY BUT FALLS WITHIN THE NELAC MARGINAL EXCEEDANCE RANGE
- APPROXIMATE EXTENT OF CONCENTRATIONS ABOVE GCTLs
- APPROXIMATE EXTENT OF CONCENTRATIONS ABOVE NADSCs

0 50 100ft

GHD

McNATT'S CLEANERS (FDEP FACILITY ID #ERIC_4752)
5297 EHRLICH ROAD, TAMPA, FLORIDA 33624
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GROUNDWATER ANALYTICAL RESULTS DEEP ZONE

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FIGURE 8

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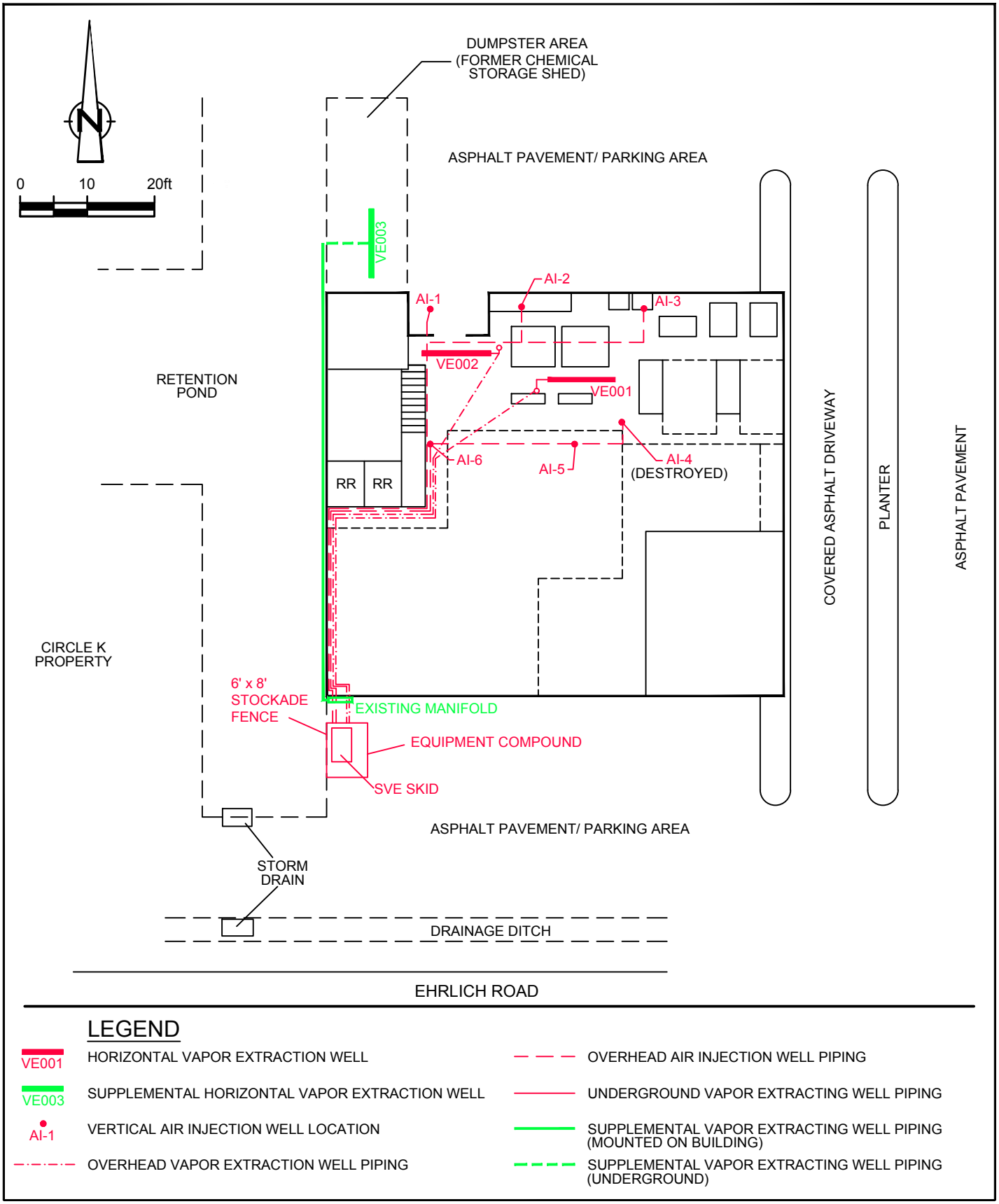

LEGEND

- VE001 — HORIZONTAL VAPOR EXTRACTION WELL
- VE003 — SUPPLEMENTAL HORIZONTAL VAPOR EXTRACTION WELL
- AI-1 — VERTICAL AIR INJECTION WELL LOCATION
- OVERHEAD VAPOR EXTRACTION WELL PIPING
- OVERHEAD AIR INJECTION WELL PIPING
- UNDERGROUND VAPOR EXTRACTING WELL PIPING
- SUPPLEMENTAL VAPOR EXTRACTING WELL PIPING (MOUNTED ON BUILDING)
- SUPPLEMENTAL VAPOR EXTRACTING WELL PIPING (UNDERGROUND)

McNATT'S CLEANERS (FDEP FACILITY ID #ERIC_4752)
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SYSTEM AS-BUILT LAYOUT

FIGURE 9

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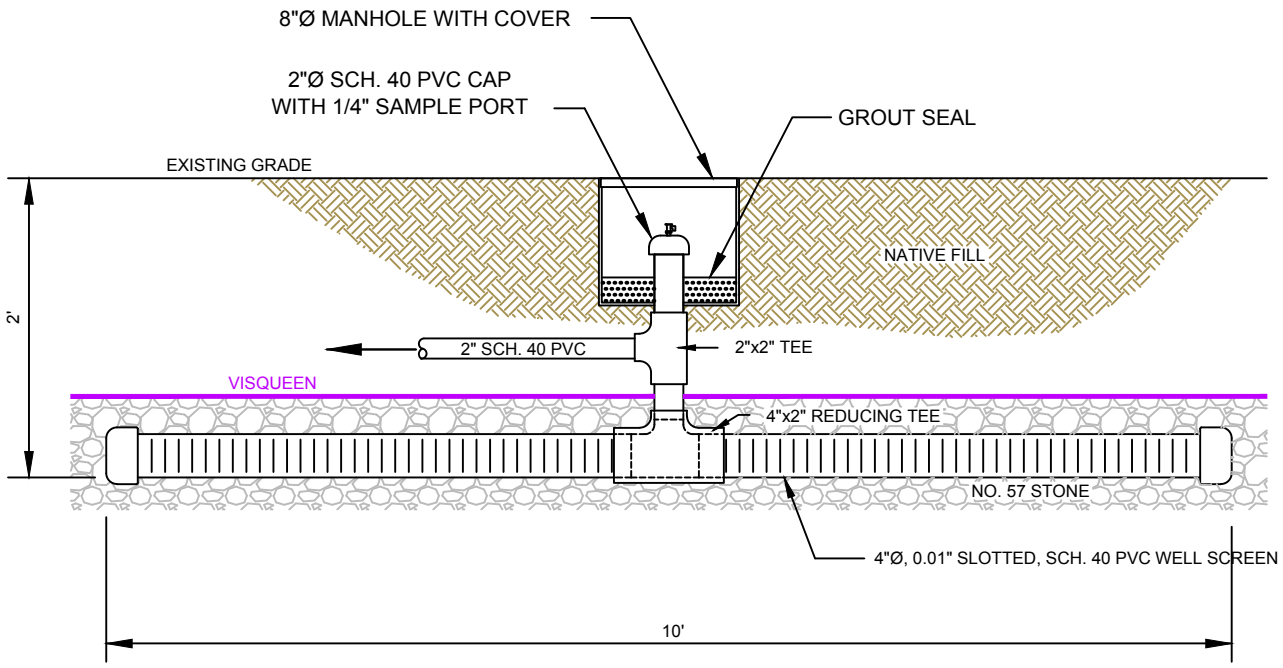

NOT TO SCALE

McNATT'S CLEANERS (FDEP FACILITY ID #9502136)
5297 EHRLICH ROAD, TAMPA, FLORIDA 33624
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SUPPLEMENTAL SVE LATERAL AS-BUILT CONSTRUCTION DETAIL FIGURE 10

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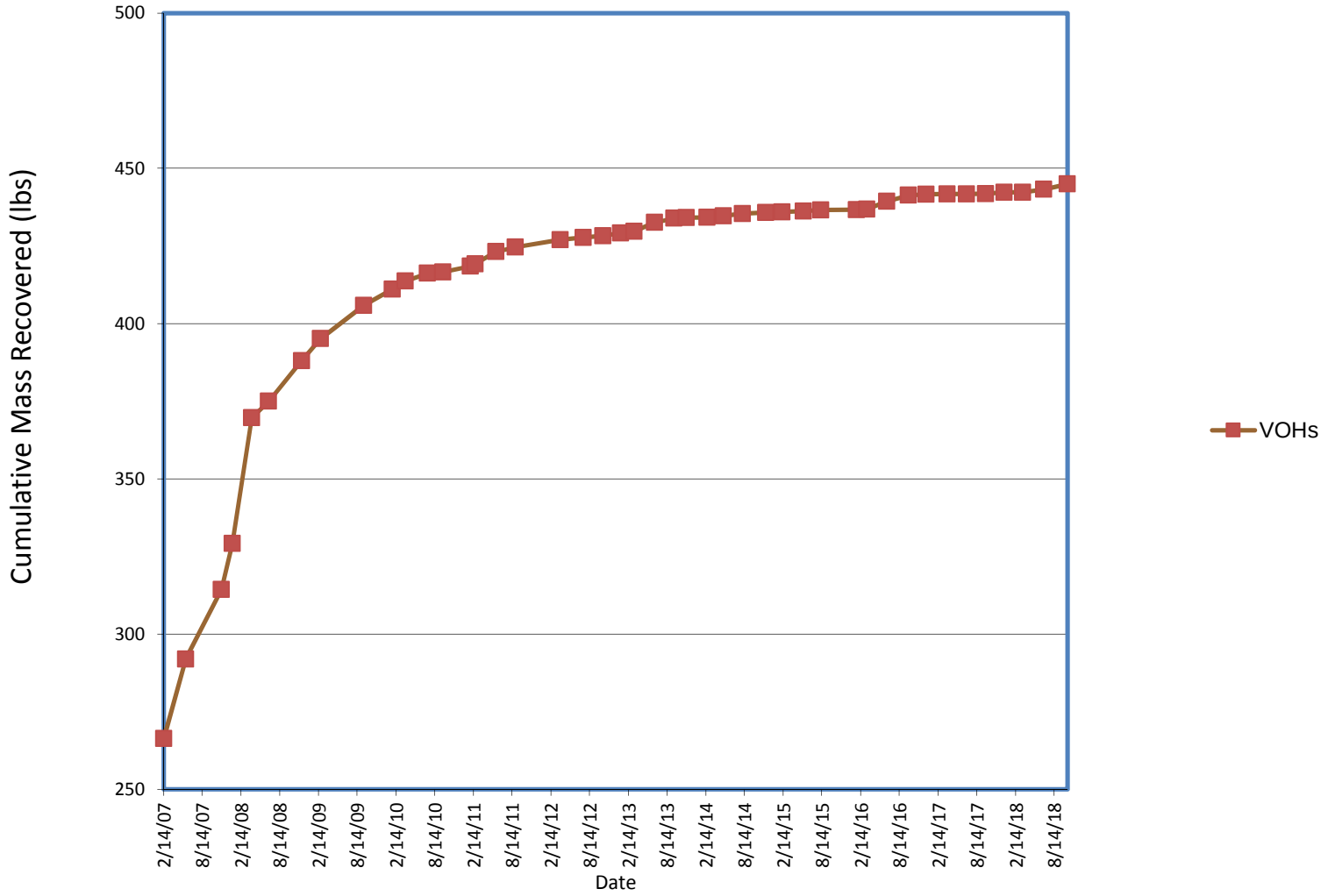
Figure 11 - Cumulative Contaminant Mass Removal



Appendix A
Remedial Action O&M Reporting Tables

TABLE 1
GROUNDWATER ELEVATION SUMMARY
MCNATTS CLEANERS
TAMPA, HILLSBOROUGH COUNTY, FLORIDA
FDEP FACILITY ID# 299502136

WELL NO.	MW001	MW002	MW003	MW004	MW005	MW006
DIAMETER	0.75	0.75	0.75	2	2	2
WELL DEPTH	39.00	40.00	38.00	50.00	12.00	12.00
SCREEN INTERVAL	34-39	35-40	33-38	45-50	2-12	2-12
TOC ELEVATION	47.27	47.50	49.09	47.37	NM	47.39

DATE	ELEV	DTW	ELEV	DTW	ELEV	DTW	ELEV	DTW	ELEV	DTW	ELEV	DTW
04/12/99												
04/13/99							34.72	12.65			42.85	4.54
04/14/99												
07/15/99			36.70	10.80	41.89	7.20						
07/16/99	43.82	3.45										
09/10/99	42.82	4.45	36.84	10.66	39.34	9.75						
10/09/99	43.30	3.97	38.11	9.39	40.37	8.72	38.50	8.87			45.30	2.09
02/16/01					36.69	12.40						
02/17/01			34.50	13.00								
02/22/01	37.72	9.55					34.94	12.43				
01/03/02	36.53	10.74	36.02	11.48	37.65	11.44						
02/12/03	37.04	10.23	36.73	10.77	38.18	10.91	36.99	10.38			43.76	3.63
04/01/03												
04/02/03			38.09	9.41								
04/25/03	40.23	7.04	38.02	9.48	36.28	12.81	37.93	9.44			45.40	1.99
06/02/05		NM	39.06	8.44	40.55	8.54		NM			44.93	2.46
11/21/05			39.70	7.80								
12/02/05			39.80	7.70			39.02	8.35			45.02	2.37
05/16/06	39.00	8.27	36.11	11.39	38.87	10.22	41.89	5.48				
11/28/06	40.43	6.84	42.29	5.21	39.96	9.13	39.16	8.21			44.59	2.80
06/04/07	38.75	8.52	37.11	10.39	37.75	11.34	36.97	10.40			43.58	3.81
01/28/08	38.84	8.43	37.47	10.03	38.20	10.89	37.28	10.09			43.44	3.95
03/05/09	38.70	8.57	38.71	8.79	38.80	10.29	38.78	8.59			41.76	5.63
09/25/09	45.38	1.89	43.05	4.45	42.74	6.35	45.68	1.69			45.49	1.90
03/05/10			41.13	6.37	40.61	8.48	41.15	6.22			45.54	1.85
06/21/10			40.38	7.12	40.81	8.28						
11/02/10	39.27	8	37.61	9.89	38.20	10.89					43.07	4.32
09/26/11			40.22	7.28	41.44	7.65	40.54	6.83			45.59	1.8
10/03/12			41.81	5.69	42.56	6.53					45.65	1.74
05/16/13	39.78	7.49	38.23	9.27	38.98	10.11	38.24	9.13			44.01	3.38
12/03/13	41.54	5.73	40.52	6.98	41.18	7.91	45.08	2.29			44.90	2.49
01/15/15	41.06	6.21	40.70	6.8	41.54	7.55	40.83	6.54			45.84	1.55
07/14/16	41.37	5.9										
06/21/17	39.95	7.32	43.07	4.43	41.43	7.66	46.00	1.37			45.81	1.58
06/19/18	41.55	5.72	42.91	4.59	40.69	8.4	44.45	2.92			44.78	2.61

TABLE 1
GROUNDWATER ELEVATION SUMMARY
MCNATTS CLEANERS
TAMPA, HILLSBOROUGH COUNTY, FLORIDA
FDEP FACILITY ID# 299502136

WELL NO.	MW007	MW008	MW009	MW010	MW011	MW012
DIAMETER	2	2	2	2	2	2
WELL DEPTH	10.00	12.00	12.00	12.00	12.00	2-12
SCREEN INTERVAL	2-10	2-12	2-12	2-12	2-12	2-12
TOC ELEVATION	46.91	47.43	47.51	47.62	47.09	48.31

DATE	ELEV	DTW	ELEV	DTW	ELEV	DTW	ELEV	DTW	ELEV	DTW	ELEV	DTW
04/12/99					42.96	4.55						
04/13/99			42.75	4.68			43.04	4.58				
04/14/99	42.67	4.24							42.68	4.41	42.62	5.69
07/15/99												
07/16/99												
09/10/99	44.95	1.96	45.06	2.37	45.15	2.36	45.03	2.59	44.98	2.11	44.90	3.41
10/09/99	45.17	1.74	45.28	2.15			45.26	2.36	45.22	1.87	45.09	3.22
02/16/01												
02/17/01												
02/22/01												
01/03/02												
02/12/03			43.91	3.52	43.87	3.64			43.67	3.42	43.73	4.58
04/01/03												
04/02/03												
04/25/03			45.33	2.10	45.47	2.04	45.18	2.44	45.40	1.69	45.11	3.20
06/02/05			45.20	2.23	45.19	2.32	45.04	2.58	45.67	1.42	46.02	2.29
12/02/05	44.93	1.98	45.02	2.41	45.22	2.29	44.94	2.68	44.89	2.20	44.85	3.46
05/16/06			41.49	5.94								
11/28/06		NM	44.61	2.82	44.70	2.81	44.61	3.01	44.46	2.63	44.52	3.79
06/04/07	43.81	3.10	43.80	3.63	43.65	3.86	43.63	3.99	44.05	3.04	43.80	4.51
01/28/08	43.53	3.38	43.54	3.89	43.55	3.96	43.44	4.18	43.29	3.80	43.39	4.92
03/05/09	41.76	5.15	41.74	5.69	41.73	5.78	41.75	5.87	41.76	5.33	42.71	5.60
09/25/09	45.54	1.37	45.38	2.05	45.45	2.06	45.42	2.20	44.93	2.16	45.29	3.02
03/05/10	45.52	1.39	45.53	1.9	45.64	1.87	45.51	2.11	45.63	1.46	45.30	3.01
06/21/10	45.93	0.98	45.92	1.51			45.80	1.82	46.19	0.9	45.63	2.68
11/02/10	42.99	3.92	43.21	4.22	44.19	3.32			42.86	4.23	42.81	5.5
09/26/11	45.59	1.32	45.58	1.85	45.68	1.83	45.56	2.06			45.36	2.95
10/03/12			45.92	1.51	45.80	1.71	45.67	1.95			45.58	2.73
05/16/13			44.11	3.32	43.97	3.54	44.11	3.51				
12/03/13			44.97	2.46	44.97	2.54	44.93	2.69				
01/15/15			45.81	1.62	45.98	1.53	45.79	1.83				
06/21/17			45.66	1.77	45.93	1.58	46.25	1.37				
06/19/18			45.64	1.79	45.10	2.41	44.15	3.47				

TABLE 1
GROUNDWATER ELEVATION SUMMARY
MCNATTS CLEANERS
TAMPA, HILLSBOROUGH COUNTY, FLORIDA
FDEP FACILITY ID# 299502136

WELL NO.	MW013	MW014	MW015	MW016	MW017	MW018
DIAMETER	2	2	2	2	2	2
WELL DEPTH	13.00	12.00	12.00	12.00	12.00	50.00
SCREEN INTERVAL	3-13	2-12	2-12	2-12	2-12	45-50
TOC ELEVATION	48.52	46.96	47.94	48.03	47.03	48.99

DATE	ELEV	DTW	ELEV	DTW	ELEV	DTW	ELEV	DTW	ELEV	DTW	ELEV	DTW
04/12/99												
04/13/99												
04/14/99	41.63	6.89	42.58	4.38	42.83	5.11	42.60	5.43	42.30	4.73		
07/15/99											36.88	12.11
07/16/99												
09/10/99	44.96	3.56	44.81	2.15	45.14	2.80	45.01	3.02	44.68	2.35	37.03	11.96
10/09/99	45.17	3.35	45.02	1.94	45.38	2.56	45.21	2.82	44.96	2.07	38.32	10.67
02/16/01												
02/17/01											34.67	14.32
02/22/01												
01/03/02											36.20	12.79
02/12/03	43.58	4.94			43.67	4.27	43.51	4.52			36.68	12.31
04/01/03												
04/02/03											37.63	11.36
04/25/03	45.42	3.10	45.12	1.84	45.92	2.02	45.14	2.89	44.83	2.20	38.09	10.90
06/02/05	45.60	2.92	45.75	1.21	45.16	2.78	45.07	2.96	45.46	1.57	38.68	10.31
11/18/05											38.18	10.81
12/02/05	44.76	3.76	44.53	2.43	44.64	3.30	44.25	3.78			38.68	10.31
05/16/06											35.75	13.24
11/28/06	44.42	4.10	44.32	2.64	41.43	6.51	41.27	6.76	43.93	3.10	38.84	10.15
06/04/07	43.71	4.81	43.53	3.43	43.44	4.50	43.13	4.90	43.04	3.99	36.57	12.42
01/28/08	43.34	5.18	43.11	3.85	43.34	4.60	43.13	4.90	42.85	4.18	36.97	12.02
03/05/09	42.75	5.77			42.78	5.16	42.78	5.25	41.73	5.30	38.75	10.24
09/25/09	45.54	2.98	45.26	1.70	45.44	2.50	45.18	2.85	45.05	1.98	42.49	6.50
03/05/10	45.61	2.91	45.39	1.57	45.54	2.4	45.33	2.7	45.09	1.94	39.77	9.22
06/21/10	46.18	2.34	46.06	0.9	45.79	2.15	45.61	2.42	45.50	1.53	40.02	8.97
11/02/10	42.92	5.6	42.70	4.26	42.88	5.06	42.62	5.41			37.35	11.64
09/26/11											40.14	8.85
10/03/12											41.93	7.06
05/16/13					43.65	4.29	43.24	4.79	43.07	3.96	38.17	10.82
12/03/13					44.74	3.2	44.51	3.52	44.23	2.8	40.54	8.45
01/15/15					45.82	2.12	45.52	2.51			40.73	8.26
06/21/17					45.70	2.24	45.53	2.50			40.82	8.17
06/19/18					45.40	2.54	44.09	3.94			40.06	8.93

TABLE 1
GROUNDWATER ELEVATION SUMMARY
MCNATTS CLEANERS
TAMPA, HILLSBOROUGH COUNTY, FLORIDA
FDEP FACILITY ID# 299502136

WELL NO.	MW019	MW025	MW026	MW027	MW028	MW029
DIAMETER	2	0.75	0.75	0.75	0.75	0.75
WELL DEPTH	50.00	35.00	35.00	35.00	35.00	35.00
SCREEN INTERVAL	45-50	25-35	25-35	25-35	25-35	25-35
TOC ELEVATION	46.95	48.68	47.93	47.47	47.60	48.45

DATE	ELEV	DTW	ELEV	DTW	ELEV	DTW	ELEV	DTW	ELEV	DTW	ELEV	DTW
04/12/99												
04/13/99												
04/14/99												
07/15/99			44.68	4.00	44.38	3.55	44.52	2.95	44.60	3.00	44.57	3.88
07/16/99	36.80	10.15										
09/10/99	36.73	10.22	45.06	3.62			45.03	2.44	45.03	2.57	44.96	3.49
10/09/99	38.00	8.95	45.37	3.31	44.81	3.12	45.45	2.02	45.44	2.16	45.26	3.19
10/21/99			44.88	3.80								
02/16/01			42.50	6.18								
02/17/01					42.36	5.57	42.29	5.18			42.09	6.36
02/22/01	34.42	12.53							42.31	5.29		
01/03/02	36.12	10.83	43.36	5.32	43.28	4.65						
02/12/03	36.52	10.43	43.56	5.12	44.04	3.89	43.34	4.13	43.46	4.14	43.29	5.16
04/01/03			44.70	3.98								
04/02/03	37.59	9.36										
04/25/03	38.01	8.94	45.30	3.38	44.80	3.13	45.41	2.06	45.32	2.28	45.25	3.20
06/02/05		NM	45.22	3.46	44.69	3.24	45.03	2.44	45.11	2.49	45.03	3.42
11/18/05	39.76	7.19	44.18	4.50								
12/02/05	39.05	7.90	44.68	4.00	44.58	3.35	44.32	3.15	44.43	3.17	45.20	3.25
05/16/06	36.11	10.84	42.17	6.51	41.46	6.47						
11/28/06	39.14	7.81	44.59	4.09	44.42	3.51	44.17	3.30	44.14	3.46	44.17	4.28
06/04/07	37.14	9.81	43.39	5.29	44.12	3.81	42.81	4.66	42.86	4.74	42.43	6.02
01/28/08	37.46	9.49	43.06	5.62	42.92	5.01	42.85	4.62	43.19	4.41		
03/05/09	38.80	8.15	41.72	6.96	41.79	6.14	41.71	5.76	41.69	5.91	41.75	6.70
09/25/09	42.83	4.12	44.96	3.72	44.75	3.18	45.36	2.11	45.33	2.27		
03/05/10	41.07	5.88	45.38	3.3	45.23	2.7	45.50	1.97	45.58	2.02		
06/21/10	40.23	6.72	36.96	11.72	45.51	2.42	45.64	1.83	45.70	1.9	37.11	11.34
11/02/10			42.60	6.08	33.66	14.27	42.67	4.8	42.67	4.93		
09/26/11	40.28	6.67	45.32	3.36	45.12	2.81						
10/03/12	41.76	5.19	45.58	3.1	45.58	2.35						
05/16/13	38.18	8.77	43.95	4.73			44.06	3.41	43.92	3.68	44.26	4.19
12/03/13	40.51	6.44	44.95	3.73			45.15	2.32	45.04	2.56	45.44	3.01
01/15/15	40.70	6.25	45.78	2.9					46.03	1.57	45.81	2.64
07/13/16			44.62	4.06								
06/21/17	40.33	6.62	45.93	2.75			46.47	1.00	46.34	1.26	46.05	2.40
06/19/18	40.57	6.38	46.10	2.58			45.80	1.67	45.82	1.78	45.51	2.94

TABLE 1
GROUNDWATER ELEVATION SUMMARY
MCNATTS CLEANERS
TAMPA, HILLSBOROUGH COUNTY, FLORIDA
FDEP FACILITY ID# 299502136

WELL NO.	MW030	MW031	MW032	MW033	MW034	MW035
DIAMETER	2	2	2	2	2	0.75
WELL DEPTH	80.00	60.00	50.00	68.00	71.00	12.00
SCREEN INTERVAL	70-80	50-60	40-50	58-68	61-71	2-12
TOC ELEVATION	47.08	47.71	47.22	48.90	48.21	48.62

DATE	ELEV	DTW	ELEV	DTW	ELEV	DTW	ELEV	DTW	ELEV	DTW	ELEV	DTW
04/12/99												
04/13/99												
04/14/99												
07/15/99												
07/16/99												
08/30/99	32.08	15.00										
08/31/99	32.23	14.85	41.71	6.00	23.52	23.70	32.40	16.50				
09/02/99							29.80	19.10	30.21	18.00		
09/10/99	33.28	13.80	36.87	10.84	27.73	19.49	34.75	14.15	33.48	14.73		
10/09/99	34.77	12.31	32.47	15.24	29.49	17.73	36.21	12.69	34.95	13.26	46.10	2.52
10/21/99											45.26	3.36
02/16/01							32.23	16.67			42.96	5.66
02/17/01									30.71	17.50		
02/22/01	30.70	16.38	35.08	12.63	24.89	22.33						
01/03/02	32.30	14.78	37.25	10.46	31.39	15.83	34.02	14.88	43.47	4.74	43.88	4.74
02/12/03	32.56	14.52	37.34	10.37	31.61	15.61	34.78	14.12	42.99	5.22	44.27	4.35
04/01/03												
04/02/03	34.27	12.81										
04/25/03	35.47	11.61	44.90	2.81	31.23	15.99	35.59	13.31	33.83	14.38	45.69	2.93
06/02/05	35.44	11.64	40.64	7.07		NM	36.56	12.34	35.22	12.99	45.73	2.89
12/02/05	35.31	11.77	40.61	7.10	32.54	14.68	36.55	12.35	35.08	13.13	45.22	3.40
05/16/06	32.54	14.54					33.41	15.49				
11/28/06	35.78	11.30	40.66	7.05	33.38	13.84	44.71	4.19	35.64	12.57	44.17	4.45
06/04/07	33.13	13.95			30.50	16.72	34.26	14.64	32.82	15.39	43.84	4.78
01/28/08	33.57	13.51	38.92	8.79	31.05	16.17	34.69	14.21	33.25	14.96		
03/05/09	38.72	8.36	38.82	8.89	38.76	8.46	38.75	10.15	38.68	9.53	42.72	5.90
09/25/09	39.38	7.70	43.37	4.34	36.72	10.50	41.97	6.93	38.90	9.31	45.22	3.40
03/05/10	38.53	8.55	42.59	5.12	36.54	10.68	39.60	9.3	38.27	9.94	45.66	2.96
06/21/10	37.14	9.94	41.97	5.74	34.82	12.4	38.40	10.5			45.70	2.92
11/02/10	34.71	12.37	38.93	8.78			35.53	13.37	33.67	14.54		
09/26/11	36.99	10.09					38.52	10.38			45.73	2.89
10/03/12	39.92	7.16	43.22	4.49			40.76	8.14			46.23	2.39
05/16/13	34.92	12.16	39.97	7.74			36.45	12.45	34.65	13.56		
12/03/13	38.02	9.06	41.95	5.76			39.18	9.72	37.87	10.34	45.09	3.53
01/15/15	38.17	8.91	42.16	5.55			39.22	9.68	38.06	10.15	46.18	2.44
06/21/17	42.88	4.20					39.45	9.45	48.21	10.43	46.08	2.54
06/19/18	37.04	10.04	41.49	6.22			38.47	10.43	36.74	11.47	46.14	2.48

TABLE 1
GROUNDWATER ELEVATION SUMMARY
MCNATTS CLEANERS
TAMPA, HILLSBOROUGH COUNTY, FLORIDA
FDEP FACILITY ID# 299502136

WELL NO.	MW036	MW037	MW038	MW039	MW040	MW041
DIAMETER	0.75	0.75	0.75	0.75	0.75	0.75
WELL DEPTH	12.00	12.00	35.00	12.00	35.00	30.00
SCREEN INTERVAL	2-12	2-12	25-35	2-12	25-35	20-30
TOC ELEVATION	48.32	47.50	47.23	48.81	47.17	48.81

DATE	ELEV	DTW	ELEV	DTW	ELEV	DTW	ELEV	DTW	ELEV	DTW	ELEV	DTW
04/12/99												
04/13/99												
04/14/99												
07/15/99												
07/16/99												
09/10/99												
10/09/99	45.82	2.50										
02/16/01												
02/17/01												
02/22/01	42.30	6.02										
01/03/02	43.00	5.32										
02/12/03	43.34	4.98										
04/01/03			44.49	3.01	43.44	3.79					43.95	4.86
04/02/03							46.49	2.32	43.00	4.17		
04/25/03	45.23	3.09	43.72	3.78	43.93	3.30	47.16	1.65	43.79	3.38	45.38	3.43
06/02/05	45.18	3.14	45.18	2.32	44.00	3.23	47.29	1.52	41.35	5.82	45.33	3.48
11/18/05					43.23	4.00	46.11	2.70	40.57	6.60		
12/02/05	44.41	3.91	43.85	3.65	44.53	2.70	46.64	2.17	41.02	6.15	44.82	3.99
05/16/06	42.05	6.27	41.47	6.03	40.74	6.49			38.00	9.17	42.45	6.36
11/28/06	44.18	4.14	44.33	3.17	43.52	3.71	46.42	2.39	41.02	6.15	44.66	4.15
06/04/07	42.91	5.41	44.21	3.29	42.71	4.52	45.86	2.95	39.14	8.03	43.63	5.18
01/28/08			42.76	4.74	42.10	5.13	44.76	4.05	39.03	8.14	43.20	5.61
03/05/09	42.75	5.57	41.71	5.79	41.65	5.58	43.79	5.02	41.72	5.45	41.83	6.98
09/25/09			44.90	2.60	44.42	2.81	47.09	1.72	43.62	3.55	45.23	3.58
03/05/10	45.44	2.88	44.96	2.54	44.53	2.7	47.03	1.78	45.37	1.8	45.59	3.22
06/21/10	45.71	2.61	45.15	2.35	44.70	2.53	47.61	1.2	45.70	1.47	45.76	3.05
11/02/10	42.59	5.73	42.19	5.31	41.97	5.26			38.11	9.06	42.95	5.86
09/26/11	45.56	2.76			44.54	2.69	47.10	1.71	44.81	2.36	45.62	3.19
10/03/12	46.02	2.3			45.21	2.02	47.61	1.2	44.06	3.11	45.72	3.09
05/16/13	43.93	4.39					45.65	3.16	40.25	6.92		
12/03/13	45.16	3.16			44.39	2.84	46.58	2.23	41.40	5.77	44.96	3.85
01/15/15	46.04	2.28					47.37	1.44	41.17	6.00	45.79	3.02
07/14/16							47.31	1.50	41.27	5.90		
06/21/17							47.71	1.10	46.07	1.10	45.94	2.87
06/19/18	45.76	2.56			45.85	1.38	47.79	1.02	42.16	5.01	45.60	3.21

TABLE 1
GROUNDWATER ELEVATION SUMMARY
MCNATTS CLEANERS
TAMPA, HILLSBOROUGH COUNTY, FLORIDA
FDEP FACILITY ID# 299502136

WELL NO.	MW042	MW043	MW044	MW045	MW046	MW047
DIAMETER	0.75	1	1	1	1	1
WELL DEPTH	10.00	31.00	15.00	15.00	31.00	15.00
SCREEN INTERVAL	5-10	26-31	5-15	5-15	26-31	5-15
TOC ELEVATION	50.23	48.33	48.35	48.67	47.85	47.70

DATE	ELEV	DTW	ELEV	DTW	ELEV	DTW	ELEV	DTW	ELEV	DTW	ELEV	DTW
04/12/99												
04/13/99												
04/14/99												
07/15/99												
07/16/99												
09/10/99												
10/09/99												
02/16/01												
02/17/01												
02/22/01												
01/03/02												
02/12/03												
04/01/03												
04/02/03	45.13	5.10										
04/25/03	45.31	4.92										
06/02/05	45.73	4.50										
11/18/05	45.73	4.50										
12/02/05	45.43	4.80										
05/16/06	43.59	6.64	42.47	5.86	42.59	5.76	42.31	6.36	41.77	6.08	41.77	5.93
11/28/06	45.16	5.07	44.55	3.78	44.59	3.76	36.58	12.09	44.19	3.66	44.16	3.54
06/04/07	44.44	5.79	39.90	8.43	39.95	8.40	43.47	5.20	43.23	4.62	43.21	4.49
01/28/08	43.98	6.25	43.28	5.05	43.56	4.79	43.18	5.49	42.80	5.05	42.79	4.91
03/05/09	43.37	6.86	41.67	6.66	42.77	5.58	42.80	5.87	41.83	6.02	41.77	5.93
09/25/09	45.63	4.60	44.71	3.62	44.90	3.45	44.89	3.78	44.85	3.00	44.84	2.86
03/05/10	45.27	4.96	45.60	2.73	45.65	2.7	45.47	3.2	45.33	2.52	45.00	2.7
06/21/10			45.68	2.65	45.77	2.58	45.65	3.02	45.35	2.5	45.42	2.28
11/02/10	43.43	6.8	43.12	5.21	43.25	5.1	43.02	5.65	42.45	5.4	42.43	5.27
09/26/11	45.62	4.61	45.65	2.68	45.71	2.64	35.67	13	45.30	2.55	45.31	2.39
10/03/12	45.67	4.56	45.71	2.62	45.73	2.62	45.76	2.91	45.73	2.12	45.78	1.92
05/16/13	44.04	6.19	44.03	4.3	44.07	4.28	44.01	4.66	43.84	4.01	43.93	3.77
12/03/13	45.20	5.03	44.96	3.37	45.04	3.31	45.01	3.66	44.85	3	44.86	2.84
01/15/15	46.22	4.01	45.80	2.53	45.96	2.39	45.87	2.8	45.42	2.43	45.48	2.22
07/14/16	45.85	4.38	45.27	3.06			45.62	3.05				
06/21/17	46.23	4.00	45.93	2.40	46.05	2.30	46.07	2.60	45.65	2.20	45.67	2.03
06/19/18	46.36	3.87	45.68	2.65	30.86	2.52	42.27	2.44	45.29	2.56	45.33	2.37

TABLE 1
GROUNDWATER ELEVATION SUMMARY
MCNATTS CLEANERS
TAMPA, HILLSBOROUGH COUNTY, FLORIDA
FDEP FACILITY ID# 299502136

WELL NO.	MW048	MW049	MW050	MW051	MW052	MW053
DIAMETER	0.75	0.75	0.75	1	1	1
WELL DEPTH	35.00	35.00	35.00	12.00	35.00	12.00
SCREEN INTERVAL	25-35	25-35	25-35	2-12	25-35	2-12
TOC ELEVATION	48.78	48.24	48.30	49.80	49.70	47.45

DATE	ELEV	DTW	ELEV	DTW	ELEV	DTW	ELEV	DTW	ELEV	DTW	ELEV	DTW
04/12/99												
04/13/99												
04/14/99												
07/15/99												
07/16/99												
09/10/99												
10/09/99												
02/16/01												
02/17/01												
02/22/01												
01/03/02												
02/12/03												
04/01/03												
04/02/03												
04/25/03												
06/02/05												
12/02/05												
05/16/06												
11/28/06	45.34	3.44	44.88	3.36	43.44	4.86						
06/04/07	44.51	4.27	43.93	4.31	43.92	4.38						
01/28/08	44.16	4.62	43.99	4.25	43.83	4.47						
03/05/09	42.75	6.03	41.81	6.43	41.71	6.59						
09/25/09	45.98	2.80	46.08	2.16	44.45	3.85						
03/05/10	44.56	4.22	45.86	2.38	45.86	2.44						
06/21/10	46.23	2.55	46.10	2.14	46.02	2.28						
11/02/10	43.53	5.25			43.69	4.61						
09/26/11			45.83	2.41	45.99	2.31						
10/03/12			46.00	2.24	45.85	2.45						
05/16/13	44.34	4.44	44.09	4.15	44.28	4.02						
12/03/13	45.27	3.51	45.17	3.07	45.15	3.15						
08/06/14							46.02	3.78	44.81	4.89		
01/15/15	46.67	2.11	46.14	2.1	46.20	2.1	46.46	3.34	46.27	3.43		
07/13/16							46.45	3.35	45.64	4.06	45.61	1.84
06/21/17			46.15	2.09			46.66	3.14	46.39	3.31	45.74	1.71
06/19/18			46.28	2.5	46.09	2.21	46.67	3.13	-52.95	3.25	45.72	1.73

Notes:

All Measurements = Feet

No Data = Blank

FP = Free Product

	No Shading indicates Upper Shallow Zone Well
	Gray Shading indicates Lower Shallow Zone Well
	Green Shading indicates Deep Zone Well

TABLE 2
GROUNDWATER FIELD PARAMETERS
MCNATTS CLEANERS
TAMPA, HILLSBOROUGH COUNTY, FLORIDA
FDEP FACILITY ID# 299502136

MW ID	Sample ID	Date Sampled	pH (SU)	Conductivity (µS/cm)	Temperature (°C)	DO (mg/L)	ORP (mV)	Turbidity (NTU)
MW001	GW161	07/16/99	6.19	134.6	29.2	6.78	49.1	
	GW216	10/22/01	5.68	193	28	0	-183	96
	GW235	01/04/02	5.84	293	25.7	0	-220	130
	GW332	05/18/06	5.98	233.7	28.2	0.67	-160	8.51
	GW642	07/14/16	5.7	264.8	32.5	0.33	-388	8.16
	GW652	06/22/17	5.52	242.9	31.1	0.42	-238	11.7
	GW668	06/20/18	5.5	256	33.06	0.31	-33	12.1
MW002	GW162	07/15/99	6.85	561	26.8	6.41		5.2
	GW208	02/17/01	6.56	610	26.1	0.7		9.45
	GW234	01/04/02	6.51	778	25.8	0.57	-228	0
	GW250	04/02/03	6.5	580	26.5	0.25	-54	7
	GW258	06/02/05	6.02	580	27.7	1.67	-179	15.21
	GW267	11/21/05	6.3	493.6	21.9	0.98		17
	GW313	05/17/06	6.31	610	25.1	0.32	-81	14
	GW356	11/29/06	5.96	504	26.5	0.21	-198	6.76
	GW372	06/05/07	6.34	482	27.6	0.31	-169	3
	GW386	01/28/08	6.28	428	26.7	0.7	-144	9.14
	GW395	03/04/09	5.78	233	21.6	0.86	-18	12.7
	GW423	09/11/09	6.23	583	28.1	0.21	-261	3.91
	GW434	03/04/10	5.98	331	20.5	0.78	-29	2.69
	GW453	06/22/10	4.78	554	29.9	0.18	-159	5.8
	GW559	10/04/12	6.61	473	27	0.33	-146	2.46
	GW575	05/16/13	6.31	509	26.8	0.31	-284	1.13
	GW595	12/03/13	6.65	473.2	26.9	1.2	-84	5.06
	GW617	01/16/15	6.07	283.7	26.1	0.68	-147	0.76
	GW651	06/22/17	6.21	582	28.4	0.45	-228	14.7
	GW667	06/20/18	6.06	598	29.27	0.37	-61	6.69
MW003	GW163	07/15/99	5.55	129.9	29.2	3.01		23.4
	GW203	02/16/01	6.56	513	27.2	0.67		22.8
	GW222	01/03/02	6.22	345.5	22.1	1.86	-56	29.8
	GW328	05/18/06	6.3	639	27.4	0.2	-20	7.1
	GW577	05/16/13	5.82	352.1	26.6	0.43	-281	4.11
	GW588	12/03/13	5.89	382	26.2	0.57	-160	2.35
MW004	GW027	04/13/99	6.73	732.2	26.5	1.81		1.64
	GW217	10/22/01	6.65	761	26.8	1.18		2.65
	GW333	05/18/06	6.85	252.1	29.3	0.29	-245	21.6
MW006	GW024	04/13/99	5.46	185.1	28.6	1.49	2.64	2.64
MW007	GW028	04/14/99	6.19	378.1	24.9	1.48	2.71	2.71
MW008	GW026	04/13/99	5.36	109.2	26.7	1.41	-211	1.65
	GW330	05/18/06	5.55	179	27.5	0.2	0	0
MW009	GW023	04/12/99	5.47	152.4	28.5	1.76		2.74
MW010	GW025	04/13/99	5.46	171.2	26.7	1.53		3.81
MW011	GW030	04/14/99	6.31	418.1	24.7	1.46		2.18
MW012	GW029	04/14/99	6.13	296.6	26.2	1.48		3.01
MW013	GW032	04/14/99	6.34	395.1	24.9	3.18		4.81
MW015	GW031	04/14/99	6.32	232	24.4	1.34		1.98
	GW035	04/14/99	6.21	448.6	25.9	1.69		2.01
MW016	GW034	04/14/99	5.81	296.8	25.8	1.39		2.64
MW017	GW033	04/14/99	5.42	173.4	24.6	1.52		2.08
MW018	GW164	07/15/99	7.14	446.1	28.2	2.11		4
	GW204	02/16/01	7.23	360.9	26	0.71		0.4
	GW230	01/04/02	7.12	428	24.7	1.02	-216	6
	GW243	04/02/03	7.58	313.2	25.5	1.02	83	0.91
	GW254	06/02/05	5.86	318	29.7	1.3	-156	2.02
	GW260	11/18/05	7.54	313.8	25.3	0.24	176	<0.1
	GW327	05/18/06	7.05	235	25.8	0.49	-58	3.1
	GW357	11/29/06	6.98	325	26	0.25	-208	6.25
	GW374	06/05/07	6.4	194	30.2	3.15	-18	1
	GW394	01/28/08	7.28	489	25.7	0.57	-182	2.79
	GW396	03/04/09	6.13	197	23.1	1.13	-168	8.9
	GW424	09/11/09	7.09	297	29.2	0.61	-116	1.24
	GW018	03/04/10	6.92	319	19.5	0.84	69	0.93
	GW454	06/22/10	6.24	354	32.4	1.81	-54	2.8
	GW565	10/04/12	6.91	673	28	0.29	-157	1.21
	GW580	05/16/13	6.92	688	27.8	0.49	-195	0.53
	GW589	12/03/13	7.11	632	26.4	0.31	-97	0.33
	GW618	01/16/15	6.98	471.1	24.6	1.52	41	0.15
MW019	GW165	07/16/99	6.86	743	26	2.37	530	530
	GW215	10/22/01	6.81	990	25.43	0	-171	520
	GW224	01/03/02	6.79	623	21.8	0.75	-83	130
	GW249	04/02/03	45-50	780	25.2	0.28	-20	2.35
	GW265	11/18/05	6.74	0.71	25.2	0.35	4	<0.1
	GW317	05/17/06	6.77	817	24	0.42	-25	8.4
	GW352	11/28/06	6.44	680	26.8	0.31	-114	13.83
	GW368	06/05/07	6.7	701	25.4	0.48	-111	2.5
	GW387	01/28/08	6.68	507	25.9	0.8	-150	5.58
	GW397	03/04/09	5.82	218	21.6	1.35	68	11.8
	GW425	09/11/09	6.62	779	27.1	0.4	-237	0.71
	GW436	03/04/10	6.72	790	21.9	0.19	34	0.85
	GW455	06/22/10	7.5	100.2	26.3	3.56	-48	13
	GW487	09/27/11	7.49	69	27.4	2.43	-90	42
	GW554	10/03/12	6.66	591	25.5	0.22	-158	18.4
	GW573	05/16/13	6.75	821	25.3	0.33	-161	6.49
	GW593	12/03/13	6.89	586	26.8	0.17	-116	10.6
	GW611	01/15/15	6.37	830	24.2	0.45	-109	16.9
	GW648	06/21/17	8.30	526	27.8	0.27	-138	14.2
	GW673	06/20/18	6.6	387	27.12	0.19	-89	8.82
MW020	GW155	07/09/99	6.84	726	27	0.99		263
MW021	GW156	07/10/99	6.93	265.8	25.9	1.94		290
MW022	GW157	07/09/99	6.6	609	25.7	3.34		4.41
MW023	GW158	07/09/99	6.99	1283	26.1	3.76		34.2
MW024	GW159	07/09/99	6.66	858	26.2	3.2		142
	GW244	04/02/03	7.17	1544	22.1	0.2	-163	3

TABLE 2
GROUNDWATER FIELD PARAMETERS
MCNATTS CLEANERS
TAMPA, HILLSBOROUGH COUNTY, FLORIDA
FDEP FACILITY ID# 299502136

MW ID	Sample ID	Date Sampled	pH (SU)	Conductivity (µS/cm)	Temperature (ºC)	DO (mg/L)	ORP (mV)	Turbidity (NTU)
MW025	GW166	07/15/99	4.96	129.3	28.6	1.59	72	72
	GW200	10/21/99	4.65	85	27	0.56	57	57
	GW207	02/16/01	5.07	93.5	27.7	0.6	30.2	30.2
	GW225	01/03/01	4.8	86.2	26.6	0.5	12	4.9
	GW239	04/01/03	4.71	82.7	26.9	0.19		-184
	GW252	06/02/05	5.58	98	29.1	1.02	-118	17.36
	GW259	11/18/05	4.71	98.2	27.8	0.24	-165	11
	GW318	05/17/06	4.83	76	28.2	1.44	-128	10.33
	GW350	11/28/06	4.53	101	27.6	0.34	-114	7.51
	GW366	06/04/07	5.53	107	30.8	0.28	-194	6
	GW381	01/28/08	5.68	114	25.6	0.8	5.9	-120
	GW398	03/05/09	6.4	106	24.1	1.49	23	5.5
	GW413	09/11/09	4.97	116	31.1	0.39	-214	7.19
	GW437	03/04/10	4.7	2196	19.3	0.14	-172	800
	GW456	06/22/10	5.29	1008	28.6	0.66	-135	40
	GW473	11/02/10	6.11	730	26.9	0.1	109	-247
	GW484	09/26/11	5.61	604	28.3	2.54	-230	38
	GW563	10/04/12	5.36	235	29	0.36	-216	11.16
	GW572	05/16/13	5.47	233	30.7	0.27	-231	14.1
	GW586	12/03/13	5.42	190	27.9	1.14	-163	13
	GW608	01/15/15	4.98	172.1	25.9	0.59	-170	3.63
	GW623	01/29/15	5.12	147	22.8	0.74	-95	3.13
	GW635	07/13/16	5.09	138.4	31.3	0.38	-148	4.42
	GW644	06/21/17	4.72	140.9	31.7	0.22	-264	3.96
	GW664	06/20/18	4.87	143	34.3	0.23	-50	5.84
MW026	GW167	07/15/99	4.82	123.9	28.6	2.21		51.1
	GW209	02/17/01	4.82	94.4	26.1	0.89		60.2
	GW232	01/04/02	4.46	112	26.4	0.37	-99	120
	GW312	05/17/06	5.02	84.7	26.7	0.71	-160	33.3
MW027	GW168	07/15/99	4.81	407.9	28.4	1.15		57.3
	GW212	02/17/01	4.37	586	27.2	0.8		202
	GW629	01/29/15	4.2	352.7	27.9	0.55	148	0.99
MW028	GW169	07/15/99	4.86	199.2	27.6	1.93		617
	GW219	10/22/01	4.59	188	26.2	0	-60	-260
MW029	GW170	07/15/99	4.77	250.6	27.1	2.59	230	230
	GW211	02/17/01	4.56	184	24.66	0.9	158	158
MW030	GW174	08/31/99	7.22	428.3	28.3	0.69	1143	1143
	GW189	09/11/99	7.12	408.9	28.6	0.78	9.2	9.2
	GW214	10/22/01	7.24	451	25.2	0.7	3.2	3.2
	GW227	01/04/02	7.12	351.5	23.9	1.7	2.89	-35
	GW247	04/02/03	7.29	436.7	24.3	0.22	2.22	-93
	GW256	06/02/05	5.21	473	26.8	1.59	-18	3.92
	GW262	11/18/05	7.07	0.482	28.4	0.25	84	0.37
	GW319	05/17/06	7.17	615	24	0.37	-52	7.2
	GW353	11/28/06	6.83	363	26.5	0.45	3.44	-35
	GW369	06/05/07	7.12	376	25.5	0.78	31	3
	GW388	01/28/08	7.12	331	26.2	0.81	-158	4.67
	GW399	03/05/09	6.39	270	22.5	0.93	101	5.4
	GW426	09/11/09	6.97	481	26.5	0.56	-139	0.73
	GW438	03/05/10	70-80	474	21.2	0.91	102	0.7
	GW457	06/22/10	6.77	436.3	25.9	2.15	75	3.4
	GW486	09/27/11	7.66	102	26.6	3.61	-48	16
	GW553	10/03/12	6.86	315	24.3	0.48	-26	3.4
	GW569	05/16/13	7.05	466	24.2	0.61	0	1.94
	GW590	12/03/13	7.14	498	25.9	1.13	-86	1.8
	GW612	01/15/15	6.75	440	22.5	1.21	-41	2.9
	GW649	06/21/17	7.60	511	28.3	0.26	-104	0.87
	GW674	06/20/18	7.09	529	27.41	0.72	-27	4.4
MW031	GW187	09/11/99	7	583	29.1	0.72		541
	GW218	10/22/01	6.65	1150	23.5	7.88	-149	57
	GW233	01/04/02	6.98	700	21.9	1.83	-92	48.88
	GW427	09/11/09	6.71	837	25.9	0.04	-325	8.08
	GW439	03/03/10	6.82	818	20.7	0.3	-159	9.16
	GW458	06/22/10	6.85	694	27.1	0.27	-230	11
	GW560	10/04/12	6.74	738	27.1	0.37	-196	8.72
	GW578	05/16/13	6.79	652	25.4	0.36	-205	1.05
	GW594	12/03/13	6.81	762	24.4	0.69	-127	1.37
	GW607	01/15/15	6.85	581	22.5	0.52	-116	1.5
MW032	GW188	09/11/99	6.85	390.8	28.5	0.87		21.3
	GW210	02/17/01	7.29	4.35	25.2	2.6		1.54
	GW229	01/04/02	6.87	378.7	24.5	1.1	7.23	7.23
	GW334	05/24/06	7.05	474	27.3	0.2	-69	7.1
MW033	GW186	09/10/99	7.11	368.4	28.5	0.89		11.5
	GW205	02/16/01	7	430.9	27.3	0.59		2.3
	GW228	01/04/02	6.92	531	26.9	1.12	-162	19
	GW324	05/18/06	6.91	403	26.9	0.98	-92	1.36
	GW365	06/04/07	7.97	443	30.5	0.32	-93	7
	GW383	01/28/08	7.08	342	26.7	0.7	5.99	-127
	GW400	03/05/09	5.98	111	24.4	1.19	-70	9.8
	GW428	09/11/09	7.01	293	29.9	0.76	-60	0.48
	GW440	03/04/10	6.89	293	20.3	0.89	5	2.88
	GW459	06/22/10	6.78	295.3	29.8	0.49	-104	3.3
	GW472	11/02/10	7.16	321	27.6	0.66	0.68	-199
	GW482	09/26/11	6.95	253	32.5	3.04	4	1.27
	GW562	10/04/12	6.91	254	29.3	0.59	92	2.77
	GW568	05/16/13	6.86	626	28.8	0.33	-211	1.45
	GW584	12/03/13	6.95	657	27.6	0.83	-132	1.51
	GW610	01/15/15	6.96	617	25.9	0.64	-123	0.43
	GW662	06/20/18	6.63	724	28.57	0.24	-53	0.05
MW034	GW185	09/10/99	7	524	28.1	0.61	156.6	156.6
	GW213	02/17/01	6.82	592	26	0.61	153.2	153.2
	GW614	01/16/15	7.57	302	20	1.43	25	5.35
MW035	GW192	10/06/99	6.33	373	29.2	1.5	64.8	64.8
	GW198	10/21/99	5.76	315	27.8	1.68	292	292
	GW206	02/16/01	5.74	247	24	1.34	21.1	21.1
	GW226	01/03/02	5.55	245.9	22.2	1.32	-9	10.7
	GW335	05/24/06	5.82	273	29.2	1.23	80	72

TABLE 2
GROUNDWATER FIELD PARAMETERS
MCNATTS CLEANERS
TAMPA, HILLSBOROUGH COUNTY, FLORIDA
FDEP FACILITY ID# 299502136

MW ID	Sample ID	Date Sampled	pH (SU)	Conductivity (µS/cm)	Temperature (ºC)	DO (mg/L)	ORP (mV)	Turbidity (NTU)
MW036	GW191	10/06/99	6.16	530	28.9	1.21	42.4	
	GW220	10/22/01	5.7	359	22.9	0	-180	38
	GW231	01/04/02	5.77	400	24.3	2.11	-167	35
	GW316	05/17/06	5.89	230.9	27.4	0.8	46	8.8
	GW628	01/29/15	6.65	1021	21.7	0.18	207	4.35
	GW669	06/20/18	6.81	646	31.34	0.42	-89	4.07
MW037	GW242	04/01/03	6.56	524	21.6	0.15	-54	45.5
	GW329	05/18/06	5.84	147	24.9	0.18	25	3.9
	GW429	09/11/09	6.39	411	27.6	0.26	-243	0.91
	GW441	03/03/10	5.79	404	16.9	0.19	-48	1.24
	GW460	06/22/10	6.13	541	29.6	0.19	-100	3.04
MW038	GW241	04/01/03	4.44	184.3	23.6	0.22	87	0.1
	GW251	06/02/05	5.94	151	23.6		-104	3.14
	GW266	11/18/05	4.43	144.1	24.3	0.2	-134	<0.1
	GW314	05/17/06	4.53	142.6	23.4	0.8	-103	2.26
	GW349	11/28/06	3.81	133	25.2	0.29	-26	5.64
	GW362	06/04/07	4.85	179	27.2	0.63	-151	2.5
	GW378	01/28/08	4.74	170	23.5	1.52	-86	0.62
	GW401	03/05/09	6.76	113	21.6	0.92	33	13.8
	GW430	09/11/09	4.69	141	26.1	0.31	-211	1.19
	GW442	03/03/10	4.71	151	19.5	0.17	-105	0.73
	GW461	06/22/10	4.35	149	27.4	0.19	-113	3.8
MW039	GW248	04/02/03	11.48	681	23.1	0.25	-210	86.2
	GW255	06/02/05	6.19	351	26.1	1.17	-201	7.26
	GW263	11/18/05	7.39	309.1	27.2	0.07	-279	5.6
	GW355	11/28/06	6.69	438	26.1	0.19	-236	8.13
	GW371	06/05/07	6.94	595	25.9	0.37	-114	1
	GW390	01/28/08	6.78	408	25.4	0.6	177	6.82
	GW402	03/05/09	6.06	228	20.3	1.3	51	10.1
	GW414	09/10/09	6.75	471	27.9	0.33	-274	13
	GW443	03/05/10	6.71	805	17.1	0.49	62	1.09
	GW462	06/22/10	6.54	750	27.6	0.18	-171	3.7
	GW474	11/03/10	6.73	743	30.4	0.83	4	-171
	GW485	09/27/11	6.49	550	27	2.58	-128	2
	GW555	10/03/12	6.8	283	24.8	0.4	-78	3.68
	GW571	05/16/13	6.79	567	24.5	0.57	-28	7.16
	GW591	12/03/13	7.05	405.7	26.2	0.22	-81	1.58
	GW616	01/16/15	6.69	812	21.6	0.82	-132	1.71
	GW625	01/29/15	7.01	618	20.7	0.11	194	2.55
	GW640	07/14/16	6.67	750	29.2	0.11	-359	7.07
	GW650	06/21/17	7.85	543	29.6	0.09	-204	14.8
	GW672	06/20/18	6.94	425	28.72	0.24	-71	11.3
MW040	GW246	04/02/03	4.56	205.7	24.2	0.18	88	54
	GW257	06/02/05	5.37	181	25.5	1.58	-94	8.17
	GW264	11/18/05	4.97	132.9	27	0.27	-36	<0.1
	GW315	05/17/06	5.01	198	23.2	0.35	-148	3.8
	GW354	11/28/06	4.76	202	26.1	0.25	-69	1.28
	GW370	06/05/07	5.2	168	25.2	0.53	-82	1
	GW389	01/31/08	4.96	229	26.4	0.61	-174	1.64
	GW403	03/05/09	6.73	161	21.5	0.87	108	12.4
	GW415	09/10/09	3.22	191	26.2	0.2	-230	1.74
	GW444	03/05/10	4.81	518	21.2	0.14	-174	18.4
	GW463	06/22/10	4.56	437.1	25.8	0.11	-154	800
	GW475	11/03/10	5.25	518	27.9	0.05	73	-210
	GW552	10/05/11	5.98	643	26.4	2.04	-105	2.99
	GW558	10/04/12	6.45	423	24.9	0.58	-163	8.02
	GW579	05/16/13	6.72	906	28.9	0.77	-188	13.91
	GW592	12/03/13	6.3	688	27.2	1.08	-190	17.1
	GW615	01/16/15	5.74	372.3	22.5	0.67	-158	12.9
	GW624	01/29/15	5.74	333.3	20.3	0.11	142	3.77
	GW639	07/14/16	6.37	826	29.2	0.8	-153	7.5
	GW647	06/22/17	5.45	512	28.8	0.74	-188	16.3
	GW671	06/20/18	6.48	796	27.84	1.48	-94	18.2
MW041	GW240	04/01/03	5.56	170.1	8.9	0.23	-201	26.2
	GW331	05/18/06	4.78	108.9	27.2	1.44	-97	18.37
MW042	GW253	06/02/05	5.71	946	27.7	1.2	-171	8.47
	GW261	11/18/05	6.56	1.59	23.3	0.27	-21	5.7
	GW321	05/17/06	6.77	675	26.8	0.17	-115	3.8
	GW343	10/24/06	6.49	789	21.9	0.51	-105	11
	GW359	11/29/06	6.56	850	24.6	0.19	-148	2.29
	GW391	01/28/08	7.01	2539	26.1	0.52	-160	12
	GW404	03/04/09	5.65	303	23.1	1.43	-119	16.4
	GW416	09/10/09	6.86	988	30.1	0.18	-270	2.54
	GW445	03/04/10	6.93	925	14.6	0.17	-99	2.01
	GW464	06/22/10	6.73	930	32.4	0.19	-89	6.4
	GW478	01/14/11	6.43	487	18.1	1.19	-73	7.7
	GW488	09/27/11	6.56	898	28.5	2.18	-129	0.77
	GW564	10/04/12	6.71	839	28.2	0.26	-164	2.13
	GW587	12/03/13	7.11	1232	25.4	0.26	-95	0.66
	GW643	07/14/16	6.74	3007	28.7	10	-114	5.12
	GW654	06/22/17	6.99	939	32.7	0.21	-333	3.94
	GW 666	06/20/18	7.06	924	27.39	0.16	-70	8.06
MW043	GW326	05/18/06	4.94	75.6	28.2	1.51	-125	10.84
	GW342	10/24/06	5.04	102	26.6	0.42	-48	7.9
	GW384	01/28/08	4.89	85	27.1	0.94	-135	17.58
	GW405	03/05/09	6.46	114	24.9	1.34	38	11.8
	GW417	09/10/09	4.85	82	32.6	0.69	-173	0.8
	GW446	03/04/10	4.94	84	22.8	0.73	-98	7.66
	GW465	06/22/10	4.5	83	30.6	0.24	-266	3.4
	GW479	01/14/11	5.2	80	25.14	1.4	-28	19.1
	GW533	09/26/11	4.73	87	31.5	1.31	-100	5
	GW556	10/03/12	4.91	77	28.3	0.33	-78	3.18
	GW574	05/16/13	4.84	85	29.1	0.3	-190	2.74
	GW583	12/03/13	4.69	76.5	27.3	0.28	-121	1.4
	GW613	01/16/15	4.9	90.5	24.5	0.46	-134	1.83
	GW626	01/29/15	5.09	206.7	25.1	0.44	204	3.79
	GW634	07/13/16	4.76	73.6	30.7	0.4	-128	10.6
	GW646	06/21/17	4.44	80.1	32.5	0.49	-234	2.99
	GW663	06/20/18	4.6	84	29.57	0.23	-26	0.06

TABLE 2
GROUNDWATER FIELD PARAMETERS
MCNATTS CLEANERS
TAMPA, HILLSBOROUGH COUNTY, FLORIDA
FDEP FACILITY ID# 299502136

MW ID	Sample ID	Date Sampled	pH (SU)	Conductivity (µS/cm)	Temperature (°C)	DO (mg/L)	ORP (mV)	Turbidity (NTU)
MW044	GW325	05/18/06	5.4	109.4	27.8	0.78	-157	14.14
	GW373	06/05/07	9.24	139	29.3	0.27	11.6	68
	GW385	01/28/08	6.4	325	26.7	1.29	-144	4.61
	GW406	03/05/09	6.34	160	24.2	1.44	25	16.3
	GW418	09/10/09	6.51	462	32.1	0.43	-79	15
	GW447	03/04/10	6.6	448	19.5	0.27	-221	1.13
	GW466	06/22/10	6.33	479	31.5	0.24	-229	3.4
	GW476	11/03/10	6.19	380	29.2	0.16	3.5	-235
	GW481	09/26/11	6.35	587	32.9	1.25	-227	1.07
	GW557	10/03/12	6.53	345	26.9	0.48	-62	4.88
	GW576	05/16/13	5.88	241	30	0.19	-234	2.72
	GW582	12/03/13	6.67	539	27.3	0.96	-171	5.58
	GW627	01/29/15	6.95	413.5	24.5	0.1	134	1.56
MW045	GW323	05/17/06	5.3	141.3	29.5	0.69	-122	9.97
	GW367	06/04/07	6.02	184	33.1	0.18	-106	9
	GW382	01/28/08	6.46	279	24	1.5	-111	8.14
	GW407	03/05/09	6.17	146	23	0.94	40	19.8
	GW419	09/10/09	6.6	362	33.3	0.37	-119	8.29
	GW448	03/04/10	6.67	382	16.7	0.84	23	7.34
	GW467	06/22/10	6.48	832	31.3	0.29	-162	5.1
	GW477	11/03/10	6.35	466	29.3	0.96	0.63	-156
	GW483	09/26/11	6.3	606	31.9	1.28	-10	0.81
	GW561	10/04/12	6.36	486	30.4	0.67	-52	5.15
	GW570	05/16/13	6.16	438	31.7	0.1	-254	1.84
	GW585	12/03/13	6.49	417.5	28.2	0.19	-140	1.54
	GW609	01/15/15	6.06	393.2	24.3	0.66	-151	1.21
	GW622	01/26/15	6.12	381	24.6	0.64	-106	1.27
	GW636	07/13/16	6.04	362	34.1	0.31	-109	4.05
	GW645	06/21/17	5.95	492.8	32.8	0.71	-231	14.6
	GW661	06/20/18	6.07	364	31.86	0.39	86	2.3
MW046	GW311	05/16/06	4.89	104.9	24.5	0.87	-211	16.34
	GW364	06/04/07	4.75	145	27.1	0.32	-162	9
	GW379	01/28/08	4.63	141	25.1	1.17	-91	7.75
	GW420	09/10/09	3.82	114	26.9	0.38	-227	9.67
	GW449	03/03/10	4.65	130	20.9	0.49	9	0.85
	GW468	06/22/10	4.08	131	26.7	0.3	-125	4.8
MW047	GW310	05/16/06	5.58	245.9	23.4	1.11	-210	7.58
	GW363	06/04/07	6.24	278	27.6	0.46	-121	3.5
	GW380	01/28/08	5.8	236	25.4	0.84	-100	6.89
	GW409	03/05/09	5.78	136	22.1	1.38	-57	6.3
	GW421	09/10/09	5.71	268	28.4	0.31	-251	0.74
	GW450	03/03/10	5.58	275	18	0.25	-88	1.19
	GW469	06/22/10	5.39	239	27.9	0.22	-163	2.2
MW048	GW344	11/02/06	5	341	25.8	0.18	-63	6.4
	GW408	03/05/09	5.92	139	20.7	1.47	31	8.3
MW049	GW345	11/02/06	4.87	129	26.5	0.17	-61	12
	GW422	09/10/09	4.54	196	28.7	0.45	-193	5.84
	GW451	03/04/10	5.2	172	20.6	0.35	-100	9.89
	GW470	06/22/10	4.32	183.2	27.4	0.21	-112	4.1
MW050	GW346	11/02/06	4.93	74	28.8	0.06	-119	17
MW051	GW605	08/06/14	5.31	4058	30.2	0.47	-81	11.6
	GW620	01/16/15	6.08	4809	23	1.47	-151	14.8
	GW630	01/29/15	6.1	4552	23.8	0.18	142	5.29
	GW638	07/13/16	5.91	1583	30.9	1.08	-103	37.8
	GW655	06/22/17	5.53	3341	33.5	0.43	-333	359
	GW657	01/29/18	5.64	2307	22.41	0.83	14.4	>1000
	GW659	04/30/18	5.55	2631	28.89	0.75	-188	945
	GW665	06/20/18	5.35	2936	33.34	0.85	-161	88.9
MW052	GW604	08/06/14	5.48	493	29.9	0.82	-78	15.9
	GW619	01/16/15	4.88	352.1	24.9	0.66	-75	11.5
	GW631	01/29/15	4.75	317.2	24.4	0.17	173	4.15
	GW637	07/13/16	4.5	311.9	28.8	0.23	-75	1.89
	GW656	06/22/17	4.69	490.3	35.2	0.26	-325	7.87
	GW658	01/29/18	5.25	320	24.27	0.63	2.4	105
	GW660	04/30/18	5.36	333	29.6	0.41	-189.9	85.2
	GW670	06/20/18	5.35	315	39.34	0.31	-230	11.7
MW053	GW641	07/14/16	6.22	623	33	0.35	-370	2.8
	GW653	06/22/17	6.1	450.4	29.7	0.34	-299	9.46
	GW670	06/20/18	5.35	315	39.34	0.31	-230	11.7
IW101	GW597	06/27/14	5.53	596	27.7	0.48	-113	65.3
IW102	GW598	06/27/14	6.19	998	28.4	0.84	-78	106
IW105	GW600	06/27/14	5.99	3372	34.9	1.36	-185	874
IW108	GW601	06/27/14	6.17	312	31	0.44	-118	684
IW110	GW602	06/27/14	5.87	665	30.2	1.12	-186	37.5
IW113	GW599	06/27/14	5.47	480	29.3	0.54	-79	540

Notes:
DO - Dissolved Oxyger
ORP - Oxidation-Reduction Potentia
SU-Standard units
µS/cm-microsiemens per centimeter
°C-degrees Celsius

Most recent sampling even

mg/L-milligrams per liter
mV-millivolts
NTU-Nephleometric turbidity units

TABLE 3
GROUNDWATER MONITORING WELL ANALYTICAL SUMMARY
MCNATTS CLEANERS
TAMPA, HILLSBOROUGH COUNTY, FLORIDA
FDEP FACILITY ID# 299502136

Well	Sample ID	Date Sampled	Sample Interval	PCE (µg/L)	TCE (µg/L)	cis-1-2-DCE (µg/L)	trans-1-2-DCE (µg/L)	1,1-DCE (µg/L)	Vinyl Chloride (µg/L)	Benzene (µg/L)	Ethyl-benzene (µg/L)	Total Xylenes (µg/L)	Toluene (µg/L)
Groundwater Cleanup Target Levels				3	3	70	100	7	1	1	30	20	20
Natural Attenuation Default Source				300	300	700	1000	70	100	100	300	200	200
MW001	GW161	07/16/99	34-39	< 0.38	< 0.27	< 0.19	< 0.21	< 0.18	< 0.28				
	GW216	02/22/01		< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 3	< 1
	GW235	01/04/02		1.2	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 3	< 1
	GW332	05/18/06		3.3	< 0.13	< 0.098	< 0.11	< 0.18	< 0.31				
	GW642	07/14/16		0.400 U	0.400 U	0.400 U	0.400 U	0.400 U	0.400 U				
	GW652	06/22/17		0.400 U	0.400 U	0.400 U	0.400 U	0.400 U	0.400 U				
	GW668	06/20/18		0.400 U	0.400 U	0.400 U	0.400 U	0.400 U	0.400 U				
MW002	GW162	07/16/99	35-40	23.2	31.8	76.1	1.1	< 0.18	4.6				
	GW208	02/17/01		190	210	270	3.8	< 1	26	1	< 1	< 3	< 1
	GW234	01/04/02		470	510	580	5.7	< 1	39	1.5	< 1	< 3	< 1
	GW250	04/02/03		289	790	936	18.5	1.1	90.1				
	GW258	06/02/05		413	844	971	9.5	1.2	102	< 1	< 1	< 3	< 1
	GW267	11/21/05		368	1,020	1,210	16.5	1.4	123	< 1	< 1	< 3	< 1
	GW356	11/29/06		463	759	1,120	11.8	1.8	83.6	< 1	< 1	< 3.8	< 5
	GW372	06/05/07		213	283	1,800	23.1	4.6	94.3	< 0.21	< 0.25	< 0.76	< 0.23
	GW386	01/31/08		237	208	1,800	19.1	3.1 I	85.8	< 2.6	< 3.4	< 2.6	< 2.2
	GW395	03/04/09		620	490	960	11 J3R	< 2.4	71	< 1.6	2.4 I	< 4.3	< 4.7
	GW423	09/11/09		132	306	1,710	17.3	3.4	109				
	GW434	03/04/10		106	384	1,470	17.2	3.9	106	< 0.85	< 1.1	< 0.7	< 3.7
	GW453	06/22/10		83.8	408	1,470	17.9	3.5	128	< 0.85	< 1.1	< 3.7	< 0.7
	GW559	10/04/12		2 I	16.6	684	7.4	1.3 I	74.7				
	GW575	05/16/13		4.1	85.9	1,230	18	2.5	93.9				
	GW595	12/03/13		2.2 I	48	1,540	20.2	3.1 I	130				
	GW617	01/16/15		9.8	141	1,060	11.8	2	124				
	GW651	06/22/17		4.54	53.8	594	6.44	0.910 I	194				
	GW667	06/20/18		9.44	45.4	559	8.5	0.94 I	105				
MW003	GW163	07/16/99	33-38	< 0.38	< 0.27	< 0.19	< 0.21	< 0.18	< 0.28				
	GW203	02/16/01		< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 3	< 1
	GW222	01/03/02		< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 3	< 1
	GW328	05/18/06		3.8	< 0.13	< 0.098	< 0.11	< 0.18	< 0.31				
	GW566	10/04/12		0.21 U	0.19 U	3.2	0.33 U	0.19 U	0.18 U				
	GW577	05/16/13		0.21 U	0.44 I	7.4	0.33 U	0.19 U	0.18 U				
	GW588	12/03/13		0.21 U	0.52	9.6	0.33 U	0.19 U	0.18 U				
MW004	GW027	04/13/99	45-50	19.3	11.7	32.1	< 0.5	< 0.6	< 0.6	9.36	< 5	< 5	< 5
	GW217	02/22/01		11	15	42	< 1	< 1	< 1	5.2	< 1	< 3	< 1
	GW333	05/18/06		2	< 0.13	< 0.098	< 0.11	< 0.18	< 0.31				
MW006	GW024	04/13/99	2-12	< 0.5	< 0.8	< 0.7	< 0.5	< 0.6	< 0.6	27,700	2,970	16,400	38,600
MW007	GW028	04/14/99	2-10	< 0.5	< 0.8	< 0.7	< 0.5	< 0.6	< 0.6	15,700	1,060	4,590	8,510
MW008	GW026	04/13/99	2-12	1.21	17.8	18.5	< 0.5	< 0.6	< 0.6	< .6	< 5	< 5	< 5
	GW330	05/18/06		2.4	< 0.13	10.6	< 0.11	< 0.18	< 0.31				
MW009	GW023	04/13/99	2-12	< 0.5	< 0.8	< 0.7	< 0.5	< 0.6	< 0.6	< 0.6	< 5	< 5	< 5
MW010	GW025	04/13/99	2-12	< 0.5	< 0.8	< 0.7	< 0.5	< 0.6	< 0.6	12,900	1,250	5,840	15,200
MW011	GW030	04/14/99	2-12	< 0.5	< 0.8	< 0.7	< 0.5	< 0.6	< 0.6	< 0.6	< 5	< 5	< 5
MW012	GW029	04/14/99	2-12	< 0.5	< 0.8	< 0.7	< 0.5	< 0.6	< 0.6	7.45	< 5	< 5	< 5
MW013	GW032	04/14/99	3-13	< 0.5	< 0.8	< 0.7	< 0.5	< 0.6	< 0.6	< 0.6	< 5	< 5	< 5
MW014	GW031	04/14/99	2-12	< 0.5	< 0.8	< 0.7	< 0.5	< 0.6	< 0.6	< 0.6	< 5	< 5	< 5
MW015	GW035	04/14/99	2-12	< 0.5	< 0.8	< 0.7	< 0.5	< 0.6	< 0.6	< 0.6	< 5	< 5	< 5
MW016	GW034	04/14/99	2-12	< 0.5	< 0.8	< 0.7	< 0.5	< 0.6	< 0.6	< 0.6	< 5	< 5	< 5
MW017	GW033	04/14/99	2-12	< 0.5	< 0.8	< 0.7	< 0.5	< 0.6	< 0.6	< 0.6	< 5	< 5	< 5
MW018	GW137	07/06/99	45-50	< 0.5	< 0.8	< 0.7	< 0.5	< 0.6	< 0.6	< 0.6	< 5	< 5	< 5
	GW139	07/06/99		< 0.5	< 0.8	< 0.7	< 0.5	< 0.6	< 0.6	< 0.6	< 5	< 5	< 5
	GW164	07/16/99		82.8	14.8	2.2	< 0.21	< 0.18	< 0.28				
	GW204	02/16/01		11	15	220	< 1	< 1	6.8	< 1	< 1	< 3	< 1
	GW230	01/04/02		31	46	340	1	< 1	14	< 1	< 1	< 3	< 1
	GW243	04/02/03		11.9	21.8	176	<1	< 1	8.1				
	GW254	06/02/05		< 1	< 1	1.9	< 1	< 1	< 1	< 1	< 1	< 3	< 1
	GW260	11/18/05		< 1	< 1	30.8	< 1	< 1	6.8	< 1	< 1	< 3	< 1
	GW327	05/18/06		6.5	< 0.13	4.4	< 0.11	< 0.18	1.4				
	GW357	11/29/06		< 0.5	< 0.13	28.9	< 0.11	< 0.18	9.6	< 0.1	< 0.12	< 0.38	<0.5
	GW374	06/05/07		< 0.27	< 0.23	< 0.29	< 0.25	< 0.24	< 0.21	< 0.21	< 0.25	< 0.76	<0.23
	GW394	01/31/08		< 0.31	< 0.33	< 0.28	< 0.23	< 0.25	0.24 J3R	< 0.26	< 0.34	< 0.26	<0.22
	GW396	03/04/09		1.3	< 0.42	< 0.29	0.23 J3R	< 0.24	< 0.28	< 0.16	0.69 I	< 0.43	0.44 I
	GW424	09/11/09		2.8	7.5	417	0.53 I	1.5	12.6				
	GW435	03/04/10		1.3	0.74	12.2	< 0.33	< 0.19	< 0.18	< 0.17	< 0.22	<0.73	< 0.14
	GW454	06/22/10		1.7	0.56	2	< 0.33	< 0.19	< 0.18	< 0.17	< 0.22	< 0.73	< 0.14
	GW565	10/04/12		0.21 U	0.19 U	0.29 I	0.33 U	0.19 U	0.18 U				
	GW580	05/16/13		0.21 U	0.19 U	0.69	0.33 U	0.19 U	0.18 U				
	GW589	12/03/13		0.21 U	0.19 U	0.19 U	0.33 U	0.19 U	0.23 I				
	GW618	01/16/15		0.29 I	0.39 I	0.19 U	0.33 U	0.19 U	0.18 U				

TABLE 3
GROUNDWATER MONITORING WELL ANALYTICAL SUMMARY
MCNATTS CLEANERS
TAMPA, HILLSBOROUGH COUNTY, FLORIDA
FDEP FACILITY ID# 299502136

Well	Sample ID	Date Sampled	Sample Interval	PCE (µg/L)	TCE (µg/L)	cis-1-2-DCE (µg/L)	trans-1-2-DCE (µg/L)	1,1-DCE (µg/L)	Vinyl Chloride (µg/L)	Benzene (µg/L)	Ethyl-benzene (µg/L)	Total Xylenes (µg/L)	Toluene (µg/L)
Groundwater Cleanup Target Levels				3	3	70	100	7	1	1	30	20	20
Natural Attenuation Default Source				300	300	700	1000	70	100	100	300	200	200
MW019	GW154	07/07/99	45-50	1,205	470	211	1.39	< 0.6	35	< 0.6	<5	<5	<5
	GW165	07/16/99		2,430	623	385	3	0.96	23				
	GW215	02/22/01		4,000	990	530	6.4	1.1	48	< 1	<1	<3	<1
	GW224	01/03/02		1,100	460	1,000	5.1	1.6	13	< 1	<1	<3	<1
	GW249	04/02/03		1,500	1,200	1,630	12.1	3.7	73.2				
	GW265	11/18/05		7.4	108	430	3.5	1.6	13.2	< 1	<1	<3	<1
	GW317	05/17/06		7.2	14	687	7.1	< 0.18	22.9				
	GW352	11/28/06		< 0.5	2.1	1,130	5.6	1.3	36.5	< 0.1	< 0.12	< 0.38	< 0.5
	GW368	06/05/07		< 0.27	2.1	961	6.2	< 0.24	38.9	< 0.21	< 0.25	< 0.76	< 0.23
	GW387	01/31/08		< 0.31	0.94 I	489	4.5	1.1	43.8	< 0.26	< 0.34	< 0.26	< 0.22
	GW397	03/04/09		20	29	310	< 1.2	< 1.2	< 1.4	< 0.8	1.2 I	< 2.2	< 2.4
	GW425	09/11/09		< 0.35	2.2	241	2	0.46 I	42.9				
	GW436	03/04/10		< 0.21	1.7	210	1	0.44 I	8.9	< 0.17	< 0.22	< 0.73	< 0.14
	GW455	06/22/10		< 0.21	< 0.19	1.4	< 0.33	< 0.19	< 0.18	< 0.17	< 0.22	< 0.73	< 0.14
	GW487	09/27/11		0.21 U	0.19 U	0.19 U	0.33 U	0.19 U	0.18 U				
	GW554	10/03/12		0.21 U	0.19 U	495	4.3	0.91	156				
	GW573	05/16/13		0.21 U	0.19 U	718	5.6	0.95	298				
	GW593	12/03/13		1 U	0.95 U	425	3	0.97 I	176				
	GW611	01/15/15		1.8 I	0.95 U	1190	7.9	2.1 I	622				
	GW648	06/21/17		0.400 U	0.400 U	125	1.90	0.400 U	149				
	GW673	06/20/18		0.400 U	0.400 U	0.400 U	0.65 I	0.400 U	1.05				
MW020	GW155	07/09/99	0-3.5	< 0.38	7.2	0.87	< 0.21	< 0.18	< 0.28				
MW021	GW156	07/10/99	0-3.5	< 0.38	< 0.27	< 0.19	< 0.21	< 0.18	< 0.28				
MW022	GW157	07/09/99	0-3.5	< 0.38	< 0.27	< 0.19	< 0.21	< 0.18	< 0.28				
MW023	GW158	07/09/99	0-3.5	< 0.38	0.7	109	0.92	< 0.18	9.6				
MW024	GW159	07/09/99	0-3.5	97,000	5,660	18,500	121	< 90	8,870				
	GW244	04/02/03		< 1	< 1	40.3	1.1	< 1	14.8				
MW025	GW166	07/16/99	25-35	118	2.8	7.4	< 0.21	< 0.18	0.46				
	GW200	10/21/99		177	2.5	2.8	< 0.21	< 0.18	< 0.28				
	GW207	02/16/01		6,000	41	30	< 1	< 1	4.8	< 1	< 1	< 3	< 1
	GW225	01/03/02		9,400	47	23	< 1	< 1	6.5	< 1	< 1	< 3	< 1
	GW239	04/01/03		6,600	27	11.5	< 1	< 1	2.5				
	GW252	06/02/05		1,650	21	20	< 20	< 20	< 20	< 20	< 20	< 60	< 20
	GW259	11/18/05		4,240	< 100	< 100	< 100	< 100	< 100	< 100	< 100	< 300	< 100
	GW295	05/03/06		5,380	131	1,250	< 10	< 10	< 10	< 10	< 50	< 50	< 50
	GW318	05/17/06		4,420	176	1,180	< 0.11	1.4	< 0.31				
	GW350	11/28/06		1,680	74.3	261	< 0.11	< 0.18	1.4	< 0.1	< 0.12	< 0.38	< 0.5
	GW366	06/04/07		547	31.6	89.3	< 0.25	< 0.24	< 0.21	< 0.21	< 0.25	< 0.76	< 0.23
	GW381	01/28/08		303	24.2	38.8	< 0.23	< 0.25	0.24 J3R	< 0.26	< 0.34	< 0.26	< 0.22
	GW398	03/05/09		74	10	5.5	< 0.23	< 0.24	< 0.28	< 0.16	0.59 I	< 0.43	0.34 I
	GW413	09/10/09		216	14.5	11.3	< 0.23	< 0.24	0.32 I				
	GW437	03/04/10		62.7	9.3	134	< 0.33	0.44 I	3.7	0.67	< 0.22	< 0.73	0.15 I
	GW456	06/22/10		26.5	5	269	< 0.33	0.52	4.3	< 0.17	< 0.22	< 0.73	< 0.14
	GW473	11/02/10		4.4	1.5	314	< 0.33	0.38 I	4				
	GW484	09/26/11		0.83	0.59	182	0.33 U	0.19 U	3.2				
	GW563	10/04/12		0.55	0.71	93.9	0.33 U	0.2 I	2.7				
	GW572	05/16/13		0.21 U	0.45 I	108	0.33 U	0.19 I	3.4				
	GW586	12/03/13		0.78	0.97	192	0.33 U	0.25 I	6.9				
	GW608	01/15/15		2.5	3.7	243	0.54	0.37 I	11.3				
	GW635	07/13/16		47.3	27.8	262	0.400 U	0.400 U	9.33				
	GW644	06/21/17		8.23	6.35	238	0.400 U	0.400 U	14.1				
	GW664	06/20/18		31.8	15.8	702	0.69 I	0.67 I	5.86				
MW026	GW167	07/16/99	25-35	< 0.38	< 0.27	< 0.19	< 0.21	< 0.18	< 0.28				
	GW209	02/17/01		2	< 1	< 1	< 1	< 1	< 1	2,400	100	710	460
	GW232	01/04/02		< 1	< 1	< 1	< 1	< 1	< 1	2,000	150	790	270
	GW312	05/17/06		< 0.11	< 0.13	< 0.098	< 0.11	< 0.18	< 0.31				
MW027	GW168	07/16/99	25-35	< 0.38	< 0.27	< 0.19	< 0.21	< 0.18	< 0.28				
	GW212	02/17/01		< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 3	< 1
	GW629	01/29/15		0.21 U	0.19 U	0.19 U	0.33 U	0.19 U	0.18 U				
MW028	GW169	07/16/99	25-35	< 0.38	< 0.27	< 0.19	< 0.21	< 0.18	< 0.28				
	GW219	02/22/01		< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 3	< 1
MW029	GW170	07/16/99	25-35	< 0.38	< 0.27	1.5	< 0.21	< 0.18	< 0.28				
	GW211	02/17/01		< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 3	< 1
MW030	GW173	08/30/99	70-80	1,650	370	240	3.3	< 0.6	15.1	< 0.6	< 5	< 5	< 5
	GW174	08/31/99		16.2	3.39	2.59	< 0.5	< 0.6	< 0.6	< 0.6	< 5	< 5	< 5
	GW189	09/11/99		2.7	0.51	0.78	< 0.21	< 0.18	< 0.28				
	GW214	02/22/01		< 1	3.4	15	< 1	< 1	< 1	< 1	< 1	< 3	< 1
	GW227	01/04/02		3.2	5.1	37	< 1	< 1	< 1	< 1	< 1	< 3	< 1
	GW247	04/01/03		1.5	3.1	49.5	< 1	< 1	< 1				
	GW256	06/02/05		< 1	1.8	59.2	< 1	1.2	< 1	< 1	< 1	< 3	< 1
	GW262	11/18/05		2.5	1.9	76.6	< 1	< 1	< 1	< 1	< 1	< 3	< 1
	GW319	05/17/06		< 0.11	1.6	144	< 0.11	1.3	< 0.31				
	GW353	11/28/06		< 0.5	1.1	122	< 0.11	1.1	< 0.31	< 0.1	< 0.12	< 0.38	< 0.5
	GW369	06/05/07		< 0.27	< 0.23	96.2	< 0.25	< 0.24	< 0.21	< 0.21	< 0.25	< 0.76	< 0.23
	GW388	01/31/08		< 0.31	< 0.33	125	< 0.23	< 0.25	0.24 J3R	< 0.26	< 0.34	< 0.26	< 0.22
	GW399	03/05/09		6.7	8.1	73	< 0.23	0.52 I	< 0.28	< 0.16	0.66 I	< 0.43	0.35 I
	GW426	09/11/09		< 0.35	< 0.42	79.7	< 0.23	0.51 I	< 0.28				
	GW438	03/05/10		< 0.21	< 0.19	203	< 0.33	1.5	2.1	< 0.17	< 0.22	< 0.73	< 0.14
	GW457	06/22/10		< 0.21	0.25 I	80.5	< 0.33	0.53	6.9	< 0.17	< 0.22	< 0.73	< 0.14
	GW486	09/27/11		0.21 U	0.19 U	17	0.33 U	0.19 U	1.1				
	GW553	10/03/12		0.21 U	0.19 U	222	0.33 U	0.85	19.8				
	GW569	05/16/13		0.21 U	0.19 U	119	0.33 U	0.64	45.4				
	GW590	12/03/13		0.21 U	0.19 U	112	0.33 U	0.51	51				
	GW612	01/15/15		0.21 U	0.19 U	81	0.33 U	0.32 I	110				
	GW649	06/21/17		0.400 U	0.400 U	378	0.400 U	1.34	97.2				
	GW674	06/20/18		0.400 U	0.400 U	582	0.400 U	1.3	67.8				

TABLE 3
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MCNATTS CLEANERS
TAMPA, HILLSBOROUGH COUNTY, FLORIDA
FDEP FACILITY ID# 299502136

Well	Sample ID	Date Sampled	Sample Interval	PCE (µg/L)	TCE (µg/L)	cis-1-2-DCE (µg/L)	trans-1-2-DCE (µg/L)	1,1-DCE (µg/L)	Vinyl Chloride (µg/L)	Benzene (µg/L)	Ethyl-benzene (µg/L)	Total Xylenes (µg/L)	Toluene (µg/L)
Groundwater Cleanup Target Levels				3	3	70	100	7	1	1	30	20	20
Natural Attenuation Default Source				300	300	700	1000	70	100	100	300	200	200
MW031	GW175	08/31/99	50-60	< 0.5	< 0.8	< 0.7	< 0.5	< 0.6	< 0.6	< 0.6	< 5	< 5	< 5
	GW187	09/11/99		< 0.38	< 0.27	0.41	< 0.21	< 0.18	< 0.28				
	GW218	02/22/01		1.8	4	4.6	< 1	< 1	< 1	< 1	< 1	< 3	< 1
	GW233	01/04/02		1.6	3.1	5.5	< 1	< 1	< 1	< 1	< 1	< 3	< 1
	GW427	09/11/09		< 0.35	0.92 I	2.4	< 0.23	< 0.24	3.1				
	GW439	03/03/10		< 0.21	0.7	1.7	< 0.33	< 0.19	1.8	< 0.17	< 0.22	< 0.73	0.21 I
	GW458	06/22/10		< 0.21	0.52	1.2	< 0.33	< 0.19	1.3	< 0.17	< 0.22	< 0.73	< 0.14
	GW560	10/04/12		0.21 U	1.4	3.4	0.33 U	0.19 U	2.5				
	GW578	05/16/13		0.21 U	1.3	3.8	0.33 U	0.19 U	2				
	GW594	12/03/13		0.21 U	1.4	3.3	0.33 U	0.19 U	2.8				
	GW607	01/15/15		0.21 U	0.57	1.2	0.33 U	0.19 U	0.84 I				
MW032	GW176	09/01/99	40-50	< 0.5	< 0.8	< 0.7	< 0.5	< 0.6	< 0.6	11.8	< 5	< 5	< 5
	GW188	09/11/99		< 0.38	< 0.27	< 0.19	< 0.21	< 0.18	< 0.28				
	GW210	02/17/01		< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 3	< 1
	GW229	01/04/02		< 1	< 1	< 1	< 1	< 1	< 1	21	< 1	< 3	< 1
	GW334	05/24/06		< 0.11	< 0.13	< 0.098	< 0.11	< 0.18	< 0.31				
MW033	GW177	09/01/99	58-68	< 0.5	< 0.8	< 0.7	< 0.5	< 0.6	< 0.6	< 0.6	< 5	< 5	< 5
	GW178	09/02/99		< 0.5	< 0.8	< 0.7	< 0.5	< 0.6	< 0.6	< 0.6	< 5	< 5	< 5
	GW186	09/10/99		< 0.38	< 0.27	< 0.19	< 0.21	< 0.18	< 0.28				
	GW205	02/16/01		< 1	< 1	1.4	< 1	< 1	< 1	< 1	< 1	< 3	< 1
	GW228	01/04/02		< 1	< 1	2.8	< 1	< 1	< 1	< 1	< 1	< 3	< 1
	GW324	05/18/06		19.6	< 0.13	< 0.098	< 0.11	< 0.18	< 0.31				
	GW365	06/04/07		< 0.27	< 0.23	< 0.29	< 0.25	< 0.24	1.7	< 0.21	< 0.25	< 0.76	< 0.23
	GW383	01/31/08		< 0.31	< 0.33	71.7	< 0.23	< 0.25	0.24 J3R	< 0.26	< 0.34	< 0.26	< 0.22
	GW400	03/05/09		< 0.35	< 0.42	< 0.29	< 0.23	< 0.24	< 0.28	< 0.16	0.92 I	< 0.43	0.46 I
	GW428	09/11/09		< 0.35	< 0.42	< 0.29	< 0.23	< 0.24	< 0.28				
	GW440	03/04/10		< 0.21	< 0.19	204	< 0.33	0.2 I	9	< 0.17	< 0.22	< 0.73	0.17 I
	GW459	06/22/10		< 0.21	< 0.19	1	< 0.33	< 0.19	< 0.18	< 0.17	< 0.22	< 0.73	< 0.14
	GW473	11/02/10		< 0.21	0.2 I	199	< 0.33	< 0.19	30.8				
	GW482	09/26/11		0.21 J3U	0.19 U	0.19 U	0.33 U	0.19 U	0.18 U				
	GW562	10/04/12		0.21 U	0.19 U	1.4	0.33 U	0.19 U	0.18 U				
	GW568	05/16/13		0.21 U	0.19 U	16.3	0.33 U	0.19 U	77.5				
	GW584	12/03/13		0.53	0.19 U	3	0.33 U	0.19 U	32				
	GW610	01/15/15		0.21 U	0.19 U	0.25 I	0.33 U	0.19 U	1.6				
	GW662	06/20/18		0.400 U	0.400 U	0.400 U	0.400 U	0.400 U	0.400 U				
MW034	GW179	09/02/99	61-71	< 0.5	< 0.8	< 0.7	< 0.5	< 0.6	< 0.6	< 0.6	< 5	< 5	< 5
	GW185	09/10/99		< 0.38	< 0.27	< 0.19	< 0.21	< 0.18	< 0.28				
	GW213	02/17/01		< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 3	< 1
	GW614	01/16/15		0.21 U	0.19 U	0.19 U	0.33 U	0.19 U	0.18 U				
MW035	GW192	10/06/99	2-12	< 0.32	< 0.28	< 0.27	< 1.5	< 0.47	< 0.19	< 0.27	< 0.26	< 0.84	< 0.29
	GW198	10/21/99		< 0.32	< 0.27	< 0.19	< 0.21	< 0.18	< 0.28				
	GW206	02/16/01		< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 3	< 1
	GW226	01/03/02		< 1	< 1	4.3	< 1	< 1	< 1	< 1	< 1	< 3	< 1
	GW335	05/24/06		< 0.11	< 0.13	0.55	< 0.11	< 0.18	< 0.31				
MW036	GW191	10/06/99	2-12	< 0.32	< 0.28	< 0.27	< 1.5	< 0.47	< 0.19	< 0.27	< 0.26	< 0.84	< 0.29
	GW220	02/22/01		< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 3	< 1
	GW231	01/04/02		< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 3	< 1
	GW316	05/17/06		< 0.11	< 0.13	< 0.098	< 0.11	< 0.18	< 0.31				
	GW628	01/29/15		0.21 U	0.19 U	0.19 U	0.33 U	0.19 U	0.18 U				
	GW669	06/20/18		0.400 U	0.400 U	0.400 U	0.400 U	0.400 U	0.400 U				
MW037	GW242	04/01/03	2-12	< 1	< 1	< 1	< 1	< 1	< 1				
	GW329	05/18/06		8.5	< 0.13	< 0.098	< 0.11	< 0.18	< 0.31				
	GW429	09/11/09		< 0.35	< 0.42	< 0.29	< 0.23	< 0.24	< 0.28				
	GW441	03/03/10		< 0.21	< 0.19	< 0.19	< 0.33	< 0.19	< 0.18	< 0.17	< 0.22		< 0.14
	GW460	06/22/10		< 0.21	< 0.19	< 0.19	< 0.33	< 0.19	< 0.18	< 0.17	< 0.22	< 0.73	< 0.14
MW038	GW241	04/01/03	25-35	14.3	119	293	4.6	< 1	27.2				
	GW251	06/02/05		80	17.1	20.3	< 1	< 1	1.2	< 1	< 1	< 3	< 1
	GW266	11/18/05		8.5	24.4	44.3	< 1	< 1	5.8	< 1	< 1	< 3	< 1
	GW314	05/17/06		42.9	33.8	37.9	< 0.11	< 0.18	4.5				
	GW349	11/28/06		18.2	12.5	28	< 0.11	< 0.18	4.4	< 0.1	< 0.12	< 0.38	< 0.5
	GW362	06/04/07		10	10.6	23.5	< 0.25	< 0.24	1.7	< 0.21	< 0.25	< 0.76	< 0.23
	GW378	01/28/08		3.2	1.9	12.8	< 0.23	< 0.25	3.8 J3	< 0.26	< 0.34	< 0.26	< 0.22
	GW401	03/05/09		< 0.35	< 0.42	0.68 I	< 0.23	< 0.24	< 0.28	< 0.16	0.78 I	< 0.43	0.39 I
	GW430	09/11/09		< 0.35	< 0.42	0.41 I	< 0.23	< 0.24	< 0.28				
	GW442	03/03/10		< 0.21	< 0.19	1	< 0.33	< 0.19	0.4 I	< 0.17	< 0.22	< 0.73	< 0.14
	GW461	06/22/10		< 0.21	< 0.19	1.4	< 0.33	< 0.19	1.4	< 0.17	< 0.22	< 0.73	< 0.14

TABLE 3
GROUNDWATER MONITORING WELL ANALYTICAL SUMMARY
MCNATTS CLEANERS
TAMPA, HILLSBOROUGH COUNTY, FLORIDA
FDEP FACILITY ID# 299502136

Well	Sample ID	Date Sampled	Sample Interval	PCE (µg/L)	TCE (µg/L)	cis-1-2-DCE (µg/L)	trans-1-2-DCE (µg/L)	1,1-DCE (µg/L)	Vinyl Chloride (µg/L)	Benzene (µg/L)	Ethyl-benzene (µg/L)	Total Xylenes (µg/L)	Toluene (µg/L)
Groundwater Cleanup Target Levels				*3*	*3*	*70*	*100*	*7*	*1*	*1*	*30*	*20*	*20*
Natural Attenuation Default Source				*300*	*300*	*700*	*1000*	*70*	*100*	*100*	*300*	*200*	*200*
MW039	GW248	04/02/03	2-12	<1	<1	1.7	<1	<1	<1				
	GW255	06/02/05		< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 3	< 1
	GW263	11/18/05		< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 3	< 1
	GW355	11/28/06		< 0.5	< 0.13	< 0.098	< 0.11	< 0.18	< 0.31	< 0.1	< 0.12	< 0.38	< 0.5
	GW371	06/05/07		< 0.27	< 0.23	< 0.29	< 0.25	< 0.24	< 0.21	< 0.21	< 0.25	< 0.76	< 0.23
	GW390	01/31/08		< 0.31	< 0.33	< 0.28	< 0.23	< 0.25	0.24 J3R	< 0.26	< 0.34	< 0.26	< 0.22
	GW402	03/05/09		6.8	4.7	2	< 0.23	< 0.24	< 0.28	< 0.16	0.74 I	< 0.43	0.49 I
	GW414	09/10/09		< 0.35	< 0.42	< 0.29	< 0.23	< 0.24	< 0.28				
	GW443	03/05/10		< 0.21	< 0.19	< 0.19	< 0.33	< 0.19	< 0.18	< 0.17	< 0.22	< 0.73	< 0.14
	GW462	06/22/10		< 0.21	< 0.19	< 0.19	< 0.33	< 0.19	< 0.18	< 0.17	< 0.22	< 0.73	< 0.14
	GW474	11/03/10		< 0.21	< 0.19	3.4	< 0.33	< 0.19	14.2				
	GW485	09/27/11		0.21 U	0.19 U	0.19 U	0.33 U	0.19 U	0.18 U				
	GW555	10/03/12		0.21 U	0.19 U	0.19 U	0.33 U	0.19 U	0.18 U				
	GW571	05/16/13		0.21 U	0.19 U	0.35 I	0.33 U	0.19 U	1.5				
	GW591	12/03/13		0.21 U	0.19 U	0.19 U	0.33 U	0.19 U	0.18 U				
	GW616	01/16/15		0.21 U	0.19 U	0.35 I	0.33 U	0.19 U	0.22 I				
	GW640	07/14/16		0.400 U	0.400 U	0.400 U	0.400 U	0.400 U	0.400 U				
	GW650	06/21/17		0.400 U	0.400 U	0.400 U	0.400 U	0.400 U	0.450 I				
	GW672	06/20/18		0.400 U	0.400 U	0.400 U	0.400 U	0.400 U	0.6 I				
MW040	GW246	04/02/03	25-35	24.7	7.6	20.7	<1	<1	3.2				
	GW257	06/02/05		24.6	15.3	154	1.6	< 1	11.2	< 1	< 1	< 3	< 1
	GW264	11/18/05		3.2	4.8	44.1	<1	< 1	3.6	< 1	< 1	< 3	< 1
	GW315	05/17/06		87.1	42	236	3.3	<0.18	17.3				
	GW354	11/28/06		697	163	415	5	<0.18	70.8	< 0.1	< 0.12	< 0.38	< 0.5
	GW370	06/05/07		88.3	41.8	338	3.3	<0.24	29.6	< 0.21	< 0.25	< 0.76	< 0.23
	GW389	01/31/08		232	92.8	333	3.2	0.26 I	30	< 0.26	< 0.34	< 0.26	< 0.22
	GW403	03/05/09		5.9	7.3	22	0.26 I	< 0.24	5.1	< 0.16	0.74 I	< 0.43	0.49 I
	GW415	09/10/09		63.6	27.5	186	2.1	< 0.24	51.4				
	GW444	03/05/10		27.2	21.5	154	1.4	0.22 I	35.2	< 0.17	< 0.22	< 0.73	< 0.14
	GW463	06/22/10		7.2	8.5	133	1.1	< 0.19	29	< 0.17	< 0.22	< 0.73	< 0.14
	GW475	11/03/10		4.7	3	117	5.6	< 0.19	99.9				
	GW552	10/05/11		9.7	13.3	618	19.3	2.3 I	240				
	GW558	10/04/12		9.4	3.1	614	11.8	1.8 I	175				
	GW579	05/16/13		0.21 U	1.2	561	13.1	2.3	138				
	GW592	12/03/13		0.21 U	0.19 U	356	8.5	0.79	172				
	GW615	01/16/15		0.22 I	0.49 I	177	8.4	0.58	235				
	GW639	07/14/16		0.400 U	0.400 U	324	4.17	0.400 U	101				
	GW647	06/22/17		0.470 I	2.03	1150	22.1	2.21	376				
	GW671	06/20/18		0.400 U	3.55	935	10.3	0.84 I	111				
MW041	GW240	04/01/03	20-30	< 1	< 1	< 1	< 1	< 1	< 1				
	GW331	05/18/06		< 0.11	< 0.13	< 0.098	< 0.11	< 0.18	< 0.31				
MW042	GW253	06/02/05	5-10	661	25.3	9.1	< 1	< 1	2.3	< 1	< 1	< 3	< 1
	GW261	11/18/05		< 100	< 100	48,800	290	< 100	40,600	< 100	< 100	< 300	< 100
	GW321	05/17/06		4,590	3,670	13,700	130	53.7	3,720				
	GW359	11/29/06		7,740	7,660	37,900	< 11	< 18	5,170	< 10	< 12	< 38	< 50
	GW375	06/05/07		748	671	11,400	109	22.8	4,430	< 0.21	1.5	< 0.76	1.5
	GW391	01/31/08		< 3.1	< 3.3	2,060	17.9	2.9 I	1,580	< 2.6	< 3.4	< 2.6	< 2.2
	GW404	03/04/09		1.3	< 0.42	< 0.29	< 0.23	< 0.24	< 0.28	< 0.16	1.1	< 0.43	0.56 I
	GW416	09/10/09		< 0.35	< 0.42	< 0.29	< 0.23	< 0.24	< 0.28				
	GW445	03/04/10		< 0.21	< 0.19	< 0.19	< 0.33	< 0.19	0.37 I	< 0.17	< 0.22	< 0.73	0.21 I
	GW464	06/22/10		< 0.21	< 0.19	< 0.19	< 0.33	< 0.19	0.44 I	< 0.17	< 0.22	< 0.73	< 0.14
	GW478	01/14/11		4.2	0.19 U	0.19 U	0.33 U	0.19 U	0.18 U				
	GW488	09/27/11		0.21 U	0.19 U	0.19 U	0.33 U	0.19 U	0.18 U				
	GW564	10/04/12		0.21 U	0.19 U	0.44 I	0.33 U	0.19 U	0.44 I				
	GW587	12/03/13		0.21 U	0.19 U	0.22 I	0.33 U	0.19 U	0.4 I				
	GW643	07/14/16		0.400 U	0.400 U	0.400 U	0.400 U	0.400 U	0.400 U				
	GW654	06/22/17		0.400 U	0.400 U	0.400 U	0.400 U	0.400 U	1.00				
	GW666	06/20/18		0.400 U	0.400 U	7.4	0.400 U	0.400 U	8.15				
MW043	GW326	05/18/06	26-31	24,000	21.2	2.7	< 0.11	< 0.18	< 0.31				
	GW384	01/31/08		4,820	13.4	3.3 I	< 2.3	< 2.5	< 2.4	< 2.6	< 3.4	< 2.6	< 2.2
	GW405	03/05/09		1,800	9.1 I	5.4 I	< 2.3	< 2.4	< 2.8	< 1.6	< 2.2	< 4.3	< 4.7
	GW417	09/10/09		142	0.79 I	0.58 I	< 0.23	< 0.24	< 0.28				
	GW446	03/04/10		3,820	9	13.7	< 1.6	< 0.95	< 0.9	< 0.85	< 1.1	< 3.7	< 0.7
	GW465	06/22/10		4,220	15.2	22	< 6.6	< 3.8	< 3.6	< 3.4	< 4.4	< 14.6	< 2.8
	GW479	01/14/11		6,100	11.4 I	8.6 I	8.2 U	4.8 U	4.5 U				
	GW533	09/26/11		5,240	9.6 I	14	6.6 U	3.8 U	3.6 U				
	GW556	10/03/12		2,030	13	13.1	1.6 U	0.95 U	0.9 U				
	GW574	05/16/13		1,590	9.8	11.2	1.6 U	0.95 U	0.9 U				
	GW583	12/03/13		1,640	14.1	8.5	1.6 U	0.95 U	0.9 U				
	GW613	01/16/15		478	43.9	35.9	0.33 U	0.19 U	0.18 U				
	GW634	07/13/16		120	27.4	32.2	0.400 U	0.400 U	0.400 U				
	GW646	06/21/17		29	7.17	18.8	0.400 U	0.400 U	0.760 I				
	GW663	06/20/18		15.7	1.75	4.06	0.400 U	0.400 U	0.5 I				
MW044	GW325	05/18/06	5-15	48.7	1.9	4	< 0.11	< 0.18	< 0.31				
	GW373	06/05/07		502	< 0.23	1.6	< 0.25	< 0.24	< 0.21	< 0.21	< 0.25	< 0.76	< 0.23
	GW385	01/31/08		815	7.2	1.8 I	< 1.2	< 1.2	< 1.2	< 1.3	< 1.7	< 1.3	< 1.1
	GW406	03/05/09		550	3.8 I	3.9 I	< 1.2	< 1.2	< 1.4	< 0.8	< 1.1	< 2.2	< 2.4
	GW418	09/10/09		1,270	< 4.2	< 2.9	< 2.3	< 2.4	< 2.8				
	GW447	03/04/10		488	12.5	1.9	< 0.33	< 0.19	0.87 I	< 0.17	< 0.22	< 0.73	< 0.14
	GW466	06/22/10		22.4	0.96	0.28 I	< 0.33	< 0.19	< 0.18	< 0.17	< 0.22	< 0.73	< 0.14
	GW476	11/03/10		5.7	0.76	0.31 I	< 0.33	< 0.19	< 0.18				
	GW481	09/26/11		0.21 U	0.19 U	0.23 I	0.33 U	0.19 U	0.18 U				
	GW557	10/03/12		0.21 U	0.19 U	2.4	0.33 U	0.19 U	0.18 U				
	GW576	05/16/13		0.21 U	0.19 U	0.19 U	0.33 U	0.19 U	0.18 U				
	GW582	12/03/13		0.21 U	0.19 U	0.19 U	0.33 U	0.19 U	0.18 U				

TABLE 3
GROUNDWATER MONITORING WELL ANALYTICAL SUMMARY
MCNATTS CLEANERS
TAMPA, HILLSBOROUGH COUNTY, FLORIDA
FDEP FACILITY ID# 299502136

Well	Sample ID	Date Sampled	Sample Interval	PCE (µg/L)	TCE (µg/L)	cis-1-2-DCE (µg/L)	trans-1-2-DCE (µg/L)	1,1-DCE (µg/L)	Vinyl Chloride (µg/L)	Benzene (µg/L)	Ethyl-benzene (µg/L)	Total Xylenes (µg/L)	Toluene (µg/L)
Groundwater Cleanup Target Levels				*3*	*3*	*70*	*100*	*7*	*1*	*1*	*30*	*20*	*20*
Natural Attenuation Default Source				*300*	*300*	*700*	*1000*	*70*	*100*	*100*	*300*	*200*	*200*
MW045	GW323	05/17/06	5-15	41.6	27.1	83.5	1.2	< 0.18	41.8				
	GW367	06/04/07		20.6	15.2	47.3	< 0.25	< 0.24	31.9	< 0.21	< 0.25	< 0.76	< 0.23
	GW382	01/28/08		< 0.31	< 0.33	4.2	< 0.23	< 0.25	0.24 J3R	< 0.26	< 0.34	< 0.26	< 0.22
	GW407	03/05/09		5.8	5.1	11	< 0.23	< 0.24	11	< 0.16	0.68 I	< 0.43	0.46 I
	GW419	09/10/09		< 0.35	< 0.42	< 0.29	< 0.23	< 0.24	< 0.28				
	GW448	03/04/10		< 0.21	< 0.19	< 0.19	< 0.33	< 0.19	< 0.18	< 0.17	< 0.22	< 0.73	< 0.14
	GW467	06/22/10		< 0.21	< 0.19	< 0.19	< 0.33	< 0.19	< 0.18	< 0.17	< 0.22	< 0.73	< 0.14
	GW477	11/03/10		0.62	3.2	10.2	< 0.33	< 0.19	22.3				
	GW483	09/26/11		2	1.6	16.9	0.33 U	0.19 U	17.2				
	GW561	10/04/12		0.21 U	0.87	16	0.33 U	0.19 U	6.2				
	GW570	05/16/13		0.94	5.2	303	2.9	0.55	4.6				
	GW585	12/03/13		0.22 U	0.55	77.4	0.38 I	0.37 I	3.2				
	GW609	01/15/15		18	8.9	25	0.33 U	0.19 U	4				
	GW636	07/13/16		12.8	8.9	33.5	0.400 U	0.400 U	7.72				
	GW645	06/21/17		3.03	6.14	19.1	0.400 U	0.400 U	4.83				
	GW661	06/20/18		4.74	1.09	2.28	0.400 U	0.400 U	0.400 U				
MW046	GW311	05/16/06	26-31	182	4.8	10.9	< 0.11	< 0.18	< 0.31				
	GW364	06/04/07		< 0.27	< 0.23	< 0.29	< 0.25	< 0.24	< 0.21	< 0.21	< 0.25	< 0.76	< 0.23
	GW379	01/28/08		< 0.31	< 0.33	0.8 I	< 0.23	< 0.25	0.24 J3	< 0.26	< 0.34	< 0.26	< 0.22
	GW408	03/05/09		< 0.35	< 0.42	< 0.29	< 0.23	< 0.24	< 0.28	< 0.16	0.68 I	< 0.43	0.45 I
	GW420	09/10/09		< 0.35	< 0.42	< 0.29	< 0.23	< 0.24	< 0.28				
	GW449	03/03/10		< 0.21	0.31 I	0.25 I	< 0.33	< 0.19	< 0.18	< 0.17	< 0.22	< 0.73	< 0.14
	GW468	06/22/10		0.32 I	0.42 I	0.57	< 0.33	< 0.19	< 0.18	< 0.17	< 0.22	< 0.73	< 0.14
MW047	GW310	05/16/06	5-15	8.2	< 0.13	< 0.098	< 0.11	< 0.18	< 0.31				
	GW363	06/04/07		< 0.27	< 0.23	< 0.29	< 0.25	< 0.24	< 0.21	< 0.21	< 0.25	< 0.76	< 0.23
	GW380	01/28/08		< 0.31	< 0.33	< 0.28	< 0.23	< 0.25	0.24 J3R	< 0.26	< 0.34	< 0.26	< 0.22
	GW409	03/05/09		< 0.35	< 0.42	< 0.29	< 0.23	< 0.24	< 0.28	< 0.16	0.74 I	< 0.43	< 0.47
	GW421	09/10/09		< 0.35	< 0.42	< 0.29	< 0.23	< 0.24	< 0.28				
	GW450	03/03/10		< 0.21	< 0.19	< 0.19	< 0.33	< 0.19	< 0.18	< 0.17	< 0.22	< 0.73	0.15 I
	GW469	06/22/10		< 0.21	< 0.19	< 0.19	< 0.33	< 0.19	< 0.18	< 0.17	< 0.22	< 0.73	< 0.14
MW048	GW344	11/02/06	25-35	< 0.5	< 0.13	< 0.098	< 0.11	< 0.18	< 0.31	1.1	< 0.12	< 0.38	< 0.5
MW049	GW345	11/02/06	25-35	< 0.5	< 0.13	< 0.098	< 0.11	< 0.18	< 0.31	< 0.1	< 0.12	< 0.38	< 0.5
	GW422	09/10/09		< 0.35	< 0.42	< 0.29	< 0.23	< 0.24	< 0.28				
	GW451	03/04/10		< 0.21	< 0.19	< 0.19	< 0.33	< 0.19	< 0.18	< 0.17	< 0.22	< 0.73	0.15 I
	GW470	06/22/10		< 0.21	< 0.19	< 0.19	< 0.33	< 0.19	< 0.18	< 0.17	< 0.22	< 0.73	< 0.14
MW050	GW346	11/02/06	25-35	< 0.5	< 0.13	< 0.098	< 0.11	< 0.18	< 0.31	< 0.1	< 0.12	< 0.38	< 0.5
MW051	GW605	08/06/14	2-12	4,960	13,200	75,000	553	72.2	10,300	17 U	22 U	50 U	14 U
	GW620	01/16/15		10.6	14.9	11,100	104	5.6	4,950				
	GW638	07/13/16		342	80.8	5,320	43.8	8 U	1,820				
	GW655	06/22/17		83.8	65	2,990	49.2	8.00 U	9,510				
	GW665	06/20/18		11.1	16.9	3560	37.3	0.400 U	6730				
MW052	GW604	08/06/14	25-35	635	95.2	402	2.8	0.95 U	10.8	0.85 U	1.1 U	2.5 U	0.7 U
	GW619	01/16/15		994	68.6	452	1.4	0.66	10.9				
	GW637	07/13/16		1,330	33	123	0.400 U	0.400 U	8.22				
	GW656	06/22/17		391	31.6	723	1.18	0.920 I	16.4				
	GW670	06/20/18		229	12.5	2450	0.400 U	3.01	8.18				
MW053	GW641	07/16/16	2-12	0.400 U	0.400 U	0.400 U	0.400 U	0.400 U	0.400 U				
	GW653	06/22/17		0.400 U	0.400 U	0.400 U	0.400 U	0.400 U	0.400 U				
	GW675	06/20/18		0.400 U	0.400 U	0.400 U	0.400 U	0.400 U	0.400 U				
IW101	GW597	06/27/14	25-35	1 U	0.95 U	1,440	2.6	0.95 U	171	0.85 U	1.1 U	2.5 U	2.8 I
IW102	GW598	06/27/14	25-33	0.21 U	0.19 U	0.19 U	0.33 U	0.19 U	0.31 I	0.17 U	0.22 U	0.5 U	0.14 U
IW105	GW600	06/27/14	25-37	2.1 U	1.9 U	246	4.7 I	1.9 U	232	1.7 U	2.2 U	5 U	1.4 U
IW108	GW601	06/27/14	25-33	1 U	0.95 U	0.95 U	1.6 U	0.95 U	0.9 U	0.85 U	1.1 U	2.5 U	0.7 U
IW110	GW602	06/27/14	25-35	0.21 U	0.19 U	35.6	14.2	0.19 U	383	0.17 U	0.22 U	0.5 U	0.14 U
IW113	GW599	06/27/14	25-35	0.21 U	0.19 U	19.6	0.98	0.19 U	20.8	0.17 U	0.22 U	0.5 U	0.14 U

Notes:

Red - exceeds FDEP Groundwater Cleanup Target Level pursuant to Chapter 62-777, FAC

Green - exceeds FDEP Natural Attenuation Default Concentration pursuant to Chapter 62-777, FAC

Blank cells indicate analyte was not analyzed.

I - The reported value is between the laboratory method detection limit and the laboratory practical quantitation limit.

U or < - Indicates that the compound was analyzed for but not detected above the method detection limit (MDL).

J - Estimated value; value not accurate.

J3 - The reported value did not meet the established quality control criteria for either precision or accuracy but falls within the NELAC marginal exceedance range.

J3R - 3R.The RPD for the LCSD exceeds the laboratory established control limits.

No Shading indicates Upper Shallow Zone Well

Gray Shading indicates Lower Shallow Zone Well

Green Shading indicates Deep Zone Well

TABLE 4
REMEDIAL SYSTEM SUMMARY
MCNATTS CLEANERS
TAMPA, HILLSBOROUGH COUNTY, FLORIDA
FDEP FACILITY ID# 299502136

Startup Date: December 1, 2004

Groundwater Recovery	None	
Recovery Well ID#		
Screen Interval		
Drawdown		
Design Flow Rate (GPM)		
Design Influent Concentration		
Effluent Polishing Type		
Gallery Design Size		
Other (e.g., FP Recovery, Pretreat)		
Permits	None	
(e.g. NPDES, consumptiver use)		
Soil Treatment	Soil Vapor Extraction	
SVE Well ID#	VE001 and VE002	
Screen Interval	horizontal wells 10' length at 2 ft bls	
Design Flow Rate	63 cfm @ 32 inH2O Total	
Off Gas Treatment	2 GACs (170 lb)	
Other		
Air Sparging	Active Air Inlets	
Sparging Well ID#	AI-1, AI-2, AI-3, AI-4, AI-5, and AI-6	
Screen Interval	1-5 ft bls	
Design Flow Rate	NA	
Equipment & Specifications	SVE-Blower	Availability
(i.e. tower, blower, flowmeter,	Ametek Rotron TMD	
pumps) Specify usage, type, mfg.	DR6D89 Three-60hz	
and design specifications.	5hp 120 cfm 60 inches of water	
	Air Inlet Blower	
	Ametek Rotron TMD	
Control Panel	DR505CD72M Three-60hz	
(Brand & List Components)	2.5 hp 80 cfm 60 inches of water	
Surge Protection (Mfg & Type)		
Other		
Telemetry (Mfg)	None	Phone #: NA

System Repair History

Date	Part Replaced or Modification
2/16/2005	Moisture level high switch
3/10/2006	Contactor in control panel replaced
8/16/2006	Moisture Separator Replaced
11/12/2007	Replace SVE blower
1/26/2010	Moisture Separator Replaced
2/22/2011	Replace SVE blower
11/18/2011	Timer installed on system (24 hours on and 24 hours off)
2/7/2013	Timer adjusted to 6 hours/day
4/15/2013	Replaced broken gauges on system
7/18/2013	Moisture Separator Replaced
1/15/2016	Power meter pole repaired
3/8/2017	SVE lateral VE003 installed
2/23/2018	Timer adjusted for system to operate continuously

TABLE 5
SYSTEM PERFORMANCE SUMMARY
MCNATTS CLEANERS
TAMPA, HILLSBOROUGH COUNTY, FLORIDA
FDEP FACILITY ID# 299502136

Code	Arrive	Depart
1	on	on
2	off	on
3	off	off
4	on	off

Site Visit Date	Days Between Site Visits	Days Since Startup	Treatment System Status		
			GWT	VES	AS
12/1/2004				2	3
12/8/2004	7	7		1	3
1/5/2005	28	35		1	3
2/10/2005	36	71		3	3
2/16/2005	6	77		2	3
3/7/2005	19	96		1	2
4/4/2005	28	124		2	2
4/21/2005	17	141		1	1
5/13/2005	22	163		1	1
6/2/2005	20	183		1	1
6/13/2005	11	194		2	1
6/27/2005	14	208		1	1
8/1/2005	35	243		2	2
8/29/2005	28	271		2	2
9/9/2005	11	282		2	2
9/28/2005	19	301		1	1
10/12/05	14	315		1	1
10/31/05	19	334		1	1
11/21/05	21	355		1	1
12/27/05	36	391		2	2
1/20/2006	24	415		1	1
2/24/2006	35	450		3	3
3/10/2006	14	464		2	2
3/15/2006	5	469		1	1
4/11/2006	27	496		2	1
5/2/2006	21	517		1	1
6/22/2006	51	568		1	1
6/29/2006	7	575		1	1
7/18/2006	19	594		1	1
8/3/2006	16	610		2	2
8/16/2006	13	623		2	2
9/27/2006	42	665		1	1
10/25/2006	28	693		1	1
11/28/2006	34	727		2	2
12/20/2006	22	749		1	1
1/19/2007	30	779		1	1
2/14/2007	26	805		1	1
3/6/2007	20	825		2	2
4/12/2007	37	862		1	1
5/17/2007	35	897		1	1
5/29/2007	12	909		1	1
7/9/2007	41	950		1	1
8/15/2007	37	987		2	2
9/12/2007	28	1015		3	3
11/12/2007	61	1076		2	2
11/13/2007	1	1077		1	1
12/12/2007	30	1106		1	1
1/3/2008	22	1128		2	2
2/13/2008	41	1169		1	1
3/17/2008	33	1202		1	1
4/3/2008	17	1219		1	4

TABLE 5
SYSTEM PERFORMANCE SUMMARY
MCNATTS CLEANERS
TAMPA, HILLSBOROUGH COUNTY, FLORIDA
FDEP FACILITY ID# 299502136

Code	Arrive	Depart
1	on	on
2	off	on
3	off	off
4	on	off

Site Visit Date	Days Between Site Visits	Days Since Startup	Treatment System Status		
			GWT	VES	AS
5/6/2008	33	1252		1	3
6/5/2008	30	1282		1	3
6/23/2008	18	1300		1	2
8/6/2008	44	1344		1	1
9/10/2008	35	1379		1	1
10/14/2008	34	1413		1	1
11/25/2008	42	1455		2	2
12/18/2008	23	1478		2	2
1/15/2009	28	1506		2	2
2/23/2009	39	1545		1	1
3/19/2009	24	1569		2	NA
4/23/2009	35	1604		1	NA
5/19/2009	26	1630		1	NA
6/10/2009	22	1652		1	NA
7/13/2009	33	1685		1	NA
8/10/2009	28	1713		2	NA
9/14/2009	35	1748		1	NA
1/28/2010	136	1884		1	NA
3/5/2010	36	1920		2	NA
3/29/2010	24	1944		2	NA
4/21/2010	23	1967		1	NA
5/11/2010	20	1987		1	NA
6/21/2010	41	2028		1	NA
7/12/2010	21	2049		1	NA
8/24/2010	43	2092		1	NA
9/23/2010	30	2122		1	NA
10/28/2010	35	2157		1	NA
11/30/2010	33	2190		2	NA
12/29/2010	29	2219		2	NA
1/31/2011	33	2252		1	NA
2/22/2011	22	2274		1	NA
3/30/2011	36	2310		1	2
4/12/2011	13	2323		1	1
5/31/2011	49	2372		1	1
7/6/2011	36	2408		1	1
7/29/2011	23	2431		1	1
8/31/2011	33	2464		1	1
9/27/2011	27	2491		1	1
10/31/2011	34	2525		1	1
11/18/2011	18	2543		1	1
12/12/2011	24	2567		1	1
1/11/2012	30	2597		1	1
2/29/2012	49	2646		1	1
3/29/2012	29	2675		2	2
4/26/2012	28	2703		1	1

TABLE 5
SYSTEM PERFORMANCE SUMMARY
MCNATTS CLEANERS
TAMPA, HILLSBOROUGH COUNTY, FLORIDA
FDEP FACILITY ID# 299502136

Code	Arrive	Depart
1	on	on
2	off	on
3	off	off
4	on	off

Site Visit Date	Days Between Site Visits	Days Since Startup	Treatment System Status		
			GWT	VES	AS
5/30/2012	34	2737		1	1
6/28/2012	29	2766		1	1
7/16/2012	18	2784		1	1
8/23/2012	38	2822		4	4
9/5/2012	13	2835		2	2
9/28/2012	23	2858		1	1
10/17/2012	19	2877		1	1
11/6/2012	20	2897		2	2
12/18/2012	42	2939		1	1
1/8/2013	21	2960		1	1
2/12/2013	35	2995		1	1
3/5/2013	21	3016		3	3
3/12/2013	7	3023		3*	3*
4/5/2013	24	3047		3*	3*
5/16/2013	41	3088		2*	2*
6/17/2013	32	3120		2*	2*
7/8/2013	21	3141		1	1
8/19/2013	42	3183		2*	2*
9/16/2013	28	3211		2*	2*
10/16/2013	30	3241		2*	2*
11/14/2013	29	3270		1	1
12/12/2013	28	3298		1	1
1/9/2014	28	3326		1	1
2/20/2014	42	3368		2*	2*
3/14/2014	22	3390		1	1
4/9/2014	26	3416		2*	2*
5/7/2014	28	3444		2*	2*
6/6/2014	30	3474		2*	2*
7/7/2014	31	3505		2*	2*
8/6/2014	30	3535		1	1
9/8/2014	33	3568		1	1
10/20/2014	42	3610		1	1
11/24/2014	35	3645		2	2
12/15/2014	21	3666		1	1
1/13/2015	29	3695		1	1
2/9/2015	27	3722		1	1
3/17/2015	36	3758		1	1
4/6/2015	20	3778		1	1
5/20/2015	44	3822		2*	2*
6/11/2015	22	3844		1	2
7/8/2015	27	3871		1	2
8/10/2015	33	3904		1	2
8/28/2015	18	3922		4**	4**
9/11/2015	14	3936		2	2
10/13/2015	32	3968		1	1
11/25/2015	43	4011		3***	3***
1/15/2016	51	4062		3****	3****
1/25/2016	10	4072		2***	2***
2/16/2016	22	4094		1	2
3/14/2016	27	4121		1	1
4/25/2016	42	4163		1	1
5/19/2016	24	4187		1	1
6/6/2016	18	4205		4*****	4*****
6/16/2016	10	4215		2	2
7/13/2016	27	4242		1	1

TABLE 5
SYSTEM PERFORMANCE SUMMARY
MCNATTS CLEANERS
TAMPA, HILLSBOROUGH COUNTY, FLORIDA
FDEP FACILITY ID# 299502136

Code	Arrive	Depart
1	on	on
2	off	on
3	off	off
4	on	off

Site Visit Date	Days Between Site Visits	Days Since Startup	Treatment System Status GWT	VES	AS
8/27/2016	45	4287		1	2
9/1/2016	5	4292		4******	4******
9/26/2016	25	4317		2	2
10/18/2016	22	4339		1	1
11/22/2016	35	4374		1	1
12/19/2016	27	4401		1	2
2/2/2017	45	4446		1	2
2/27/2017	25	4471		1	1
3/28/2017	29	4500		1	1
4/21/2017	24	4524		3*	3*
5/18/2017	27	4551		2*	2*
6/27/2017	40	4591		2*	2
7/25/2017	28	4619		2	2
8/18/2017	24	4643		1	1
9/25/2017	38	4681		1	1
10/30/2017	35	4716		1	1
11/27/2017	28	4744		2*	2*
12/22/2017	25	4769		2*	2*
1/29/2018	38	4807		3	3*
2/23/2018	25	4832		2	1
3/19/2018	24	4856		2	2
4/30/2018	42	4898		1	1
6/5/2018	36	4934		2	2
6/26/2018	21	4955		1	1
7/30/2018	34	4989		2	2
8/22/2018	23	5012		1	3
10/16/2018	55	5067		1	3

Note:
* Timer operation
**-tropical storm Erika
***- off due to main overhead power line damaged
****- off due to power pole being repaired in order for TECO to restore power
*****- tropical storm Colin
******- hurricane Hermine

TABLE 6
SVE WELL DATA
MCNATTS CLEANERS
TAMPA, HILLSBOROUGH COUNTY, FLORIDA
FDEP FACILITY ID# 299502136

WELL NO.	VE001		VE002		VE003		AI-1		AI-2		AI-3		AI-4		AI-5		AI-6	
DIAMETER	4		4		4		2		2		2		2		2		2	
WELL DEPTH	2.00		2.00		2.00		5.00		5.00		5.00		5.00		5.00		5.00	
SCREEN INTERVAL	horizontal 10' screen		horizontal 10' screen		horizontal 10' screen		1-5		1-5		1-5		1-5		1-5		1-5	
Date	Vacuum	OVA	Vacuum	OVA	Vacuum	OVA	Vacuum	OVA	Vacuum	OVA	Vacuum	OVA	Vacuum	OVA	Vacuum	OVA	Vacuum	OVA
12/1/2004	55	17	55	205			0	9	0.04	49	1.7	2.1	7.0	0.7	4.7	7.5	2.1	18
12/8/2004	63	1	60	4			65	7	65	0.3	65	0.1	65	0.3	65	0.1	65	2
1/5/2005	0	8	60	30			0	20	0	5	0	4	0	4	0	4	0	5
3/7/2005	30*	2	54	35			57	58	53	12	0	7	0	0	-30	0	-30	0
4/4/2005	30*		61				63		61		0		0		-30		-30	
4/21/2005	*30		62				66		64		0		0		-30		-30	
5/13/2005	*15		45				46		42		44		0		0		0	
6/13/2005	*16	6	46	20			48	7	44	5	45	5	0	5	0	5	0	7
6/27/2005	*10		0	8			0	8	0	7	0	7	0	6	48	6	48	9
8/1/2005	*12		62				64		0		0		0		64		63	
8/29/2005	*10		62				64		0		0		0		63		63	
9/9/2005	38		39				38		36		36		39		39		39	
9/28/2005	43	13	43	13			41		40		41		44		43		43	
10/12/05	50		52				48		50		50		47		48		51	
10/31/05	52		46				52		50		48		52		52		54	
11/21/05	50		48				60		62		62		65		62		62	
12/27/05	0		48				48		47		45		48		47		48	
01/20/06	52		50				50		50		48		52		51		50	
03/10/06	44		44				45		44		42		43		43		43	
03/15/06	40		40				46		48		41		46		47		48	
06/22/06	* 6		4				60		2		OFF		60		60		60	
7/18/2006	*5		50				53		52		OFF		52		53		52	
8/16/2006	*7		51				54		52		OFF		53		54		52	
9/27/2006	*7		52	4			53	2	52	3	OFF	2	52	2	53	1	52	1
10/25/2006	*7		51				52		52		OFF		*23		*23		*22	
11/28/2006	21		24	10			24	12	22	12	OFF		*24		*21		*21	
12/20/2006	22		22				23		22		OFF		*23		*22		*22	
1/19/2007	14		14				14		13		OFF		OFF		*21		OFF	
2/14/2007	21	6	20	10			22	32	16	37	OFF	33	*10	31	*20	37	*17	24
3/6/2007	10		10				12		10		OFF		*18		*18		*18	
4/12/2007	14		OFF				14		12		OFF		*10		*20		*16	
5/17/2007	10		10				10		11		OFF		*17		*17		*17	
5/29/2007	10		10				12		10		OFF		*18		*18		*18	
7/9/2007	11		12				11		11		OFF		*15		*16		*15	
8/15/2007	12		12				11		11		OFF		*15		*16		*16	
11/13/2007	12		12				12		13		OFF		*15		*16		*16	
12/12/2007	46		46				46		46		OFF		46		46		46	
1/3/2008	16		16				13		13		OFF		13		13		13	
2/13/2008	60		55				70		70		70		65		72		72	
3/17/2008	54		50				68		70		62		72		72		72	
5/6/2008	66		68				76		75		68		76		74		76	
6/5/2008	72		0				76		74		70		NA		74		76	
6/23/2008	73		72				68		72		73		74		74		74	
8/6/2008	58		66				72		78		66		78		78		78	
9/10/2008	56		57				59		72		66		73		75		72	
10/14/2008	58		56				75		76		69		78		77		78	
11/25/2008	74		75				72		72		73		75		75		76	
12/18/2008	72		73				74		73		71		NA		73		73	
1/15/2009	74		79				79		79		78		NA		79		79	

TABLE 6
SVE WELL DATA
MCNATTS CLEANERS
TAMPA, HILLSBOROUGH COUNTY, FLORIDA
FDEP FACILITY ID# 299502136

WELL NO.	VE001		VE002		VE003		AI-1		AI-2		AI-3		AI-4		AI-5		AI-6	
DIAMETER	4		4		4		2		2		2		2		2		2	
WELL DEPTH	2.00		2.00		2.00		5.00		5.00		5.00		5.00		5.00		5.00	
SCREEN INTERVAL	horizontal 10' screen		horizontal 10' screen		horizontal 10' screen		1-5		1-5		1-5		1-5		1-5		1-5	
Date	**Vacuum**	**OVA**	**Vacuum**	**OVA**	**Vacuum**	**OVA**	**Vacuum**	**OVA**	**Vacuum**	**OVA**	**Vacuum**	**OVA**	**Vacuum**	**OVA**	**Vacuum**	**OVA**	**Vacuum**	**OVA**
2/23/2009	71		80				74		81		81		NA		80		80	
3/19/2009	77		77				77		77		77		NA		77		76	
4/23/2009	74.8		75.3				75.1		75.5		76.4		NA		75.2		75.1	
5/19/2009	71		72				73		73		72		NA		72		72	
6/10/2009	64		73				74		74		74		NA		73		73	
7/13/2009	62		71				73		73		73		NA		72		72	
8/10/2009	43		41				NA		44		43		NA		42		42	
9/14/2009	32		32				NA		11		12		NA		11		12	
1/28/2010	NA		13				NA		*1.8		NA		NA		*1.5		*1.9	
3/5/2010	NA		0.4				NA		0.2		NA		NA		NA		0.6	
3/29/2010	45		53.2				NA		45.2		NA		NA		45.9		46.2	
4/21/2010	59		59.4				NA		66.2		68		NA		68.3		68.8	
5/11/2010	49		44.1				NA		54.2		45		NA		43.7		43.4	
6/21/2010	48		45.2				NA		55.1		49		NA		42.1		44.8	
7/11/2010	NA		50.2				NA		72.2		71		NA		22.1		71.6	
8/24/2010	39		22.5				NA		65.9		67		NA		66.6		67.4	
9/23/2010	52		68.0				NA		18*		16*		NA		18*		18*	
10/28/2010	65		68.0				NA		27*		26*		NA		26*		25*	
11/30/2010	60		59.0				NA		26*		26*		NA		26*		26*	
12/29/2010	42		42.0				NA		26*		25.3*		NA		26.2*		26.2*	
1/31/2011	59		65.5				NA		14.8*		14.2*		NA		10.4*		10.3*	
2/22/2011	60		67.2				NA		17.9*		17.4*		NA		20.0*		20.3*	
3/30/2011	58		62.0				NA		14.9*		14.4*		NA		14.2*		15.3*	
4/12/2011	57		60.0				NA		14.0*		14.1*		NA		14.1*		15.1*	
5/31/2011	14.4*		71.9				NA		11.1*		11.0*		NA		71.9		71.5	
7/6/2011	8.3*		73.4				NA		8.4*		8.4*		NA		74.4		74.6	
7/29/2011	12.1*		70.6				NA		12.2*		12.3*		NA		72.4		72.9	
8/31/2011	10.5*		72.0				10.5*		10.3*		10.5*		NA		70.5		72.0	
9/27/2011	12.1*		73.1				12.1*		12.1*		12.1*		NA		74.1		74.6	
10/31/2011	10.8*		69.4	NA			11.1*	NA	11.1*	NA	10.8*	NA	NA	NA	69.1	NA	69.3	NA
11/18/2011	11*	1.7	65.5	10.4			11*	6.6	11	0	11*	1.3	NA	NA	67	1.1	67	0.3
12/12/2011	6.2*	1.1	62.1	15.1			6.1*	33	6.2*	0	6.1*	4	NA	NA	62.5	0	64.1	0.2
1/11/2012	8.9*	0.9	58.1	11.7			8.9*	1.1	8.9*	0	8.8*	0	NA	NA	8.5*	0	50.4	0.2
2/29/2012	8.2*	1.7	62.2	4.9			4.7*	2.6	9.2*	0.4	9.3*	1.1	NA	NA	61.7	0	63.8	0.3
3/29/2012	14.9*	1.1	58.7	3.3			58.6	2	57.9	0	57.7	0	NA	NA	15.1*	0	17.5*	0.9
4/26/2012	18.7*		55.3				64.4		64.4		63.4		NA	NA	16.3*		16.2*	
5/30/2012	19*	0	56	0			63	0	62	0	62	0	NA	NA	16*	0	15*	0
6/28/2012	16*	0	60	1.3			61	0	60	0	62	1.2	NA	NA	15*	0	16*	1
7/16/2012	24*		65				70		72		74		NA	NA	NA		16*	
8/23/2012	23*		64				69		71		72		NA	NA	16*		17*	
9/28/2012	23*	0	66	0			70	0	69	0	70	0	NA	NA	17*	0	17*	0
10/17/2012	32*	0	67.3	0			66.8	0	75.5	0	74.1	0	NA	NA	33.4*	0	18.9*	0
11/6/2012	16.2*	-	75.8	-			76.8	-	76.5	-	76.5	-	NA	NA	16.6*	-	16.5*	-
12/18/2012	15.1*	0	75.1	0			76.9	2	75.6	1	76.3	1	NA	NA	16.5*	2	15.8*	1
1/8/2013	13.4	0.5	75.6	4			55.3	2.5	75.1	0.5	75.5	1	NA	NA	13.3*	1.5	13.1*	1
2/12/2013	11.5*	0	76.1	0			56.5	0	76.2	0	76.4	0	NA	NA	11.5*	0	71.5	0
3/12/2013	10.3*	0	66.3	184			53.1	0	73.5	38	73.9	548	NA	NA	10.4*	0	10.8*	0
4/5/2013	11*	6.76	95.2	154			68	0	68	84.6	54.4	330	NA	NA	0	0	4.5*	3.91
5/16/2013	14.8*	-	29	229			29	21.1	29.1	2	29.2	645	NA	NA	14.8*	-	14.8*	-
6/17/2013	13.8*	1.5	13.2	590			13.2	2.3	13.1	31.5	13.1	170	NA	NA	13.6	5.5	13.3	27
7/8/2013	13.7*	-	61.8	594			61.8	3	61.8	44	61.7	10	NA	NA	12.5*	-	12.6	-
8/19/2013	13.5*	-	70	5			68.9	1	68.9	8	69	25	NA	NA	13.5*	-	13.5*	-
9/16/2013	15*	-	72	-			68	-	69	-	69	-	NA	NA	15*	-	15*	-
10/16/2013	61	2.5	18.3*	-			61	1	61	2	61	0.5	NA	NA	15*	-	15*	-
11/14/2013	63.8	4.5	18*	-			65.1	1	65.2	3.5	65.4	54	NA	NA	18.4*	-	18.1	-
12/12/2013	70	-	10	-			68	-	66	-	66	-	NA	NA	8*	-	8.5*	-
1/9/2014	61	-	14*	-			51	-	51	-	51	-	NA	NA	13*	-	13*	-
2/20/2014	65	-	16*	-			58	-	59	-	60	-	NA	NA	16*	-	16*	-
3/14/2014	67	3	16.5*	-			68	1.5	68	2	68	1	NA	NA	15*	-	15	-

TABLE 6
SVE WELL DATA
MCNATTS CLEANERS
TAMPA, HILLSBOROUGH COUNTY, FLORIDA
FDEP FACILITY ID# 299502136

WELL NO.	VE001		VE002		VE003		AI-1		AI-2		AI-3		AI-4		AI-5		AI-6	
DIAMETER	4		4		4		2		2		2		2		2		2	
WELL DEPTH	2.00		2.00		2.00		5.00		5.00		5.00		5.00		5.00		5.00	
SCREEN INTERVAL	horizontal 10' screen		horizontal 10' screen		horizontal 10' screen		1-5		1-5		1-5		1-5		1-5		1-5	
Date	Vacuum	OVA	Vacuum	OVA	Vacuum	OVA	Vacuum	OVA	Vacuum	OVA	Vacuum	OVA	Vacuum	OVA	Vacuum	OVA	Vacuum	OVA
4/9/2014	13.8*	-	61.9	74			61.9	9	61.8	18	62	26	NA	NA	11.7*	-	11.6	-
5/7/2014	15.5*	-	70	118			70	21	70	20	70	34	NA	NA	15.5*	-	15.5*	-
6/6/2014	11*	-	65	54			63	12	64	3	64	4	NA	NA	10.5*	-	10.5	-
7/7/2014	15.2*	-	62.8	-			62.2	-	62.5	-	62.5	-	NA	NA	14.5*	-	14.6*	-
8/6/2014	17*	-	67	5			60	4	66	8	66	10	NA	NA	16*	-	16*	-
9/8/2014	18.8*	-	64	-			56.2	-	60.2	-	61.3	-	NA	NA	18.9*	-	18.6*	-
10/20/2014	22*	-	66.3	-			57.8	-	62.1	-	62.2	-	NA	NA	22*	-	22*	-
11/24/2014	20.2*	-	62.3	48.5			62.7	3	62.4	6.5	62.5	27	NA	NA	16.9*	-	16.9*	-
12/15/2014	19*	-	62.4	-			62.3	-	62.6	-	62.4	-	NA	NA	19.8*	-	16.1*	-
1/13/2015	19*	-	69	-			66	-	69	-	69	-	NA	NA	19*	-	20*	-
2/9/2015	18.4*	-	68.5	35			67.6	7	68.7	5	69	11	NA	NA	17.9*	-	17.9*	-
3/17/2015	18.2*	-	68.8	-			68.2	-	68.8	-	68.7	-	NA	NA	17.3*	-	16.7	-
4/6/2015	19.4*	-	70.7	-			67.9	-	72.4	-	68.9	-	NA	NA	18.8*	-	18.8*	-
5/20/2015	18.5*	-	70.4	35			69.3	22	69.1	13	69.3	20	NA	NA	18.3*	-	18.4*	-
6/11/2015	69.6	-	27.8*	-			68.7	-	69.2	-	69.1	-	NA	NA	28.0*	-	28.0*	-
7/8/2015	58.1	0	26.6*	-			69.1	0	69.2	0	69.2	0	NA	NA	26.5*	-	22.7*	-
8/10/2015	30*	0	21.0*	-			70.3	0	75.6	0	75.8	0	NA	NA	28.0*	-	27.7*	-
9/11/2015	60.2	0	28.1*	-			74.4	0	74.5	0	74.5	0	NA	NA	27.1*	-	27.3*	-
10/13/2015	57.6	-	23.1*	-			70.9	-	73.5	-	74.8	15	NA	NA	24.2*	-	24.3*	-
1/25/2016	73	3	30*	-			74	0	72	0	72	0	NA	NA	30*	-	30*	-
2/16/2016	57.4	-	29*	-			71.6	-	70	-	71.5	-	NA	NA	29*	-	29*	-
3/14/2016	73	-	20.2*	142			73.8	-	73.1	0	75.1	0	NA	NA	21.5*	-	21.6*	-
4/25/2016	76	-	18.8*	-			68.8	-	76.9	-	76.8	-	NA	NA	19.1*	-	19.5*	-
5/19/2016	74.3	-	18*	-			74.6	-	74.1	-	75.3	-	NA	NA	18.9*	-	18.9*	-
6/16/2016	20.5*	-	68.1	157			69.1	130	70.8	216	70.3	133	NA	NA	69.4	279	69.2	176
7/13/2016	20.1*	-	55.0	0			70.8	0	70.2	1.4	72.3	0.9	NA	NA	70.5	-	70.2	1.8
8/27/2016	21.3*	-	71.4	0			69.9	0	74.0	2.5	74.2	1	NA	NA	73.6	0	73.9	0
9/26/2016	21.4*	-	71.8	1.4			71.9	1	71.7	1.7	71.8	2.4	NA	NA	72.2	0	72.0	0
10/18/2016	20.1*	-	74.2	0			75.2	0	74.6	0	74.1	0	NA	NA	74	0	74	0
11/22/2016	63	0	63	0			25.3*	-	25.0*	-	24.8*	-	NA	NA	62.9	0	62.9	0
12/19/2016	72.5	7	72.7	7			25.4*	-	24.9*	-	24.7*	-	NA	NA	72.7	4.5	72.7	3.9
2/2/2017	19.3*	-	19.5*	-			78.3	0	77.9	0	77.7	0	NA	NA	77.7	0	77.6	0
2/27/2017	16.4*	-	17.2*	-			74.7	0	74.8	0	74.2	0	NA	NA	74.5	0	74.6	0
3/28/2017	61.3	3.0	61.7	2.3	63	4.4	21.6*	-	21.2*	-	21.3*	-	NA	NA	21.3*	-	21.3	-
4/21/2017	65.8	2.5	65.8	14.2	64.3	1.6	19.2*	-	16.0*	-	15.7*	-	NA	NA	16.2*	-	16.1*	-
5/18/2017	62.7	2.0	-	-	62.4	0	20.0*	-	21.1*	-	21.2*	-	NA	NA	21.0*	-	20.0*	-
6/27/2017	67.4	1.5	20.1*	-	67.2	2.3	19.4*	-	19.9*	-	19.6*	-	NA	NA	19.8*	-	19.9*	-
7/25/2017	67.1	1.0	67.3	2.1	66.7	1.5	23.2*	-	21.8*	-	21.9*	-	NA	NA	22.0*	-	21.8*	-
8/18/2017	57.6	0.0	69.4	0	49	0	24.0*	-	24.1*	-	24.1*	-	NA	NA	68.3	0	68.9	0
9/25/2017	68.4	0.0	69.1	5	27.5	1	25.7*	-	25.6*	-	25.6*	-	NA	NA	69.7	0	69.4	0
10/30/2017	68.5	3.1	68.2	2.1	24.5	0.2	28.1*	-	28.2*	-	28.6*	-	NA	NA	69.1	2.4	68.7	2.8
11/27/2017	66.7	-	64.7	-	40.0	-	24.8*	-	23.3*	-	24.7*	-	NA	NA	65.5	-	64.7	-
12/22/2017	68.6	0.8	68.7	1	43.4	0.7	24.8*	-	24.5*	-	24.4*	-	NA	NA	68.8	-	68.6	0.8
1/29/2018	65.3	0.1	65.8	1.3	53.4	0.8	25.1*	-	25.2*	-	25.2*	-	NA	NA	63.7	0.2	62.8	0.1
2/23/2018	66.3	1.3	66.9	10.7	49.4	-	26.8*	-	26.0*	-	26.1*	-	NA	NA	66.6	0	65.8	0
3/19/2018	68.9	4.6	69.2	5.4	-	-	25.0*	-	24.8*	-	25.2*	-	NA	NA	69.2	0	69.1	0
4/30/2018	76.6	-	76.9	-	27.3	-	23.5*	-	23.7*	-	23.8*	-	NA	NA	76.5	-	76.6	-
6/5/2018	73.8	0.9	73.8	0.9	-	-	73.6	0.8	73.7	0.7	73.8	0.6	NA	NA	71.6	1	74	1.5
6/26/2018	69.2	1.1	71.4	0.7	-	-	74.7	0.9	75	0.8	70.1	0.4	NA	NA	69.9	1.2	75.8	1.4
7/30/2018	72.2	4.1	72.2	32.9	-	-	72.6	10.6	72.4	6.9	72.2	1.3	NA	NA	33.8	3.3	64.3	2.4
8/22/2018	73.5	-	73	-	-	-	72.6	-	73	-	72.4	-	NA	NA	73.2	-	73.1	-
10/16/2018	76.5	-	75.7	-	-	-	61.2	-	76.8	-	76.1	-	NA	NA	71.2	-	76.8	-

Notes:
* Denotes a positive pressure in H2O.
All Measurements = Feet
No Data = Blank
OVA Readings = ppm
Vacuum = in of H2O
NA = Not Analyzed

TABLE 7
SVE SYSTEM ANALYTICAL AND PERFORMANCE SUMMARY
MCNATTS CLEANERS
TAMPA, HILLSBOROUGH COUNTY, FLORIDA
FDEP FACILITY ID# 299502136

Sample Location	Sample Date	Days between site visits	Hour Meter	Vacuum (in of H20)	OVA (ppm)	Flow (cfm)	PCE	TCE	cis-1,2 DCE	trans-1,2 DCE	1,1,1 TCA	Vinyl Chloride	Total VOC	Emission Rate (lbs/day)	Total Recovered Mass (lbs)
VE001	12/01/04		9532.7	55	17	39	286	40.1	26.9	1.4	1.3	0.6	356.3		
VE002	12/01/04		9532.7	55	205	39	2340	48.8	82.9	< 4.6	< 6	< 4.5	2471.7		
Effluent	12/01/04		9532.7	60	BDL	39	29.8	< 0.46	< 0.45	< 0.46	< 0.6	< 0.45	29.8	0.11	
Influent	12/01/04		9532.7	60	255	39	1380	48.1	53.1	2.3	< 0.6	1.8	1485.3		
Effluent	12/08/04	7	9699.4	64	33	96	941	10.6	14.1	< 1	< 1	< 1	965.7		52
Influent	12/08/04	7	9699.4	64	BDL	96	4.7	< 1	< 1	< 1	< 1	< 1	4.7	0.04	
Effluent	01/05/05	28	10373.4	60	BDL	23	280	1.3	1.4	< 1	< 1	< 1	282.7	0.59	
Influent	01/05/05	28	10373.4	60	30	23	235	1.3	1.9	< 1	< 1	< 1	238.2	0.50	142
Influent	03/07/05	61	10948	60	70	33	423	3.3	3.7	< 1	< 1	< 1	430	1.28	163
Influent	06/02/05	87	11923.7	48	10	33	78.4	0.85	1.1	< 0.46	< 0.6	< 0.45	80	0.24	194
Influent	08/01/05	60	12569												
Influent	08/29/05	28	12624	62											
Influent	09/09/05	11	12675												
Influent	09/28/05	19	13135.5	43	13	110	17.7	< 0.74	0.56	< 0.61	< 0.56	< 0.69	18.3	0.18	209
Effluent	11/21/05	54	14429	68	NA	50	14.5	< 0.74	0.34	< 0.61	< 0.56	< 0.69	14.8	0.07	216
Influent	01/20/06		15469.8												
Influent	03/15/06	114	16095.9	70	NA	90	36.6	< 1	0.57	< 1	< 1	< 1	37.2	0.30	227
Influent	04/12/06	28	16506.5	60		73									
Influent	06/29/06	78	18224.5	65		75	42.9	< 0.74	0.52	< 0.61	< 0.56	< 0.69	43.4	0.29	246
Influent	09/27/06	90	19783	54		81	4.2	< 0.74	< 0.32	< 0.61	< 0.56	< 0.69	4.2	0.03	257
Influent	11/29/06	63	20899	55	NA	75	16.5	< 0.74	< 0.32	< 0.61	< 0.56	< 0.69	16.5	0.11	261
Influent	02/14/07	77	22743	53	NA	80	8.2	< 0.74	< 0.32	< 0.61	< 0.56	< 0.69	8.2	0.06	267
Influent	05/29/07	104	25340	36	NA	72	61.1	< 0.63	< 0.53	< 0.22	< 0.27	1.8	61	0.40	293
Influent	11/13/07	168	27205	45		74	25.4	0.42	0.77	< 0.14	< 0.11	< 0.12	26.6	0.18	315
Influent	12/12/07	29													
Influent	01/03/08	22	27905	47		76	120	3.1	1.8	< 0.14	< 0.11	< 0.12	125	0.85	330
Influent	02/13/08	41	28885												
Influent	03/17/08	33	29676												
Influent	04/04/08	18	30084	58		69	11.9	0.32 I	< 0.1	< 0.14 J3	< 0.11	< 0.12	12	0.07	371
Influent	05/06/08	32	30875												
Influent	06/05/08	30	31601												
Influent	06/23/08	18	32033	52		60	10.51	0.11	0.11	< 0.0056	< 0.0142	< 0.0071	11	0.06	376
Influent	11/25/08	155	35749.7	84		95	13.02	0.13	0.25	< 0.0069	< 0.0177	< 0.0088	13	0.11	389
Influent	02/23/09	90	37445.5	87		106	8.48	0.22	0.19	< 0.0056	< 0.0142	< 0.0071	8.89	0.08	396
Influent	09/14/09	203	42265.1	30.7		112	1.63	0.05	0.02	< 0.00379	< 0.00375	< 0.00297	1.70	0.02	406
Influent	01/28/10	136	44233.2	35		112	7.12	1.87	0.35	0.02	< 0.00747	< 0.00596	9.37	0.09	411
Influent	03/29/10	60	45161.5	80		98	4.31	0.288	0.44	0.0309	< 0.00747	< 0.00596	5.07	0.04	414
Influent	07/12/10	105	47678.5	74		98	0.197	0.032	0.0674	< 0.00151	< 0.0015	< 0.00119	0.30	0.00	416
Influent	09/23/10	73	49428.3	74		94	0.766	0.0361	0.144	< 0.00151	< 0.0015	0.00245 I	0.95	0.01	417
Influent	01/31/11	131	50716.3	67		86	7.59	0.104	0.265	< 0.00523	< 0.0174	0.0204 I	7.96	0.06	419
Influent	02/22/11	22	51030.1	67		96	5.26	0.0699	0.191	< 0.00262	< 0.00868	0.00844 I	5.52	0.05	419
VE001	04/12/11						0.0586	0.161	1.02	0.0392	< 0.00434	< 0.00355			
VE002	04/12/11						25.4	0.0838 I	0.24	< 0.0105	< 0.0347	< 0.0284			
AI-2	04/12/11						0.344	0.00618 I	0.0618	< 0.00131	< 0.00434	< 0.00355			

TABLE 7
SVE SYSTEM ANALYTICAL AND PERFORMANCE SUMMARY
MCNATTS CLEANERS
TAMPA, HILLSBOROUGH COUNTY, FLORIDA
FDEP FACILITY ID# 299502136

Sample Location	Sample Date	Days between site visits	Hour Meter	Vacuum (in of H20)	OVA (ppm)	Flow (cfm)	PCE	TCE	cis-1,2 DCE	trans-1,2 DCE	1,1,1 TCA	Vinyl Chloride	Total VOC	Emission Rate (lbs/day)	Total Recovered Mass (lbs)
AI-3	04/12/11						0.129	0.0272	0.0285	< 0.000523	< 0.00174	< 0.00142			
AI-5	04/12/11						0.151	0.349	1.61	0.0567	< 0.00434	< 0.00355			
AI-6	04/12/11						0.497	0.0236	< 0.0016	< 0.00105	< 0.00347	< 0.00284			
Influent	05/31/11	49	53808.4	72		94	2.32	0.0361	0.0547	0.00209 U	0.00693 U	0.00567 U	2.41	0.02	423.1
Influent	08/31/11	92	55511.5	74		94	2.07	0.0742	0.341	0.00131 U	0.00434 U	0.0207	2.51	0.02	424.6
Influent	12/12/11	103	57738.3	64		96	1.08	0.0602	0.114	0.00169 U	0.00214 U	0.0106	1.26	0.01	426.1
Influent	03/29/12	108	59208.4	59.5		94	1.67	0.0785	0.201	0.0042 U	0.00535 U	0.00984	1.96	0.02	427.0
Influent	07/16/12	109	60664.9	80		110	0.582	0.0287	0.048	0.000844 U	0.00107 U	0.00721	0.67	0.01	427.7
Influent	10/17/12	93	61753.4	75.5		94	1.92	0.0752	0.137	0.00338 U	0.00428 U	0.0224	2.15	0.02	428.3
Influent	01/08/13	83	63546.7	73.9		94	0.548	0.0175	0.0334	0.00169 U	0.00214 U	0.00337	0.60	0.01	429.1
Influent	03/12/13	63	64428.3	74	200	94	2.68	0.0828	0.199	0.0169 U	0.0214 U	0.0302	2.99	0.03	429.7
Influent	06/17/13	97	65141.0	69.2	180	71	20.6	0.817	1.47	0.0844 U	0.107 U	0.181	23.07	0.15	432.6
Influent	09/16/13	91	65554.8	69.5	-	56	3.38	0.16	0.284	0.00844 U	0.0107 U	0.0567	3.88	0.02	433.9
Influent	11/14/13	59	65910.6	66	-	73	0.347	0.0559	0.123	0.00698	0.00214 U	0.00619	0.54	0.00	434.1
Influent	02/20/14	98	66498.1	64	-	82	0.167	0.0994	0.122	0.00338 U	0.00428 U	0.00404 U	0.39	0.00	434.2
Influent	05/07/14	76	66875.5	71	108	108	5.296	0.391	0.698	0.017 U	0.021 U	0.325	6.71	0.07	434.6
Influent	08/06/14	91	67420.3	67	23	72	1.112	0.11	0.112	0.004 U	0.005 U	0.016	1.35	0.01	435.4
Influent	11/24/14	110	68083.2	62.1	48.5	63	2.143	0.128	0.346	0.007 U	0.007 U	0.079	2.70	0.02	435.7
Influent	02/09/15	77	68543.2	68.7	17	81	0.402	0.062	0.192	0.003 U	0.003 U	0.024	0.68	0.00	435.9
Influent	05/20/15	100	69142.2	69.3	52	179	0.888	0.163	0.273	0.006 U	0.005 U	0.01	1.33	0.02	436.2
Influent	08/10/15	82	69639.0	74.7	0	168	0.098	0.116	0.333	0.015	0.005 U	0.012	0.57	0.01	436.5
Influent	01/25/16	168	69991.0	74	2	163	0.301	0.109	0.268	0.013	0.001 U	0.095	0.79	0.01	436.7
Influent	03/14/16	49	70280.6	75.2	31	129	0.133	0.511	0.547	0.017 I	0.056	0.011 U	1.25	0.01	436.8
Influent	06/16/16	94	70787.5	68.7	62.2	78	22.378	0.382	1.713	0.129 U	0.136 U	0.141	24.61	0.17	439.4
Influent	09/26/16	102	71248.4	73.6	2.3	77	1.119	0.391	2.228	0.071	0.027 U	0.203	4.01	0.03	441.3
Influent	12/19/16	84	71753.6	72.9	2.5	64	0.164	0.015	0.072	0.006 U	0.007 U	0.011	0.26	0.00	441.6
Influent	03/28/17	99	72348.4	63.7	1.9	52	0.513	0.09	0.272	0.013 U	0.014 U	0.127	1.00	0.00	441.7
Influent	06/27/17	91	72823.4	73.4	2.1	82	0.037	0.009 U	0.006 U	0.005 U	0.005 U	0.004 U	0.04	0.00	441.7
Influent	09/25/17	90	73084.0	71.2	3	53	1.16	0.217	0.833	0.023	0.014 U	0.124	2.36	0.01	441.8
Influent	12/22/17	88	73609.0	69.5	1.2	71	3.547	0.241	0.662	0.026 U	0.027 U	0.087	4.54	0.03	442.2
Influent	03/19/18	87	73665.8	68.9	2.3	39	0.666	0.138	0.397	0.026 U	0.027 U	0.141	1.34	0.00	442.3
Influent	06/26/18	99	75547.8	75.2	1.4	78	1.79	0.338	1.063	0.026 U	0.027 U	0.020 U	3.19	0.02	443.2
Influent	10/16/18	112	77870.3	77	-	72	1.0	0.24	0.64	0.0099 U	0.014 U	0.17	2.05	0.01	444.9

Notes:
Below Detection Limits = BDL
Not Sampled = NS
Analytical Results = mg/m^3
U or < - Indicates that the compound was analyzed for but not detected above the method detection limit (MDL).

Appendix B
Field Notes and O&M Data Sheets

Location McNabb Ehrlich Date 10-30-17

Project / Client 090113

Task. Perform O&M on system
H&S: Level D
Weather: 64°
GHD: Joe Ortamides, Joe Tyson
Equip: GHD E250 Ford Van TAMPA Office
GHD Anemometer TPA 1000
GHD Manometer TPA 1003
GHD PID NF07717
GHD PID NF07587
12:00 Arrive onsite: Hold tailgate safety meeting: Topics: Watch overhead cloths racks, slip, Trip, falls, pinch points
SVE Hrs 73291 Σ AI Hrs 37453
Collect readings from system see O&M sheet for details.
14:00 Pack up equip
14:15 GHD offsite
14:40 Arrive out. GHD unload equip. Fill out COC for Air sample & Field Notes.
16:00 EOD

McNatts Cleaners - Ehrlich Road, Tampa

Date	10/30/17
Time	1215
System running on arrival	Yes
System running when leaving	Yes
If no, describe reason for fault	

reset if necessary_____

SVE Design Parameters	
Total Design Vacuum	32 in H2O
Wellhead Vacuum	10 in H2O
Total Flow	126 scfm
Flow per Well	63 scfm

	Pressure/Vacuum (inH2O)	FID/PID (ppm)	Anemometer (fpm)
Air Injection	+28.4	—	196
After Blower	+4.8	—	----
Knockout Tank	-69.7	—	----
Before Knockout Tank	-66.0	0.3	766
VE001	-68.5	3.1	625
VE002	-68.2	~~0.0~~ 1.1	506
VE003	-24.5	0.2	242
AI-1	+28.1	—	76.0
AI-2	+28.2	2.1	98.0
AI-3	+28.6	—	78.0
AI-4	—	—	—
AI-5	-69.1	~~2.4~~	651 H2O
AI-6	-68.7	2.8	567

Hour Meter Readings

SVE	732913
Air Injection	374653

Temp. Readings

SVE influent	80.3
SVE effluent	215°F
AI	110°F

Water Level

MW051	5.25

System Configuration	Full/Partial/Closed
VE001	OPEN
VE002	
AI-1	
AI-2	
AI-3	
AI-4	
AI-5	
AI-6	
Dilution Valve	

Site Conditions	
Outside Air Temp.	64 °F
Wind Direction/Speed	N/5mph
DC Machine on/off	Off
Site Condition	Sunc

Sample SVE System	Point ID	Sample ID	Time	Method
Effluent	AR001	AR		TO-15
Influent	AR002	AR		TO-15

Notes: Troubleshooting/Maintenance

Pulling H_2O

Location _____ Date 11.27.17

Project / Client _____

7:00	Arrived at GHD. Time sheet / Expense Report
7:45	Look over schedule.
8:00	Talk w/ Jenna on schedule.
8:15	Talk to Jeremy on Fadi Food Mart.
8:30	Load for O+M.
8:45	Travel to Warehouse for Ice. Mileage 205555
9:15	Travel to McNatt's.
10:00	Arrived at McNatt's Check in w/ Manager. Collect O+M data.
11:15	Finish. Pack up equip.
11:30	Travel to NJ Way Cleaners. Mileage 205595
12:15	Arrived at NJ Way. Collect O+M data.
13:30	Send Drew email on system data. Email didn't send. Call Drew & send via text. Discuss what flows he looking for.
14:00	Increase vacuum. Collect new data. Turned up 10". Pull moisture. Decrease 5". Collect data.
15:00	Finish. Travel to GHD. Mileage 205693
15:30	Arrived at GHD. Talk to Brian on O+M
15:45	Talk to Jenna.
16:00	Look for sample cooler for Michaels.
16:30	End Day.

McNatts Cleaners - Ehrlich Road, Tampa

Date	11-27-17
Time	10:30
System running on arrival	No
System running when leaving	
If no, describe reason for fault	Timer. reset if necessary_____

SVE Design Parameters	
Total Design Vacuum	32 in H2O
Wellhead Vacuum	10 in H2O
Total Flow	126 scfm
Flow per Well	63 scfm

	Pressure/Vacuum (inH2O)	FID/PID (ppm)	Anemometer (fpm)
Air Injection	+25		237
After Blower	+9.6		----
Knockout Tank	-68.2		----
Before Knockout Tank	-66.9		1622
VE001	-66.7		1503
VE002	-64.7		1452
VE003	17/40		1500
AI-1	+24.3		115
AI-2	+23.3		38
AI-3	+24.7		44
AI-4	—	—	—
AI-5	-65.5		1522
AI-6	-64.7		1434

Hour Meter Readings

SVE	73458.3
Air Injection	37632.9

Temp. Readings

SVE influent	77.7
SVE effluent	
AI	111.3

Water Level

MW051	4.61

System Configuration	Full/Partial/Closed
VE001	Open
VE002	
AI-1	
AI-2	
AI-3	
AI-4	
AI-5	
AI-6	
Dilution Valve	

Site Conditions	
Outside Air Temp.	72 °F
Wind Direction/Speed	SW/5-10
DC Machine on/off	On
Site Condition	Normal

Sample SVE System	Point ID	Sample ID	Time	Method
Effluent	AR001	AR		TO-15
Influent	AR002	AR		TO-15

Notes: Troubleshooting/Maintenance

Location McNutts Ehrlich Date 12-22-17

Project / Client 090113

Task: Perform O&M collect InF Summa Can sample.
H&S: Level D
Weather: Sunny 70°
GHD: Joe Orfanidas
Equip: GHD E 250 Ford Van Tampa Office
GHD Anemometer TPA 1000
GHD Manometer TPA 1002
GHD PID NF 07587
GHD DTW NF 07614
08:00 At GHD pick up equip & work plan.
08:15 Mobe to site from office.
08:50 Arrive onsite: Hold tailgate safety meeting.
09:00 Start system because it is off Due to Timer.
SVE Hrs 73609.0
AI Hrs 37633.2
Set up and calibrate PID - Read 52ppm Recal PID then Read 100ppm.
Perform O&M on systems
AI Blower was off due to Breaker was Tripped / Reset Blower came on.

Rain in the Rain

Location McNutts Ehrlich Date 12.22.17

Project / Client 090113

10:40 Collect Inf sample in Summa Can.
10:30 Pack up equip
10:45 GHD offsite Mobe to office.
11:25 Arrive at GHD fill out COC. Pack Summa Can and put up front to be sent out VIA Fed Ex.
Put away all equip & fill out field book.
12:50 Speak w/ P.M about site.
13:00 EOD

Location Date

Project / Client

McNatts Cleaners - Ehrlich Road, Tampa

Date	12-22-17
Time	09:00
System running on arrival	No
System running when leaving	
If no, describe reason for fault	off due to Timer

reset if necessary

AI Blower - Motor Starter Tripped Reset

SVE Design Parameters	
Total Design Vacuum	32 in H2O
Wellhead Vacuum	10 in H2O
Total Flow	126 scfm
Flow per Well	63 scfm

	Pressure/Vacuum (inH2O)	FID/PID (ppm)	Anemometer (fpm)
Air Injection	+29.5	—	277
After Blower	+9.5	8.0	---
Knockout Tank	-70.2	0	---
Before Knockout Tank	-69.5	1.2	1444
VE001	-68.6	0.8	1390
VE002	-68.7	1.0	1353
VE003	-43.4	0.7	1168
AI-1	+24.3	~~103~~	102
AI-2	+24.5	—	~~24.5~~ 186
AI-3	+24.9	2.9	97
AI-4			
AI-5	-68.8		1437
AI-6	-68.6	0.8	1572

Hour Meter Readings

SVE	736090
Air Injection	376338

Temp. Readings

SVE influent	69.2
SVE effluent	210
AI	110

Water Level

MW051	4.67

System Configuration	Full/Partial/Closed
VE001	OPEN
VE002	
AI-1	
AI-2	
AI-3	
AI-4	
AI-5	
AI-6	
Dilution Valve VE003	Partial

Site Conditions	
Outside Air Temp.	62 °F
Wind Direction/Speed	S
DC Machine on/off	ON
Site Condition	Some

Sample SVE System	Point ID	Sample ID	Time	Method
Effluent	AR001	AR	~~10:15~~	TO-15
Influent	AR002	AR091	10:90	TO-15

CAN 0219

Notes: Troubleshooting/Maintenance

Location Tampa, FL Date 1/29/13 145

Project / Client McNutt's Ehrlich

090113 ERIC_4752

Task: O+M, Sample two inside wells for Methane, Ethane + Ethene (See Scope)
Equipment: Anemometer, Manometer, PID, Tedlar Bag, hand Pump
Vehicle: Ford F-150 #1601-GHD
Weather: ≈70° F
On Site: Enviro Gonzalez-GHD
1540 Depart Fedex (Brandon) for site
1620 On Site
1625 Tailgate Safety
1630 Go to System Control Panel (not running) System set to stop running @1608, ~~Reset System~~ EAG troubleshoot
1700 Reset System / turn on
1705 Cal Equip
1715 Begin Purging + ~~Sampling~~ MWs (See GW sheets)
Conduct O+M while GW is purging
1845 Finish GW sampling (See GW sheets)
1900 Finish O+M (See O+M sheet)
1905 Off Site
1930 Office/Unload/Cal/Prep Samples for labs
1945 End of Day

McNatts Cleaners - Ehrlich Road, Tampa

Date	1/29/18	1/29/18
Time	1630	1630
System running on arrival		NO
System running when leaving		NO
If no, describe reason for fault		Timer Not set to run when arrived. Remedied reset if necessary Yes

SVE Design Parameters	
Total Design Vacuum	32 in H2O
Wellhead Vacuum	10 in H2O
Total Flow	126 scfm
Flow per Well	63 scfm

	Pressure/Vacuum (inH2O)	FID/PID (ppm)	Anemometer (fpm)
Air Injection	+28.8	0.1	302
After Blower	+10.0 ~~+28.8~~	4.5	----
Knockout Tank	-64.5	0.1	----
Before Knockout Tank	-67.3	1.0	1258
VE001	-65.8	1.3	1360
VE002	-65.3	0.1	986
VE003	-53.4	0.8	798
AI-1	25.1	0	153
AI-2	25.2	0	287
AI-3	25.2	0	137
AI-4			
AI-5	-63.7	0.2	2113
AI-6	-62.8	0.1	1312

Hour Meter Readings

SVE	73612
Air Injection	37636

Temp. Readings

SVE influent	87.9
SVE effluent	207
AI	107

Water Level

MW051	3.78

System Configuration	Full/Partial/Closed
VE001	Open
VE002	
AI-1	
AI-2	
AI-3	
AI-4	
AI-5	
AI-6	
Dilution Valve	Partial

Site Conditions	
Outside Air Temp.	61 °F
Wind Direction/Speed	NW
DC Machine on/off	Off
Site Condition	Same

Sample SVE System	Point ID	Sample ID	Time	Method
Effluent	AR001	AR		TO-15
Influent	AR002	AR		TO-15

Notes: Troubleshooting/Maintenance

DEP Form FD 9000-24: GROUNDWATER SAMPLING LOG

SITE NAME: McNatt's Ehrlich	SITE LOCATION: Tampa, FL	
WELL NO: MW051	SAMPLE ID: GW657	DATE: 1/29/18

PURGING DATA

WELL DIAMETER (inches): 1	TUBING DIAMETER (inches): 1/4	WELL SCREEN INTERVAL DEPTH: 2 feet to 12 feet	STATIC DEPTH TO WATER (feet): 3.78	PURGE PUMP TYPE OR BAILER:

WELL VOLUME PURGE: 1 WELL VOLUME = (TOTAL WELL DEPTH – STATIC DEPTH TO WATER) X WELL CAPACITY (only fill out if applicable)

= (12 feet – 3.78 feet) X 0.041 gallons/foot = 0.329 gallons

EQUIPMENT VOLUME PURGE: 1 EQUIPMENT VOL. = PUMP VOLUME + (TUBING CAPACITY X TUBING LENGTH) + FLOW CELL VOLUME (only fill out if applicable)

= gallons + (gallons/foot X feet) + gallons = gallons

INITIAL PUMP OR TUBING DEPTH IN WELL (feet): 7.9	FINAL PUMP OR TUBING DEPTH IN WELL (feet):	PURGING INITIATED AT: 1715	PURGING ENDED AT: 1751	TOTAL VOLUME PURGED (gallons): 0.72

TIME	VOLUME PURGED (gallons)	CUMUL. VOLUME PURGED (gallons)	PURGE RATE (gpm)	DEPTH TO WATER (feet)	pH (standard units)	COND. (circle units) µmhos/cm or µS/cm	TEMP. (°C)	DISSOLVED OXYGEN (circle units) mg/L or % saturation	TURBIDITY (NTUs)	ORP (mV)	COLOR/ ODOR (describe)
1742	0.54	0.54	0.02	6.02	5.65	2311	22.47	1.20	overrange	14.4	Brown/Turbid
1745	0.06	0.6	"	6.11	5.64	2310	22.44	0.91	overrange	14.2	"
1748	0.06	0.66	"	6.19	5.65	2311	22.43	0.88	overrange	14.2	"
1751	0.06	0.72	"	6.27	5.64	2307	22.41	0.83	overrange	14.4	"

WELL CAPACITY (Gallons Per Foot): **0.75"** = 0.02; **1"** = 0.04; **1.25"** = 0.06; **2"** = 0.16; **3"** = 0.37; **4"** = 0.65; **5"** = 1.02; **6"** = 1.47; **12"** = 5.88
TUBING INSIDE DIA. CAPACITY (Gal./Ft.): **1/8"** = 0.0006; **3/16"** = 0.0014; **1/4"** = 0.0026; **5/16"** = 0.004; **3/8"** = 0.006; **1/2"** = 0.010; **5/8"** = 0.016

PURGING EQUIPMENT CODES: **B** = Bailer; **BP** = Bladder Pump; **ESP** = Electric Submersible Pump; **PP** = Peristaltic Pump; **O** = Other (Specify)

SAMPLING DATA

SAMPLED BY (PRINT) / AFFILIATION: Enrico Gonzalez GHD	SAMPLER(S) SIGNATURE(S):	SAMPLING INITIATED AT: 1752	SAMPLING ENDED AT: 1755
PUMP OR TUBING DEPTH IN WELL (feet): 7.9	TUBING MATERIAL CODE: HDPE	FIELD-FILTERED: Y (N) Filtration Equipment Type:	FILTER SIZE: ____ µm
FIELD DECONTAMINATION: PUMP Y (N)	TUBING Y (N (replaced))	DUPLICATE: Y (N)	

SAMPLE CONTAINER SPECIFICATION				SAMPLE PRESERVATION (including wet ice)					
SAMPLE ID CODE	# CONTAINERS	MATERIAL CODE	VOLUME	PRESERVATIVE USED	TOTAL VOL ADDED IN FIELD (mL)	FINAL pH			
							Ethane		
							Ethene		
							Methane		

REMARKS: Injection fluid in well.

MATERIAL CODES: **AG** = Amber Glass; **CG** = Clear Glass; **HDPE** = High Density Polyethylene; **LDPE** = Low Density Polyethylene; **PP** = Polypropylene; **S** = Silicone; **T** = Teflon; **O** = Other (Specify)

SAMPLING EQUIPMENT CODES: **APP** = After (Through) Peristaltic Pump; **B** = Bailer; **BP** = Bladder Pump; **ESP** = Electric Submersible Pump; **RFPP** = Reverse Flow Peristaltic Pump; **SM** = Straw Method (Tubing Gravity Drain); **O** = Other (Specify)

NOTES: 1. **The above do not constitute all of the information required by Chapter 62-160, F.A.C.**

2. STABILIZATION CRITERIA FOR RANGE OF VARIATION OF LAST THREE CONSECUTIVE READINGS (SEE FS 2212, SECTION 3)

pH: ± 0.2 units **Temperature:** ± 0.2 °C **Specific Conductance:** ± 5% **Dissolved Oxygen:** all readings ≤ 20% saturation (see Table FS 2200-2); optionally, ± 0.2 mg/L or ± 10% (whichever is greater) **Turbidity:** all readings ≤ 20 NTU; optionally ± 5 NTU or ± 10% (whichever is greater)

0.69

DEP Form FD 9000-24: GROUNDWATER SAMPLING LOG

SITE NAME: ~~Hurleys~~ McNutts Ehrlich	SITE LOCATION: ~~Orlando, Fl~~ Tampa, FL	
WELL NO: MW052	SAMPLE ID: GW658	DATE: ~~11/1/17~~ 1/29/18

PURGING DATA

WELL DIAMETER (inches): 3/4	TUBING DIAMETER (inches): 1/4	WELL SCREEN INTERVAL DEPTH: 25 feet to 35 feet	STATIC DEPTH TO WATER (feet): 4.03	PURGE PUMP TYPE OR BAILER: APP

WELL VOLUME PURGE: 1 WELL VOLUME = (TOTAL WELL DEPTH – STATIC DEPTH TO WATER) X WELL CAPACITY
(only fill out if applicable)
= (feet – feet) X gallons/foot = gallons

EQUIPMENT VOLUME PURGE: 1 EQUIPMENT VOL. = PUMP VOLUME + (TUBING CAPACITY X TUBING LENGTH) + FLOW CELL VOLUME
(only fill out if applicable)
= gallons + (0.0016 gallons/foot X 40 feet) + 0.125 gallons = 0.329 gallons

INITIAL PUMP OR TUBING DEPTH IN WELL (feet): 30	FINAL PUMP OR TUBING DEPTH IN WELL (feet): 30	PURGING INITIATED AT: 1820	PURGING ENDED AT: 1841	TOTAL VOLUME PURGED (gallons): 0.84

TIME	VOLUME PURGED (gallons)	CUMUL. VOLUME PURGED (gallons)	PURGE RATE (gpm)	DEPTH TO WATER (feet)	pH (standard units)	COND. (circle units) µmhos/cm or µS/cm	TEMP. (°C)	DISSOLVED OXYGEN (circle units) mg/L or % saturation	TURBIDITY (NTUs)	ORP (mV)	COLOR/ ODOR (describe)
1832	0.48	0.48	0.04		5.28	319	24.30	0.73	128	-1.2	PBrown/Inject
1835	0.12	0.60	"		5.27	319	24.31	0.65	120	0.6	"
1838	0.12	0.72	"		5.26	319	24.29	0.64	111	1.6	"
1841	0.12	0.84	"		5.25	320	24.27	0.63	105	2.4	"

WELL CAPACITY (Gallons Per Foot): **0.75"** = 0.02; **1"** = 0.04; **1.25"** = 0.06; **2"** = 0.16; **3"** = 0.37; **4"** = 0.65; **5"** = 1.02; **6"** = 1.47; **12"** = 5.88
TUBING INSIDE DIA. CAPACITY (Gal./Ft.): **1/8"** = 0.0006; **3/16"** = 0.0014; **1/4"** = 0.0026; **5/16"** = 0.004; **3/8"** = 0.006; **1/2"** = 0.010; **5/8"** = 0.016

PURGING EQUIPMENT CODES: **B** = Bailer; **BP** = Bladder Pump; **ESP** = Electric Submersible Pump; **PP** = Peristaltic Pump; **O** = Other (Specify)

SAMPLING DATA

SAMPLED BY (PRINT) / AFFILIATION: Enrico Gonzalez / GHD	SAMPLER(S) SIGNATURE(S):	SAMPLING INITIATED AT: 1842	SAMPLING ENDED AT: 1845
PUMP OR TUBING DEPTH IN WELL (feet): 30	TUBING MATERIAL CODE: HDPE	FIELD-FILTERED: Y (N) Filtration Equipment Type:	FILTER SIZE: ____ µm
FIELD DECONTAMINATION: PUMP Y (N)	TUBING Y (N replaced)	DUPLICATE: Y (N)	

SAMPLE CONTAINER SPECIFICATION				SAMPLE PRESERVATION (including wet ice)					
SAMPLE ID CODE	# CONTAINERS	MATERIAL CODE	VOLUME	PRESERVATIVE USED	TOTAL VOL ADDED IN FIELD (mL)	FINAL pH	INTENDED ANALYSIS AND/OR METHOD	SAMPLING EQUIPMENT CODE	SAMPLE PUMP FLOW RATE (mL per minute)
							Methane	APP	>400
							Ethane		
							Ethene		

REMARKS: Injection fluid in well.

MATERIAL CODES: **AG** = Amber Glass; **CG** = Clear Glass; **HDPE** = High Density Polyethylene; **LDPE** = Low Density Polyethylene; **PP** = Polypropylene; **S** = Silicone; **T** = Teflon; **O** = Other (Specify)

SAMPLING EQUIPMENT CODES: **APP** = After (Through) Peristaltic Pump; **B** = Bailer; **BP** = Bladder Pump; **ESP** = Electric Submersible Pump; **RFPP** = Reverse Flow Peristaltic Pump; **SM** = Straw Method (Tubing Gravity Drain); **O** = Other (Specify)

NOTES: 1. **The above do not constitute all of the information required by Chapter 62-160, F.A.C.**
2. STABILIZATION CRITERIA FOR RANGE OF VARIATION OF LAST THREE CONSECUTIVE READINGS (SEE FS 2212, SECTION 3)

pH: ± 0.2 units **Temperature:** ± 0.2 °C **Specific Conductance:** ± 5% **Dissolved Oxygen:** all readings ≤ 20% saturation (see Table FS 2200-2); optionally, ± 0.2 mg/L or ± 10% (whichever is greater) **Turbidity:** all readings ≤ 20 NTU; optionally ± 5 NTU or ± 10% (whichever is greater)

DEP-SOP-001/01: Form FD 9000-8

Field Instrument Calibration Records

USER (Full Name) **Enrico Gonzalez** **LOCATION** Tampa, FL

PROJECT NAME McNutt's Ehrlich **PROJECT NUMBER** 060113

INSTRUMENT (MAKE/MODEL#) YSI Pro Plus **INSTRUMENT** (CONTROL #) US Env Rental

☒ **pH**

STANDARDS: *[Specify the type(s) of standards used for calibration, the origin of the standards, the standard values, and the date the standards were prepared or purchased]*

Standard A pH 7.00 Buffer Capsule, Exaxol., Lot # 6GH454, EXP. 08/18

Standard B pH 4.01 Buffer Capsule Exaxol. Lot # 6GH452, Exp. 08/18

Standard C _____

DATE (yy/mm/dd)	TIME (hr:min)	STD (A, B, C)	STD VALUE	INSTRUMENT RESPONSE	% DEV	CALIBRATED (YES, NO)	TYPE (INIT, CONT)	SAMPLER INITIALS
1/29/18	1705	A	7	6.99	0.1	YES	INIT	EAG
	↓	B	4	4.01	0.25	YES	INIT	EAG
	1930	A	7	6.98	0.3	YES	CONT	EAG
↓	↓	B	4	3.99	0.25	YES	CONT	EAG
		A	7			YES	CONT	EAG
		B	4			YES	CONT	EAG

☒ **CONDUCTIVITY**

STANDARDS: *[Specify the type(s) of standards used for calibration, the origin of the standards, the standard values, and the date the standards were prepared or purchased]*

Standard A *1000us/cm @ 25 degrees C, IE, Exp.* 2/15/18, Lot # 12620

Standard B _____

Standard C _____

DATE (yy/mm/dd)	TIME (hr:min)	STD (A, B, C)	STD VALUE	INSTRUMENT RESPONSE	% DEV	CALIBRATED (YES, NO)	TYPE (INIT, CONT)	SAMPLER INITIALS
1/29/18	1705	A	1000	9850 239	0.6	YES	INIT	EAG
↓	1930	A	1000	1006 µS/cm	0.6	YES	CONT	EAG
		A	1000			YES	INIT	EAG
		A	1000			YES	CONT	EAG

☒ **DO**

STANDARDS: *[Specify the type(s) of standards used for calibration, the origin of the standards, the standard values, and the date the standards were prepared or purchased]*

Standard A Saturated Air Chamber/100%

Standard B _____

Standard C _____

DATE (yy/mm/dd)	TIME (hr:min)	STD (A, B, C)	STD VALUE	INSTRUMENT RESPONSE	% DEV	CALIBRATED (YES, NO)	TYPE (INIT, CONT)	SAMPLER INITIALS
1/29/18	1705	A	100	98.7	1.3	YES	INIT	EAG
↓	1930	A	100	99.4	0.6	YES	CONT	EAG
		A	100			YES	INIT	EAG
		A	100			YES	CONT	EAG

DEP-SOP-001/01: Form FD 9000-8

USER (Full Name) **Enrico Gonzalez** **LOCATION** Tampa, FL
PROJECT NAME McNatts Ehrlich **PROJECT NUMBER** 040113
INSTRUMENT (MAKE/MODEL#) Hach 2100Q **INSTRUMENT** (CONTROL #) 4 US Env Rental

☒ **TURBIDITY**

STANDARDS: *[Specify the type(s) of standards used for calibration, the origin of the standards, the standard values, and the date the standards were prepared or purchased]*

Standard A 20.0 ntu,Hach. Lot # A7144, Exp. 08/18
Standard B 100 ntu, Hach, Lot # A7144, Exp. 08/18
Standard C 800 ntu,Hach, Lot # A7144, Exp. 08/18

DATE (yy/mm/dd)	TIME (hr:min)	STD (A, B, C)	STD VALUE	INSTRUMENT RESPONSE	% DEV	CALIBRATED (YES, NO)	TYPE (INIT, CONT)	SAMPLER INITIALS
1/29/18	1705	A	20	19.9	0.5	YES	INIT	EAG
	↓	B	100	99.6	0.4	YES	INIT	EAG
↓	↓	C	800	789	1.4	YES	INIT	EAG
↓	1930	A	20	19.8	1	YES	CONT	EAG
↓	↓	B	100	99.7	0.3	YES	CONT	EAG
↓	↓	C	800	791	1.1	YES	CONT	EAG

INSTRUMENT (MAKE/MODEL#) LaMotte 2020E **INSTRUMENT #** _____

☒ **TURBIDITY**

STANDARDS: *[Specify the type(s) of standards used for calibration, the origin of the standards, the standard values, and the date the standards were prepared or purchased]*

Standard A 0.0ntu, AMCO Primary, Exp. 1/18, Lot # C689664
Standard B 1.0ntu, AMCO Primary, Exp. 3/18, Lot # C582717
Standard C _____

DATE (yy/mm/dd)	TIME (hr:min)	STD (A, B, C)	STD VALUE	INSTRUMENT RESPONSE	% DEV	CALIBRATED (YES, NO)	TYPE (INIT, CONT)	SAMPLER INITIALS
		A	0			YES	INIT	EAG
		B	1			YES	INIT	EAG
		A	0			YES	CONT	EAG
		B	1			YES	CONT	EAG
		A	0			YES	INIT	EAG
		B	1			YES	INIT	EAG

Location McNatts Ehrlich Date 2-23-18

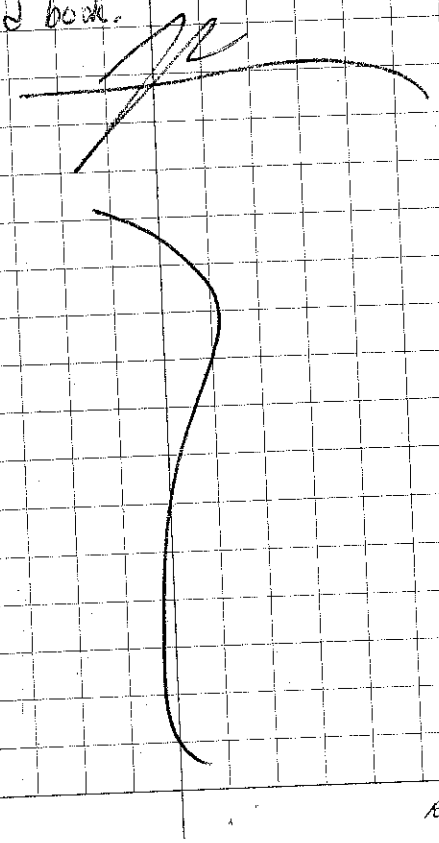
Project / Client 090113

Task: Peform O&M & make sure system is set to run 24/7.
H&S: Level D
Weather: Sunny 80°
GHD: Joe Ortanides
Equip: GHD E-250 Ford Van
GHD Anemometer TPA 1000
GHD Manometer TPA 1002
GHD PID NF 07587
GHD DTW NF 07614
07:30 Pick up work order & equip. Go over scope of work. Load all equip in Van
08:00 Mobe to site
08:50 Arrive onsite; Check in at office. Hold tailgate safety meeting. Open gate Notice system off due to HHALM on panel. Open drain valve on A/O & drain water.
08:40 Restart system make sure timer is set at 24/7 & run position. Perform O&M on system use LEL meter & collect air & test w/ meter. See O&M sheet for details

Location McNatts Ehrlich Date 2-23-18

Project / Client 090113

Collect readings off VE & AI Lines inside dry cleaner. Inform store manager the system will be on 24/7.
10:20 Pack up equip, Take pic of broken fence.
10:45 GHD offsite mobe to office
11:15 Arrive at GHD unload equip Fill out Field book.
12:00 EOD



McNatts Cleaners - Ehrlich Road, Tampa

Date	2-23-15
Time	0830

SVE Design Parameters	
Total Design Vacuum	32 in H2O
Wellhead Vacuum	10 in H2O
Total Flow	126 scfm
Flow per Well	63 scfm

System running on arrival	NO
System running when leaving	Yes
If no, describe reason for fault	HHL Alarm SVE KO

reset if necessary drum Tank

	Pressure/Vacuum (inH2O)	FID/PID (ppm)	Anemometer (fpm)
Air Injection	+26.5	—	195
After Blower	+9.9	4.3	----
Knockout Tank	-67.5	2.3	----
Before Knockout Tank	-66	3.0	912
VE001	-66.3	1.3	476
VE002	-66.9	10.7	332
VE003	-99.4	H2O	H2O
AI-1	+26.8	—	59
AI-2	+26	—	39
AI-3	+26.1	—	41
AI-4	—	—	—
AI-5	-66.6	0	897
AI-6	-65.8	0	824

Hour Meter Readings

SVE	736525
Air Injection	376762

Temp. Readings

SVE influent	29.0°C
SVE effluent	215°F
AI	126°F

Water Level

MW051	3.66

System Configuration	Full/Partial/Closed
VE001	open
VE002	
AI-1	
AI-2	
AI-3	
AI-4	—
AI-5	
AI-6	
Dilution Valve	partial

Site Conditions	
Outside Air Temp.	78 °F
Wind Direction/Speed	W
DC Machine on/off	on
Site Condition	same

Sample SVE System	Point ID	Sample ID	Time	Method
Effluent	AR001	AR		TO-15
Influent	AR002	AR		TO-15

Notes: Troubleshooting/Maintenance

	OXY	LEL	VOC	H2S
BF KO	20.9	6	3.0	0.0
AF Blower	20.5	9	4.3	0.0
AI	NO	20.9	6	2-5	0.0

Location McNutts Ehrlick Date 3-19-18

Project / Client 090113

TASK: Perform O&M & collect Inf sample.
H&S: Level D
Weather: 70°
GHD: Joe Orfanides
Equip: GHD E-250 Ford VAN Tampa FL
GHD PID NE 07587
GHD OTW NE 08290
GHD Anemometer NE/TPA 1002
GHD Manometer NE/TPA 1000
09:00 Pick up equip & work plan
09:30 Mobe to site from office
10:00 Arrive onsite; Hold tailgate safety meeting. System off due to K/O tank HAL Alarm. Drain K/O Tank & Reset & restart system. Let system run and open MW051 to let equilibrate.
10:45 Collect Inf AR002/AR092 sample. Perform O&M on system & collect OTW at MW. See O&M sheet for details.
11:30 GHD offsite mobe to office
12:15 Arrive at GHD

McNatts Cleaners - Ehrlich Road, Tampa

Date	3-19-18
Time	10:00
System running on arrival	NO
System running when leaving	Yes
If no, describe reason for fault	SVE HHL in M/S

SVE Design Parameters	
Total Design Vacuum	32 in H2O
Wellhead Vacuum	10 in H2O
Total Flow	126 scfm
Flow per Well	63 scfm

reset if necessary Drain M/S Tank.

	Pressure/Vacuum (inH2O)	FID/PID (ppm)	Anemometer (fpm)
Air Injection	+21.2	0	560
After Blower	+9.2	1.2	----
Knockout Tank	-69.3	0	----
Before Knockout Tank	-68.9	2.3	800
VE001	-68.9	4.6	709
VE002	-69.2	5.4	515
VE003	OFF	OFF	OFF
AI-1	+15	—	58
AI-2	+29.8	—	27
AI-3	+25.2	—	46
AI-4	-69	—	209
AI-5	-69.2	0	709
AI-6	-69.1	0	623

Hour Meter Readings

SVE	736658
Air Injection	376892

Temp. Readings

SVE influent	76
SVE effluent	226
AI	115.

Water Level

MW051	4.30

System Configuration	Full/Partial/Closed
VE001	OPEN
VE002	
AI-1	
AI-2	
AI-3	
AI-4	
AI-5	
AI-6	
Dilution Valve	Partial

Site Conditions	
Outside Air Temp.	70 °F
Wind Direction/Speed	SW/7mph
DC Machine on/off	ON
Site Condition	Sunny

Sample SVE System	Point ID	Sample ID	Time	Method
Effluent	AR001	AR001	~~10:15~~	TO-15
Influent	AR002	AR002	10:15	TO-15

Notes: Troubleshooting/Maintenance

Tampa, FL 4/30/13
McNatts Ehrlich

Project #: 090113
WACS #: ERIC - 47512
WACS Name: MCNATTS CLEANERS - FORMER EHRLICH ROAD CLEANERS
Equip: YSI, Turb meter, DTW meter, Pump, Anemometer, Manometer
On-site: Jeff Tilson (personal vehicle: Black Nissan Frontier)

Task: Complete system O+M and sample 2 wells.

1300 Depart home for McNatts
1315 Arrive @ McNatts begin O+M
1510 Begin purging wells
1620 Finish sampling wells
1635 Depart site for home
1650 Arrive @ home. End of day

McNatts Cleaners - Ehrlich Road, Tampa

Date	4/30/18
Time	1315
System running on arrival	Yes
System running when leaving	↓
If no, describe reason for fault	

reset if necessary_____

SVE Design Parameters	
Total Design Vacuum	32 in H2O
Wellhead Vacuum	10 in H2O
Total Flow	126 scfm
Flow per Well	63 scfm

	Pressure/Vacuum (inH2O)	FID/PID (ppm)	Anemometer (fpm)
Air Injection	+24.4	0	637
After Blower	+6.7	0.2	----
Knockout Tank	-77.0	—	----
Before Knockout Tank	-76.6	—	1512
VE001 (opened)	-76.1	—	OL
VE002	-76.9	—	1533
VE003	-27.3	—	—
AI-1	+23.5	—	77.0
AI-2	+23.7	—	43.0
AI-3	+23.8	—	59.0
AI-4			
AI-5	-76.5	—	1603
AI-6	-76.6	—	1735

Hour Meter Readings

SVE	72678
Air Injection	38265

Temp. Readings

SVE influent	95.6
SVE effluent	123
AI	107.5

Water Level

MW051	4.65

System Configuration	Full/Partial/Closed
VE001	
VE002	
AI-1	
AI-2	
AI-3	
AI-4	
AI-5	
AI-6	
Dilution Valve	

Site Conditions	
Outside Air Temp.	°F
Wind Direction/Speed	
DC Machine on/off	
Site Condition	

Sample SVE System	Point ID	Sample ID	Time	Method
Effluent	AR001	AR		TO-15
Influent	AR002	AR		TO-15

Notes: Troubleshooting/Maintenance

DEP Form FD 9000-24: GROUNDWATER SAMPLING LOG

SITE NAME: McNatts Ehrlich	SITE LOCATION: Tampa, FL	
WELL NO: MW052	SAMPLE ID: MW052/GW 670	DATE: 4/30/18

PURGING DATA

WELL DIAMETER (inches): 3/4	TUBING DIAMETER (inches): 0.25	WELL SCREEN INTERVAL DEPTH: 25 feet to 35 feet	STATIC DEPTH TO WATER (feet): 5.27	PURGE PUMP TYPE OR BAILER: PP

WELL VOLUME PURGE: 1 WELL VOLUME = (TOTAL WELL DEPTH – STATIC DEPTH TO WATER) X WELL CAPACITY
(only fill out if applicable)
= (feet – feet) X gallons/foot = gallons

EQUIPMENT VOLUME PURGE: 1 EQUIPMENT VOL. = PUMP VOLUME + (TUBING CAPACITY X TUBING LENGTH) + FLOW CELL VOLUME
(only fill out if applicable)
= 0 gallons + (0.0026 gallons/foot X 35 feet) + 0.125 gallons = 0.216 gallons

INITIAL PUMP OR TUBING DEPTH IN WELL (feet): 30	FINAL PUMP OR TUBING DEPTH IN WELL (feet): 30	PURGING INITIATED AT: 1545	PURGING ENDED AT: 1616	TOTAL VOLUME PURGED (gallons): 1.09

TIME	VOLUME PURGED (gallons)	CUMUL. VOLUME PURGED (gallons)	PURGE RATE (gpm)	DEPTH TO WATER (feet)	pH (standard units)	COND. (circle units) µmhos/cm or µS/cm	TEMP. (°C)	DISSOLVED OXYGEN (circle units) mg/L or % saturation	TURBIDITY (NTUs)	ORP (mV)	COLOR/ ODOR (describe)
1557	0.48	0.48	0.04	NA	5.45	338	28.31	0.45	313	-212.2	murky/ none
1601	0.16	0.64	↓		5.39	334	28.49	0.29	229	-212.6	
1610	0.27	0.91	0.03		5.37	331	29.41	0.34	146	-189.1	
1613	0.09	1.00	↓		5.38	332	29.57	0.36	940	-196.1	
1616	0.09	1.09	↓	↓	5.36	333	29.60	0.41	85.2	-189.7	↓

WELL CAPACITY (Gallons Per Foot): **0.75"** = 0.02; **1"** = 0.04; **1.25"** = 0.06; **2"** = 0.16; **3"** = 0.37; **4"** = 0.65; **5"** = 1.02; **6"** = 1.47; **12"** = 5.88
TUBING INSIDE DIA. CAPACITY (Gal./Ft.): **1/8"** = 0.0006; **3/16"** = 0.0014; **1/4"** = 0.0026; **5/16"** = 0.004; **3/8"** = 0.006; **1/2"** = 0.010; **5/8"** = 0.016

PURGING EQUIPMENT CODES: **B** = Bailer; **BP** = Bladder Pump; **ESP** = Electric Submersible Pump; **PP** = Peristaltic Pump; **O** = Other (Specify)

SAMPLING DATA

SAMPLED BY (PRINT) / AFFILIATION: JTison/GHD	SAMPLER(S) SIGNATURE(S):	SAMPLING INITIATED AT: 1617	SAMPLING ENDED AT: 1620
PUMP OR TUBING DEPTH IN WELL (feet): 30	TUBING MATERIAL CODE: HDPE	FIELD-FILTERED: Y (N) Filtration Equipment Type:	FILTER SIZE: ____ µm
FIELD DECONTAMINATION: PUMP Y (N)	TUBING Y (N) (replaced)	DUPLICATE: Y (N)	

SAMPLE CONTAINER SPECIFICATION				SAMPLE PRESERVATION (including wet ice)					
SAMPLE ID CODE	# CONTAINERS	MATERIAL CODE	VOLUME	PRESERVATIVE USED	TOTAL VOL ADDED IN FIELD (mL)	FINAL pH	INTENDED ANALYSIS AND/OR METHOD	SAMPLING EQUIPMENT CODE	SAMPLE PUMP FLOW RATE (mL per minute)
MW052/ GW670	✓	✓	✓	✓	✓	✓	Methane, ethane, ethane	APP	114

REMARKS:
Well sampled early due to historically high turbidity. DTW meter would not fit in well w/ tubing.

MATERIAL CODES: **AG** = Amber Glass; **CG** = Clear Glass; **HDPE** = High Density Polyethylene; **LDPE** = Low Density Polyethylene; **PP** = Polypropylene; **S** = Silicone; **T** = Teflon; **O** = Other (Specify)

SAMPLING EQUIPMENT CODES: **APP** = After (Through) Peristaltic Pump; **B** = Bailer; **BP** = Bladder Pump; **ESP** = Electric Submersible Pump; **RFPP** = Reverse Flow Peristaltic Pump; **SM** = Straw Method (Tubing Gravity Drain); **O** = Other (Specify)

NOTES: 1. The above do not constitute all of the information required by Chapter 62-160, F.A.C.

2. STABILIZATION CRITERIA FOR RANGE OF VARIATION OF LAST THREE CONSECUTIVE READINGS (SEE FS 2212, SECTION 3)

pH: ± 0.2 units **Temperature:** ± 0.2 °C **Specific Conductance:** ± 5% **Dissolved Oxygen:** all readings ≤ 20% saturation (see Table FS 2200-2); optionally, ± 0.2 mg/L or ± 10% (whichever is greater) **Turbidity:** all readings ≤ 20 NTU; optionally ± 5 NTU or ± 10% (whichever is greater)

DEP Form FD 9000-24: GROUNDWATER SAMPLING LOG

SITE NAME: McNutts Ehrlich	SITE LOCATION: Tampa, FL	
WELL NO: MW051	SAMPLE ID: MW051 / GW659	DATE: 4/30/18

PURGING DATA

WELL DIAMETER (inches): 1	TUBING DIAMETER (inches): 0.25	WELL SCREEN INTERVAL DEPTH: 2 feet to 12 feet	STATIC DEPTH TO WATER (feet): 4.65	PURGE PUMP TYPE OR BAILER: PP

WELL VOLUME PURGE: 1 WELL VOLUME = (TOTAL WELL DEPTH – STATIC DEPTH TO WATER) X WELL CAPACITY
(only fill out if applicable)
= (12 feet – 4.65 feet) X 0.04 gallons/foot = 0.294 gallons

EQUIPMENT VOLUME PURGE: 1 EQUIPMENT VOL. = PUMP VOLUME + (TUBING CAPACITY X TUBING LENGTH) + FLOW CELL VOLUME
(only fill out if applicable)
= gallons + (gallons/foot X feet) + gallons = gallons

INITIAL PUMP OR TUBING DEPTH IN WELL (feet): 8.3	FINAL PUMP OR TUBING DEPTH IN WELL (feet): 8.3	PURGING INITIATED AT: 1510	PURGING ENDED AT: 1534	TOTAL VOLUME PURGED (gallons): 0.48

TIME	VOLUME PURGED (gallons)	CUMUL. VOLUME PURGED (gallons)	PURGE RATE (gpm)	DEPTH TO WATER (feet)	pH (standard units)	COND. (circle units) µmhos/cm or µS/cm	TEMP. (°C)	DISSOLVED OXYGEN (circle units) mg/L or % saturation	TURBIDITY (NTUs)	ORP (mV)	COLOR/ ODOR (describe)
1525	0.3	0.3	0.02	~~4.85~~ 9.8	5.50	2604	29.19	1.34	820	-171.8	murky/ odor
1528	0.06	0.36	↓	9.8	5.51	2676	29.04	1.19	675	-176.3	↓
1531	↓	0.42	↓	10.20	5.54	2646	28.92	0.72	891	-179.2	
1534		0.48		11.11	5.55	2631	28.89	0.75	945	-187.9	

WELL CAPACITY (Gallons Per Foot): **0.75"** = 0.02; **1"** = 0.04; **1.25"** = 0.06; **2"** = 0.16; **3"** = 0.37; **4"** = 0.65; **5"** = 1.02; **6"** = 1.47; **12"** = 5.88
TUBING INSIDE DIA. CAPACITY (Gal./Ft.): **1/8"** = 0.0006; **3/16"** = 0.0014; **1/4"** = 0.0026; **5/16"** = 0.004; **3/8"** = 0.006; **1/2"** = 0.010; **5/8"** = 0.016

PURGING EQUIPMENT CODES: **B** = Bailer; **BP** = Bladder Pump; **ESP** = Electric Submersible Pump; **PP** = Peristaltic Pump; **O** = Other (Specify)

SAMPLING DATA

SAMPLED BY (PRINT) / AFFILIATION: J Tison / GHD	SAMPLER(S) SIGNATURE(S):	SAMPLING INITIATED AT: 1535	SAMPLING ENDED AT: 1538
PUMP OR TUBING DEPTH IN WELL (feet): 8.3	TUBING MATERIAL CODE: HDPE	FIELD-FILTERED: Y (N) Filtration Equipment Type:	FILTER SIZE: ____ µm
FIELD DECONTAMINATION: PUMP Y (N)	TUBING Y N (replaced)	DUPLICATE: Y (N)	

SAMPLE CONTAINER SPECIFICATION				SAMPLE PRESERVATION (including wet ice)					
SAMPLE ID CODE	# CONTAINERS	MATERIAL CODE	VOLUME	PRESERVATIVE USED	TOTAL VOL ADDED IN FIELD (mL)	FINAL pH	INTENDED ANALYSIS AND/OR METHOD	SAMPLING EQUIPMENT CODE	SAMPLE PUMP FLOW RATE (mL per minute)
MW051							methane, ethene, ethane	APP	76
GW659									

REMARKS:
Wells sampled early due to historically high turbidity.

MATERIAL CODES: **AG** = Amber Glass; **CG** = Clear Glass; **HDPE** = High Density Polyethylene; **LDPE** = Low Density Polyethylene; **PP** = Polypropylene; **S** = Silicone; **T** = Teflon; **O** = Other (Specify)

SAMPLING EQUIPMENT CODES: **APP** = After (Through) Peristaltic Pump; **B** = Bailer; **BP** = Bladder Pump; **ESP** = Electric Submersible Pump; **RFPP** = Reverse Flow Peristaltic Pump; **SM** = Straw Method (Tubing Gravity Drain); **O** = Other (Specify)

NOTES: 1. The above do not constitute all of the information required by Chapter 62-160, F.A.C.

2. STABILIZATION CRITERIA FOR RANGE OF VARIATION OF LAST THREE CONSECUTIVE READINGS (SEE FS 2212, SECTION 3)

pH: ± 0.2 units **Temperature:** ± 0.2 °C **Specific Conductance:** ± 5% **Dissolved Oxygen:** all readings ≤ 20% saturation (see Table FS 2200-2); optionally, ± 0.2 mg/L or ± 10% (whichever is greater) **Turbidity:** all readings ≤ 20 NTU; optionally ± 5 NTU or ± 10% (whichever is greater)

DEP-SOP-001/01: Form FD 9000-8

Field Instrument Calibration Records

USER (Full Name) Joe Tison **LOCATION** Tampa, FL

PROJECT NAME McNatts & Ehrlich **PROJECT NUMBER** 090113

INSTRUMENT (MAKE/MODEL#) YSI 556 **INSTRUMENT** (CONTROL #) —

☒ **pH**

STANDARDS: *[Specify the type(s) of standards used for calibration, the origin of the standards, the standard values, and the date the standards were prepared or purchased]*

Standard A pH 7.00 Buffer Capsule, Exaxol., Lot # 1706221, EXP. 08/18

Standard B pH 4.01 Buffer Capsule Exaxol. Lot # 170803C, Exp. 08/18

Standard C _____

DATE (yy/mm/dd)	TIME (hr:min)	STD (A, B, C)	STD VALUE	INSTRUMENT RESPONSE	% DEV	CALIBRATED (YES, NO)	TYPE (INIT, CONT)	SAMPLER INITIALS
4/30/19	1514	A	7.00	7.01	0.1	Yes	Init	JT
	1516	B	4.00	4.00	0		↓	
↓	1656	A	7.00	7.00	0	↓	Final	↓
	1658	B	4.00	3.99	0.2		↓	

☒ **CONDUCTIVITY**

STANDARDS: *[Specify the type(s) of standards used for calibration, the origin of the standards, the standard values, and the date the standards were prepared or purchased]*

Standard A Exp. 1/19, Lot #: 836B90

Standard B _____

Standard C _____

DATE (yy/mm/dd)	TIME (hr:min)	STD (A, B, C)	STD VALUE	INSTRUMENT RESPONSE	% DEV	CALIBRATED (YES, NO)	TYPE (INIT, CONT)	SAMPLER INITIALS
4/30/19	1518	A	1.413	1.413	0	Yes	Init	JT
↓	1700	A	↓	1.413	0	↓	Final	↓

☒ **DO**

STANDARDS: *[Specify the type(s) of standards used for calibration, the origin of the standards, the standard values, and the date the standards were prepared or purchased]*

Standard A Saturated Air Chamber/100%

Standard B _____

Standard C _____

DATE (yy/mm/dd)	TIME (hr:min)	STD (A, B, C)	STD VALUE	INSTRUMENT RESPONSE	% DEV	CALIBRATED (YES, NO)	TYPE (INIT, CONT)	SAMPLER INITIALS
4/30/19	1520	A	100	100.1	0.1	Yes	Init	JT
↓	1702	A	↓	100.7	0.7	↓	Final	↓

DEP-SOP-001/01: Form FD 9000-8

USER (Full Name) Joe Tison **LOCATION** Tampa, FL

PROJECT NAME McNabb Ehlich **PROJECT NUMBER** 090113

INSTRUMENT (MAKE/MODEL#) Hach 2100Q **INSTRUMENT** (CONTROL #) _____

☒ **TURBIDITY**

STANDARDS: *[Specify the type(s) of standards used for calibration, the origin of the standards, the standard values, and the date the standards were prepared or purchased]*

Standard A 20.0 ntu, Hach, Lot # A7144, Exp. 08/18

Standard B 100 ntu, Hach, Lot # A7144, Exp. 08/18

Standard C 800ntu, Hach, Lot # A7144, Exp. 08/18

DATE (yy/mm/dd)	TIME (hr:min)	STD (A, B, C)	STD VALUE	INSTRUMENT RESPONSE	% DEV	CALIBRATED (YES, NO)	TYPE (INIT, CONT)	SAMPLER INITIALS

INSTRUMENT (MAKE/MODEL#) LaMotte 2020E **INSTRUMENT #** _____

☒ **TURBIDITY**

STANDARDS: *[Specify the type(s) of standards used for calibration, the origin of the standards, the standard values, and the date the standards were prepared or purchased]*

Standard A 0.0ntu, AMCO Primary, Exp. 1/18, Lot # C689664

Standard B 10.0ntu, AMCO Primary, Exp. 3/18, Lot # C689840

Standard C _____

DATE (yy/mm/dd)	TIME (hr:min)	STD (A, B, C)	STD VALUE	INSTRUMENT RESPONSE	% DEV	CALIBRATED (YES, NO)	TYPE (INIT, CONT)	SAMPLER INITIALS
4/30/10	1570	A	0	0.00	0	Yes	Init	JT
↓	1572	B	10	9.98	0.2	↓	↓	↓
	1652	A	0	0.00	0		Final	
	1654	B	10	10.02	0.2		↓	

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Location Tampa, FL Date 6/5/18

Project / Client McNatt's Ehrlich A. Puskas
090113-07-61 S. Albritton/GHD

1200 Headed to site. mi. 141869
1250 On site. TGSM and HASP.
Task: Complete O+M
Equipment: Manometer, Anemometer, MiniRae 3000, PID, Hand Pump, Solinst DTW
System off due to High MS, drained.
Changed Config to all SVE.
VE003 not piped for AI. (Turned OFF)
AI turned off. Timer set for 24 hours a day.
1320 Complete O+M. See O+M sheet.
1400 Depart from site.
1415 End Task mi. 141894

Andrew Puskas

McNatts Cleaners - Ehrlich Road, Tampa

Date	10-5-18
Time	1320
System running on arrival	No
System running when leaving	Yes
If no, describe reason for fault	High MS

reset if necessary_____

SVE Design Parameters	
Total Design Vacuum	32 in H2O
Wellhead Vacuum	10 in H2O
Total Flow	126 scfm
Flow per Well	63 scfm

	Pressure/Vacuum (inH2O)	FID/PID (ppm)	Anemometer (fpm)
Air Injection			
After Blower	+7.8	7.3	----
Knockout Tank	-74.8		----
Before Knockout Tank	-74.7	0.10	16516
VE001	-73.8	0.9	2526
VE002	-73.8	0.9	1263
VE003			
AI-1	-73.6	0.8	1854
AI-2	-73.7	0.7	1391
AI-3	-73.8	0.6	1408
AI-4			
AI-5	-71.6	1.0	1881
AI-6	-74.0	1.5	1963

Hour Meter Readings

SVE	75041.8
Air Injection	38587.8

Temp. Readings

SVE influent	96.0
SVE effluent	110.0
AI	

Water Level

MW051	3.27

System Configuration	Full/Partial/Closed
VE001	Open
VE002	↓
AI-1	↓
AI-2	↓
AI-3	↓
AI-4	—
AI-5	Open
AI-6	↓
Dilution Valve	Partial

Site Conditions	
Outside Air Temp.	90 °F
Wind Direction/Speed	2 SE
DC Machine on/off	ON
Site Condition	Same

* Fence broken

Sample SVE System	Point ID	Sample ID	Time	Method
Effluent	AR001	AR		TO-15
Influent	AR002	AR		TO-15

Notes: Troubleshooting/Maintenance

AI off, VE003 off

Location Tampa, FL Date 6-26-18

Project / Client McNatts Ehrlich
090113

1330 On way to site.

1445 Arrived on Site.
(see O+M log) Calibrated PID. 100.2

1630 left site to office.

Sample time

AR002/AR093 = 15:45

Arrived at office 17:10

17:45 left office to Fed EX

18:00 Arrived at Fed Ex. Shipped Sample.

18:30 EOD

page 1 of 1

Location Date

Project / Client

Skylar Albritton

McNatts Cleaners - Ehrlich Road, Tampa

SVE Design Parameters	
Total Design Vacuum	32 in H2O
Wellhead Vacuum	10 in H2O
Total Flow	126 scfm
Flow per Well	63 scfm

Date	6-20-18
Time	1450
System running on arrival	Yes
System running when leaving	Yes
If no, describe reason for fault	

reset if necessary_____

	Pressure/Vacuum (inH2O)	FID/PID (ppm)	Anemometer (fpm)
Air Injection			
After Blower	+8.2	3.1	---
Knockout Tank	-73.1		---
Before Knockout Tank	-75.2	1.4	1586
VE001	-69.2	1.1	2388
VE002	-71.4	.7	1067
VE003			
AI-1	-74.7	.9	1971
AI-2	-75.0	.8	1657
AI-3	-70.1	.4	1481
AI-4			
AI-5	-69.9	1.2	1907
AI-6	-75.8	1.4	1577

Hour Meter Readings

SVE	75547
Air Injection	38587

Temp. Readings

SVE influent	98.3
SVE effluent	105.7
AI	

Water Level

MW051	3.18

System Configuration	Full/Partial/Closed
VE001	Open
VE002	
AI-1	
AI-2	
AI-3	
AI-4	
AI-5	Open
AI-6	
Dilution Valve	Partial

Site Conditions	
Outside Air Temp.	90 °F
Wind Direction/Speed	W/5mph
DC Machine on/off	On
Site Condition	Same

Fence broken

Sample SVE System	Point ID	Sample ID	Time	Method
Effluent	AR001	AR		TO-15
Influent	AR002	AR093	15:45	TO-15

Notes: Troubleshooting/Maintenance

DEP Form FD 9000-24: GROUNDWATER SAMPLING LOG

SITE NAME: McNatts Ehrlich		SITE LOCATION: Tampa ~~Bowling Green~~, Fl	
WELL NO: MW051	SAMPLE ID: MW051 GW 6065		DATE: 6/20/18

PURGING DATA

WELL DIAMETER (inches): 1	TUBING DIAMETER (inches): 0.25	WELL SCREEN INTERVAL DEPTH: 2 feet to 12 feet	STATIC DEPTH TO WATER (feet): 3.13	PURGE PUMP TYPE OR BAILER: APP

WELL VOLUME PURGE: 1 WELL VOLUME = (TOTAL WELL DEPTH − STATIC DEPTH TO WATER) X WELL CAPACITY
(only fill out if applicable)
= (12 feet − 3.13 feet) X 0.04 gallons/foot = gallons

EQUIPMENT VOLUME PURGE: 1 EQUIPMENT VOL. = PUMP VOLUME + (TUBING CAPACITY X TUBING LENGTH) + FLOW CELL VOLUME
(only fill out if applicable)
= 0 gallons + (0.0026 gallons/foot X 20 feet) + 0.125 gallons = 0.177 gallons

INITIAL PUMP OR TUBING DEPTH IN WELL (feet):	FINAL PUMP OR TUBING DEPTH IN WELL (feet):	PURGING INITIATED AT:	PURGING ENDED AT:	TOTAL VOLUME PURGED (gallons):
7.5	10.5	1149	1216	0.54

TIME	VOLUME PURGED (gallons)	CUMUL. VOLUME PURGED (gallons)	PURGE RATE (gpm)	DEPTH TO WATER (feet)	pH (standard units)	COND. (circle units) µmhos/cm or µS/cm	TEMP. (°C)	DISSOLVED OXYGEN (circle units) mg/L or % saturation	TURBIDITY (NTUs)	ORP (mV)	COLOR/ ODOR (describe)
1207	0.36	0.36	0.02	9.51	5.33	3007	33.18	0.93	97.4	-167.9	~~Clear~~ Brown None
1210	0.06	0.42	0.02	9.58	5.35	2971	33.58	0.97	92.4	-164.1	" "
1213	0.06	0.48	0.02	9.65	5.35	2940	33.57	1.05	90.9	-160.2	" "
1216	0.06	0.54	0.02	9.72	5.33	2936	33.34	0.85	88.9	-160.8	" "

WELL CAPACITY (Gallons Per Foot): 0.75" = 0.02; 1" = 0.04; 1.25" = 0.06; 2" = 0.16; 3" = 0.37; 4" = 0.65; 5" = 1.02; 6" = 1.47; 12" = 5.88
TUBING INSIDE DIA. CAPACITY (Gal./Ft.): 1/8" = 0.0006; 3/16" = 0.0014; 1/4" = 0.0026; 5/16" = 0.004; 3/8" = 0.006; 1/2" = 0.010; 5/8" = 0.016

PURGING EQUIPMENT CODES: B = Bailer; BP = Bladder Pump; ESP = Electric Submersible Pump; PP = Peristaltic Pump; O = Other (Specify)

SAMPLING DATA

SAMPLED BY (PRINT) / AFFILIATION: ~~Enrica Gonzalez~~ / GHD Joe Ison	SAMPLER(S) SIGNATURE(S):	SAMPLING INITIATED AT: 1217	SAMPLING ENDED AT: 1230
PUMP OR TUBING DEPTH IN WELL (feet): 10.5	TUBING MATERIAL CODE: HDPE	FIELD-FILTERED: Y (N) Filtration Equipment Type:	FILTER SIZE: ____ µm
FIELD DECONTAMINATION: PUMP Y (N)	TUBING Y (N) (replaced)	DUPLICATE: Y (N)	

SAMPLE CONTAINER SPECIFICATION				SAMPLE PRESERVATION (including wet ice)					
SAMPLE ID CODE	# CONTAINERS	MATERIAL CODE	VOLUME	PRESERVATIVE USED	TOTAL VOL ADDED IN FIELD (mL)	FINAL pH	INTENDED ANALYSIS AND/OR METHOD	SAMPLING EQUIPMENT CODE	SAMPLE PUMP FLOW RATE (mL per minute)
MW051	3	CG	40mL	HCl	—	—	8260 VOA	APP	~~<400~~ As
GW6065	1	PE	100mL	H_2SO_4			Ammonia 4500		
	↓	↓	↓	HNO_3			Tot. 6010		
			250mL	NA			TDS 160.1/Nitrate		
	3	AG	40mL	H_2SO_4			TOC 9060		
	1	↓	1L	HCl			TRPH FL PRO DRO Method		

REMARKS: Well CG 40mL purging dry. Sample taken after 4 total readings w/ High Turb

MATERIAL CODES: AG = Amber Glass; CG = Clear Glass; HDPE = High Density Polyethylene; LDPE = Low Density Polyethylene; PP = Polypropylene; S = Silicone; T = Teflon; O = Other (Specify)

SAMPLING EQUIPMENT CODES: APP = After (Through) Peristaltic Pump; B = Bailer; BP = Bladder Pump; ESP = Electric Submersible Pump; RFPP = Reverse Flow Peristaltic Pump; SM = Straw Method (Tubing Gravity Drain); O = Other (Specify)

NOTES: 1. **The above do not constitute all of the information required by Chapter 62-160, F.A.C.**
2. STABILIZATION CRITERIA FOR RANGE OF VARIATION OF LAST THREE CONSECUTIVE READINGS (SEE FS 2212, SECTION 3)

pH: ± 0.2 units **Temperature:** ± 0.2 °C **Specific Conductance:** ± 5% **Dissolved Oxygen:** all readings ≤ 20% saturation (see Table FS 2200-2); optionally, ± 0.2 mg/L or ± 10% (whichever is greater) **Turbidity:** all readings ≤ 20 NTU; optionally ± 5 NTU or ± 10% (whichever is greater)

0.687

DEP Form FD 9000-24: GROUNDWATER SAMPLING LOG

SITE NAME: McNatts	SITE LOCATION: Tampa, FL	
WELL NO: MW052	SAMPLE ID: GW670	DATE: 6/20/18

PURGING DATA

WELL DIAMETER (inches): 0.75	TUBING DIAMETER (inches): 1/4	WELL SCREEN INTERVAL DEPTH: 25 feet to 35 feet	STATIC DEPTH TO WATER (feet): 3.10	PURGE PUMP TYPE OR BAILER: APP

WELL VOLUME PURGE: 1 WELL VOLUME = (TOTAL WELL DEPTH – STATIC DEPTH TO WATER) X WELL CAPACITY
(only fill out if applicable)
= (feet – feet) X gallons/foot = gallons

EQUIPMENT VOLUME PURGE: 1 EQUIPMENT VOL. = PUMP VOLUME + (TUBING CAPACITY X TUBING LENGTH) + FLOW CELL VOLUME
(only fill out if applicable)
= gallons + (0.0026 gallons/foot X 40 feet) + 0.125 gallons = 0.229 gallons

INITIAL PUMP OR TUBING DEPTH IN WELL (feet): 30	FINAL PUMP OR TUBING DEPTH IN WELL (feet): 30	PURGING INITIATED AT: 1307	PURGING ENDED AT: 1350	TOTAL VOLUME PURGED (gallons): 1.29

TIME	VOLUME PURGED (gallons)	CUMUL. VOLUME PURGED (gallons)	PURGE RATE (gpm)	DEPTH TO WATER (feet)	pH (standard units)	COND. (circle units) µmhos/cm or (µS/cm)	TEMP. (°C)	DISSOLVED OXYGEN (circle units) (mg/L) or % saturation	TURBIDITY (NTUs)	ORP (mV)	COLOR/ ODOR (describe)
1321	0.42	0.42	0.03	7.03	5.33	319	30.0	0.56	48.6	-218.3	Milky
1331	0.3	0.72	"	"	5.42	313	29.36	0.32	25.2	-228.1	"
1341	0.3	1.02	"	"	5.37	314	29.39	0.34	16.7	-228.5	Clear
1344	0.09	1.11	"	"	5.36	315	29.38	0.32	14.9	-229.2	"
1347	0.09	1.20	"	"	5.35	315	29.34	0.31	13.0	-229.5	"
1350	0.09	1.29	"	"	5.35	315	29.34	0.31	11.7	-229.5	"

WELL CAPACITY (Gallons Per Foot): **0.75"** = 0.02; **1"** = 0.04; **1.25"** = 0.06; **2"** = 0.16; **3"** = 0.37; **4"** = 0.65; **5"** = 1.02; **6"** = 1.47; **12"** = 5.88
TUBING INSIDE DIA. CAPACITY (Gal./Ft.): **1/8"** = 0.0006; **3/16"** = 0.0014; **1/4"** = 0.0026; **5/16"** = 0.004; **3/8"** = 0.006; **1/2"** = 0.010; **5/8"** = 0.016

PURGING EQUIPMENT CODES: **B** = Bailer; BP = Bladder Pump; **ESP** = Electric Submersible Pump; **PP** = Peristaltic Pump; **O** = Other (Specify)

SAMPLING DATA

SAMPLED BY (PRINT) / AFFILIATION: Enrico Gonzalez / GHD	SAMPLER(S) SIGNATURE(S):	SAMPLING INITIATED AT: 1351	SAMPLING ENDED AT: 1405
PUMP OR TUBING DEPTH IN WELL (feet): 30	TUBING MATERIAL CODE: HDPE	FIELD-FILTERED: Y (N) Filtration Equipment Type:	FILTER SIZE: ____ µm
FIELD DECONTAMINATION: PUMP Y (N)	TUBING Y (N) (replaced)	DUPLICATE: Y (N)	

SAMPLE CONTAINER SPECIFICATION				SAMPLE PRESERVATION (including wet ice)					
SAMPLE ID CODE	# CONTAINERS	MATERIAL CODE	VOLUME	PRESERVATIVE USED	TOTAL VOL ADDED IN FIELD (mL)	FINAL pH	INTENDED ANALYSIS AND/OR METHOD	SAMPLING EQUIPMENT CODE	SAMPLE PUMP FLOW RATE (mL per minute)
MW052	3	CG	40 ML	HCL	–	✓	8260 VOH	APP	<400
GW670	1	HDPE	250 ML	–	–	✓	TDS/Nitrate		
	1	AG	1L	HCL	✓	✓	TRPH		
	3	AG	40 ML	H_2SO_4	✓	✓	TOC		
	1	HDPE	100 ML	HNO_3	✓	✓	Na		
	1	HDPE	100 ML	H_2SO_4	✓	✓	Ammonia/NorgN		
REMARKS:	3	CG	40 ML	HCL	✓	✓	DIS Gasses		

MATERIAL CODES: **AG** = Amber Glass; **CG** = Clear Glass; **HDPE** = High Density Polyethylene; **LDPE** = Low Density Polyethylene; **PP** = Polypropylene; **S** = Silicone; T = Teflon; **O** = Other (Specify)

SAMPLING EQUIPMENT CODES: **APP** = After (Through) Peristaltic Pump; **B** = Bailer; **BP** = Bladder Pump; **ESP** = Electric Submersible Pump; **RFPP** = Reverse Flow Peristaltic Pump; **SM** = Straw Method (Tubing Gravity Drain); **O** = Other (Specify)

NOTES: 1. **The above do not constitute all of the information required by Chapter 62-160, F.A.C.**
2. STABILIZATION CRITERIA FOR RANGE OF VARIATION OF LAST THREE CONSECUTIVE READINGS (SEE FS 2212, SECTION 3)
pH: ± 0.2 units **Temperature:** ± 0.2 °C **Specific Conductance:** ± 5% **Dissolved Oxygen:** all readings ≤ 20% saturation (see Table FS 2200-2); optionally, ± 0.2 mg/L or ± 10% (whichever is greater) **Turbidity:** all readings ≤ 20 NTU; optionally ± 5 NTU or ± 10% (whichever is greater)

DEP-SOP-001/01: Form FD 9000-8

Field Instrument Calibration Records

USER (Full Name) Joe Tison **LOCATION** Tampa, FL

PROJECT NAME McNatts Ehrlich **PROJECT NUMBER** ~~FA~~ 090113

INSTRUMENT (MAKE/MODEL#) YSI 556 **INSTRUMENT** (CONTROL #) Rental

☒ **pH**

STANDARDS: *[Specify the type(s) of standards used for calibration, the origin of the standards, the standard values, and the date the standards were prepared or purchased]*

Standard A pH 7.00 Buffer Capsule, Exaxol., Lot # ~~170622I~~, EXP. ~~08/18~~ 8GE250 5/20

Standard B pH 4.01 Buffer Capsule Exaxol. Lot # ~~170803C~~, Exp. ~~08/18~~

Standard C 8GA973 6/20

DATE (yy/mm/dd)	TIME (hr:min)	STD (A, B, C)	STD VALUE	INSTRUMENT RESPONSE	% DEV	CALIBRATED (YES, NO)	TYPE (INIT, CONT)	SAMPLER INITIALS
6/20/18	0749	A	7	7.00	0	Yes	Init	JT
↓	0750	B	4	4.00	↓	↓	↓	↓
	1649	A	7	7.00			Final	
	1651	B	4	4.00			↓	

☒ **CONDUCTIVITY**

STANDARDS: *[Specify the type(s) of standards used for calibration, the origin of the standards, the standard values, and the date the standards were prepared or purchased]*

Standard A 1413; 8GB900, 2/19

Standard B

Standard C

DATE (yy/mm/dd)	TIME (hr:min)	STD (A, B, C)	STD VALUE	INSTRUMENT RESPONSE	% DEV	CALIBRATED (YES, NO)	TYPE (INIT, CONT)	SAMPLER INITIALS
6/20/18	0752	A	1413	1413	0	Yes	~~Init~~	JT
↓	1653	A	1413	1413	0	↓	Final	↓

☒ **DO**

STANDARDS: *[Specify the type(s) of standards used for calibration, the origin of the standards, the standard values, and the date the standards were prepared or purchased]*

Standard A Saturated Air Chamber/100%

Standard B

Standard C

DATE (yy/mm/dd)	TIME (hr:min)	STD (A, B, C)	STD VALUE	INSTRUMENT RESPONSE	% DEV	CALIBRATED (YES, NO)	TYPE (INIT, CONT)	SAMPLER INITIALS
6/20/18	0754	A	100	100.1	0.1	Yes	Init	JT
↓	1655	A	100	100.1	↓	↓	Final	↓

DEP-SOP-001/01: Form FD 9000-8

USER (Full Name) Joe Tison **LOCATION** Tampa, FL

PROJECT NAME McNatts Encina **PROJECT NUMBER** 090113

INSTRUMENT (MAKE/MODEL#) Hach 2100Q **INSTRUMENT** (CONTROL #) ~~ME10500~~

☒ **TURBIDITY**

STANDARDS: *[Specify the type(s) of standards used for calibration, the origin of the standards, the standard values, and the date the standards were prepared or purchased]*

Standard A 20.0 ntu, Hach, Lot # A7144, Exp. 08/18

Standard B 100 ntu, Hach, Lot # A7144, Exp. 08/18

Standard C 800ntu, Hach, Lot # A7144, Exp. 08/18

DATE (yy/mm/dd)	TIME (hr:min)	STD (A, B, C)	STD VALUE	INSTRUMENT RESPONSE	% DEV	CALIBRATED (YES, NO)	TYPE (INIT, CONT)	SAMPLER INITIALS

INSTRUMENT (MAKE/MODEL#) LaMotte 2020E **INSTRUMENT #** ME10500

☒ **TURBIDITY**

STANDARDS: *[Specify the type(s) of standards used for calibration, the origin of the standards, the standard values, and the date the standards were prepared or purchased]* 6/19 C801968

Standard A 0.0ntu, AMCO Primary, Exp. ~~1/18~~, Lot # ~~C689664~~

Standard B 10.0ntu, AMCO Primary, Exp. ~~3/18~~, Lot # ~~C689840~~

Standard C 4/19 C6933330

DATE (yy/mm/dd)	TIME (hr:min)	STD (A, B, C)	STD VALUE	INSTRUMENT RESPONSE	% DEV	CALIBRATED (YES, NO)	TYPE (INIT, CONT)	SAMPLER INITIALS
6/20/18	0745	A	~~A~~ 0	0.0	0	Yes	Init	JT
↓	0746	B	10	10.0	0	↓	↓	↓
	1645	A	0	0.0	0		Final	
	1647	B	10	10.0	0		↓	

DEP-SOP-001/01: Form FD 9000-8

Field Instrument Calibration Records

USER (Full Name) **Enrico Gonzalez** **LOCATION** Tampa, FL

PROJECT NAME McNutt's Ehrlich **PROJECT NUMBER** 090113

INSTRUMENT (MAKE/MODEL#) YSI ~~Pro Plus~~ 556 **INSTRUMENT** (CONTROL #) TPA1016

☒ **pH**

STANDARDS: *[Specify the type(s) of standards used for calibration, the origin of the standards, the standard values, and the date the standards were prepared or purchased]*

Standard A pH 7.00 Buffer Capsule, Exaxol., Lot # 6GH454, EXP. 08/18

Standard B pH 4.00 Buffer Capsule Exaxol. Lot # 6GH452, Exp. 08/18

Standard C _____

DATE (yy/mm/dd)	TIME (hr:min)	STD (A, B, C)	STD VALUE	INSTRUMENT RESPONSE	% DEV	CALIBRATED (YES, NO)	TYPE (INIT, CONT)	SAMPLER INITIALS
6/20/18	745	A	7	6.99	0.14	YES	INIT	EAG
↓	↓	B	4	4.01	0.25	YES	INIT	EAG
↓	1620	A	7	7.00	0	YES	CONT	EAG
↓	↓	B	4	4.00	0	YES	CONT	EAG
		A	7			YES	CONT	EAG
		B	4			YES	CONT	EAG

☒ **CONDUCTIVITY**

STANDARDS: *[Specify the type(s) of standards used for calibration, the origin of the standards, the standard values, and the date the standards were prepared or purchased]*

Standard A 1413us/cm @ 25 degrees C, IE, Exp10/2018, Lot # 7GJ129

Standard B _____

Standard C _____

DATE (yy/mm/dd)	TIME (hr:min)	STD (A, B, C)	STD VALUE	INSTRUMENT RESPONSE	% DEV	CALIBRATED (YES, NO)	TYPE (INIT, CONT)	SAMPLER INITIALS
6/20/18	745	A	1413	1443627.27	2.1	YES	INIT	EAG
↓	1620	A	1413	1504@28.13	0	YES	CONT	EAG
		A	1413			YES	CONT	EAG
		A	1413			YES	CONT	EAG

☒ **DO**

STANDARDS: *[Specify the type(s) of standards used for calibration, the origin of the standards, the standard values, and the date the standards were prepared or purchased]*

Standard A Saturated Air Chamber/100%

Standard B _____

Standard C _____

DATE (yy/mm/dd)	TIME (hr:min)	STD (A, B, C)	STD VALUE	INSTRUMENT RESPONSE	% DEV	CALIBRATED (YES, NO)	TYPE (INIT, CONT)	SAMPLER INITIALS
6/20/18	745	A	100	98.7	1.3	YES	INIT	EAG
↓	1620	A	100	99.1	0.9	YES	CONT	EAG
		A	100			YES	CONT	EAG
		A	100			YES	CONT	EAG

DEP-SOP-001/01: Form FD 9000-8

USER (Full Name) **Enrico Gonzalez** **LOCATION** Tampa, FL
PROJECT NAME Nesbitt's Ehrlich **PROJECT NUMBER** 090113
INSTRUMENT (MAKE/MODEL#) Hach 2100Q **INSTRUMENT** (CONTROL #) 9

☒ **TURBIDITY**

STANDARDS: *[Specify the type(s) of standards used for calibration, the origin of the standards, the standard values, and the date the standards were prepared or purchased]*

Standard A 20.0 ntu, Hach, Lot # A7144, Exp. 08/18
Standard B 100 ntu, Hach, Lot # A7144, Exp. 08/18
Standard C 800 ntu, Hach, Lot # A7144, Exp. 08/18

DATE (yy/mm/dd)	TIME (hr:min)	STD (A, B, C)	STD VALUE	INSTRUMENT RESPONSE	% DEV	CALIBRATED (YES, NO)	TYPE (INIT, CONT)	SAMPLER INITIALS
		A	20			YES	INIT	EAG
		B	100			YES	INIT	EAG
		C	800			YES	INIT	EAG
		A	20			YES	CONT	EAG
		B	100			YES	CONT	EAG
		C	800			YES	CONT	EAG

INSTRUMENT (MAKE/MODEL#) LaMotte 2020E **INSTRUMENT #** TPA1005

☒ **TURBIDITY**

STANDARDS: *[Specify the type(s) of standards used for calibration, the origin of the standards, the standard values, and the date the standards were prepared or purchased]*

Standard A 0.0ntu, AMCO Primary, Exp. 06/19, Lot # C801968
Standard B 10ntu, AMCO Primary, Exp. 04/19, Lot # C693333C
Standard C

DATE (yy/mm/dd)	TIME (hr:min)	STD (A, B, C)	STD VALUE	INSTRUMENT RESPONSE	% DEV	CALIBRATED (YES, NO)	TYPE (INIT, CONT)	SAMPLER INITIALS
6/20/18	745	A	0	0.03	3	YES	INIT	EAG
↓	↓	B	10	10.1	1	YES	INIT	EAG
↓	1620	A	0	0.02	3	YES	CONT	EAG
↓	↓	B	10	9.93	0.7	YES	CONT	EAG
		A	0			YES	CONT	EAG
		B	10			YES	CONT	EAG

Location Tampa, FL Date 7/30/13

Project / Client McNatts Ehrlich

Project #: 090113
WAAS Name: MCNATTS CLEANERS - FORMER EHRLICH RD CLEANERS
WACS #: ERIC_4752
~~FACS #~~: On site: Joe Tison (personal vehicle)

TASK: Complete Standard O+M

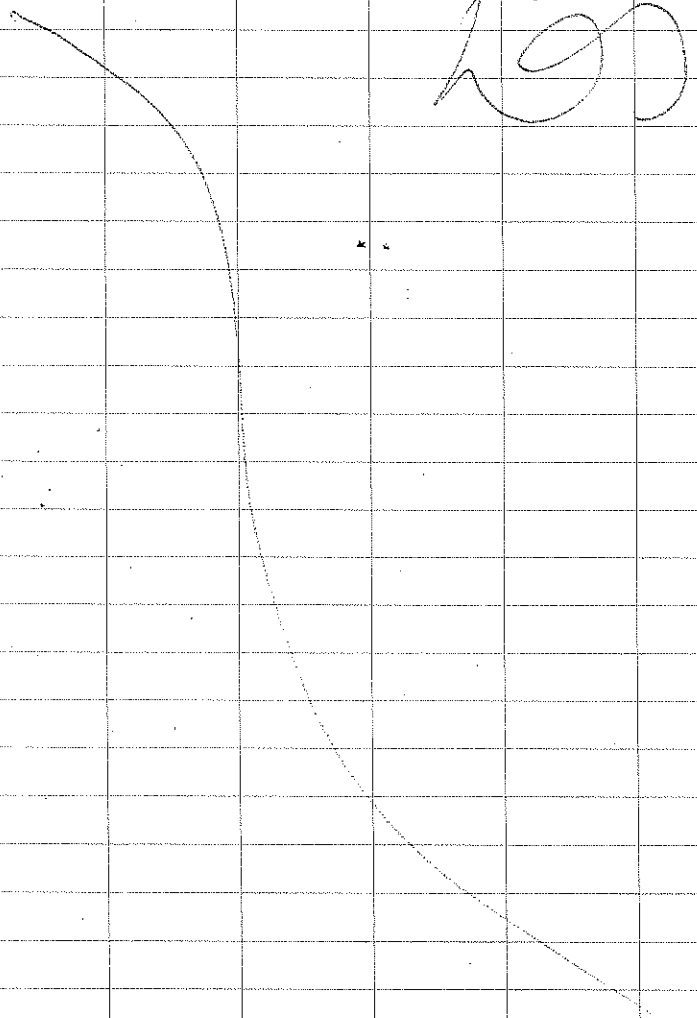
1105 Depart previous site
1130 Arrive @ home
1955 Depart home
1510 Arrive @ site (home located between other site and McNatts)
1520 Begin O+M
- System retaining on general. Cannot determine issue. Consult w/ Drew.
1645 Leave for store 9v battery (Anemometer giving abnormal readings)
1715 Arrive back @ site. Confirm that readings are legitimate. Used AI blower to flush all wells w/ low flow. Flush did not work and readings were taken. AI-5 + 6 were partially closed and "after" readings were taken.
1900 Depart from McNatts Ehrlich

Location Tampa, FL Date 7/30/18

Project / Client Markets Ehrlich

Project #: 070113

1920	Arrive @ home.	Unload truck
1930	Finish unloading.	End of day



Location Date

Project / Client

Rite in the Rain

Joe Tison

McNatts Cleaners - Ehrlich Road, Tampa

SVE Design Parameters	
Total Design Vacuum	32 in H2O
Wellhead Vacuum	10 in H2O
Total Flow	126 scfm
Flow per Well	63 scfm

Date	7/30/18
Time	1520
System running on arrival	No
System running when leaving	Yes
If no, describe reason for fault	Thermal Fuse blown and reset reset if necessary

* look for yellow trip indicator

	Pressure/Vacuum (inH2O)	FID/PID (ppm)	Anemometer (fpm)
Air Injection			
After Blower	+8.1	16.2	----
Knockout Tank	-73.2	—	----
Before Knockout Tank	-72.8	34.1	1447
VE001	-72.2	4.1	424 ✓
VE002	-72.2	32.9	391 ✓
VE003			
AI-1	-72.6	10.6	431
AI-2	-72.4	6.9	1065
AI-3	-72.2	1.3	1631
AI-4			
AI-5	-68.1	—	— Water
AI-6	-61.5	—	— Water

Hour Meter Readings

SVE	76001.3
Air Injection	39507.8

Temp. Readings

SVE influent	875
SVE effluent	110
AI	—

Water Level

MW051	2.99

System Configuration	Full/Partial/Closed
VE001	Open
VE002	↓
AI-1	↓
AI-2	↓
AI-3	↓
AI-4	—
AI-5	Partial
AI-6	↓
Dilution Valve	↓

Site Conditions	
Outside Air Temp.	90 °F
Wind Direction/Speed	SSW/5
DC Machine on/off	ON
Site Condition	Same

Fence broken

Sample SVE System	Point ID	Sample ID	Time	Method
Effluent	AR001	AR		TO-15
Influent	AR002	AR		TO-15

Notes: Troubleshooting/Maintenance Readings taken after AI 5 & 6 and valve partially closed @ wellhead

AI-5 -33.8/33/319

AI-6 -64.2/2.4 BKG

Tampa, FL 8/22/18

McNatts Ehrlich

Project #:
WACS Name:
WACS #:
On-site: Joe Tivon
Task: Complete O+M

0805 Gather equipment + load truck
0815 Depart home
0840 Arrive @ site. Open compound and record hours
0850 Attempt to calibrate PID. Call Drew and confirm PID is not needed
0905 Begin O+M
0935 Complete initial O+M. SVE system running but most points are pulling water. AI used to know all water out of system
1000 Second readings finished. Points not pulling water, but are fully open w/ low flow. Points left completely open.
1010 Clean up
1020 Depart site
1045 Arrive home. End of day

McNatts Cleaners - Ehrlich Road, Tampa

Date	8/22/13
Time	0840
System running on arrival	Yes
System running when leaving	Yes
If no, describe reason for fault	

reset if necessary_____

SVE Design Parameters	
Total Design Vacuum	32 in H2O
Wellhead Vacuum	10 in H2O
Total Flow	126 scfm
Flow per Well	63 scfm

	Pressure/Vacuum (inH2O)	FID/PID (ppm)	Anemometer (fpm)
Air Injection	—		—
After Blower	85		----
Knockout Tank	73.7		----
Before Knockout Tank	73.6		723
VE001	73.5		457
VE002	73.0		456
VE003	—		—
AI-1	72.6		460
AI-2	73.0		1255
AI-3	72.4		456
AI-4	—		—
AI-5	73.2		360
AI-6	73.1		442

Hour Meter Readings

SVE	76945.2
Air Injection	39588.2

Temp. Readings

SVE influent	86.2
SVE effluent	120.0
AI	—

Water Level

MW051	3.58

System Configuration	Full/Partial/Closed
VE001	Open Full
VE002	↓
AI-1	↓
AI-2	↓
AI-3	↓
AI-4	—
AI-5	Full
AI-6	↓
Dilution Valve	Partial

Site Conditions	
Outside Air Temp.	85 °F
Wind Direction/Speed	5 W
DC Machine on/off	ON
Site Condition	Sunny * Fence broken

Sample SVE System	Point ID	Sample ID	Time	Method
Effluent	AR001	AR —	—	TO-15
Influent	AR002	AR —	—	TO-15

Notes: Troubleshooting/Maintenance

AI off, VE003 off

126

Location Tampa, FL Date 10/16/18

Project / Client McWatt's Ehrlich

090113 A. Puskas/GHD

1300	Headed to site. mi: 149226
1315	On site. TGSM & HASP
Task:	Complete O+M, Collect Influent Sample.
Equipment:	Manometer, Anemometer, Hand Pump
	Complete O+M, System Running, See O+M sheet.
1400	AR002/AR094
1405	Depart from site.
1445	At the office. Unload all equipment. mi: 149253
	Ship air sample.
1530	End Task.

Andrew Puskas

McNatts Cleaners - Ehrlich Road, Tampa

Date	10/16/08
Time	1325
System running on arrival	Yes
System running when leaving	Yes
If no, describe reason for fault	

reset if necessary_____

SVE Design Parameters	
Total Design Vacuum	32 in H2O
Wellhead Vacuum	10 in H2O
Total Flow	126 scfm
Flow per Well	63 scfm

	Pressure/Vacuum (inH2O)	FID/PID (ppm)	Anemometer (fpm)
Air Injection	—		—
After Blower	+6.5		----
Knockout Tank	-77.2		----
Before Knockout Tank	-77.0		1468
VE001	-76.5		1558
VE002	-75.7		1490
VE003	—		—
AI-1	-61.2		1650
AI-2	-76.8		1521
AI-3	-76.1		1713
AI-4	—		—
AI-5	-71.2		1498
AI-6	-76.8		1795

Hour Meter Readings

SVE	77870 3
Air Injection	38588 1

Temp. Readings

SVE influent	96°F
SVE effluent	138°F
AI	OFF

Water Level

MW051	—

Site Conditions	
Outside Air Temp.	98 °F
Wind Direction/Speed	—
DC Machine on/off	ON
Site Condition	Sunny

System Configuration	Full/Partial/Closed
VE001	Open
VE002	↓
AI-1	↓
AI-2	↓
AI-3	↓
AI-4	← →
AI-5	Open
AI-6	↓
Dilution Valve	Partial Closed

VE003

Sample SVE System	Point ID	Sample ID	Time	Method
Effluent	AR001	AR —	—	TO-15
Influent	AR002	AR 094	1400	TO-15

Notes: Troubleshooting/Maintenance

Appendix C
Laboratory Analytical Data Reports

eurofins | Spectrum Analytical

☑ Final Report
☐ Revised Report

Report Date:
10-Jan-18 11:43

Laboratory Report
SC42808

GHD Services, Inc.
5904 Hampton Oaks Parkway, Suite F
Tampa, FL 33610
Attn: Drew Selego

Project: GHD- McNatts Cleaners Enrlich
Project #: 090113

I attest that the information contained within the report has been reviewed for accuracy and checked against the quality control requirements for each method. These results relate only to the sample(s) as received.
All applicable NELAC requirements have been met.

Massachusetts # M-MA138/MA1110
Connecticut # PH-0777
Florida # E87936
Maine # MA138
New Hampshire # 2972/2538
New Jersey # MA011
New York # 11393
Pennsylvania # 68-04426/68-02924
Rhode Island # LAO00348
USDA # P330-15-00375
Vermont # VT-11393

Authorized by:

Rebecca Merz
Quality Services Manager

Rebecca Merz

Eurofins Spectrum Analytical holds primary NELAC certification in the State of New York for the analytes as indicated with an X in the "Cert." column within this report. Please note that the State of New York does not offer certification for all analytes. Please refer to our website for specific certification holdings in each state.
Please note that this report contains 11 pages of analytical data plus Chain of Custody document(s). When the Laboratory Report is indicated as revised, this report supersedes any previously dated reports for the laboratory ID(s) referenced above. Where this report identifies subcontracted analyses, copies of the subcontractor's test report are available upon request. This report may not be reproduced, except in full, without written approval from Eurofins Spectrum Analytical, Inc.

Eurofins Spectrum Analytical, Inc. is a NELAC accredited laboratory organization and meets NELAC testing standards. Use of the NELAC logo however does not insure that Eurofins Spectrum Analytical, Inc. is currently accredited for the specific method or analyte indicated. Please refer to our 'Quality' web page at www.spectrum-analytical.com for a full listing of our current certifications and fields of accreditation. States in which Eurofins Spectrum Analytical, Inc. holds NELAC certification are New York, New Hampshire, New Jersey, Pennsylvania and Florida. All analytical work for Volatile Organic and Air analysis are transferred to and conducted at our 830 Silver Street location (PA-68-04426).

Please contact the Laboratory or Technical Director at 800-789-9115 with any questions regarding the data contained in this laboratory report.

Sample Summary

Work Order: SC42808

Project: GHD- McNatts Cleaners Enrlich

Project Number: 090113

Laboratory ID	Client Sample ID	Container	Matrix	Date Sampled	Date Received
SC42808-01	AR002/AR091	Summa canister 6 liter	Soil Gas	22-Dec-17 10:40	27-Dec-17 10:23

CASE NARRATIVE:

Data has been reported to the MDL. This report includes estimated concentrations detected below the RDL and above the MDL (J-Flag).

All non-detects and all results below the detection limit are reported as "<" (less than) the detection limit in this report.

Samples are received and the pressure is recorded from the gauge on the canister. If a canister does not have a gauge, a vacuum gauge is attached to the valve and pressure is recorded. If the canister is below -10 psig, the can must be pressurized to 0 psig. Tedlar bags do not have the pressure recorded. The can pressure can be located within this report in the sample header information.

If a Duplicate (DUP) was not requested on the Chain of Custody, method criteria may have been fulfilled with a source sample not of this Sample Delivery Group. If method or program required MS/MSD/Dup were not performed, sufficient sample was not provided to the laboratory.

See below for any non-conformances and issues relating to quality control samples and/or sample analysis/matrix.

EPA TO-15

Samples:

SC42808-01	*AR002/AR091*

Sample dilution required for high concentration of target analytes to be within the instrument calibration range.

Sample Acceptance Check Form

Client:	GHD Services, Inc. - Tampa, FL
Project:	GHD- McNatts Cleaners Enrlich / 090113
Work Order:	SC42808
Sample(s) received on:	12/27/2017

The following outlines the condition of samples for the attached Chain of Custody upon receipt.

	Yes	No	N/A
Were custody seals present?	☐	☑	☐
Were custody seals intact?	☐	☐	☑
Were samples received at a temperature of ≤ 6°C?	☐	☐	☑
Were samples cooled on ice upon transfer to laboratory representative?	☐	☐	☑
Were samples refrigerated upon transfer to laboratory representative?	☐	☐	☑
Were sample containers received intact?	☑	☐	☐
Were samples properly labeled (labels affixed to sample containers and include sample ID, site location, and/or project number and the collection date)?	☑	☐	☐
Were samples accompanied by a Chain of Custody document?	☑	☐	☐
Does Chain of Custody document include proper, full, and complete documentation, which shall include sample ID, site location, and/or project number, date and time of collection, collector's name, preservation type, sample matrix and any special remarks concerning the sample?	☐	☑	☐
Did sample container labels agree with Chain of Custody document?	☑	☐	☐
Were samples received within method-specific holding times?	☑	☐	☐

Summary of Hits

Lab ID: SC42808-01 **Client ID:** AR002/AR091

Parameter	Result	Flag	Reporting Limit	Units	Analytical Method
cis-1,2-Dichloroethene	0.167	D	0.0100	ppmv	EPA TO-15
Tetrachloroethene	0.523	D	0.0100	ppmv	EPA TO-15
Trichloroethene	0.0449	D	0.0100	ppmv	EPA TO-15
Vinyl chloride	0.0341	D	0.0100	ppmv	EPA TO-15

Please note that because there are no reporting limits associated with hazardous waste characterizations or micro analyses, this summary does not include hits from these analyses if included in this work order.

Sample Identification	Client Project #	Matrix	Collection Date/Time	Received
AR002/AR091 SC42808-01	090113	Soil Gas	22-Dec-17 10:40	27-Dec-17

Air Quality Analyses

Volatile Organics in Air — ppmv — Prepared 09-Jan-18 — Dilution: 20 — GS1 — Can pressure: -5

CAS No.	Analyte(s)	Result/Units	*RDL	Result mg/m³	*RDL	Flag	Method Ref.	Analyzed	Analyst	Batch	Cert.
75-71-8	dichlorodifluoromethane (freon12)	< 0.00914	0.0100	< 0.0450	0.0490	U, D	EPA TO-15	09-Jan-18	BRF	1800312	X
74-87-3	chloromethane	< 0.00604	0.0100	< 0.0120	0.0210	U, D	"	"	"	"	X
75-01-4	vinyl chloride	**0.0341**	0.0100	**0.0870**	0.0260	D	"	"	"	"	X
74-83-9	bromomethane	< 0.00412	0.0100	< 0.0160	0.0390	U, D	"	"	"	"	X
75-00-3	chloroethane	< 0.00472	0.0100	< 0.0120	0.0260	U, D	"	"	"	"	X
75-69-4	trichlorofluoromethane (freon 11)	< 0.00640	0.0100	< 0.0360	0.0560	U, D	"	"	"	"	X
75-35-4	1,1-dichloroethene	< 0.00796	0.0100	< 0.0320	0.0400	U, D	"	"	"	"	X
75-09-2	methylene chloride	< 0.00816	0.0100	< 0.0280	0.0350	U, D	"	"	"	"	X
156-60-5	trans-1,2-dichloroethene	< 0.00652	0.0100	< 0.0260	0.0400	U, D	"	"	"	"	X
75-34-3	1,1-dichloroethane	< 0.00714	0.0100	< 0.0290	0.0400	U, D	"	"	"	"	X
1634-04-4	methyl tert-butyl ether	< 0.00622	0.0100	< 0.0220	0.0360	U, D	"	"	"	"	X
156-59-2	cis-1,2-dichloroethene	**0.167**	0.0100	**0.662**	0.0400	D	"	"	"	"	X
67-66-3	chloroform	< 0.00808	0.0100	< 0.0390	0.0490	U, D	"	"	"	"	X
107-06-2	1,2-dichloroethane	< 0.00832	0.0100	< 0.0340	0.0400	U, D	"	"	"	"	X
71-55-6	1,1,1-trichloroethane	< 0.00498	0.0100	< 0.0270	0.0550	U, D	"	"	"	"	X
71-43-2	benzene	< 0.00796	0.0100	< 0.0250	0.0320	U, D	"	"	"	"	X
56-23-5	carbon tetrachloride	< 0.00696	0.0100	< 0.0440	0.0630	U, D	"	"	"	"	X
78-87-5	1,2-dichloropropane	< 0.00980	0.0100	< 0.0450	0.0460	U, D	"	"	"	"	X
75-27-4	bromodichloromethane	< 0.00532	0.0100	< 0.0360	0.0670	U, D	"	"	"	"	X
79-01-6	trichloroethene	**0.0449**	0.0100	**0.241**	0.0540	D	"	"	"	"	X
10061-01-5	cis-1,3-dichloropropene	< 0.00750	0.0100	< 0.0340	0.0450	U, D	"	"	"	"	X
10061-02-6	trans-1,3-dichloropropene	< 0.00648	0.0100	< 0.0290	0.0450	U, D	"	"	"	"	X
79-00-5	1,1,2-trichloroethane	< 0.00704	0.0100	< 0.0380	0.0550	U, D	"	"	"	"	X
108-88-3	toluene	< 0.00706	0.0100	< 0.0270	0.0380	U, D	"	"	"	"	X
124-48-1	dibromochloromethane	< 0.00664	0.0100	< 0.0570	0.0850	U, D	"	"	"	"	X
106-93-4	1,2-dibromoethane (edb)	< 0.00818	0.0100	< 0.0630	0.0770	U, D	"	"	"	"	X
127-18-4	tetrachloroethene	**0.523**	0.0100	**3.55**	0.0680	D	"	"	"	"	X
108-90-7	chlorobenzene	< 0.00860	0.0100	< 0.0400	0.0460	U, D	"	"	"	"	X
100-41-4	ethylbenzene	< 0.00704	0.0100	< 0.0310	0.0430	U, D	"	"	"	"	X
179601-23-1	m,p-xylene	< 0.0139	0.0200	< 0.0600	0.0870	U, D	"	"	"	"	X
75-25-2	bromoform	< 0.00578	0.0100	< 0.0600	0.103	U, D	"	"	"	"	X
95-47-6	o-xylene	< 0.00802	0.0100	< 0.0350	0.0430	U, D	"	"	"	"	X
79-34-5	1,1,2,2-tetrachloroethane	< 0.00774	0.0100	< 0.0530	0.0690	U, D	"	"	"	"	X
541-73-1	1,3-dichlorobenzene	< 0.00584	0.0100	< 0.0350	0.0600	U, D	"	"	"	"	X
106-46-7	1,4-dichlorobenzene	< 0.00674	0.0100	< 0.0410	0.0600	U, D	"	"	"	"	X
95-50-1	1,2-dichlorobenzene	< 0.00552	0.0100	< 0.0330	0.0600	U, D	"	"	"	"	X

Surrogate recoveries:

460-00-4	*4-bromofluorobenzene*	*97*		*70-130 %*			"	"	"	"	

Analyte(s)	Result	Flag	Units	*RDL	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
EPA TO-15										
Batch 1800312 - General Air Prep										
Blank (1800312-BLK1)					Prepared & Analyzed: 09-Jan-18					
dichlorodifluoromethane (freon12)	< 0.000457	U	ppmv	0.000457						
chloromethane	< 0.000302	U	ppmv	0.000302						
vinyl chloride	< 0.000385	U	ppmv	0.000385						
bromomethane	< 0.000206	U	ppmv	0.000206						
chloroethane	< 0.000236	U	ppmv	0.000236						
trichlorofluoromethane (freon 11)	< 0.000320	U	ppmv	0.000320						
1,1-dichloroethene	< 0.000398	U	ppmv	0.000398						
methylene chloride	< 0.000408	U	ppmv	0.000408						
trans-1,2-dichloroethene	< 0.000326	U	ppmv	0.000326						
1,1-dichloroethane	< 0.000357	U	ppmv	0.000357						
methyl tert-butyl ether	< 0.000311	U	ppmv	0.000311						
cis-1,2-dichloroethene	< 0.000379	U	ppmv	0.000379						
chloroform	< 0.000404	U	ppmv	0.000404						
1,2-dichloroethane	< 0.000416	U	ppmv	0.000416						
1,1,1-trichloroethane	< 0.000249	U	ppmv	0.000249						
benzene	< 0.000398	U	ppmv	0.000398						
carbon tetrachloride	< 0.000348	U	ppmv	0.000348						
1,2-dichloropropane	< 0.000490	U	ppmv	0.000490						
bromodichloromethane	< 0.000266	U	ppmv	0.000266						
trichloroethene	< 0.000408	U	ppmv	0.000408						
cis-1,3-dichloropropene	< 0.000375	U	ppmv	0.000375						
trans-1,3-dichloropropene	< 0.000324	U	ppmv	0.000324						
1,1,2-trichloroethane	< 0.000352	U	ppmv	0.000352						
toluene	< 0.000353	U	ppmv	0.000353						
dibromochloromethane	< 0.000332	U	ppmv	0.000332						
1,2-dibromoethane (edb)	< 0.000409	U	ppmv	0.000409						
tetrachloroethene	**0.000381**	I	ppmv	0.000341						
chlorobenzene	< 0.000430	U	ppmv	0.000430						
ethylbenzene	< 0.000352	U	ppmv	0.000352						
m,p-xylene	< 0.000694	U	ppmv	0.000694						
bromoform	< 0.000289	U	ppmv	0.000289						
o-xylene	< 0.000401	U	ppmv	0.000401						
1,1,2,2-tetrachloroethane	< 0.000387	U	ppmv	0.000387						
1,3-dichlorobenzene	< 0.000292	U	ppmv	0.000292						
1,4-dichlorobenzene	< 0.000337	U	ppmv	0.000337						
1,2-dichlorobenzene	< 0.000276	U	ppmv	0.000276						
Surrogate: 4-bromofluorobenzene	*8.27*		ppbv		*10.0*		*83*	*70-130*		
LCS (1800312-BS1)					Prepared & Analyzed: 09-Jan-18					
dichlorodifluoromethane (freon12)	**7.64**		ppbv		10.0		76	70-130		
chloromethane	**8.21**		ppbv		10.0		82	70-130		
vinyl chloride	**8.60**		ppbv		10.0		86	70-130		
bromomethane	**9.00**		ppbv		10.0		90	70-130		
chloroethane	**8.55**		ppbv		10.0		86	70-130		
trichlorofluoromethane (freon 11)	**9.88**		ppbv		10.0		99	70-130		
1,1-dichloroethene	**8.77**		ppbv		10.0		88	70-130		
methylene chloride	**8.48**		ppbv		10.0		85	70-130		
trans-1,2-dichloroethene	**8.34**		ppbv		10.0		83	70-130		
1,1-dichloroethane	**8.49**		ppbv		10.0		85	70-130		
methyl tert-butyl ether	**8.51**		ppbv		10.0		85	70-130		
cis-1,2-dichloroethene	**8.63**		ppbv		10.0		86	70-130		

Analyte(s)	Result	Flag	Units	*RDL	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
EPA TO-15										
Batch 1800312 - General Air Prep										
LCS (1800312-BS1)					Prepared & Analyzed: 09-Jan-18					
chloroform	**8.53**		ppbv		10.0		85	70-130		
1,2-dichloroethane	**8.62**		ppbv		10.0		86	70-130		
1,1,1-trichloroethane	**8.30**		ppbv		10.0		83	70-130		
benzene	**8.66**		ppbv		10.0		87	70-130		
carbon tetrachloride	**8.12**		ppbv		10.0		81	70-130		
1,2-dichloropropane	**9.16**		ppbv		10.0		92	70-130		
bromodichloromethane	**8.24**		ppbv		10.0		82	70-130		
trichloroethene	**8.37**		ppbv		10.0		84	70-130		
cis-1,3-dichloropropene	**8.94**		ppbv		10.0		89	70-130		
trans-1,3-dichloropropene	**8.62**		ppbv		10.0		86	70-130		
1,1,2-trichloroethane	**8.65**		ppbv		10.0		86	70-130		
toluene	**8.69**		ppbv		10.0		87	70-130		
dibromochloromethane	**9.23**		ppbv		10.0		92	70-130		
1,2-dibromoethane (edb)	**8.37**		ppbv		10.0		84	70-130		
tetrachloroethene	**7.85**		ppbv		10.0		79	70-130		
chlorobenzene	**8.99**		ppbv		10.0		90	70-130		
ethylbenzene	**9.85**		ppbv		10.0		98	70-130		
m,p-xylene	**21.5**		ppbv		20.0		107	70-130		
bromoform	**10.2**		ppbv		10.0		102	70-130		
o-xylene	**11.1**		ppbv		10.0		111	70-130		
1,1,2,2-tetrachloroethane	**11.4**		ppbv		10.0		114	70-130		
1,3-dichlorobenzene	**11.2**		ppbv		10.0		112	70-130		
1,4-dichlorobenzene	**11.1**		ppbv		10.0		111	70-130		
1,2-dichlorobenzene	**11.9**		ppbv		10.0		119	70-130		
Surrogate: 4-bromofluorobenzene	*11.8*		ppbv		*10.0*		*118*	*70-130*		
Duplicate (1800312-DUP1)			**Source: SC42808-01**		Prepared & Analyzed: 09-Jan-18					
dichlorodifluoromethane (freon12)	< 0.00914	U, D	ppmv	0.00914		BRL				25
chloromethane	< 0.00604	U, D	ppmv	0.00604		BRL				25
vinyl chloride	**0.0375**	D	ppmv	0.00770		0.0341			10	25
bromomethane	< 0.00412	U, D	ppmv	0.00412		BRL				25
chloroethane	< 0.00472	U, D	ppmv	0.00472		BRL				25
trichlorofluoromethane (freon 11)	< 0.00640	U, D	ppmv	0.00640		BRL				25
1,1-dichloroethene	< 0.00796	U, D	ppmv	0.00796		BRL				25
methylene chloride	< 0.00816	U, D	ppmv	0.00816		BRL				25
trans-1,2-dichloroethene	< 0.00652	U, D	ppmv	0.00652		BRL				25
1,1-dichloroethane	< 0.00714	U, D	ppmv	0.00714		BRL				25
methyl tert-butyl ether	< 0.00622	U, D	ppmv	0.00622		BRL				25
cis-1,2-dichloroethene	**0.177**	D	ppmv	0.00758		0.167			5	25
chloroform	< 0.00808	U, D	ppmv	0.00808		BRL				25
1,2-dichloroethane	< 0.00832	U, D	ppmv	0.00832		BRL				25
1,1,1-trichloroethane	< 0.00498	U, D	ppmv	0.00498		BRL				25
benzene	< 0.00796	U, D	ppmv	0.00796		BRL				25
carbon tetrachloride	< 0.00696	U, D	ppmv	0.00696		BRL				25
1,2-dichloropropane	< 0.00980	U, D	ppmv	0.00980		BRL				25
bromodichloromethane	< 0.00532	U, D	ppmv	0.00532		BRL				25
trichloroethene	**0.0466**	D	ppmv	0.00816		0.0449			4	25
cis-1,3-dichloropropene	< 0.00750	U, D	ppmv	0.00750		BRL				25
trans-1,3-dichloropropene	< 0.00648	U, D	ppmv	0.00648		BRL				25
1,1,2-trichloroethane	< 0.00704	U, D	ppmv	0.00704		BRL				25
toluene	< 0.00706	U, D	ppmv	0.00706		BRL				25

Analyte(s)	Result	Flag	Units	*RDL	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
EPA TO-15										
Batch 1800312 - General Air Prep										
Duplicate (1800312-DUP1)			**Source: SC42808-01**			Prepared & Analyzed: 09-Jan-18				
dibromochloromethane	< 0.00664	U, D	ppmv	0.00664		BRL				25
1,2-dibromoethane (edb)	< 0.00818	U, D	ppmv	0.00818		BRL				25
tetrachloroethene	**0.565**	D	ppmv	0.00682		0.523			8	25
chlorobenzene	< 0.00860	U, D	ppmv	0.00860		BRL				25
ethylbenzene	< 0.00704	U, D	ppmv	0.00704		BRL				25
m,p-xylene	< 0.0139	U, D	ppmv	0.0139		BRL				25
bromoform	< 0.00578	U, D	ppmv	0.00578		BRL				25
o-xylene	< 0.00802	U, D	ppmv	0.00802		BRL				25
1,1,2,2-tetrachloroethane	< 0.00774	U, D	ppmv	0.00774		BRL				25
1,3-dichlorobenzene	< 0.00584	U, D	ppmv	0.00584		BRL				25
1,4-dichlorobenzene	< 0.00674	U, D	ppmv	0.00674		BRL				25
1,2-dichlorobenzene	< 0.00552	U, D	ppmv	0.00552		BRL				25
Surrogate: 4-bromofluorobenzene	*9.16*		ppbv		*10.0*		*92*	*70-130*		

Certificate of Analysis

Container Type: Summa canister 6 liter **Date of Analysis:** 12/21/2017

Canister ID: 4629 **Analyst's Initials:** BRF

The sampling device detailed above has been tested and is certified to the limits for the target compounds as listed below.

Analyte	*Quantitation Limit (ppbv)*	*Analyte*	*Quantitation Limit (ppbv)*
Acetone	<0.2	Ethanol	<0.2
Acrylonitrile	<0.2	4-Isopropyl Toluene	<0.2
Benzene	<0.2	Ethyl acetate	<0.2
Benzyl chloride	<0.2	Ethylbenzene	<0.2
Bromodichloromethane	<0.2	4-Ethyltoluene	<0.2
Bromoform	<0.2	n-Heptane	<0.2
Bromomethane	<0.2	Hexachlorobutadiene	<0.2
1,3-Butadiene	<0.2	Hexane	<0.2
2-Butanone (MEK)	<0.2	2-Hexanone (MBK)	<0.2
Carbon disulfide	<0.2	Isopropyl alcohol	<0.2
Carbon tetrachloride	<0.2	4-Methyl-2-pentanone (MIBK)	<0.2
Chlorobenzene	<0.2	Methyl tert-butyl ether	<0.2
Chloroethane	<0.2	Methylene chloride	<0.2
1,4-Dioxane	<0.2	Naphthalene	<0.2
n-Butylbenzene	<0.2	1,1,1,2-Tetrachlorethane	<0.2
Chloroform	<0.2	Propene	<0.2
Chloromethane	<0.2	Styrene	<0.2
Cyclohexane	<0.2	1,1,2,2-Tetrachloroethane	<0.2
Dibromochloromethane	<0.2	Tetrachloroethene	<0.2
1,2-Dibromoethane (EDB)	<0.2	Tetrahydrofuran	<0.2
1,2-Dichlorobenzene	<0.2	Toluene	<0.2
1,3-Dichlorobenzene	<0.2	1,2,4-Trichlorobenzene	<0.2
1,4-Dichlorobenzene	<0.2	1,1,1-Trichloroethane	<0.2
Dichlorodifluoromethane (Freon12)	<0.2	1,1,2-Trichloroethane	<0.2
1,1-Dichloroethane	<0.2	Trichloroethene	<0.2
1,2-Dichloroethane	<0.2	1,1,2-Trichlorotrifluoroethane (Freon 113)	<0.2
1,1-Dichloroethene	<0.2	Trichlorofluoromethane (Freon 11)	<0.2
cis-1,2-Dichloroethene	<0.2	1,2,4-Trimethylbenzene	<0.2
trans-1,2-Dichloroethene	<0.2	1,3,5-Trimethylbenzene	<0.2
1,2-Dichloropropane	<0.2	Vinyl chloride	<0.2
cis-1,3-Dichloropropene	<0.2	m,p-Xylene	<0.2
trans-1,3-Dichloropropene	<0.2	o-Xylene	<0.2
1,2-Dichlorotetrafluoroethane (Freon 114)	<0.2	sec-Butylbenzene	<0.2
Isopropylbenzene	<0.2		

This certification applies to the following sampling devices:

0219

Notes and Definitions

D	Data reported from a dilution
GS1	Sample dilution required for high concentration of target analytes to be within the instrument calibration range.
I	Detected above the Method Detection Limit but below the Reporting Limit; therefore, result is an estimated concentration (CLP J-Flag).
U	Analyte included in the analysis, but not detected at or above the MDL.
dry	Sample results reported on a dry weight basis
NR	Not Reported
RPD	Relative Percent Difference

Laboratory Control Sample (LCS): A known matrix spiked with compound(s) representative of the target analytes, which is used to document laboratory performance.

Matrix Duplicate: An intra-laboratory split sample which is used to document the precision of a method in a given sample matrix.

Matrix Spike: An aliquot of a sample spiked with a known concentration of target analyte(s). The spiking occurs prior to sample preparation and analysis. A matrix spike is used to document the bias of a method in a given sample matrix.

Method Blank: An analyte-free matrix to which all reagents are added in the same volumes or proportions as used in sample processing. The method blank should be carried through the complete sample preparation and analytical procedure. The method blank is used to document contamination resulting from the analytical process.

Method Detection Limit (MDL): The minimum concentration of a substance that can be measured and reported with 99% confidence that the analyte concentration is greater than zero and is determined from analysis of a sample in a given matrix type containing the analyte.

Reportable Detection Limit (RDL): The lowest concentration that can be reliably achieved within specified limits of precision and accuracy during routine laboratory operating conditions. For many analytes the RDL analyte concentration is selected as the lowest non-zero standard in the calibration curve. While the RDL is approximately 5 to 10 times the MDL, the RDL for each sample takes into account the sample volume/weight, extract/digestate volume, cleanup procedures and, if applicable, dry weight correction. Sample RDLs are highly matrix-dependent.

Surrogate: An organic compound which is similar to the target analyte(s) in chemical composition and behavior in the analytical process, but which is not normally found in environmental samples. These compounds are spiked into all blanks, standards, and samples prior to analysis. Percent recoveries are calculated for each surrogate.

Continuing Calibration Verification: The calibration relationship established during the initial calibration must be verified at periodic intervals. Concentrations, intervals, and criteria are method specific.

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Chain of Custody Record/Field Test Data Sheets for Air Analyses

Page 1 of 1

SC42808 B4

Special Handling:
☒ Standard TAT - 7 to 10 business days
☐ Rush TAT - Date Needed: ________

All TATs subject to laboratory approval.
Min. 24-hour notification needed for rushes.

Report To: Drew Selego	Invoice To: GHD 5904 Hampton Oaks PKWY Suite Tampa FL	Project No.: 090113 Site Name: McNatts Ehrlich Location: 5297 Ehrlich Rd Tampa State: FL Sampler(s): Joe Ortanides
Tel #:	Attn:	
Project Manager: Drew Selego	P.O. No.: RQN:	

Analysis: VOC (TO-15) 12/12/23 — Matrix: Indoor/Ambient Air, Soil Gas — Check box if canister is returned unused

Can ID	Can Size (L)	Outgoing Canister Pressure ("Hg) (Lab)	Incoming Canister Pressure ("Hg) (Lab)	Filter (Flow Reg. ID)	Flow Controller Readout (ml/min)	Lab Id:	Sample Id:	Sample Date(s)	Time Start (24 hr clock)	Time Stop (24 hr clock)	Canister Pressure in Field ("Hg) (Start)	Canister Pressure in Field ("Hg) (Stop)	Interior Temp. (F) (Start)	Interior Temp. (F) (Stop)	VOC (TO-15)	Indoor /Ambient Air	Soil Gas	Check box if canister is returned unused
0219	6	-30		30		SC42808-01	AR002/AR071	12-22-17	10:40		-30				X		X	
										21.8	0	21.8	2					

LABORATORY USE ONLY

Date of Request: 12/13/17	Total # Canisters: 1
Requested by: Drew Selego	# LL Canisters: —
Company: GHD	# Flow Controllers: —
Location: Tampa FL	Flow Rate/Setting: —
Date Needed: 12/19/17	# Filters 1
Order #: 43288	Gauge # 4
Prepared by: BRF/KB	

Special Instructions/QC Requirements & Comments:
Was Name MCNATTS CLEANERS - FORMER EHRLICH RD CLEANERS, Was# 299502136
Analysis and Matrix added per client. BM 12/29

Client Use	Ambient Temperature (Fahrenheit)	Ambient Pressure (inches of Hg)
Start		
Stop		

I attest that all media has been received in good working condition, based on visual observation, and agree to the terms and conditions as listed on the back of this document.

Signed: [signature] Date: 12-22-17
Printed: Joe Ortanides

QA/QC Reporting Level:
☐ Standard ☐ NY ASP A* ☐ TIER II* ☐ MA CAM
☐ DQA* ☐ NY ASP B* ☐ TIER IV* ☐ CT RCP
* additional charge may apply contact ESAI's Client Service Dept for further info.

Please contact ESAI's Air Department immediately at (800) 789-9115 if you experience any technical difficulties or suspect any QC issue(s) with air media.

Relinquished by:	Received by:	Date:	Time:
[signature]		12-22-17	
Fedex	[signature]	12/27/17	1023

☒ EDD Format Dry Cleaner
☐ E-mail Results to

A 5926

eurofins Spectrum Analytical

Chain of Custody Record/Field Test Data Sheets for Air Analyses

Page 1 of 1

SC42808 [illegible]

Special Handling:
☒ Standard TAT - 7 to 10 business days
☐ Rush TAT - Date Needed: ______
All TATs subject to laboratory approval. Min. 24-hour notification needed for rushes.

Report To: Drew Selego	Invoice To: GHD 5904 Hampton Oaks PKWY Suite Tampa FL	Project No.: 090113 Site Name: McNatt Ehrlich Location: [illegible] Rd Tampa State: FL Sampler(s): Joe Ortanez
Tel #:	Attn:	
Project Manager: Drew Selego	P.O. No.: RQN:	

Can ID	Can Size (L)	Outgoing Canister Pressure ("Hg) (Lab)	Incoming Canister Pressure ("Hg) (Lab)	Filter (Flow Reg. ID)	Flow Controller Readout (ml/min)	Lab Id	Sample Id	Sample Date(s)	Time Start (24 hr clock)	Time Stop (24 hr clock)	Canister Pressure in Field ("Hg) (Start)	Canister Pressure in Field ("Hg) (Stop)	Interior Temp. (F) (Start)	Interior Temp. (F) (Stop)	Analysis: VOC (TO-15)	Analysis: [illegible]	Matrix: Indoor/Ambient Air	Matrix: Soil Gas	Check box if canister is returned unused
-5 0219	6	-30	-5	30		SC42808-01	AR033/AR-91	12-22-17	10:40		-30				X			X	
											21.8	0	21.8	12					

LABORATORY USE ONLY

Date of Request: 12/13/17	Total # Canisters: 1
Requested by: Drew Selego	# I.I. Canisters: —
Company: GHD	# Flow Controllers: —
Location: Tampa FL	Flow Rate/Setting: —
Date Needed: 12/19/17	# Filters: 1
Order #: 43288	Gauge #: 4
Prepared by: BRF/KB	

Special Instructions/QC Requirements & Comments:
Wac Name MCNATTS CLEANERS - FORMER EHRLICH RD CLEANERS, Wac# 299502136
Analysis and Matrix added per client [illegible]

Client Use	Ambient Temperature (Fahrenheit)	Ambient Pressure (inches of Hg)
Start		
Stop		

I attest that all media has been received in good working condition, based on visual observation, and agree to the terms and conditions as listed on the back of this document.

Signed: [signature] Date: 12-22-17
Printed: Joe Ortanez

QA/QC Reporting Level:
☐ Standard ☐ NY ASP A* ☐ TIER II* ☐ MA CAM
☐ DQA* ☐ NY ASP B* ☐ TIER IV* ☐ CT RCP
* additional charge may apply contact ESAI's Client Service Dept for further info.

Please contact ESAI's Air Department immediately at (800) 789-9115 if you experience any technical difficulties or suspect any QC issue(s) with air media.

Relinquished by:	Received by:	Date:	Time:
[signature]		12-22-17	
FedEx	[signature]	12/22/17	1023

☒ EDD Format: Dry Cleaner
☐ E-mail Results to: ______

A 5926

ORIGIN ID:MCFA (813) 971-3882
JOE ORFANIDES
GHD
5904 HAMPTON OAKS PARKWAY
SUITE F
TAMPA, FL 33610
UNITED STATES US

SHIP DATE: 22DEC17
ACTWGT: 8.00 LB
CAD: 2091413/INET3920

BILL SENDER

TO SAMPLE RECIEVING
EUROFINS
11 ALMGREN DR

AGAWAM MA 01001
(413) 789-9018 REF: 090113** ***
INV:
PO: DEPT:

Fe

THU - 28 DEC 4
EXPRESS SA

TRK# 0201 7710 7741 1321

01
MA-US B

H7 EHTA

Batch Summary

1800312

Air Quality Analyses

1800312-BLK1
1800312-BS1
1800312-DUP1
SC42808-01 (AR002/AR091)

S815702

Air Quality Analyses

S815702-CAL1
S815702-CAL2
S815702-CAL3
S815702-CAL4
S815702-CAL5
S815702-CAL6
S815702-CAL7
S815702-CAL8
S815702-ICV1
S815702-LCV1
S815702-LCV2
S815702-TUN1

S815812

Air Quality Analyses

S815812-CCV1
S815812-TUN1

☑ Final Report
☐ Revised Report

Report Date:
29-Mar-18 11:04

Laboratory Report
SC44897

GHD Services, Inc.
5904 Hampton Oaks Parkway, Suite F
Tampa, FL 33610
Attn: Drew Selego

Project: GHD- McNatts Cleaners Enrlich
Project #: 090113

I attest that the information contained within the report has been reviewed for accuracy and checked against the quality control requirements for each method. These results relate only to the sample(s) as received.
All applicable NELAC requirements have been met.

Massachusetts # M-MA138/MA1110
Connecticut # PH-0777
Florida # E87936
Maine # MA138
New Hampshire # 2972/2538
New Jersey # MA011
New York # 11393
Pennsylvania # 68-04426/68-02924
Rhode Island # LAO00348
USDA # P330-15-00375
Vermont # VT-11393

Authorized by:

Dawn Wojcik
Laboratory Director

Eurofins Spectrum Analytical holds primary NELAC certification in the State of New York for the analytes as indicated with an X in the "Cert." column within this report. Please note that the State of New York does not offer certification for all analytes. Please refer to our website for specific certification holdings in each state.
Please note that this report contains 14 pages of analytical data plus Chain of Custody document(s). When the Laboratory Report is indicated as revised, this report supersedes any previously dated reports for the laboratory ID(s) referenced above. Where this report identifies subcontracted analyses, copies of the subcontractor's test report are available upon request. This report may not be reproduced, except in full, without written approval from Eurofins Spectrum Analytical, Inc.

Eurofins Spectrum Analytical, Inc. is a NELAC accredited laboratory organization and meets NELAC testing standards. Use of the NELAC logo however does not insure that Eurofins Spectrum Analytical, Inc. is currently accredited for the specific method or analyte indicated. Please refer to our 'Quality' web page at www.spectrum-analytical.com for a full listing of our current certifications and fields of accreditation. States in which Eurofins Spectrum Analytical, Inc. holds NELAC certification are New York, New Hampshire, New Jersey, Pennsylvania and Florida. All analytical work for Volatile Organic and Air analysis are transferred to and conducted at our 830 Silver Street location (PA-68-04426).

Please contact the Laboratory or Technical Director at 800-789-9115 with any questions regarding the data contained in this laboratory report.

Sample Summary

Work Order: SC44897

Project: GHD- McNatts Cleaners Enrlich

Project Number: 090113

Laboratory ID	Client Sample ID	Container	Matrix	Date Sampled	Date Received
SC44897-01	INF AR002/AR092	Tedlar Bag	Soil Gas	19-Mar-18 10:45	20-Mar-18 11:10

CASE NARRATIVE:

Data has been reported to the MDL. This report includes estimated concentrations detected below the RDL and above the MDL (J-Flag).

All non-detects and all results below the detection limit are reported as "<" (less than) the detection limit in this report.

Samples are received and the pressure is recorded from the gauge on the canister. If a canister does not have a gauge, a vacuum gauge is attached to the valve and pressure is recorded. If the canister is below -10 psig, the can must be pressurized to 0 psig. Tedlar bags do not have the pressure recorded. The can pressure can be located within this report in the sample header information.

If a Duplicate (DUP) was not requested on the Chain of Custody, method criteria may have been fulfilled with a source sample not of this Sample Delivery Group. If method or program required MS/MSD/Dup were not performed, sufficient sample was not provided to the laboratory.

See below for any non-conformances and issues relating to quality control samples and/or sample analysis/matrix.

EPA TO-15

Laboratory Control Samples:

1804014-BS1

Analyte is found in the associated blank as well as in the sample (CLP B-flag).

1,1,2-Trichloroethane
1,2-Dichloroethane
Chloroform
Methylene chloride
Tetrachloroethene
Toluene

1804015-BS1

Analyte is found in the associated blank as well as in the sample (CLP B-flag).

1,1,2-Trichloroethane
1,2-Dichloroethane
Chloroform
Methylene chloride
Tetrachloroethene
Toluene

Samples:

SC44897-01 *INF AR002/AR092*

Analyte is found in the associated blank as well as in the sample (CLP B-flag).

Tetrachloroethene

Sample submitted with insufficient time to prepare or analyze within the method recommended holding time.

Sample was collected in a Tedlar bag; recommended hold time is 48 hours for all except FL, which allows a 72-hour hold time. This media is not appropriate for ppbv level analysis.

SC44897-01RE1 *INF AR002/AR092*

Analyte is found in the associated blank as well as in the sample (CLP B-flag).

Tetrachloroethene
Toluene

Sample dilution required for high concentration of target analytes to be within the instrument calibration range.

EPA TO-15

Samples:

SC44897-01RE1 *INF AR002/AR092*

Sample was collected in a Tedlar bag; recommended hold time is 48 hours for all except FL, which allows a 72-hour hold time.
This media is not appropriate for ppbv level analysis.

This result was analyzed outside of the EPA recommended holding time.

Sample Acceptance Check Form

Client:	GHD Services, Inc. - Tampa, FL
Project:	GHD- McNatts Cleaners Enrlich / 090113
Work Order:	SC44897
Sample(s) received on:	3/20/2018

The following outlines the condition of samples for the attached Chain of Custody upon receipt.

	Yes	No	N/A
Were custody seals present?	☐	☑	☐
Were custody seals intact?	☐	☐	☑
Were samples received at a temperature of ≤ 6°C?	☐	☐	☑
Were samples cooled on ice upon transfer to laboratory representative?	☐	☐	☑
Were samples refrigerated upon transfer to laboratory representative?	☐	☐	☑
Were sample containers received intact?	☑	☐	☐
Were samples properly labeled (labels affixed to sample containers and include sample ID, site location, and/or project number and the collection date)?	☑	☐	☐
Were samples accompanied by a Chain of Custody document?	☑	☐	☐
Does Chain of Custody document include proper, full, and complete documentation, which shall include sample ID, site location, and/or project number, date and time of collection, collector's name, preservation type, sample matrix and any special remarks concerning the sample?	☑	☐	☐
Did sample container labels agree with Chain of Custody document?	☑	☐	☐
Were samples received within method-specific holding times?	☑	☐	☐

Summary of Hits

Lab ID: SC44897-01 **Client ID:** INF AR002/AR092

Parameter	Result	Flag	Reporting Limit	Units	Analytical Method
cis-1,2-Dichloroethene	0.100	D	0.0100	ppmv	EPA TO-15
Tetrachloroethene	0.0982	D, B	0.0100	ppmv	EPA TO-15
Trichloroethene	0.0257	D	0.0100	ppmv	EPA TO-15
Vinyl chloride	0.0550	D	0.0100	ppmv	EPA TO-15

Lab ID: SC44897-01RE1 **Client ID:** INF AR002/AR092

Parameter	Result	Flag	Reporting Limit	Units	Analytical Method
cis-1,2-Dichloroethene	0.0938	D	0.00250	ppmv	EPA TO-15
Tetrachloroethene	0.0972	D, B	0.00250	ppmv	EPA TO-15
Toluene	0.00400	B, D	0.00250	ppmv	EPA TO-15
trans-1,2-Dichloroethene	0.00166	I, D	0.00250	ppmv	EPA TO-15
Trichloroethene	0.0246	D	0.00250	ppmv	EPA TO-15
Vinyl chloride	0.0499	D	0.00250	ppmv	EPA TO-15

Please note that because there are no reporting limits associated with hazardous waste characterizations or micro analyses, this summary does not include hits from these analyses if included in this work order.

Sample Identification	Client Project #	Matrix	Collection Date/Time	Received
INF AR002/AR092 SC44897-01	090113	Soil Gas	19-Mar-18 10:45	20-Mar-18

CAS No.	*Analyte(s)*	*Result/Units*	**RDL*	*Result mg/m³*	**RDL*	*Flag*	*Method Ref.*	*Analyzed*	*Analyst*	*Batch*	*Cert.*
Air Quality Analyses											
Volatile Organics in Air		ppmv	Prepared 23-Mar-18 Dilution: 20			HT1, TB					
75-71-8	dichlorodifluoromethane (freon12)	< 0.00914	0.0100	< 0.0450	0.0490	U, D	EPA TO-15	24-Mar-18	SAD	1804014	X
74-87-3	chloromethane	< 0.00604	0.0100	< 0.0120	0.0210	U, D	"	"	"	"	X
75-01-4	vinyl chloride	**0.0550**	0.0100	**0.141**	0.0260	D	"	"	"	"	X
74-83-9	bromomethane	< 0.00412	0.0100	< 0.0160	0.0390	U, D	"	"	"	"	X
75-00-3	chloroethane	< 0.00472	0.0100	< 0.0120	0.0260	U, D	"	"	"	"	X
75-69-4	trichlorofluoromethane (freon 11)	< 0.00640	0.0100	< 0.0360	0.0560	U, D	"	"	"	"	X
75-35-4	1,1-dichloroethene	< 0.00796	0.0100	< 0.0320	0.0400	U, D	"	"	"	"	X
75-09-2	methylene chloride	< 0.00816	0.0100	< 0.0280	0.0350	U, D	"	"	"	"	X
156-60-5	trans-1,2-dichloroethene	< 0.00652	0.0100	< 0.0260	0.0400	U, D	"	"	"	"	X
75-34-3	1,1-dichloroethane	< 0.00714	0.0100	< 0.0290	0.0400	U, D	"	"	"	"	X
1634-04-4	methyl tert-butyl ether	< 0.00622	0.0100	< 0.0220	0.0360	U, D	"	"	"	"	X
156-59-2	cis-1,2-dichloroethene	**0.100**	0.0100	**0.397**	0.0400	D	"	"	"	"	X
67-66-3	chloroform	< 0.00808	0.0100	< 0.0390	0.0490	U, D	"	"	"	"	X
107-06-2	1,2-dichloroethane	< 0.00832	0.0100	< 0.0340	0.0400	U, D	"	"	"	"	X
71-55-6	1,1,1-trichloroethane	< 0.00498	0.0100	< 0.0270	0.0550	U, D	"	"	"	"	X
71-43-2	benzene	< 0.00796	0.0100	< 0.0250	0.0320	U, D	"	"	"	"	X
56-23-5	carbon tetrachloride	< 0.00696	0.0100	< 0.0440	0.0630	U, D	"	"	"	"	X
78-87-5	1,2-dichloropropane	< 0.00980	0.0100	< 0.0450	0.0460	U, D	"	"	"	"	X
75-27-4	bromodichloromethane	< 0.00532	0.0100	< 0.0360	0.0670	U, D	"	"	"	"	X
79-01-6	trichloroethene	**0.0257**	0.0100	**0.138**	0.0540	D	"	"	"	"	X
10061-01-5	cis-1,3-dichloropropene	< 0.00750	0.0100	< 0.0340	0.0450	U, D	"	"	"	"	X
10061-02-6	trans-1,3-dichloropropene	< 0.00648	0.0100	< 0.0290	0.0450	U, D	"	"	"	"	X
79-00-5	1,1,2-trichloroethane	< 0.00704	0.0100	< 0.0380	0.0550	U, D	"	"	"	"	X
108-88-3	toluene	< 0.00706	0.0100	< 0.0270	0.0380	U, D	"	"	"	"	X
124-48-1	dibromochloromethane	< 0.00664	0.0100	< 0.0570	0.0850	U, D	"	"	"	"	X
106-93-4	1,2-dibromoethane (edb)	< 0.00818	0.0100	< 0.0630	0.0770	U, D	"	"	"	"	X
127-18-4	tetrachloroethene	**0.0982**	0.0100	**0.666**	0.0680	D, B	"	"	"	"	X
108-90-7	chlorobenzene	< 0.00860	0.0100	< 0.0400	0.0460	U, D	"	"	"	"	X
100-41-4	ethylbenzene	< 0.00704	0.0100	< 0.0310	0.0430	U, D	"	"	"	"	X
179601-23-1	m,p-xylene	< 0.0139	0.0200	< 0.0600	0.0870	U, D	"	"	"	"	X
75-25-2	bromoform	< 0.00578	0.0100	< 0.0600	0.103	U, D	"	"	"	"	X
95-47-6	o-xylene	< 0.00802	0.0100	< 0.0350	0.0430	U, D	"	"	"	"	X
79-34-5	1,1,2,2-tetrachloroethane	< 0.00774	0.0100	< 0.0530	0.0690	U, D	"	"	"	"	X
541-73-1	1,3-dichlorobenzene	< 0.00584	0.0100	< 0.0350	0.0600	U, D	"	"	"	"	X
106-46-7	1,4-dichlorobenzene	< 0.00674	0.0100	< 0.0410	0.0600	U, D	"	"	"	"	X
95-50-1	1,2-dichlorobenzene	< 0.00552	0.0100	< 0.0330	0.0600	U, D	"	"	"	"	X
Surrogate recoveries:											
460-00-4	*4-bromofluorobenzene*	*96*		*70-130 %*			"	"	"	"	
Re-analysis of Volatile Organics in Air			Dilution: 5			GS1, I02, TB					
75-71-8	dichlorodifluoromethane (freon12)	< 0.00228	0.00250	< 0.0110	0.0120	U, D	EPA TO-15	24-Mar-18	SAD	1804015	X
74-87-3	chloromethane	< 0.00151	0.00250	< 0.00300	0.00500	U, D	"	"	"	"	X
75-01-4	vinyl chloride	**0.0499**	0.00250	**0.128**	0.00600	D	"	"	"	"	X
74-83-9	bromomethane	< 0.00103	0.00250	< 0.00400	0.0100	U, D	"	"	"	"	X
75-00-3	chloroethane	< 0.00118	0.00250	< 0.00300	0.00700	U, D	"	"	"	"	X

Sample Identification	Client Project #	Matrix	Collection Date/Time	Received
INF AR002/AR092 SC44897-01	090113	Soil Gas	19-Mar-18 10:45	20-Mar-18

CAS No.	*Analyte(s)*	*Result/Units*	**RDL*	*Result mg/m³*	**RDL*	*Flag*	*Method Ref.*	*Analyzed*	*Analyst*	*Batch*	*Cert.*
Air Quality Analyses											
Volatile Organics in Air		ppmv	Prepared 24-Mar-18 Dilution: 5			GS1, I02, TB					
75-69-4	trichlorofluoromethane (freon 11)	< 0.00160	0.00250	< 0.00900	0.0140	U, D	EPA TO-15	24-Mar-18	SAD	1804015	X
75-35-4	1,1-dichloroethene	< 0.00199	0.00250	< 0.00800	0.0100	U, D	"	"	"	"	X
75-09-2	methylene chloride	< 0.00204	0.00250	< 0.00700	0.00900	U, D	"	"	"	"	X
156-60-5	trans-1,2-dichloroethene	**0.00166**	0.00250	**0.00700**	0.0100	I, D	"	"	"	"	X
75-34-3	1,1-dichloroethane	< 0.00178	0.00250	< 0.00700	0.0100	U, D	"	"	"	"	X
1634-04-4	methyl tert-butyl ether	< 0.00156	0.00250	< 0.00600	0.00900	U, D	"	"	"	"	X
156-59-2	cis-1,2-dichloroethene	**0.0938**	0.00250	**0.372**	0.0100	D	"	"	"	"	X
67-66-3	chloroform	< 0.00202	0.00250	< 0.0100	0.0120	U, D	"	"	"	"	X
107-06-2	1,2-dichloroethane	< 0.00208	0.00250	< 0.00800	0.0100	U, D	"	"	"	"	X
71-55-6	1,1,1-trichloroethane	< 0.00124	0.00250	< 0.00700	0.0140	U, D	"	"	"	"	X
71-43-2	benzene	< 0.00199	0.00250	< 0.00600	0.00800	U, D	"	"	"	"	X
56-23-5	carbon tetrachloride	< 0.00174	0.00250	< 0.0110	0.0160	U, D	"	"	"	"	X
78-87-5	1,2-dichloropropane	< 0.00245	0.00250	< 0.0110	0.0120	U, D	"	"	"	"	X
75-27-4	bromodichloromethane	< 0.00133	0.00250	< 0.00900	0.0170	U, D	"	"	"	"	X
79-01-6	trichloroethene	**0.0246**	0.00250	**0.132**	0.0130	D	"	"	"	"	X
10061-01-5	cis-1,3-dichloropropene	< 0.00188	0.00250	< 0.00900	0.0110	U, D	"	"	"	"	X
10061-02-6	trans-1,3-dichloropropene	< 0.00162	0.00250	< 0.00700	0.0110	U, D	"	"	"	"	X
79-00-5	1,1,2-trichloroethane	< 0.00176	0.00250	< 0.0100	0.0140	U, D	"	"	"	"	X
108-88-3	toluene	**0.00400**	0.00250	**0.0150**	0.00900	B, D	"	"	"	"	X
124-48-1	dibromochloromethane	< 0.00166	0.00250	< 0.0140	0.0210	U, D	"	"	"	"	X
106-93-4	1,2-dibromoethane (edb)	< 0.00204	0.00250	< 0.0160	0.0190	U, D	"	"	"	"	X
127-18-4	tetrachloroethene	**0.0972**	0.00250	**0.659**	0.0170	D, B	"	"	"	"	X
108-90-7	chlorobenzene	< 0.00215	0.00250	< 0.0100	0.0120	U, D	"	"	"	"	X
100-41-4	ethylbenzene	< 0.00176	0.00250	< 0.00800	0.0110	U, D	"	"	"	"	X
179601-23-1	m,p-xylene	< 0.00347	0.00500	< 0.0150	0.0220	U, D	"	"	"	"	X
75-25-2	bromoform	< 0.00144	0.00250	< 0.0150	0.0260	U, D	"	"	"	"	X
95-47-6	o-xylene	< 0.00200	0.00250	< 0.00900	0.0110	U, D	"	"	"	"	X
79-34-5	1,1,2,2-tetrachloroethane	< 0.00194	0.00250	< 0.0130	0.0170	U, D	"	"	"	"	X
541-73-1	1,3-dichlorobenzene	< 0.00146	0.00250	< 0.00900	0.0150	U, D	"	"	"	"	X
106-46-7	1,4-dichlorobenzene	< 0.00168	0.00250	< 0.0100	0.0150	U, D	"	"	"	"	X
95-50-1	1,2-dichlorobenzene	< 0.00138	0.00250	< 0.00800	0.0150	U, D	"	"	"	"	X
Surrogate recoveries:											
460-00-4	*4-bromofluorobenzene*	*102*		*70-130 %*			"	"	"	"	

Analyte(s)	Result	Flag	Units	*RDL	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
EPA TO-15										
Batch 1804014 - General Air Prep										
Blank (1804014-BLK1)					Prepared: 23-Mar-18 Analyzed: 24-Mar-18					
dichlorodifluoromethane (freon12)	< 0.000457	U	ppmv	0.000457						
chloromethane	< 0.000302	U	ppmv	0.000302						
vinyl chloride	< 0.000385	U	ppmv	0.000385						
bromomethane	< 0.000206	U	ppmv	0.000206						
chloroethane	< 0.000236	U	ppmv	0.000236						
trichlorofluoromethane (freon 11)	< 0.000320	U	ppmv	0.000320						
1,1-dichloroethene	< 0.000398	U	ppmv	0.000398						
methylene chloride	< 0.000408	U	ppmv	0.000408						
trans-1,2-dichloroethene	< 0.000326	U	ppmv	0.000326						
1,1-dichloroethane	< 0.000357	U	ppmv	0.000357						
methyl tert-butyl ether	< 0.000311	U	ppmv	0.000311						
cis-1,2-dichloroethene	< 0.000379	U	ppmv	0.000379						
chloroform	< 0.000404	U	ppmv	0.000404						
1,2-dichloroethane	< 0.000416	U	ppmv	0.000416						
1,1,1-trichloroethane	< 0.000249	U	ppmv	0.000249						
benzene	< 0.000398	U	ppmv	0.000398						
carbon tetrachloride	< 0.000348	U	ppmv	0.000348						
1,2-dichloropropane	< 0.000490	U	ppmv	0.000490						
bromodichloromethane	< 0.000266	U	ppmv	0.000266						
trichloroethene	< 0.000408	U	ppmv	0.000408						
cis-1,3-dichloropropene	< 0.000375	U	ppmv	0.000375						
trans-1,3-dichloropropene	< 0.000324	U	ppmv	0.000324						
1,1,2-trichloroethane	< 0.000352	U	ppmv	0.000352						
toluene	< 0.000353	U	ppmv	0.000353						
dibromochloromethane	< 0.000332	U	ppmv	0.000332						
1,2-dibromoethane (edb)	< 0.000409	U	ppmv	0.000409						
tetrachloroethene	< 0.000341	U	ppmv	0.000341						
chlorobenzene	< 0.000430	U	ppmv	0.000430						
ethylbenzene	< 0.000352	U	ppmv	0.000352						
m,p-xylene	< 0.000694	U	ppmv	0.000694						
bromoform	< 0.000289	U	ppmv	0.000289						
o-xylene	< 0.000401	U	ppmv	0.000401						
1,1,2,2-tetrachloroethane	< 0.000387	U	ppmv	0.000387						
1,3-dichlorobenzene	< 0.000292	U	ppmv	0.000292						
1,4-dichlorobenzene	< 0.000337	U	ppmv	0.000337						
1,2-dichlorobenzene	< 0.000276	U	ppmv	0.000276						
Surrogate: 4-bromofluorobenzene	*9.13*		ppbv		*10.0*		*91*	*70-130*		
Blank (1804014-BLK2)					Prepared: 23-Mar-18 Analyzed: 24-Mar-18					
dichlorodifluoromethane (freon12)	< 0.000457	U	ppmv	0.000457						
chloromethane	< 0.000302	U	ppmv	0.000302						
vinyl chloride	< 0.000385	U	ppmv	0.000385						
bromomethane	< 0.000206	U	ppmv	0.000206						
chloroethane	< 0.000236	U	ppmv	0.000236						
trichlorofluoromethane (freon 11)	< 0.000320	U	ppmv	0.000320						
1,1-dichloroethene	< 0.000398	U	ppmv	0.000398						
methylene chloride	**0.00452**		ppmv	0.000408						
trans-1,2-dichloroethene	< 0.000326	U	ppmv	0.000326						
1,1-dichloroethane	< 0.000357	U	ppmv	0.000357						
methyl tert-butyl ether	< 0.000311	U	ppmv	0.000311						
cis-1,2-dichloroethene	< 0.000379	U	ppmv	0.000379						

Analyte(s)	Result	Flag	Units	*RDL	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
EPA TO-15										
Batch 1804014 - General Air Prep										
Blank (1804014-BLK2)							Prepared: 23-Mar-18 Analyzed: 24-Mar-18			
chloroform	**0.00234**		ppmv	0.000404						
1,2-dichloroethane	**0.00551**		ppmv	0.000416						
1,1,1-trichloroethane	< 0.000249	U	ppmv	0.000249						
benzene	< 0.000398	U	ppmv	0.000398						
carbon tetrachloride	< 0.000348	U	ppmv	0.000348						
1,2-dichloropropane	< 0.000490	U	ppmv	0.000490						
bromodichloromethane	< 0.000266	U	ppmv	0.000266						
trichloroethene	< 0.000408	U	ppmv	0.000408						
cis-1,3-dichloropropene	< 0.000375	U	ppmv	0.000375						
trans-1,3-dichloropropene	< 0.000324	U	ppmv	0.000324						
1,1,2-trichloroethane	**0.0152**		ppmv	0.000352						
toluene	**0.000844**		ppmv	0.000353						
dibromochloromethane	< 0.000332	U	ppmv	0.000332						
1,2-dibromoethane (edb)	< 0.000409	U	ppmv	0.000409						
tetrachloroethene	**0.000992**		ppmv	0.000341						
chlorobenzene	< 0.000430	U	ppmv	0.000430						
ethylbenzene	< 0.000352	U	ppmv	0.000352						
m,p-xylene	< 0.000694	U	ppmv	0.000694						
bromoform	< 0.000289	U	ppmv	0.000289						
o-xylene	< 0.000401	U	ppmv	0.000401						
1,1,2,2-tetrachloroethane	< 0.000387	U	ppmv	0.000387						
1,3-dichlorobenzene	< 0.000292	U	ppmv	0.000292						
1,4-dichlorobenzene	< 0.000337	U	ppmv	0.000337						
1,2-dichlorobenzene	< 0.000276	U	ppmv	0.000276						
Surrogate: 4-bromofluorobenzene	*10.3*		ppbv		*10.0*		*103*	*70-130*		
LCS (1804014-BS1)							Prepared: 23-Mar-18 Analyzed: 24-Mar-18			
dichlorodifluoromethane (freon12)	**8.58**		ppbv		10.0		86	70-130		
chloromethane	**8.19**		ppbv		10.0		82	70-130		
vinyl chloride	**8.51**		ppbv		10.0		85	70-130		
bromomethane	**8.04**		ppbv		10.0		80	70-130		
chloroethane	**8.11**		ppbv		10.0		81	70-130		
trichlorofluoromethane (freon 11)	**8.07**		ppbv		10.0		81	70-130		
1,1-dichloroethene	**8.80**		ppbv		10.0		88	70-130		
methylene chloride	**8.48**	B	ppbv		10.0		85	70-130		
trans-1,2-dichloroethene	**9.10**		ppbv		10.0		91	70-130		
1,1-dichloroethane	**8.66**		ppbv		10.0		87	70-130		
methyl tert-butyl ether	**9.21**		ppbv		10.0		92	70-130		
cis-1,2-dichloroethene	**8.90**		ppbv		10.0		89	70-130		
chloroform	**8.46**	B	ppbv		10.0		85	70-130		
1,2-dichloroethane	**8.50**	B	ppbv		10.0		85	70-130		
1,1,1-trichloroethane	**8.57**		ppbv		10.0		86	70-130		
benzene	**8.72**		ppbv		10.0		87	70-130		
carbon tetrachloride	**8.88**		ppbv		10.0		89	70-130		
1,2-dichloropropane	**8.51**		ppbv		10.0		85	70-130		
bromodichloromethane	**8.04**		ppbv		10.0		80	70-130		
trichloroethene	**8.36**		ppbv		10.0		84	70-130		
cis-1,3-dichloropropene	**9.00**		ppbv		10.0		90	70-130		
trans-1,3-dichloropropene	**9.23**		ppbv		10.0		92	70-130		
1,1,2-trichloroethane	**8.62**	B	ppbv		10.0		86	70-130		
toluene	**9.01**	B	ppbv		10.0		90	70-130		

Analyte(s)	Result	Flag	Units	*RDL	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
EPA TO-15										
Batch 1804014 - General Air Prep										
LCS (1804014-BS1)						Prepared: 23-Mar-18 Analyzed: 24-Mar-18				
dibromochloromethane	**9.59**		ppbv		10.0		96	70-130		
1,2-dibromoethane (edb)	**8.94**		ppbv		10.0		89	70-130		
tetrachloroethene	**9.28**	B	ppbv		10.0		93	70-130		
chlorobenzene	**8.98**		ppbv		10.0		90	70-130		
ethylbenzene	**9.43**		ppbv		10.0		94	70-130		
m,p-xylene	**18.7**		ppbv		20.0		93	70-130		
bromoform	**10.7**		ppbv		10.0		107	70-130		
o-xylene	**9.40**		ppbv		10.0		94	70-130		
1,1,2,2-tetrachloroethane	**9.40**		ppbv		10.0		94	70-130		
1,3-dichlorobenzene	**11.1**		ppbv		10.0		111	70-130		
1,4-dichlorobenzene	**11.5**		ppbv		10.0		115	70-130		
1,2-dichlorobenzene	**12.2**		ppbv		10.0		122	70-130		
Surrogate: 4-bromofluorobenzene	*9.97*		ppbv		*10.0*		*100*	*70-130*		
Batch 1804015 - General Air Prep										
Blank (1804015-BLK1)						Prepared & Analyzed: 24-Mar-18				
dichlorodifluoromethane (freon12)	< 0.000457	U	ppmv	0.000457						
chloromethane	< 0.000302	U	ppmv	0.000302						
vinyl chloride	< 0.000385	U	ppmv	0.000385						
bromomethane	< 0.000206	U	ppmv	0.000206						
chloroethane	< 0.000236	U	ppmv	0.000236						
trichlorofluoromethane (freon 11)	< 0.000320	U	ppmv	0.000320						
1,1-dichloroethene	< 0.000398	U	ppmv	0.000398						
methylene chloride	< 0.000408	U	ppmv	0.000408						
trans-1,2-dichloroethene	< 0.000326	U	ppmv	0.000326						
1,1-dichloroethane	< 0.000357	U	ppmv	0.000357						
methyl tert-butyl ether	< 0.000311	U	ppmv	0.000311						
cis-1,2-dichloroethene	< 0.000379	U	ppmv	0.000379						
chloroform	< 0.000404	U	ppmv	0.000404						
1,2-dichloroethane	< 0.000416	U	ppmv	0.000416						
1,1,1-trichloroethane	< 0.000249	U	ppmv	0.000249						
benzene	< 0.000398	U	ppmv	0.000398						
carbon tetrachloride	< 0.000348	U	ppmv	0.000348						
1,2-dichloropropane	< 0.000490	U	ppmv	0.000490						
bromodichloromethane	< 0.000266	U	ppmv	0.000266						
trichloroethene	< 0.000408	U	ppmv	0.000408						
cis-1,3-dichloropropene	< 0.000375	U	ppmv	0.000375						
trans-1,3-dichloropropene	< 0.000324	U	ppmv	0.000324						
1,1,2-trichloroethane	< 0.000352	U	ppmv	0.000352						
toluene	< 0.000353	U	ppmv	0.000353						
dibromochloromethane	< 0.000332	U	ppmv	0.000332						
1,2-dibromoethane (edb)	< 0.000409	U	ppmv	0.000409						
tetrachloroethene	< 0.000341	U	ppmv	0.000341						
chlorobenzene	< 0.000430	U	ppmv	0.000430						
ethylbenzene	< 0.000352	U	ppmv	0.000352						
m,p-xylene	< 0.000694	U	ppmv	0.000694						
bromoform	< 0.000289	U	ppmv	0.000289						
o-xylene	< 0.000401	U	ppmv	0.000401						
1,1,2,2-tetrachloroethane	< 0.000387	U	ppmv	0.000387						
1,3-dichlorobenzene	< 0.000292	U	ppmv	0.000292						
1,4-dichlorobenzene	< 0.000337	U	ppmv	0.000337						

Analyte(s)	Result	Flag	Units	*RDL	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
EPA TO-15										
Batch 1804015 - General Air Prep										
Blank (1804015-BLK1)						Prepared & Analyzed: 24-Mar-18				
1,2-dichlorobenzene	< 0.000276	U	ppmv	0.000276						
Surrogate: 4-bromofluorobenzene	*9.55*		ppbv		*10.0*		*96*	*70-130*		
Blank (1804015-BLK2)						Prepared & Analyzed: 24-Mar-18				
dichlorodifluoromethane (freon12)	< 0.000457	U	ppmv	0.000457						
chloromethane	< 0.000302	U	ppmv	0.000302						
vinyl chloride	< 0.000385	U	ppmv	0.000385						
bromomethane	< 0.000206	U	ppmv	0.000206						
chloroethane	< 0.000236	U	ppmv	0.000236						
trichlorofluoromethane (freon 11)	< 0.000320	U	ppmv	0.000320						
1,1-dichloroethene	< 0.000398	U	ppmv	0.000398						
methylene chloride	**0.00486**		ppmv	0.000408						
trans-1,2-dichloroethene	< 0.000326	U	ppmv	0.000326						
1,1-dichloroethane	< 0.000357	U	ppmv	0.000357						
methyl tert-butyl ether	< 0.000311	U	ppmv	0.000311						
cis-1,2-dichloroethene	< 0.000379	U	ppmv	0.000379						
chloroform	**0.00253**		ppmv	0.000404						
1,2-dichloroethane	**0.00646**		ppmv	0.000416						
1,1,1-trichloroethane	< 0.000249	U	ppmv	0.000249						
benzene	< 0.000398	U	ppmv	0.000398						
carbon tetrachloride	< 0.000348	U	ppmv	0.000348						
1,2-dichloropropane	< 0.000490	U	ppmv	0.000490						
bromodichloromethane	< 0.000266	U	ppmv	0.000266						
trichloroethene	< 0.000408	U	ppmv	0.000408						
cis-1,3-dichloropropene	< 0.000375	U	ppmv	0.000375						
trans-1,3-dichloropropene	< 0.000324	U	ppmv	0.000324						
1,1,2-trichloroethane	**0.0161**		ppmv	0.000352						
toluene	**0.000930**		ppmv	0.000353						
dibromochloromethane	< 0.000332	U	ppmv	0.000332						
1,2-dibromoethane (edb)	< 0.000409	U	ppmv	0.000409						
tetrachloroethene	**0.00108**		ppmv	0.000341						
chlorobenzene	< 0.000430	U	ppmv	0.000430						
ethylbenzene	< 0.000352	U	ppmv	0.000352						
m,p-xylene	< 0.000694	U	ppmv	0.000694						
bromoform	< 0.000289	U	ppmv	0.000289						
o-xylene	< 0.000401	U	ppmv	0.000401						
1,1,2,2-tetrachloroethane	< 0.000387	U	ppmv	0.000387						
1,3-dichlorobenzene	< 0.000292	U	ppmv	0.000292						
1,4-dichlorobenzene	< 0.000337	U	ppmv	0.000337						
1,2-dichlorobenzene	< 0.000276	U	ppmv	0.000276						
Surrogate: 4-bromofluorobenzene	*9.88*		ppbv		*10.0*		*99*	*70-130*		
LCS (1804015-BS1)						Prepared & Analyzed: 24-Mar-18				
dichlorodifluoromethane (freon12)	**8.80**		ppbv		10.0		88	70-130		
chloromethane	**8.64**		ppbv		10.0		86	70-130		
vinyl chloride	**8.91**		ppbv		10.0		89	70-130		
bromomethane	**8.38**		ppbv		10.0		84	70-130		
chloroethane	**8.45**		ppbv		10.0		85	70-130		
trichlorofluoromethane (freon 11)	**8.25**		ppbv		10.0		82	70-130		
1,1-dichloroethene	**8.91**		ppbv		10.0		89	70-130		
methylene chloride	**8.56**	B	ppbv		10.0		86	70-130		
trans-1,2-dichloroethene	**9.18**		ppbv		10.0		92	70-130		

Analyte(s)	Result	Flag	Units	*RDL	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
EPA TO-15										
Batch 1804015 - General Air Prep										
LCS (1804015-BS1)					Prepared & Analyzed: 24-Mar-18					
1,1-dichloroethane	**8.96**		ppbv		10.0		90	70-130		
methyl tert-butyl ether	**9.83**		ppbv		10.0		98	70-130		
cis-1,2-dichloroethene	**9.33**		ppbv		10.0		93	70-130		
chloroform	**8.85**	B	ppbv		10.0		88	70-130		
1,2-dichloroethane	**8.99**	B	ppbv		10.0		90	70-130		
1,1,1-trichloroethane	**9.05**		ppbv		10.0		90	70-130		
benzene	**9.01**		ppbv		10.0		90	70-130		
carbon tetrachloride	**9.37**		ppbv		10.0		94	70-130		
1,2-dichloropropane	**8.95**		ppbv		10.0		89	70-130		
bromodichloromethane	**9.13**		ppbv		10.0		91	70-130		
trichloroethene	**8.95**		ppbv		10.0		89	70-130		
cis-1,3-dichloropropene	**9.76**		ppbv		10.0		98	70-130		
trans-1,3-dichloropropene	**9.91**		ppbv		10.0		99	70-130		
1,1,2-trichloroethane	**8.88**	B	ppbv		10.0		89	70-130		
toluene	**9.35**	B	ppbv		10.0		94	70-130		
dibromochloromethane	**9.82**		ppbv		10.0		98	70-130		
1,2-dibromoethane (edb)	**9.43**		ppbv		10.0		94	70-130		
tetrachloroethene	**9.75**	B	ppbv		10.0		98	70-130		
chlorobenzene	**8.78**		ppbv		10.0		88	70-130		
ethylbenzene	**9.32**		ppbv		10.0		93	70-130		
m,p-xylene	**18.6**		ppbv		20.0		93	70-130		
bromoform	**10.6**		ppbv		10.0		106	70-130		
o-xylene	**9.24**		ppbv		10.0		92	70-130		
1,1,2,2-tetrachloroethane	**9.44**		ppbv		10.0		94	70-130		
1,3-dichlorobenzene	**11.2**		ppbv		10.0		112	70-130		
1,4-dichlorobenzene	**11.4**		ppbv		10.0		114	70-130		
1,2-dichlorobenzene	**12.2**		ppbv		10.0		122	70-130		
Surrogate: 4-bromofluorobenzene	*9.83*		ppbv		*10.0*		*98*	*70-130*		

Notes and Definitions

B	Analyte is found in the associated blank as well as in the sample (CLP B-flag).
D	Data reported from a dilution
GS1	Sample dilution required for high concentration of target analytes to be within the instrument calibration range.
HT1	Sample submitted with insufficient time to prepare or analyze within the method recommended holding time.
I02	This result was analyzed outside of the EPA recommended holding time.
I	Detected above the Method Detection Limit but below the Reporting Limit; therefore, result is an estimated concentration (CLP J-Flag).
TB	Sample was collected in a Tedlar bag; recommended hold time is 48 hours for all except FL, which allows a 72-hour hold time. This media is not appropriate for ppbv level analysis.
U	Analyte included in the analysis, but not detected at or above the MDL.
dry	Sample results reported on a dry weight basis
NR	Not Reported
RPD	Relative Percent Difference

Laboratory Control Sample (LCS): A known matrix spiked with compound(s) representative of the target analytes, which is used to document laboratory performance.

Matrix Duplicate: An intra-laboratory split sample which is used to document the precision of a method in a given sample matrix.

Matrix Spike: An aliquot of a sample spiked with a known concentration of target analyte(s). The spiking occurs prior to sample preparation and analysis. A matrix spike is used to document the bias of a method in a given sample matrix.

Method Blank: An analyte-free matrix to which all reagents are added in the same volumes or proportions as used in sample processing. The method blank should be carried through the complete sample preparation and analytical procedure. The method blank is used to document contamination resulting from the analytical process.

Method Detection Limit (MDL): The minimum concentration of a substance that can be measured and reported with 99% confidence that the analyte concentration is greater than zero and is determined from analysis of a sample in a given matrix type containing the analyte.

Reportable Detection Limit (RDL): The lowest concentration that can be reliably achieved within specified limits of precision and accuracy during routine laboratory operating conditions. For many analytes the RDL analyte concentration is selected as the lowest non-zero standard in the calibration curve. While the RDL is approximately 5 to 10 times the MDL, the RDL for each sample takes into account the sample volume/weight, extract/digestate volume, cleanup procedures and, if applicable, dry weight correction. Sample RDLs are highly matrix-dependent.

Surrogate: An organic compound which is similar to the target analyte(s) in chemical composition and behavior in the analytical process, but which is not normally found in environmental samples. These compounds are spiked into all blanks, standards, and samples prior to analysis. Percent recoveries are calculated for each surrogate.

Continuing Calibration Verification: The calibration relationship established during the initial calibration must be verified at periodic intervals. Concentrations, intervals, and criteria are method specific.

SC44897

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CHAIN OF CUSTODY RECORD

Page 1 of 1

Special Handling:

- [x] Standard TAT - 7 to 10 business days
- [ ] Rush TAT - Date Needed: _____

All TATs subject to laboratory approval
Min. 24-hr notification needed for rushes
Samples disposed after 30 days unless otherwise instructed.

Report To: Drew Seteg
Telephone #:
Project Mgr: Drew Seteg

Invoice To: GHD
5904 Hampton Oaks PKWY Suite F
Tampa FL
P.O No.: _____ Quote #: _____

Project No: 090113
Site Name: McNatts Ehrlich
Location: 5297 Ehrlich Rd Tampa State: FL
Sampler(s): Joe Ortanez

F=Field Filtered 1=Na_2S2O_3 2=HCl 3=H_2SO_4 4=HNO_3 5=NaOH 6=Ascorbic Acid
7=CH3OH 8=$NaHSO_4$ 9=Deionized Water 10=H_3PO_4 11=_____ 12=_____

List Preservative Code below:

QA/QC Reporting Notes:
* additional charges may appply

DW=Drinking Water GW=Groundwater SW=Surface Water WW=Waste Water
O=Oil SO=Soil SL=Sludge A=Indoor/Ambient Air SG=Soil Gas
X1=_____ X2=_____ X3=_____

G= Grab C=Compsite

Lab ID:	Sample ID:	Date:	Time:	Type	Matrix	Containers: # of VOA Vials	# of Amber Glass	# of Clear Glass	# of Plastic	Analysis: TEDLAR	TO-15	Check if chlorinated	QA/QC Reporting Notes
448977-01	INF AR002/AR092	3-19-18	10:45	G	SG					1	1	☐	Well No.: MCNATTS
												☐	CLEANERS - FORMER
												☐	EHRLICH RD CLEANERS
												☐	Well # ERIC - 4752
												☐	
												☐	EDD: Dry Clean
												☐	
												☐	
												☐	
												☐	

MA DEP MCP CAM Report? ☐ Yes ☐ No
CT DPH RCP Report? ☐ Yes ☐ No
☐ Standard ☐ No QC ☐ DQA*
☐ ASP A* ☐ ASP B*
☐ NJ Reduced* ☐ NJ Full*
☐ Tier II* ☐ Tier IV*
☐ Other: _____
State-specific reporting standards:

Relinquished by:	Received by:	Date:	Time:	Temp °C
		3-19-18	11:30	Observed 20.4
Fedex		3/20/18	1110	Correction Factor 0
				Corrected 20.4
				IR ID # 2

☒ EDD format: Dry clean
☐ E-mail to: _____

Condition upon receipt: Custody Seals: ☐ Present ☐ Intact ☐ Broken
☑ Ambient ☐ Iced ☐ Refrigerated ☐ DI VOA Frozen ☐ Soil Jar Frozen


Express
RT 745 1 E
ST 8 10:30 8355
03:20
Align top of FedEx Express® shipping label here.
ORIGIN ID:MCFA (813) 971-3882
DREW SELEGO
GHD
5904 HAMPTON OAKS PKWY
SUITE F
TAMPA, FL 33610
UNITED STATES US
SHIP DATE: 19M
ACTWGT: 1.00 LB
CAD: 2091413/INET
BILL SENDER
TO EURO FINS
11 ALMGREN DR
AGAWAM MA 01001
(413) 489-9018
REF: 090113
INV:
PO:
DEPT:
FedEx Express
TUE - 20 MAR 10:30A
PRIORITY OVERNIGHT
TRK# 0201 7717 7487 8355
NL EHTA
01001
MA-US BDL
OX

Batch Summary

1804014

Air Quality Analyses

1804014-BLK1
1804014-BLK2
1804014-BS1
SC44897-01 (INF AR002/AR092)

1804015

Air Quality Analyses

1804015-BLK1
1804015-BLK2
1804015-BS1
SC44897-01RE1 (INF AR002/AR092)

S817949

Air Quality Analyses

S817949-CAL1
S817949-CAL2
S817949-CAL3
S817949-CAL4
S817949-CAL5
S817949-CAL6
S817949-CAL7
S817949-CAL8
S817949-ICV1
S817949-LCV1
S817949-LCV2
S817949-LCV3
S817949-TUN1

S817950

Air Quality Analyses

S817950-CCV1
S817950-TUN1

S817951

Air Quality Analyses

S817951-CCV1
S817951-TUN1

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☑ Final Report
☐ Revised Report

Report Date:
29-Jun-18 17:10

Laboratory Report
SC48101

GHD Services, Inc.
5904 Hampton Oaks Parkway, Suite F
Tampa, FL 33610
Attn: Drew Selego

Project: GHD- McNatts Cleaners Enrlich
Project #: 090113

I attest that the information contained within the report has been reviewed for accuracy and checked against the quality control requirements for each method. These results relate only to the sample(s) as received.
All applicable NELAC requirements have been met.

Massachusetts # M-MA138/MA1110
Connecticut # PH-0777
Florida # E87936
Maine # MA138
New Hampshire # 2972/2538
New Jersey # MA011
New York # 11393
Pennsylvania # 68-04426/68-02924
Rhode Island # LAO00348
USDA # P330-15-00375
Vermont # VT-11393

Eurofins Spectrum Analytical holds primary NELAC certification in the State of New York for the analytes as indicated with an X in the "Cert." column within this report. Please note that the State of New York does not offer certification for all analytes. Please refer to our website for specific certification holdings in each state.
Please note that this report contains 10 pages of analytical data plus Chain of Custody document(s). When the Laboratory Report is indicated as revised, this report supersedes any previously dated reports for the laboratory ID(s) referenced above. Where this report identifies subcontracted analyses, copies of the subcontractor's test report are available upon request. This report may not be reproduced, except in full, without written approval from Eurofins Spectrum Analytical, Inc.

Eurofins Spectrum Analytical, Inc. is a NELAC accredited laboratory organization and meets NELAC testing standards. Use of the NELAC logo however does not insure that Eurofins Spectrum Analytical, Inc. is currently accredited for the specific method or analyte indicated. Please refer to our 'Quality' web page at www.spectrum-analytical.com for a full listing of our current certifications and fields of accreditation. States in which Eurofins Spectrum Analytical, Inc. holds NELAC certification are New York, New Hampshire, New Jersey, Pennsylvania and Florida. All analytical work for Volatile Organic and Air analysis are transferred to and conducted at our 830 Silver Street location (PA-68-04426).

Please contact the Laboratory or Technical Director at 800-789-9115 with any questions regarding the data contained in this laboratory report.

Sample Summary

Work Order: SC48101

Project: GHD- McNatts Cleaners Enrlich

Project Number: 090113

Laboratory ID	Client Sample ID	Container	Matrix	Date Sampled	Date Received
SC48101-01	AR002/AR093	Tedlar Bag	Soil Gas	26-Jun-18 15:45	27-Jun-18 10:15

CASE NARRATIVE:

Data has been reported to the MDL. This report includes estimated concentrations detected below the RDL and above the MDL (J-Flag).

All non-detects and all results below the detection limit are reported as "<" (less than) the detection limit in this report.

Samples are received and the pressure is recorded from the gauge on the canister. If a canister does not have a gauge, a vacuum gauge is attached to the valve and pressure is recorded. If the canister is below -10 psig, the can must be pressurized to 0 psig. Tedlar bags do not have the pressure recorded. The can pressure can be located within this report in the sample header information.

If a Duplicate (DUP) was not requested on the Chain of Custody, method criteria may have been fulfilled with a source sample not of this Sample Delivery Group. If method or program required MS/MSD/Dup were not performed, sufficient sample was not provided to the laboratory.

See below for any non-conformances and issues relating to quality control samples and/or sample analysis/matrix.

EPA TO-15

Laboratory Control Samples:

1808993-BS1

Analyte is found in the associated blank as well as in the sample (CLP B-flag).

1,1,2-Trichloroethane
Methylene chloride

Samples:

S820472-CCV1

Analyte percent difference is outside individual acceptance criteria (30), but within overall method allowances.

Dichlorodifluoromethane (Freon12) (-33.3%)

This affected the following samples:

1808993-BLK1
1808993-BLK2
1808993-BS1
AR002/AR093

SC48101-01 *AR002/AR093*

Sample dilution required for high concentration of target analytes to be within the instrument calibration range.

Sample was collected in a Tedlar bag; recommended hold time is 48 hours for all except FL, which allows a 72-hour hold time. This media is not appropriate for ppbv level analysis.

Sample Acceptance Check Form

Client:	GHD Services, Inc. - Tampa, FL
Project:	GHD- McNatts Cleaners Enrlich / 090113
Work Order:	SC48101
Sample(s) received on:	6/27/2018

The following outlines the condition of samples for the attached Chain of Custody upon receipt.

	Yes	No	N/A
Were custody seals present?	☐	☑	☐
Were custody seals intact?	☐	☐	☑
Were samples received at a temperature of ≤ 6°C?	☐	☐	☑
Were samples cooled on ice upon transfer to laboratory representative?	☐	☐	☑
Were samples refrigerated upon transfer to laboratory representative?	☐	☐	☑
Were sample containers received intact?	☑	☐	☐
Were samples properly labeled (labels affixed to sample containers and include sample ID, site location, and/or project number and the collection date)?	☑	☐	☐
Were samples accompanied by a Chain of Custody document?	☑	☐	☐
Does Chain of Custody document include proper, full, and complete documentation, which shall include sample ID, site location, and/or project number, date and time of collection, collector's name, preservation type, sample matrix and any special remarks concerning the sample?	☑	☐	☐
Did sample container labels agree with Chain of Custody document?	☑	☐	☐
Were samples received within method-specific holding times?	☑	☐	☐

Summary of Hits

Lab ID: SC48101-01 **Client ID:** AR002/AR093

Parameter	Result	Flag	Reporting Limit	Units	Analytical Method
cis-1,2-Dichloroethene	0.268	D	0.0100	ppmv	EPA TO-15
Ethylbenzene	0.0568	D	0.0100	ppmv	EPA TO-15
m,p-Xylene	0.165	D	0.0200	ppmv	EPA TO-15
o-Xylene	0.0602	D	0.0100	ppmv	EPA TO-15
Tetrachloroethene	0.264	D	0.0100	ppmv	EPA TO-15
Toluene	0.0635	D	0.0100	ppmv	EPA TO-15
Trichloroethene	0.0629	D	0.0100	ppmv	EPA TO-15

Please note that because there are no reporting limits associated with hazardous waste characterizations or micro analyses, this summary does not include hits from these analyses if included in this work order.

Sample Identification	Client Project #	Matrix	Collection Date/Time	Received
AR002/AR093 SC48101-01	090113	Soil Gas	26-Jun-18 15:45	27-Jun-18

Air Quality Analyses

Volatile Organics in Air — ppmv — Prepared 28-Jun-18 — Dilution: 20 — GS1, TB

CAS No.	Analyte(s)	Result/Units	*RDL	Result mg/m³	*RDL	Flag	Method Ref.	Analyzed	Analyst	Batch	Cert.
75-71-8	dichlorodifluoromethane (freon12)	< 0.00914	0.0100	< 0.0450	0.0490	U, D	EPA TO-15	29-Jun-18	SAD	1808993	X
74-87-3	chloromethane	< 0.00604	0.0100	< 0.0120	0.0210	U, D	"	"	"	"	X
75-01-4	vinyl chloride	< 0.00770	0.0100	< 0.0200	0.0260	U, D	"	"	"	"	X
74-83-9	bromomethane	< 0.00412	0.0100	< 0.0160	0.0390	U, D	"	"	"	"	X
75-00-3	chloroethane	< 0.00472	0.0100	< 0.0120	0.0260	U, D	"	"	"	"	X
75-69-4	trichlorofluoromethane (freon 11)	< 0.00640	0.0100	< 0.0360	0.0560	U, D	"	"	"	"	X
75-35-4	1,1-dichloroethene	< 0.00796	0.0100	< 0.0320	0.0400	U, D	"	"	"	"	X
75-09-2	methylene chloride	< 0.00816	0.0100	< 0.0280	0.0350	U, D	"	"	"	"	X
156-60-5	trans-1,2-dichloroethene	< 0.00652	0.0100	< 0.0260	0.0400	U, D	"	"	"	"	X
75-34-3	1,1-dichloroethane	< 0.00714	0.0100	< 0.0290	0.0400	U, D	"	"	"	"	X
1634-04-4	methyl tert-butyl ether	< 0.00622	0.0100	< 0.0220	0.0360	U, D	"	"	"	"	X
156-59-2	cis-1,2-dichloroethene	**0.268**	0.0100	**1.06**	0.0400	D	"	"	"	"	X
67-66-3	chloroform	< 0.00808	0.0100	< 0.0390	0.0490	U, D	"	"	"	"	X
107-06-2	1,2-dichloroethane	< 0.00832	0.0100	< 0.0340	0.0400	U, D	"	"	"	"	X
71-55-6	1,1,1-trichloroethane	< 0.00498	0.0100	< 0.0270	0.0550	U, D	"	"	"	"	X
71-43-2	benzene	< 0.00796	0.0100	< 0.0250	0.0320	U, D	"	"	"	"	X
56-23-5	carbon tetrachloride	< 0.00696	0.0100	< 0.0440	0.0630	U, D	"	"	"	"	X
78-87-5	1,2-dichloropropane	< 0.00980	0.0100	< 0.0450	0.0460	U, D	"	"	"	"	X
75-27-4	bromodichloromethane	< 0.00532	0.0100	< 0.0360	0.0670	U, D	"	"	"	"	X
79-01-6	trichloroethene	**0.0629**	0.0100	**0.338**	0.0540	D	"	"	"	"	X
10061-01-5	cis-1,3-dichloropropene	< 0.00750	0.0100	< 0.0340	0.0450	U, D	"	"	"	"	X
10061-02-6	trans-1,3-dichloropropene	< 0.00648	0.0200	< 0.0290	0.0910	U, D	"	"	"	"	X
79-00-5	1,1,2-trichloroethane	< 0.00704	0.0100	< 0.0380	0.0550	U, D	"	"	"	"	X
108-88-3	toluene	**0.0635**	0.0100	**0.239**	0.0380	D	"	"	"	"	X
124-48-1	dibromochloromethane	< 0.00664	0.0100	< 0.0570	0.0850	U, D	"	"	"	"	X
106-93-4	1,2-dibromoethane (edb)	< 0.00818	0.0100	< 0.0630	0.0770	U, D	"	"	"	"	X
127-18-4	tetrachloroethene	**0.264**	0.0100	**1.79**	0.0680	D	"	"	"	"	X
108-90-7	chlorobenzene	< 0.00860	0.0100	< 0.0400	0.0460	U, D	"	"	"	"	X
100-41-4	ethylbenzene	**0.0568**	0.0100	**0.246**	0.0430	D	"	"	"	"	X
179601-23-1	m,p-xylene	**0.165**	0.0200	**0.715**	0.0870	D	"	"	"	"	X
75-25-2	bromoform	< 0.00578	0.0100	< 0.0600	0.103	U, D	"	"	"	"	X
95-47-6	o-xylene	**0.0602**	0.0100	**0.261**	0.0430	D	"	"	"	"	X
79-34-5	1,1,2,2-tetrachloroethane	< 0.00774	0.0100	< 0.0530	0.0690	U, D	"	"	"	"	X
541-73-1	1,3-dichlorobenzene	< 0.00584	0.0100	< 0.0350	0.0600	U, D	"	"	"	"	X
106-46-7	1,4-dichlorobenzene	< 0.00674	0.0100	< 0.0410	0.0600	U, D	"	"	"	"	X
95-50-1	1,2-dichlorobenzene	< 0.00552	0.0100	< 0.0330	0.0600	U, D	"	"	"	"	X

Surrogate recoveries:

460-00-4	*4-bromofluorobenzene*	*119*		*70-130 %*			"	"	"	"	

Analyte(s)	Result	Flag	Units	*RDL	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
EPA TO-15										
Batch 1808993 - General Air Prep										
Blank (1808993-BLK1)					Prepared & Analyzed: 28-Jun-18					
dichlorodifluoromethane (freon12)	< 0.000457	U	ppmv	0.000457						
chloromethane	< 0.000302	U	ppmv	0.000302						
vinyl chloride	< 0.000385	U	ppmv	0.000385						
bromomethane	< 0.000206	U	ppmv	0.000206						
chloroethane	< 0.000236	U	ppmv	0.000236						
trichlorofluoromethane (freon 11)	< 0.000320	U	ppmv	0.000320						
1,1-dichloroethene	< 0.000398	U	ppmv	0.000398						
methylene chloride	< 0.000408	U	ppmv	0.000408						
trans-1,2-dichloroethene	< 0.000326	U	ppmv	0.000326						
1,1-dichloroethane	< 0.000357	U	ppmv	0.000357						
methyl tert-butyl ether	< 0.000311	U	ppmv	0.000311						
cis-1,2-dichloroethene	< 0.000379	U	ppmv	0.000379						
chloroform	< 0.000404	U	ppmv	0.000404						
1,2-dichloroethane	< 0.000416	U	ppmv	0.000416						
1,1,1-trichloroethane	< 0.000249	U	ppmv	0.000249						
benzene	< 0.000398	U	ppmv	0.000398						
carbon tetrachloride	< 0.000348	U	ppmv	0.000348						
1,2-dichloropropane	< 0.000490	U	ppmv	0.000490						
bromodichloromethane	< 0.000266	U	ppmv	0.000266						
trichloroethene	< 0.000408	U	ppmv	0.000408						
cis-1,3-dichloropropene	< 0.000375	U	ppmv	0.000375						
trans-1,3-dichloropropene	< 0.000324	U	ppmv	0.000324						
1,1,2-trichloroethane	< 0.000352	U	ppmv	0.000352						
toluene	< 0.000353	U	ppmv	0.000353						
dibromochloromethane	< 0.000332	U	ppmv	0.000332						
1,2-dibromoethane (edb)	< 0.000409	U	ppmv	0.000409						
tetrachloroethene	< 0.000341	U	ppmv	0.000341						
chlorobenzene	< 0.000430	U	ppmv	0.000430						
ethylbenzene	< 0.000352	U	ppmv	0.000352						
m,p-xylene	< 0.000694	U	ppmv	0.000694						
bromoform	< 0.000289	U	ppmv	0.000289						
o-xylene	< 0.000401	U	ppmv	0.000401						
1,1,2,2-tetrachloroethane	< 0.000387	U	ppmv	0.000387						
1,3-dichlorobenzene	< 0.000292	U	ppmv	0.000292						
1,4-dichlorobenzene	< 0.000337	U	ppmv	0.000337						
1,2-dichlorobenzene	< 0.000276	U	ppmv	0.000276						
Surrogate: 4-bromofluorobenzene	*9.04*		ppbv		*10.0*		*90*	*70-130*		
Blank (1808993-BLK2)					Prepared: 28-Jun-18 Analyzed: 29-Jun-18					
dichlorodifluoromethane (freon12)	< 0.000457	U	ppmv	0.000457						
chloromethane	< 0.000302	U	ppmv	0.000302						
vinyl chloride	< 0.000385	U	ppmv	0.000385						
bromomethane	< 0.000206	U	ppmv	0.000206						
chloroethane	< 0.000236	U	ppmv	0.000236						
trichlorofluoromethane (freon 11)	< 0.000320	U	ppmv	0.000320						
1,1-dichloroethene	< 0.000398	U	ppmv	0.000398						
methylene chloride	**0.000820**		ppmv	0.000408						
trans-1,2-dichloroethene	< 0.000326	U	ppmv	0.000326						
1,1-dichloroethane	< 0.000357	U	ppmv	0.000357						
methyl tert-butyl ether	< 0.000311	U	ppmv	0.000311						
cis-1,2-dichloroethene	< 0.000379	U	ppmv	0.000379						

Analyte(s)	Result	Flag	Units	*RDL	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
EPA TO-15										
Batch 1808993 - General Air Prep										
Blank (1808993-BLK2)						Prepared: 28-Jun-18 Analyzed: 29-Jun-18				
chloroform	< 0.000404	U	ppmv	0.000404						
1,2-dichloroethane	< 0.000416	U	ppmv	0.000416						
1,1,1-trichloroethane	< 0.000249	U	ppmv	0.000249						
benzene	< 0.000398	U	ppmv	0.000398						
carbon tetrachloride	< 0.000348	U	ppmv	0.000348						
1,2-dichloropropane	< 0.000490	U	ppmv	0.000490						
bromodichloromethane	< 0.000266	U	ppmv	0.000266						
trichloroethene	< 0.000408	U	ppmv	0.000408						
cis-1,3-dichloropropene	< 0.000375	U	ppmv	0.000375						
trans-1,3-dichloropropene	< 0.000324	U	ppmv	0.000324						
1,1,2-trichloroethane	**0.000989**		ppmv	0.000352						
toluene	< 0.000353	U	ppmv	0.000353						
dibromochloromethane	< 0.000332	U	ppmv	0.000332						
1,2-dibromoethane (edb)	< 0.000409	U	ppmv	0.000409						
tetrachloroethene	< 0.000341	U	ppmv	0.000341						
chlorobenzene	< 0.000430	U	ppmv	0.000430						
ethylbenzene	< 0.000352	U	ppmv	0.000352						
m,p-xylene	< 0.000694	U	ppmv	0.000694						
bromoform	< 0.000289	U	ppmv	0.000289						
o-xylene	< 0.000401	U	ppmv	0.000401						
1,1,2,2-tetrachloroethane	< 0.000387	U	ppmv	0.000387						
1,3-dichlorobenzene	< 0.000292	U	ppmv	0.000292						
1,4-dichlorobenzene	< 0.000337	U	ppmv	0.000337						
1,2-dichlorobenzene	< 0.000276	U	ppmv	0.000276						
Surrogate: 4-bromofluorobenzene	*8.81*		ppbv		*10.0*		*88*	*70-130*		
LCS (1808993-BS1)						Prepared & Analyzed: 28-Jun-18				
dichlorodifluoromethane (freon12)	**8.39**		ppbv		10.0		84	70-130		
chloromethane	**7.76**		ppbv		10.0		78	70-130		
vinyl chloride	**8.34**		ppbv		10.0		83	70-130		
bromomethane	**7.72**		ppbv		10.0		77	70-130		
chloroethane	**8.25**		ppbv		10.0		83	70-130		
trichlorofluoromethane (freon 11)	**7.87**		ppbv		10.0		79	70-130		
1,1-dichloroethene	**7.99**		ppbv		10.0		80	70-130		
methylene chloride	**7.90**	B	ppbv		10.0		79	70-130		
trans-1,2-dichloroethene	**8.48**		ppbv		10.0		85	70-130		
1,1-dichloroethane	**8.01**		ppbv		10.0		80	70-130		
methyl tert-butyl ether	**8.42**		ppbv		10.0		84	70-130		
cis-1,2-dichloroethene	**7.72**		ppbv		10.0		77	70-130		
chloroform	**7.90**		ppbv		10.0		79	70-130		
1,2-dichloroethane	**7.86**		ppbv		10.0		79	70-130		
1,1,1-trichloroethane	**7.78**		ppbv		10.0		78	70-130		
benzene	**8.02**		ppbv		10.0		80	70-130		
carbon tetrachloride	**7.68**		ppbv		10.0		77	70-130		
1,2-dichloropropane	**7.30**		ppbv		10.0		73	70-130		
bromodichloromethane	**7.02**		ppbv		10.0		70	70-130		
trichloroethene	**7.17**		ppbv		10.0		72	70-130		
cis-1,3-dichloropropene	**7.73**		ppbv		10.0		77	70-130		
trans-1,3-dichloropropene	**7.74**		ppbv		10.0		77	70-130		
1,1,2-trichloroethane	**7.74**	B	ppbv		10.0		77	70-130		
toluene	**7.59**		ppbv		10.0		76	70-130		

Analyte(s)	Result	Flag	Units	*RDL	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
EPA TO-15										
Batch 1808993 - General Air Prep										
LCS (1808993-BS1)					Prepared & Analyzed: 28-Jun-18					
dibromochloromethane	**7.23**		ppbv		10.0		72	70-130		
1,2-dibromoethane (edb)	**7.94**		ppbv		10.0		79	70-130		
tetrachloroethene	**7.04**		ppbv		10.0		70	70-130		
chlorobenzene	**7.63**		ppbv		10.0		76	70-130		
ethylbenzene	**8.67**		ppbv		10.0		87	70-130		
m,p-xylene	**16.8**		ppbv		20.0		84	70-130		
bromoform	**8.06**		ppbv		10.0		81	70-130		
o-xylene	**8.59**		ppbv		10.0		86	70-130		
1,1,2,2-tetrachloroethane	**7.50**		ppbv		10.0		75	70-130		
1,3-dichlorobenzene	**9.09**		ppbv		10.0		91	70-130		
1,4-dichlorobenzene	**8.74**		ppbv		10.0		87	70-130		
1,2-dichlorobenzene	**9.63**		ppbv		10.0		96	70-130		
Surrogate: 4-bromofluorobenzene	*9.52*		ppbv		*10.0*		*95*	*70-130*		

Notes and Definitions

B	Analyte is found in the associated blank as well as in the sample (CLP B-flag).
D	Data reported from a dilution
GS1	Sample dilution required for high concentration of target analytes to be within the instrument calibration range.
TB	Sample was collected in a Tedlar bag; recommended hold time is 48 hours for all except FL, which allows a 72-hour hold time. This media is not appropriate for ppbv level analysis.
U	Analyte included in the analysis, but not detected at or above the MDL.
dry	Sample results reported on a dry weight basis
NR	Not Reported
RPD	Relative Percent Difference

Laboratory Control Sample (LCS): A known matrix spiked with compound(s) representative of the target analytes, which is used to document laboratory performance.

Matrix Duplicate: An intra-laboratory split sample which is used to document the precision of a method in a given sample matrix.

Matrix Spike: An aliquot of a sample spiked with a known concentration of target analyte(s). The spiking occurs prior to sample preparation and analysis. A matrix spike is used to document the bias of a method in a given sample matrix.

Method Blank: An analyte-free matrix to which all reagents are added in the same volumes or proportions as used in sample processing. The method blank should be carried through the complete sample preparation and analytical procedure. The method blank is used to document contamination resulting from the analytical process.

Method Detection Limit (MDL): The minimum concentration of a substance that can be measured and reported with 99% confidence that the analyte concentration is greater than zero and is determined from analysis of a sample in a given matrix type containing the analyte.

Reportable Detection Limit (RDL): The lowest concentration that can be reliably achieved within specified limits of precision and accuracy during routine laboratory operating conditions. For many analytes the RDL analyte concentration is selected as the lowest non-zero standard in the calibration curve. While the RDL is approximately 5 to 10 times the MDL, the RDL for each sample takes into account the sample volume/weight, extract/digestate volume, cleanup procedures and, if applicable, dry weight correction. Sample RDLs are highly matrix-dependent.

Surrogate: An organic compound which is similar to the target analyte(s) in chemical composition and behavior in the analytical process, but which is not normally found in environmental samples. These compounds are spiked into all blanks, standards, and samples prior to analysis. Percent recoveries are calculated for each surrogate.

Continuing Calibration Verification: The calibration relationship established during the initial calibration must be verified at periodic intervals. Concentrations, intervals, and criteria are method specific.

SC48101 Bm

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CHAIN OF CUSTODY RECORD

Page 1 of 1

Special Handling:

- ☑ Standard TAT - 7 to 10 business days
- ☐ Rush TAT - Date Needed: _____

All TATs subject to laboratory approval
Min. 24-hr notification needed for rushes
Samples disposed after 30 days unless otherwise instructed.

Report To: GHD Tampa, FL

Telephone #:

Project Mgr:

Invoice To:

P.O No.: 34018945 Quote #:

Project No: 090113

Site Name: McNatts Ehrlich

Location: Tampa State: FL

Sampler(s): Skylar Albritton

F=Field Filtered 1=Na_2S2O_3 2=HCl 3=H_2SO_4 4=HNO_3 5=NaOH 6=Ascorbic Acid
7=CH3OH 8=$NaHSO_4$ 9=Deionized Water 10=H_3PO_4 11=_____ 12=_____

DW=Drinking Water GW=Groundwater SW=Surface Water WW=Waste Water
O=Oil SO=Soil SL=Sludge A=Indoor/Ambient Air SG=Soil Gas
X1=_____ X2=_____ X3=_____

G= Grab C=Compsite

Lab ID:	Sample ID:	Date:	Time:	Type	Matrix	# of VOA Vials	# of Amber Glass	# of Clear Glass	# of Plastic	Analysis: List Preservative Code below: TO-15	Check if chlorinated
SC48101-01	AR002/AR093	6-26-18	15:45	G	SG				1	TO-15	☐
											☐
											☐
											☐
											☐
											☐
											☐
										17.0/6/17.0	☐
											☐
											☐

QA/QC Reporting Notes:
* additional charges may appply

MA DEP MCP CAM Report? ☐ Yes ☐ No
CT DPH RCP Report? ☐ Yes ☐ No
☐ Standard ☐ No QC ☐ DQA*
☐ ASP A* ☐ ASP B*
☐ NJ Reduced* ☐ NJ Full*
☐ Tier II* ☐ Tier IV*
☐ Other: _____
State-specific reporting standards:

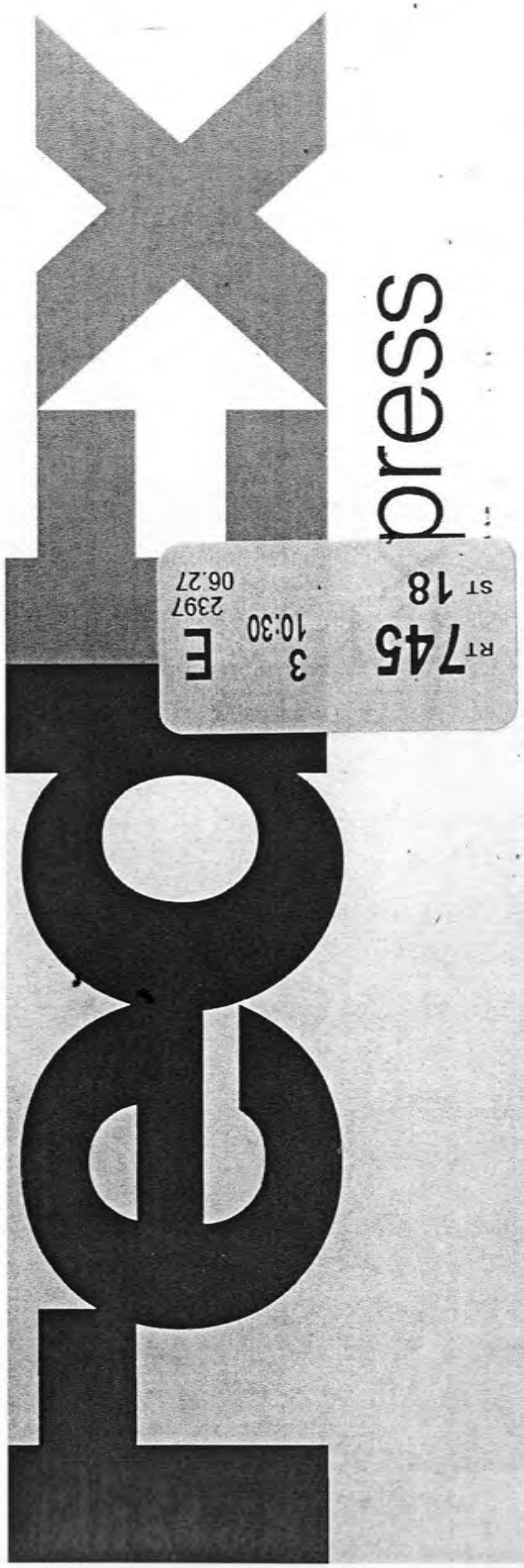
WACS Name:
McNatts Cleaners
WACS # ERIC_4752
ADaPT

02
AMB

Relinquished by:	Received by:	Date:	Time:	Temp °C
lab		6-26-18	0800	Observed
				Correction Factor
Fedex		6/27/18	1015	Corrected
				IR ID #

☑ EDD format: Dryclean
☐ E-mail to: _____

Condition upon receipt: Custody Seals: ☐ Present ☐ Intact ☐ Broken
☑ Ambient ☐ Iced ☐ Refrigerated ☐ DI VOA Frozen ☐ Soil Jar Frozen



ORIGIN ID:MCFA (813) 971-3882
GHD SERVICES INC.
5904 HAMPTON OAKS PKWY
TAMPA, FL 33610
UNITED STATES US

SHIP DATE: 26JUN18
ACTWGT: 0.40 LB
CAD: 006994487/SSFE1904

BILL THIRD PARTY

TO SAMPLE RECEIVING
EUROFINS SPECTRUM ANALYTICAL
11 ALMGREN DR

AGAWAM MA 01001
(413) 789-9018
INV:
PO:
REF:
DEPT:

FedEx
Express

TRK# 0201 7815 9920 2397

WED - 27 JUN 10:30A
PRIORITY OVERNIGHT

NL EHTA

01001
MA-US BDL

Align bottom of peel-and-stick airbill or pouch here.

Batch Summary

1808993

Air Quality Analyses

1808993-BLK1
1808993-BLK2
1808993-BS1
SC48101-01 (AR002/AR093)

S820287

Air Quality Analyses

S820287-CAL1
S820287-CAL2
S820287-CAL3
S820287-CAL4
S820287-CAL5
S820287-CAL6
S820287-CAL7
S820287-CAL8
S820287-ICV1
S820287-LCV1
S820287-LCV2
S820287-LCV3
S820287-TUN1

S820472

Air Quality Analyses

S820472-CCV1
S820472-TUN1

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11/7/2018
Mr. Brian Moore
GHD
5904 Hampton Oaks Parkway
Suite F
Tampa FL 33610

Project Name: McNatt's Ehrlich
Project #: 090113
Workorder #: 1810354R1

Dear Mr. Brian Moore

The following report includes the data for the above referenced project for sample(s) received on 10/17/2018 at Air Toxics Ltd.

The data and associated QC analyzed by TO-15 are compliant with the project requirements or laboratory criteria with the exception of the deviations noted in the attached case narrative.

Thank you for choosing Eurofins Air Toxics Inc. for your air analysis needs. Eurofins Air Toxics Inc. is committed to providing accurate data of the highest quality. Please feel free to contact the Project Manager: Rachel Selenis at 916-985-1000 if you have any questions regarding the data in this report.

Regards,

Rachel Selenis

Project Manager

eurofins | Air Toxics

WORK ORDER #: 1810354R1

Work Order Summary

CLIENT:	Mr. Brian Moore GHD 5904 Hampton Oaks Parkway Suite F Tampa, FL 33610	**BILL TO:**	Ms. Jennifer Devonshire GHD 2055 Niagara Falls Blvd. Suite Three Niagara Falls, NY 14304
PHONE:	813-257-0669	**P.O. #**	090113
FAX:		**PROJECT #**	090113 McNatt's Ehrlich
DATE RECEIVED:	10/17/2018	**CONTACT:**	Rachel Selenis
DATE COMPLETED:	10/24/2018		
DATE REISSUED:	11/07/2018		

FRACTION #	NAME	TEST	RECEIPT VAC./PRES.	FINAL PRESSURE
01A	AR002/AR094	TO-15	Tedlar Bag	Tedlar Bag
02A	Lab Blank	TO-15	NA	NA
03A	CCV	TO-15	NA	NA
04A	LCS	TO-15	NA	NA
04AA	LCSD	TO-15	NA	NA

CERTIFIED BY: Heidi Hayes DATE: 11/07/18

Technical Director

Certification numbers: AZ Licensure AZ0775, NJ NELAP - CA016, NY NELAP - 11291,
TX NELAP - T104704434-15-9, UT NELAP CA0093332015-6, VA NELAP - 8113, WA NELAP - C935
Name of Accreditation Body: NELAP/ORELAP (Oregon Environmental Laboratory Accreditation Program)
Accreditation number: CA300005, Effective date: 10/18/2015, Expiration date: 10/17/2016.
Eurofins Air Toxics Inc.. certifies that the test results contained in this report meet all requirements of the NELAC standards

180 BLUE RAVINE ROAD, SUITE B FOLSOM, CA - 95630
(916) 985-1000 . (800) 985-5955 . FAX (916) 985-1020

LABORATORY NARRATIVE
EPA Method TO-15
GHD
Workorder# 1810354R1

One 1 Liter Tedlar Bag sample was received on October 17, 2018. The laboratory performed analysis via EPA Method TO-15 using GC/MS in the full scan mode.

This workorder was independently validated prior to submittal using 'USEPA National Functional Guidelines' as generally applied to the analysis of volatile organic compounds in air. A rules-based, logic driven, independent validation engine was employed to assess completeness, evaluate pass/fail of relevant project quality control requirements and verification of all quantified amounts.

Receiving Notes

There were no receiving discrepancies.

Analytical Notes

Dilution was performed on sample AR002/AR094 due to the presence of high level target species.

Method TO-15 is validated for samples collected in specially treated canisters. As such, the use of Tedlar bags for sample collection is outside the scope of the method and not recommended for ambient or indoor air samples. It is the responsibility of the data user to determine the usability of TO-15 results generated from Tedlar bags.

The workorder was reissued on 11/07/18 to report results in ppmv and mg/m3 per client's request.

Definition of Data Qualifying Flags

Ten qualifiers may have been used on the data analysis sheets and indicates as follows:

B - Compound present in laboratory blank greater than reporting limit (background subtraction not performed).

J - Estimated value.

E - Exceeds instrument calibration range.

S - Saturated peak.

Q - Exceeds quality control limits.

U - Compound analyzed for but not detected above the reporting limit, LOD, or MDL value. See data page for project specific U-flag definition.

UJ- Non-detected compound associated with low bias in the CCV

N - The identification is based on presumptive evidence.

M - Reported value may be biased due to apparent matrix interferences.

CN - See Case Narrative.

File extensions may have been used on the data analysis sheets and indicates as follows:

a-File was requantified

b-File was quantified by a second column and detector

r1-File was requantified for the purpose of reissue

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Summary of Detected Compounds
EPA METHOD TO-15 GC/MS FULL SCAN

Client Sample ID: AR002/AR094

Lab ID#: 1810354R1-01A

Compound	Rpt. Limit (ppmv)	Amount (ppmv)	Rpt. Limit (mg/m3)	Amount (mg/m3)
Vinyl Chloride	0.0025	0.066	0.0064	0.17
cis-1,2-Dichloroethene	0.0025	0.16	0.0099	0.64
Chloroform	0.0025	0.0047	0.012	0.023
Trichloroethene	0.0025	0.044	0.013	0.24
Toluene	0.0025	0.79	0.0094	3.0
Tetrachloroethene	0.0025	0.15	0.017	1.0
Ethyl Benzene	0.0025	0.0040	0.011	0.017
m,p-Xylene	0.0025	0.012	0.011	0.050
o-Xylene	0.0025	0.0049	0.011	0.021

eurofins | Air Toxics

Client Sample ID: AR002/AR094

Lab ID#: 1810354R1-01A

EPA METHOD TO-15 GC/MS FULL SCAN

File Name:	**a101817**	**Date of Collection:**	**10/16/18 2:00:00 PM**
Dil. Factor:	**5.00**	**Date of Analysis:**	**10/18/18 11:01 PM**

Compound	Rpt. Limit (ppmv)	Amount (ppmv)	Rpt. Limit (mg/m3)	Amount (mg/m3)
Freon 12	0.0025	Not Detected	0.012	Not Detected
Chloromethane	0.025	Not Detected	0.052	Not Detected
Vinyl Chloride	0.0025	0.066	0.0064	0.17
Bromomethane	0.025	Not Detected	0.097	Not Detected
Chloroethane	0.010	Not Detected	0.026	Not Detected
Freon 11	0.0025	Not Detected	0.014	Not Detected
1,1-Dichloroethene	0.0025	Not Detected	0.0099	Not Detected
Methylene Chloride	0.025	Not Detected	0.087	Not Detected
trans-1,2-Dichloroethene	0.0025	Not Detected	0.0099	Not Detected
1,1-Dichloroethane	0.0025	Not Detected	0.010	Not Detected
Methyl tert-butyl ether	0.010	Not Detected	0.036	Not Detected
cis-1,2-Dichloroethene	0.0025	0.16	0.0099	0.64
Chloroform	0.0025	0.0047	0.012	0.023
1,2-Dichloroethane	0.0025	Not Detected	0.010	Not Detected
1,1,1-Trichloroethane	0.0025	Not Detected	0.014	Not Detected
Benzene	0.0025	Not Detected	0.0080	Not Detected
Carbon Tetrachloride	0.0025	Not Detected	0.016	Not Detected
1,2-Dichloropropane	0.0025	Not Detected	0.012	Not Detected
Bromodichloromethane	0.0025	Not Detected	0.017	Not Detected
Trichloroethene	0.0025	0.044	0.013	0.24
cis-1,3-Dichloropropene	0.0025	Not Detected	0.011	Not Detected
trans-1,3-Dichloropropene	0.0025	Not Detected	0.011	Not Detected
1,1,2-Trichloroethane	0.0025	Not Detected	0.014	Not Detected
Toluene	0.0025	0.79	0.0094	3.0
Dibromochloromethane	0.0025	Not Detected	0.021	Not Detected
Tetrachloroethene	0.0025	0.15	0.017	1.0
Chlorobenzene	0.0025	Not Detected	0.012	Not Detected
Ethyl Benzene	0.0025	0.0040	0.011	0.017
m,p-Xylene	0.0025	0.012	0.011	0.050
Bromoform	0.0025	Not Detected	0.026	Not Detected
o-Xylene	0.0025	0.0049	0.011	0.021
1,1,2,2-Tetrachloroethane	0.0025	Not Detected	0.017	Not Detected
1,3-Dichlorobenzene	0.0025	Not Detected	0.015	Not Detected
1,4-Dichlorobenzene	0.0025	Not Detected	0.015	Not Detected
1,2-Dichlorobenzene	0.0025	Not Detected	0.015	Not Detected

Container Type: 1 Liter Tedlar Bag

Surrogates	%Recovery	Method Limits
Toluene-d8	100	70-130
1,2-Dichloroethane-d4	98	70-130
4-Bromofluorobenzene	101	70-130

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Client Sample ID: AR002/AR094

Lab ID#: 1810354R1-01A

EPA METHOD TO-15 GC/MS FULL SCAN

File Name:	**a101817**	**Date of Collection: 10/16/18 2:00:00 PM**
Dil. Factor:	**5.00**	**Date of Analysis: 10/18/18 11:01 PM**

eurofins | Air Toxics

Client Sample ID: Lab Blank

Lab ID#: 1810354R1-02A

EPA METHOD TO-15 GC/MS FULL SCAN

File Name:	**a101805**	**Date of Collection: NA**	
Dil. Factor:	**1.00**	**Date of Analysis: 10/18/18 01:46 PM**	

Compound	Rpt. Limit (ppmv)	Amount (ppmv)	Rpt. Limit (mg/m3)	Amount (mg/m3)
Freon 12	0.00050	Not Detected	0.0025	Not Detected
Chloromethane	0.0050	Not Detected	0.010	Not Detected
Vinyl Chloride	0.00050	Not Detected	0.0013	Not Detected
Bromomethane	0.0050	Not Detected	0.019	Not Detected
Chloroethane	0.0020	Not Detected	0.0053	Not Detected
Freon 11	0.00050	Not Detected	0.0028	Not Detected
1,1-Dichloroethene	0.00050	Not Detected	0.0020	Not Detected
Methylene Chloride	0.0050	Not Detected	0.017	Not Detected
trans-1,2-Dichloroethene	0.00050	Not Detected	0.0020	Not Detected
1,1-Dichloroethane	0.00050	Not Detected	0.0020	Not Detected
Methyl tert-butyl ether	0.0020	Not Detected	0.0072	Not Detected
cis-1,2-Dichloroethene	0.00050	Not Detected	0.0020	Not Detected
Chloroform	0.00050	Not Detected	0.0024	Not Detected
1,2-Dichloroethane	0.00050	Not Detected	0.0020	Not Detected
1,1,1-Trichloroethane	0.00050	Not Detected	0.0027	Not Detected
Benzene	0.00050	Not Detected	0.0016	Not Detected
Carbon Tetrachloride	0.00050	Not Detected	0.0031	Not Detected
1,2-Dichloropropane	0.00050	Not Detected	0.0023	Not Detected
Bromodichloromethane	0.00050	Not Detected	0.0034	Not Detected
Trichloroethene	0.00050	Not Detected	0.0027	Not Detected
cis-1,3-Dichloropropene	0.00050	Not Detected	0.0023	Not Detected
trans-1,3-Dichloropropene	0.00050	Not Detected	0.0023	Not Detected
1,1,2-Trichloroethane	0.00050	Not Detected	0.0027	Not Detected
Toluene	0.00050	Not Detected	0.0019	Not Detected
Dibromochloromethane	0.00050	Not Detected	0.0042	Not Detected
Tetrachloroethene	0.00050	Not Detected	0.0034	Not Detected
Chlorobenzene	0.00050	Not Detected	0.0023	Not Detected
Ethyl Benzene	0.00050	Not Detected	0.0022	Not Detected
m,p-Xylene	0.00050	Not Detected	0.0022	Not Detected
Bromoform	0.00050	Not Detected	0.0052	Not Detected
o-Xylene	0.00050	Not Detected	0.0022	Not Detected
1,1,2,2-Tetrachloroethane	0.00050	Not Detected	0.0034	Not Detected
1,3-Dichlorobenzene	0.00050	Not Detected	0.0030	Not Detected
1,4-Dichlorobenzene	0.00050	Not Detected	0.0030	Not Detected
1,2-Dichlorobenzene	0.00050	Not Detected	0.0030	Not Detected

Container Type: NA - Not Applicable

Surrogates	%Recovery	Method Limits
Toluene-d8	102	70-130
1,2-Dichloroethane-d4	96	70-130
4-Bromofluorobenzene	102	70-130

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Client Sample ID: Lab Blank

Lab ID#: 1810354R1-02A

EPA METHOD TO-15 GC/MS FULL SCAN

File Name:	**a101805**	**Date of Collection: NA**
Dil. Factor:	**1.00**	**Date of Analysis: 10/18/18 01:46 PM**

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Client Sample ID: CCV

Lab ID#: 1810354R1-03A

EPA METHOD TO-15 GC/MS FULL SCAN

File Name:	**a101802**	**Date of Collection: NA**	
Dil. Factor:	**1.00**	**Date of Analysis: 10/18/18 10:50 AM**	

Compound	%Recovery
Freon 12	103
Chloromethane	105
Vinyl Chloride	106
Bromomethane	110
Chloroethane	112
Freon 11	101
1,1-Dichloroethene	105
Methylene Chloride	106
trans-1,2-Dichloroethene	113
1,1-Dichloroethane	112
Methyl tert-butyl ether	104
cis-1,2-Dichloroethene	111
Chloroform	108
1,2-Dichloroethane	104
1,1,1-Trichloroethane	102
Benzene	103
Carbon Tetrachloride	106
1,2-Dichloropropane	103
Bromodichloromethane	104
Trichloroethene	103
cis-1,3-Dichloropropene	106
trans-1,3-Dichloropropene	113
1,1,2-Trichloroethane	106
Toluene	99
Dibromochloromethane	108
Tetrachloroethene	104
Chlorobenzene	102
Ethyl Benzene	102
m,p-Xylene	106
Bromoform	112
o-Xylene	109
1,1,2,2-Tetrachloroethane	103
1,3-Dichlorobenzene	103
1,4-Dichlorobenzene	102
1,2-Dichlorobenzene	102

Container Type: NA - Not Applicable

Surrogates	%Recovery	Method Limits
Toluene-d8	98	70-130
1,2-Dichloroethane-d4	97	70-130
4-Bromofluorobenzene	102	70-130

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Client Sample ID: CCV

Lab ID#: 1810354R1-03A

EPA METHOD TO-15 GC/MS FULL SCAN

File Name:	**a101802**	**Date of Collection: NA**
Dil. Factor:	**1.00**	**Date of Analysis: 10/18/18 10:50 AM**

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Client Sample ID: LCS

Lab ID#: 1810354R1-04A

EPA METHOD TO-15 GC/MS FULL SCAN

File Name:	**a101803**	**Date of Collection: NA**	
Dil. Factor:	**1.00**	**Date of Analysis: 10/18/18 11:30 AM**	

Compound	%Recovery	Method Limits
Freon 12	108	70-130
Chloromethane	106	70-130
Vinyl Chloride	115	70-130
Bromomethane	114	70-130
Chloroethane	116	70-130
Freon 11	106	70-130
1,1-Dichloroethene	112	70-130
Methylene Chloride	110	70-130
trans-1,2-Dichloroethene	125	70-130
1,1-Dichloroethane	116	70-130
Methyl tert-butyl ether	109	70-130
cis-1,2-Dichloroethene	107	70-130
Chloroform	113	70-130
1,2-Dichloroethane	112	70-130
1,1,1-Trichloroethane	105	70-130
Benzene	111	70-130
Carbon Tetrachloride	109	70-130
1,2-Dichloropropane	111	70-130
Bromodichloromethane	114	70-130
Trichloroethene	120	70-130
cis-1,3-Dichloropropene	121	70-130
trans-1,3-Dichloropropene	118	70-130
1,1,2-Trichloroethane	111	70-130
Toluene	105	70-130
Dibromochloromethane	115	70-130
Tetrachloroethene	107	70-130
Chlorobenzene	107	70-130
Ethyl Benzene	107	70-130
m,p-Xylene	111	70-130
Bromoform	120	70-130
o-Xylene	114	70-130
1,1,2,2-Tetrachloroethane	102	70-130
1,3-Dichlorobenzene	107	70-130
1,4-Dichlorobenzene	108	70-130
1,2-Dichlorobenzene	105	70-130

Container Type: NA - Not Applicable

Surrogates	%Recovery	Method Limits
Toluene-d8	100	70-130
1,2-Dichloroethane-d4	95	70-130
4-Bromofluorobenzene	102	70-130

Client Sample ID: LCS

Lab ID#: 1810354R1-04A

EPA METHOD TO-15 GC/MS FULL SCAN

File Name:	**a101803**	**Date of Collection: NA**
Dil. Factor:	**1.00**	**Date of Analysis: 10/18/18 11:30 AM**

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Client Sample ID: LCSD

Lab ID#: 1810354R1-04AA

EPA METHOD TO-15 GC/MS FULL SCAN

File Name:	**a101804**	**Date of Collection: NA**	
Dil. Factor:	**1.00**	**Date of Analysis: 10/18/18 11:56 AM**	

Compound	%Recovery	Method Limits
Freon 12	110	70-130
Chloromethane	107	70-130
Vinyl Chloride	116	70-130
Bromomethane	114	70-130
Chloroethane	124	70-130
Freon 11	108	70-130
1,1-Dichloroethene	113	70-130
Methylene Chloride	111	70-130
trans-1,2-Dichloroethene	129	70-130
1,1-Dichloroethane	114	70-130
Methyl tert-butyl ether	109	70-130
cis-1,2-Dichloroethene	109	70-130
Chloroform	115	70-130
1,2-Dichloroethane	113	70-130
1,1,1-Trichloroethane	108	70-130
Benzene	111	70-130
Carbon Tetrachloride	110	70-130
1,2-Dichloropropane	112	70-130
Bromodichloromethane	116	70-130
Trichloroethene	120	70-130
cis-1,3-Dichloropropene	124	70-130
trans-1,3-Dichloropropene	116	70-130
1,1,2-Trichloroethane	112	70-130
Toluene	106	70-130
Dibromochloromethane	116	70-130
Tetrachloroethene	109	70-130
Chlorobenzene	107	70-130
Ethyl Benzene	108	70-130
m,p-Xylene	111	70-130
Bromoform	121	70-130
o-Xylene	113	70-130
1,1,2,2-Tetrachloroethane	103	70-130
1,3-Dichlorobenzene	108	70-130
1,4-Dichlorobenzene	110	70-130
1,2-Dichlorobenzene	109	70-130

Container Type: NA - Not Applicable

Surrogates	%Recovery	Method Limits
Toluene-d8	101	70-130
1,2-Dichloroethane-d4	96	70-130
4-Bromofluorobenzene	102	70-130

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Client Sample ID: LCSD

Lab ID#: 1810354R1-04AA

EPA METHOD TO-15 GC/MS FULL SCAN

File Name:	**a101804**	**Date of Collection: NA**
Dil. Factor:	**1.00**	**Date of Analysis: 10/18/18 11:56 AM**

Jupiter Environmental Laboratories, Inc.
150 S. Old Dixie Highway
Jupiter, FL 33458
Phone: (561)575-0030
Fax: (561)575-4118
www.jupiterlabs.com
clientservices@jupiterlabs.com

February 7, 2018

Brian Moore
GHD Tampa
5904 Hampton Oaks Parkway
Suite F
Tampa, FL 33610

RE: LOG# 1855254
Project ID: McNatts Ehrlich 090113
COC# 1855254

Dear Brian Moore:

Enclosed are the analytical results for sample(s) received by the laboratory on Wednesday, January 31, 2018. Results reported herein conform to the most current NELAC standards, where applicable, unless indicated by * in the body of the report. The enclosed Chain of Custody is a component of this package and should be retained with the package and incorporated therein.

Results for all solid matrices are reported in dry weight unless otherwise noted. Results for all liquid matrices are reported as received in the laboratory unless otherwise noted. Results relate only to the samples received. Should insufficient sample be provided to the laboratory to meet the method and NELAC Matrix Duplicate and Matrix Spike requirements, then the data will be analyzed, evaluated and reported using all other available quality control measures.

Samples are disposed of after 30 days of their receipt by the laboratory unless extended storage is requested in writing. The laboratory maintains the right to charge storage fees for archived samples. This report will be archived for 5 years after which time it will be destroyed without further notice, unless prior arrangements have been made.

Certain analyses are subcontracted to outside NELAC certified laboratories, please see the Project Summary section of this report for NELAC certification numbers of laboratories used. A Statement of Qualifiers is available upon request.

If you have any questions concerning this report, please feel free to contact me.

Sincerely,

John Heyman for
Kacia Baldwin
V.P. of Operations

FDOH# E86546

CERTIFICATE OF ANALYSIS

Jupiter Environmental Laboratories, Inc.
150 S. Old Dixie Highway
Jupiter, FL 33458
Phone: (561)575-0030
Fax: (561)575-4118

SAMPLE SUMMARY

Workorder: 1855254

Project ID: McNatts Ehrlich 090113

Lab ID	Sample ID	Matrix	Date Collected	Date Received
1855254001	MW051/GW657	Aqueous Liquid	1/29/2018 17:52	1/31/2018 08:30
1855254002	MW052/GW658	Aqueous Liquid	1/29/2018 18:42	1/31/2018 08:30

FDOH# E86546

CERTIFICATE OF ANALYSIS

TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING

ANALYTICAL REPORT

TestAmerica Laboratories, Inc.
TestAmerica Tampa
6712 Benjamin Road
Suite 100
Tampa, FL 33634
Tel: (813)885-7427

TestAmerica Job ID: 660-85272-1
Client Project/Site: McNatts Ehrlich / 090113

For:
Jupiter Environmental Labs
150 S.Old Dixie Highway
Jupiter, Florida 33458

Attn: Client Services

Authorized for release by:
2/7/2018 10:27:39 AM

Haukur Gudnason, Project Manager II
(813)280-8342
haukur.gudnason@testamericainc.com

Table of Contents

Sample Summary

Client: Jupiter Environmental Labs
Project/Site: McNatts Ehrlich / 090113

TestAmerica Job ID: 660-85272-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
660-85272-1	MW051/GW657	Water	01/29/18 17:52	01/31/18 11:05
660-85272-2	MW052/GW658	Water	01/29/18 18:42	01/31/18 11:05

Case Narrative

Client: Jupiter Environmental Labs
Project/Site: McNatts Ehrlich / 090113

TestAmerica Job ID: 660-85272-1

Job ID: 660-85272-1

Laboratory: TestAmerica Tampa

Narrative

Receipt
The samples were received on 1/31/2018 11:05 AM; the samples arrived in good condition, properly preserved and, where required, on ice. The temperature of the cooler at receipt was 0.1º C.

GC VOA
No analytical or quality issues were noted, other than those described in the Definitions/Glossary page.

Definitions/Glossary

Client: Jupiter Environmental Labs
Project/Site: McNatts Ehrlich / 090113

TestAmerica Job ID: 660-85272-1

Qualifiers

GC VOA

Qualifier	Qualifier Description
U	Indicates that the compound was analyzed for but not detected.

Glossary

Abbreviation	These commonly used abbreviations may or may not be present in this report.
¤	Listed under the "D" column to designate that the result is reported on a dry weight basis
%R	Percent Recovery
CFL	Contains Free Liquid
CNF	Contains No Free Liquid
DER	Duplicate Error Ratio (normalized absolute difference)
Dil Fac	Dilution Factor
DL	Detection Limit (DoD/DOE)
DL, RA, RE, IN	Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample
DLC	Decision Level Concentration (Radiochemistry)
EDL	Estimated Detection Limit (Dioxin)
LOD	Limit of Detection (DoD/DOE)
LOQ	Limit of Quantitation (DoD/DOE)
MDA	Minimum Detectable Activity (Radiochemistry)
MDC	Minimum Detectable Concentration (Radiochemistry)
MDL	Method Detection Limit
ML	Minimum Level (Dioxin)
NC	Not Calculated
ND	Not Detected at the reporting limit (or MDL or EDL if shown)
PQL	Practical Quantitation Limit
QC	Quality Control
RER	Relative Error Ratio (Radiochemistry)
RL	Reporting Limit or Requested Limit (Radiochemistry)
RPD	Relative Percent Difference, a measure of the relative difference between two points
TEF	Toxicity Equivalent Factor (Dioxin)
TEQ	Toxicity Equivalent Quotient (Dioxin)

Detection Summary

Client: Jupiter Environmental Labs
Project/Site: McNatts Ehrlich / 090113

TestAmerica Job ID: 660-85272-1

Client Sample ID: MW051/GW657 — Lab Sample ID: 660-85272-1

Analyte	Result	Qualifier	PQL	MDL	Unit	Dil Fac	D	Method	Prep Type
Ethane	4.0		1.1	0.55	ug/L	1		RSK-175	Total/NA
Ethylene	200		1.0	0.50	ug/L	1		RSK-175	Total/NA
Methane (TCD)	4100		390	39	ug/L	1		RSK-175	Total/NA

Client Sample ID: MW052/GW658 — Lab Sample ID: 660-85272-2

Analyte	Result	Qualifier	PQL	MDL	Unit	Dil Fac	D	Method	Prep Type
Ethylene	4.8		1.0	0.50	ug/L	1		RSK-175	Total/NA
Methane (TCD)	10000		390	39	ug/L	1		RSK-175	Total/NA

This Detection Summary does not include radiochemical test results.

Client Sample Results

Client: Jupiter Environmental Labs
Project/Site: McNatts Ehrlich / 090113

TestAmerica Job ID: 660-85272-1

Client Sample ID: MW051/GW657
Date Collected: 01/29/18 17:52
Date Received: 01/31/18 11:05

Lab Sample ID: 660-85272-1
Matrix: Water

Method: RSK-175 - Dissolved Gases (GC)

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Ethane	4.0		1.1	0.55	ug/L			02/01/18 15:47	1
Ethylene	200		1.0	0.50	ug/L			02/01/18 15:47	1
Methane (TCD)	4100		390	39	ug/L			02/01/18 15:47	1

Client Sample Results

Client: Jupiter Environmental Labs
Project/Site: McNatts Ehrlich / 090113

TestAmerica Job ID: 660-85272-1

Client Sample ID: MW052/GW658
Date Collected: 01/29/18 18:42
Date Received: 01/31/18 11:05

Lab Sample ID: 660-85272-2
Matrix: Water

Method: RSK-175 - Dissolved Gases (GC)

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Ethane	0.55	U	1.1	0.55	ug/L			02/01/18 16:00	1
Ethylene	**4.8**		1.0	0.50	ug/L			02/01/18 16:00	1
Methane (TCD)	**10000**		390	39	ug/L			02/01/18 16:00	1

Method: RSK-175 - Dissolved Gases (GC)

Lab Sample ID: MB 680-511184/10
Matrix: Water
Analysis Batch: 511184

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Ethane	0.55	U	1.1	0.55	ug/L			02/01/18 12:51	1
Ethylene	0.50	U	1.0	0.50	ug/L			02/01/18 12:51	1
Methane	0.29	U	0.58	0.29	ug/L			02/01/18 12:51	1
Methane (TCD)	39	U	390	39	ug/L			02/01/18 12:51	1

Lab Sample ID: LCS 680-511184/3
Matrix: Water
Analysis Batch: 511184

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Ethane	288	277		ug/L		96	75 - 125
Ethylene	269	258		ug/L		96	75 - 125
Methane	154	146		ug/L		95	75 - 125

Lab Sample ID: LCS 680-511184/6
Matrix: Water
Analysis Batch: 511184

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Methane (TCD)	1920	1830		ug/L		95	75 - 125

Lab Sample ID: LCSD 680-511184/4
Matrix: Water
Analysis Batch: 511184

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Ethane	288	270		ug/L		94	75 - 125	2	30
Ethylene	269	252		ug/L		94	75 - 125	2	30
Methane	154	146		ug/L		95	75 - 125	0	30

Lab Sample ID: LCSD 680-511184/7
Matrix: Water
Analysis Batch: 511184

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Methane (TCD)	1920	1830		ug/L		95	75 - 125	0	30

QC Association Summary

Client: Jupiter Environmental Labs
Project/Site: McNatts Ehrlich / 090113

TestAmerica Job ID: 660-85272-1

GC VOA

Analysis Batch: 511184

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
660-85272-1	MW051/GW657	Total/NA	Water	RSK-175	
660-85272-2	MW052/GW658	Total/NA	Water	RSK-175	
MB 680-511184/10	Method Blank	Total/NA	Water	RSK-175	
LCS 680-511184/3	Lab Control Sample	Total/NA	Water	RSK-175	
LCS 680-511184/6	Lab Control Sample	Total/NA	Water	RSK-175	
LCSD 680-511184/4	Lab Control Sample Dup	Total/NA	Water	RSK-175	
LCSD 680-511184/7	Lab Control Sample Dup	Total/NA	Water	RSK-175	

Lab Chronicle

Client: Jupiter Environmental Labs
Project/Site: McNatts Ehrlich / 090113

TestAmerica Job ID: 660-85272-1

Client Sample ID: MW051/GW657

Lab Sample ID: 660-85272-1

Date Collected: 01/29/18 17:52

Matrix: Water

Date Received: 01/31/18 11:05

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	RSK-175		1	17 mL	17 mL	511184	02/01/18 15:47	KAB	TAL SAV

Client Sample ID: MW052/GW658

Lab Sample ID: 660-85272-2

Date Collected: 01/29/18 18:42

Matrix: Water

Date Received: 01/31/18 11:05

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	RSK-175		1	17 mL	17 mL	511184	02/01/18 16:00	KAB	TAL SAV

Laboratory References:

TAL SAV = TestAmerica Savannah, 5102 LaRoche Avenue, Savannah, GA 31404, TEL (912)354-7858

Method Summary

Client: Jupiter Environmental Labs
Project/Site: McNatts Ehrlich / 090113

TestAmerica Job ID: 660-85272-1

Method	Method Description	Protocol	Laboratory
RSK-175	Dissolved Gases (GC)	RSK	TAL SAV

Protocol References:

RSK = Sample Prep And Calculations For Dissolved Gas Analysis In Water Samples Using A GC Headspace Equilibration Technique, RSKSOP-175, Rev. 0, 8/11/94, USEPA Research Lab

Laboratory References:

TAL SAV = TestAmerica Savannah, 5102 LaRoche Avenue, Savannah, GA 31404, TEL (912)354-7858

Accreditation/Certification Summary

Client: Jupiter Environmental Labs
Project/Site: McNatts Ehrlich / 090113

TestAmerica Job ID: 660-85272-1

Laboratory: TestAmerica Tampa

The accreditations/certifications listed below are applicable to this report.

Authority	Program	EPA Region	Identification Number	Expiration Date
Florida	NELAP	4	E84282	06-30-18

Laboratory: TestAmerica Savannah

The accreditations/certifications listed below are applicable to this report.

Authority	Program	EPA Region	Identification Number	Expiration Date
Florida	NELAP	4	E87052	06-30-18

Jupiter
Environmental Laboratories, Inc.

150 S. Old Dixie Highway
Jupiter, FL 33458
561-575-0030

Sub Lab COC

Subbed to TestAmerica

CHAIN OF CUSTODY RECORD

DATE:
PAGE: 1 OF 1

LABORATORY CLIENT: **Jupiter Labs Tampa**	CLIENT PROJECT NAME / NUMBER: **McNatts Ehrlich/090113**
ADDRESS: **2608 South 86th Street Suite B**	PROJECT CONTACT: **John Heyman**
CITY: **Tampa**	SAMPLER(S): (SIGNATURE) **E. Gonzalez**
TEL: **561-262-8735** E-MAIL: clientservices@jupiterlabs.com	P.O. NO.: / QUOTE NO.: / LAB USE ONLY

TURNAROUND TIME

☐ SAME DAY ☐ 24 HR ☐ 48HR ☐ 3 DAYS ☒ STD

SPECIAL REQUIREMENTS (ADDITIONAL COSTS MAY APPLY)

☐ ADaPT REPORTING ☐ ARCHIVE SAMPLES UNTIL ____/____/____

SPECIAL INSTRUCTIONS

STD TAT
EDD : Dryclean
WACS # : ERIC_4752

REQUESTED ANALYSIS

LAB USE ONLY	SAMPLE ID	LOCATION/ DESCRIPTION	SAMPLING DATE	SAMPLING TIME	Matrix	#Cont	RSK-175
	MW051/GW657		01/29/18	1752	GW	3	X
	MW052/GW658		01/29/18	1842	GW	3	X

660-85272 Chain of Custody
Loc: 660
85272

Relinquished by: (Signature) Joanna Smith	Received by: (Signature)	Date: 1.31.18	Time: 1105
Relinquished by: (Signature)	Received by: (Signature)	Date:	Time:
Relinquished by: (Signature)	Received by: (Signature)	Date:	Time:

0.2/0.1 cw-09

2/7/2018

TestAmerica Tampa
6712 Benjamin Road Suite 100
Tampa, FL 33634
Phone (813) 885-7427 Fax (813) 885-7049

Chain of Custody Record

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

Client Information (Sub Contract Lab)	Sampler:	Lab PM: Gudnason, Haukur M	Carrier Tracking No(s):	COC No: 660-102518.1
Client Contact: Shipping/Receiving	Phone:	E-Mail: haukur.gudnason@testamericainc.com	State of Origin: Florida	Page: Page 1 of 1
Company: TestAmerica Laboratories, Inc.		Accreditations Required (See note): NELAP - Florida		Job #: 660-85272-1
Address: 5102 LaRoche Avenue, ,	Due Date Requested: 2/6/2018			
City: Savannah	TAT Requested (days):			
State, Zip: GA, 31404				
Phone: 912-354-7858(Tel) 912-352-0165(Fax)	PO #:			
Email:	WO #:			
Project Name: Jupiter FL work-Add job name from COC	Project #: 66010014			
Site:	SSOW#:			

Analysis Requested

Preservation Codes:

A - HCL	M - Hexane
B - NaOH	N - None
C - Zn Acetate	O - AsNaO2
D - Nitric Acid	P - Na2O4S
E - NaHSO4	Q - Na2SO3
F - MeOH	R - Na2S2O3
G - Amchlor	S - H2SO4
H - Ascorbic Acid	T - TSP Dodecahydrate
I - Ice	U - Acetone
J - DI Water	V - MCAA
K - EDTA	W - pH 4-5
L - EDA	Z - other (specify)

Other:

Sample Identification - Client ID (Lab ID)	Sample Date	Sample Time	Sample Type (C=Comp, G=grab)	Matrix (W=water, S=solid, O=waste/oil, BT=Tissue, A=Air)	Field Filtered Sample (Yes or No)	Perform MS/MSD (Yes or No)	RSK_175/ Methane, Ethane, & Ethene	Total Number of containers	Special Instructions/Note:
			Preservation Code:						
MW051/GW657 (660-85272-1)	1/29/18	17:52 Eastern		Water			X	3	
MW052/GW658 (660-85272-2)	1/29/18	18:42 Eastern		Water			X	3	

Note: Since laboratory accreditations are subject to change, TestAmerica Laboratories, Inc. places the ownership of method, analyte & accreditation compliance upon out subcontract laboratories. This sample shipment is forwarded under chain-of-custody. If the laboratory does not currently maintain accreditation in the State of Origin listed above for analysis/tests/matrix being analyzed, the samples must be shipped back to the TestAmerica laboratory or other instructions will be provided. Any changes to accreditation status should be brought to TestAmerica Laboratories, Inc. attention immediately. If all requested accreditations are current to date, return the signed Chain of Custody attesting to said complicance to TestAmerica Laboratories, Inc.

Possible Hazard Identification	Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)
Unconfirmed	☐ Return To Client ☐ Disposal By Lab ☐ Archive For _____ Months
Deliverable Requested: I, II, III, IV, Other (specify) Primary Deliverable Rank: 2	Special Instructions/QC Requirements:

Empty Kit Relinquished by:	Date:	Time:	Method of Shipment:

	Relinquished by	Date/Time	Company	Received by	Date/Time	Company
1	Kristen Edwards	1/31/18 1636	TA Tampa		01/01/2018 8:00	TA Savannah
2	Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company
3	Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company

Custody Seals Intact: Δ Yes Δ No	Custody Seal No.:	Cooler Temperature(s) °C and Other Remarks: 18,09,2.3°C / 1.9,0.7+ °C

Ver: 09/20/2016

Login Sample Receipt Checklist

Client: Jupiter Environmental Labs

Job Number: 660-85272-1

Login Number: 85272
List Number: 1
Creator: Southers, Kristin B

List Source: TestAmerica Tampa

Question	Answer	Comment
Radioactivity wasn't checked or is </= background as measured by a survey meter.	N/A	
The cooler's custody seal, if present, is intact.	True	
Sample custody seals, if present, are intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time (excluding tests with immediate HTs)	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	True	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").	True	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	

Login Sample Receipt Checklist

Client: Jupiter Environmental Labs

Job Number: 660-85272-1

Login Number: 85272
List Number: 2
Creator: Tsui, Lee W

List Source: TestAmerica Savannah
List Creation: 02/01/18 09:29 AM

Question	Answer	Comment
Radioactivity wasn't checked or is </= background as measured by a survey meter.	N/A	
The cooler's custody seal, if present, is intact.	True	
Sample custody seals, if present, are intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time (excluding tests with immediate HTs)	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	True	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").	N/A	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	

Jupiter
Environmental Laboratories, Inc.

www.jupiterlabs.com
150 S. Old Dixie Highway, Jupiter, FL 33458
(561) 575-0030 • (888) 287-3218 • clientservices@jupiterlabs.com

J.E.L. Log # 855244
P.O. # 254
Quote # _____

Company Name GHD
Address 5904 Hampton Oaks Pkwy
City Tampa State FL Zip 33610
Sampling Site Address
Attn: B. Moore Email
Project Name McKatts Ehrlich Project # 090113
Sampler Name/Signature Enrico Gonzalez

#	Sample Label (Client ID)	Collected Date	Collected Time	Matrix Code*	# of Cont	Pres Codes	Parameters: Dissolved Gasses (methane ethane ethene)	Field Filtered (Y/N)
1	MW051 / GW657	1/29/18	1752	GW	3		✓	
2	MW052/GW658	↓	1842	↓	↓		✓	
3								
4								
5								
6								
7								
8								
9								
10								

LAB ANALYSIS

Requested Turnaround Time
Note: Rush requests subject to acceptance by the laboratory
✓ Standard
___ Expedited
Due ___/___/___

Comments
WACS # ERIC_4752
EDD: Dryclean
RSK-175 subbed to TestAmerica
JS 1.30.18

Matrix Codes*
S Soil/Solid Sediment; SW Surface Water; GW Ground Water; SL Sludge; WW Waste Water; O Other (Please Specify); DW Drinking Water

Pres Codes
A- none; I- Ice; B- HNO_3; O- Other; C- H_2SO_4; M- MeOH; D- NaOH; N- $Na_2S_2O_3$; E- HCl; Z- ZnAc

QA/QC level with report
None ___ 1 ___ (2) ___ 3 ___ See price guide for applicable fees

FDEP Dry Cleaning ❑ FDEP UST Pre-Approval ❑
SFWMD ❑ ADaPT ❑ DOT ❑

Temp Control: 4 °C

Relinquished by	Date	Time	Received by	Date	Time
Enrico Gonzalez	1/30/18	900	Jaamal Smith	1.30.18	1545
Jaamal Smith	1.30.18	1845	Crown Courier	1.30.18	1845
Crown Courier	1/31/18	0830	[illegible]	1/31/18	0830

Page 1 of 1

(1) MD 1/31/18

855244 254

Jupiter
Environmental Laboratories, Inc

150 S. Old Dixie Highway
Jupiter, FL 33458
561-575-0030

Sub Lab COC

Subbed to TestAmerica

CHAIN OF CUSTODY RECORD

DATE:

PAGE: 1 OF 1

LABORATORY CLIENT: **Jupiter Labs Tampa**

ADDRESS: **2608 South 86th Street Suite B**

CITY: **Tampa**

TEL: **561-262-8735**

E-MAIL: clientservices@jupiterlabs.com

CLIENT PROJECT NAME / NUMBER: **McNatts Ehrlich/090113**

PROJECT CONTACT: **John Heyman**

SAMPLER(S): (SIGNATURE) **E. Gonzalez**

P.O. NO.:

QUOTE NO.:

LAB USE ONLY:

TURNAROUND TIME

☐ SAME DAY ☐ 24 HR ☐ 48HR ☐ 3 DAYS ☒ STD

SPECIAL REQUIREMENTS (ADDITIONAL COSTS MAY APPLY)

☐ ADaPT REPORTING ☐ ARCHIVE SAMPLES UNTIL ___/___/___

SPECIAL INSTRUCTIONS

STD TAT
EDD : Dryclean
WACS # : ERIC_4752

REQUESTED ANALYSIS

LAB USE ONLY	SAMPLE ID	LOCATION/ DESCRIPTION	SAMPLING DATE	SAMPLING TIME	Matrix	#Cont	RSK-175
	MW051/GW657		01/29/18	1752	GW	3	X
	MW052/GW658		01/29/18	1842	GW	3	X

Relinquished by: (Signature)	Received by: (Signature)	Date:	Time:
Relinquished by: (Signature)	Received by: (Signature)	Date:	Time:
Relinquished by: (Signature)	Received by: (Signature)	Date:	Time:

SAMPLE RECEIPT CONFIRMATION SHEET

Client Information

SDG:	1855254	**Req:**	2116
Client:	GHD Tampa	**Project:**	Brian Moore
Level:	1	**Date Rec'd:**	1/31/2018 8:30:00 AM
Rec'd via:	courier		

Cooler Check

ID	Temp	# of samples	Security Tape Present	Security Tape Intact	Method of Receipt	Comments
	4	2	☐	☐		

Checked By: MD

Sample Verification

Loose Caps?	No	**All Samples on COC accounted For?**	Yes
Broken Containers?	No	**All Samples on COC?**	Yes
pH Verified?	No	**Written on Internal COC?**	No
pH Strip Lot #		**Sample Vol. Suff. For Analysis?**	Yes
Acid Preserved Samples Lot #		**Samples Rec'd W/I Hold Time?**	Yes
Base Preserved Samples Lot #		**Are All Samples to be Analyzed?**	Yes
Samples Received From	courier	**Correct Sample Containers?**	Yes
Soil Origin (Domestic/Foreign		**COC Comments written on COC?**	Yes
Site Location/Project on COC?	Yes	**Samplers Initials on COC?**	Yes
Client Project # on COC?	Yes	**Sample Date/Time Indicated?**	Yes
Project Mgr. Indicated on COC	Yes	**TAT Requested:**	STD
COC relinquished/Dated by Client?	Yes	**Client Requests Verbal Results?**	No
COC Received/Dated by JEL	Yes		
JEL to Conduct ALL Analyses?	No		

Subcontract Analysis

Parameter	Via	Lab Name	Comments

Jupiter Environmental Laboratories, Inc.
150 S. Old Dixie Highway
Jupiter, FL 33458
Phone: (561)575-0030
Fax: (561)575-4118
www.jupiterlabs.com
clientservices@jupiterlabs.com

May 14, 2018

Brian Moore
GHD Tampa
5904 Hampton Oaks Parkway
Suite F
Tampa, FL 33610

RE: LOG# 1856570
Project ID: McNatts Ehrlich 090113
COC# 1856570

Dear Brian Moore:

Enclosed are the analytical results for sample(s) received by the laboratory on Thursday, May 03, 2018. Results reported herein conform to the most current NELAC standards, where applicable, unless indicated by * in the body of the report. The enclosed Chain of Custody is a component of this package and should be retained with the package and incorporated therein.

Results for all solid matrices are reported in dry weight unless otherwise noted. Results for all liquid matrices are reported as received in the laboratory unless otherwise noted. Results relate only to the samples received. Should insufficient sample be provided to the laboratory to meet the method and NELAC Matrix Duplicate and Matrix Spike requirements, then the data will be analyzed, evaluated and reported using all other available quality control measures.

Samples are disposed of after 30 days of their receipt by the laboratory unless extended storage is requested in writing. The laboratory maintains the right to charge storage fees for archived samples. This report will be archived for 5 years after which time it will be destroyed without further notice, unless prior arrangements have been made.

Certain analyses are subcontracted to outside NELAC certified laboratories, please see the Project Summary section of this report for NELAC certification numbers of laboratories used. A Statement of Qualifiers is available upon request.

If you have any questions concerning this report, please feel free to contact me.

Sincerely,

John Heyman for
Kacia Baldwin
V.P. of Operations

FDOH# E86546

CERTIFICATE OF ANALYSIS

Jupiter Environmental Laboratories, Inc.
150 S. Old Dixie Highway
Jupiter, FL 33458
Phone: (561)575-0030
Fax: (561)575-4118

SAMPLE SUMMARY

Workorder: 1856570

Project ID: McNatts Ehrlich 090113

Lab ID	Sample ID	Matrix	Date Collected	Date Received
1856570001	MW051-GW659	Aqueous Liquid	4/30/2018 15:35	5/3/2018 08:15
1856570002	MW052-GW660	Aqueous Liquid	4/30/2018 16:17	5/3/2018 08:15

FDOH# E86546

CERTIFICATE OF ANALYSIS

TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING

ANALYTICAL REPORT

TestAmerica Laboratories, Inc.
TestAmerica Tampa
6712 Benjamin Road
Suite 100
Tampa, FL 33634
Tel: (813)885-7427

TestAmerica Job ID: 660-87038-1
Client Project/Site: McNatts Ehrlich

For:
Jupiter Environmental Labs
150 S.Old Dixie Highway
Jupiter, Florida 33458

Attn: Client Services

Authorized for release by:
5/7/2018 4:33:33 PM

Haukur Gudnason, Project Manager II
(813)280-8342
haukur.gudnason@testamericainc.com

Table of Contents

Sample Summary

Client: Jupiter Environmental Labs
Project/Site: McNatts Ehrlich

TestAmerica Job ID: 660-87038-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
660-87038-1	MW051/GW659	Water	04/30/18 15:35	05/02/18 12:25
660-87038-2	MW052/GW660	Water	04/30/18 16:17	05/02/18 12:25

Case Narrative

Client: Jupiter Environmental Labs
Project/Site: McNatts Ehrlich

TestAmerica Job ID: 660-87038-1

Job ID: 660-87038-1

Laboratory: TestAmerica Tampa

Narrative

Receipt
The samples were received on 5/2/2018 12:25 PM; the samples arrived in good condition, properly preserved and, where required, on ice. The temperature of the cooler at receipt was 4.8º C.

GC VOA
Method(s) RSK-175: The following volatile samples were analyzed with significant headspace in the sample container(s): (680-151833-G-5), (680-151833-G-5 MS) and (680-151833-G-5 MSD). Significant headspace is defined as a bubble greater than 6 mm in diameter.

No additional analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

Definitions/Glossary

Client: Jupiter Environmental Labs
Project/Site: McNatts Ehrlich

TestAmerica Job ID: 660-87038-1

Qualifiers

GC VOA

Qualifier	Qualifier Description
U	Indicates that the compound was analyzed for but not detected.

Glossary

Abbreviation	These commonly used abbreviations may or may not be present in this report.
¤	Listed under the "D" column to designate that the result is reported on a dry weight basis
%R	Percent Recovery
CFL	Contains Free Liquid
CNF	Contains No Free Liquid
DER	Duplicate Error Ratio (normalized absolute difference)
Dil Fac	Dilution Factor
DL	Detection Limit (DoD/DOE)
DL, RA, RE, IN	Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample
DLC	Decision Level Concentration (Radiochemistry)
EDL	Estimated Detection Limit (Dioxin)
LOD	Limit of Detection (DoD/DOE)
LOQ	Limit of Quantitation (DoD/DOE)
MDA	Minimum Detectable Activity (Radiochemistry)
MDC	Minimum Detectable Concentration (Radiochemistry)
MDL	Method Detection Limit
ML	Minimum Level (Dioxin)
NC	Not Calculated
ND	Not Detected at the reporting limit (or MDL or EDL if shown)
PQL	Practical Quantitation Limit
QC	Quality Control
RER	Relative Error Ratio (Radiochemistry)
RL	Reporting Limit or Requested Limit (Radiochemistry)
RPD	Relative Percent Difference, a measure of the relative difference between two points
TEF	Toxicity Equivalent Factor (Dioxin)
TEQ	Toxicity Equivalent Quotient (Dioxin)

Detection Summary

Client: Jupiter Environmental Labs
Project/Site: McNatts Ehrlich

TestAmerica Job ID: 660-87038-1

Client Sample ID: MW051/GW659 — Lab Sample ID: 660-87038-1

Analyte	Result	Qualifier	PQL	MDL	Unit	Dil Fac	D	Method	Prep Type
Ethane	8.6		1.1	0.55	ug/L	1		RSK-175	Total/NA
Ethylene	480		1.0	0.50	ug/L	1		RSK-175	Total/NA
Methane (TCD)	11000		390	39	ug/L	1		RSK-175	Total/NA

Client Sample ID: MW052/GW660 — Lab Sample ID: 660-87038-2

Analyte	Result	Qualifier	PQL	MDL	Unit	Dil Fac	D	Method	Prep Type
Ethylene	5.0		1.0	0.50	ug/L	1		RSK-175	Total/NA
Methane (TCD)	14000		390	39	ug/L	1		RSK-175	Total/NA

This Detection Summary does not include radiochemical test results.

Client Sample Results

Client: Jupiter Environmental Labs
Project/Site: McNatts Ehrlich

TestAmerica Job ID: 660-87038-1

Client Sample ID: MW051/GW659
Date Collected: 04/30/18 15:35
Date Received: 05/02/18 12:25

Lab Sample ID: 660-87038-1
Matrix: Water

Method: RSK-175 - Dissolved Gases (GC)

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Ethane	8.6		1.1	0.55	ug/L			05/07/18 11:21	1
Ethylene	480		1.0	0.50	ug/L			05/07/18 11:21	1
Methane (TCD)	11000		390	39	ug/L			05/07/18 11:21	1

Client Sample Results

Client: Jupiter Environmental Labs
Project/Site: McNatts Ehrlich

TestAmerica Job ID: 660-87038-1

Client Sample ID: MW052/GW660
Date Collected: 04/30/18 16:17
Date Received: 05/02/18 12:25

Lab Sample ID: 660-87038-2
Matrix: Water

Method: RSK-175 - Dissolved Gases (GC)

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Ethane	0.55	U	1.1	0.55	ug/L			05/07/18 11:34	1
Ethylene	**5.0**		1.0	0.50	ug/L			05/07/18 11:34	1
Methane (TCD)	**14000**		390	39	ug/L			05/07/18 11:34	1

Method: RSK-175 - Dissolved Gases (GC)

Lab Sample ID: MB 680-522891/8
Matrix: Water
Analysis Batch: 522891

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Ethane	0.55	U	1.1	0.55	ug/L			05/07/18 10:53	1
Ethylene	0.50	U	1.0	0.50	ug/L			05/07/18 10:53	1
Methane	0.29	U	0.58	0.29	ug/L			05/07/18 10:53	1
Methane (TCD)	39	U	390	39	ug/L			05/07/18 10:53	1

Lab Sample ID: LCS 680-522891/3
Matrix: Water
Analysis Batch: 522891

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Ethane	288	261		ug/L		91	75 - 125
Ethylene	269	238		ug/L		88	75 - 125
Methane	154	145		ug/L		94	75 - 125

Lab Sample ID: LCS 680-522891/6
Matrix: Water
Analysis Batch: 522891

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Methane (TCD)	1920	2080		ug/L		108	75 - 125

Lab Sample ID: LCSD 680-522891/4
Matrix: Water
Analysis Batch: 522891

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Ethane	288	256		ug/L		89	75 - 125	2	30
Ethylene	269	235		ug/L		87	75 - 125	1	30
Methane	154	142		ug/L		92	75 - 125	2	30

Lab Sample ID: LCSD 680-522891/7
Matrix: Water
Analysis Batch: 522891

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Methane (TCD)	1920	2100		ug/L		109	75 - 125	1	30

QC Association Summary

Client: Jupiter Environmental Labs
Project/Site: McNatts Ehrlich

TestAmerica Job ID: 660-87038-1

GC VOA

Analysis Batch: 522891

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
660-87038-1	MW051/GW659	Total/NA	Water	RSK-175	
660-87038-2	MW052/GW660	Total/NA	Water	RSK-175	
MB 680-522891/8	Method Blank	Total/NA	Water	RSK-175	
LCS 680-522891/3	Lab Control Sample	Total/NA	Water	RSK-175	
LCS 680-522891/6	Lab Control Sample	Total/NA	Water	RSK-175	
LCSD 680-522891/4	Lab Control Sample Dup	Total/NA	Water	RSK-175	
LCSD 680-522891/7	Lab Control Sample Dup	Total/NA	Water	RSK-175	

Lab Chronicle

Client: Jupiter Environmental Labs
Project/Site: McNatts Ehrlich

TestAmerica Job ID: 660-87038-1

Client Sample ID: MW051/GW659

Lab Sample ID: 660-87038-1

Date Collected: 04/30/18 15:35

Matrix: Water

Date Received: 05/02/18 12:25

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	RSK-175		1	17 mL	17 mL	522891	05/07/18 11:21	KAB	TAL SAV

Client Sample ID: MW052/GW660

Lab Sample ID: 660-87038-2

Date Collected: 04/30/18 16:17

Matrix: Water

Date Received: 05/02/18 12:25

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	RSK-175		1	17 mL	17 mL	522891	05/07/18 11:34	KAB	TAL SAV

Laboratory References:

TAL SAV = TestAmerica Savannah, 5102 LaRoche Avenue, Savannah, GA 31404, TEL (912)354-7858

Method Summary

Client: Jupiter Environmental Labs
Project/Site: McNatts Ehrlich

TestAmerica Job ID: 660-87038-1

Method	Method Description	Protocol	Laboratory
RSK-175	Dissolved Gases (GC)	RSK	TAL SAV

Protocol References:

RSK = Sample Prep And Calculations For Dissolved Gas Analysis In Water Samples Using A GC Headspace Equilibration Technique, RSKSOP-175, Rev. 0, 8/11/94, USEPA Research Lab

Laboratory References:

TAL SAV = TestAmerica Savannah, 5102 LaRoche Avenue, Savannah, GA 31404, TEL (912)354-7858

Accreditation/Certification Summary

Client: Jupiter Environmental Labs
Project/Site: McNatts Ehrlich

TestAmerica Job ID: 660-87038-1

Laboratory: TestAmerica Tampa

The accreditations/certifications listed below are applicable to this report.

Authority	Program	EPA Region	Identification Number	Expiration Date
Florida	NELAP	4	E84282	06-30-18

Laboratory: TestAmerica Savannah

The accreditations/certifications listed below are applicable to this report.

Authority	Program	EPA Region	Identification Number	Expiration Date
Florida	NELAP	4	E87052	06-30-18

Jupiter

150 S. Old Dixie Highway
Jupiter, FL 33458
561-575-0030

Sub Lab COC

CHAIN OF CUSTODY RECORD

DATE:

PAGE: 1 OF 1

LABORATORY CLIENT: Jupiter Labs Tampa
ADDRESS: 2608 South 86th Street Suite B
CITY: Tampa
TEL: 561-262-8735 E-MAIL: clientservices@jupiterlabs.com

CLIENT PROJECT NAME / NUMBER: McNatts Ehrlich
PROJECT CONTACT: John Heyman
SAMPLER(S): (SIGNATURE)

P.O. NO.:
QUOTE NO.:
LAB USE ONLY: [ ][ ]-[ ][ ][ ][ ]

TURNAROUND TIME
[ ] SAME DAY [ ] 24 HR [ ] 48HR [ ] 3 DAYS [X] STD

SPECIAL REQUIREMENTS (ADDITIONAL COSTS MAY APPLY)
[X] ADaPT REPORTING [ ] ARCHIVE SAMPLES UNTIL ___/___/___

SPECIAL INSTRUCTIONS
STD TAT
WACS #ERIC_4752
Per client use sample ID # from COC
Dry clean EDD

REQUESTED ANALYSIS

LAB USE ONLY	SAMPLE ID	LOCATION/ DESCRIPTION	SAMPLING DATE	SAMPLING TIME	Matrix	#Cont	Rsk175 MEE
	MW051/GW659		04/30/18	1535	GW	3	X
	MW052/GW660		04/30/18	1617	GW	3	X

660-87038 Chain of Custody
Loc: 660
87038

Relinquished by: (Signature)	Received by: (Signature)	Date: 5/2/18	Time: 1225
Relinquished by: (Signature)	Received by: (Signature)	Date:	Time:
Relinquished by: (Signature)	Received by: (Signature)	Date:	Time:

4.6/4.8 CV-09

TestAmerica Tampa
6712 Benjamin Road Suite 100
Tampa, FL 33634
Phone (813) 885-7427 Fax (813) 885-7049

Chain of Custody Record

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

5/7/2018

Client Information (Sub Contract Lab)	Sampler:	Lab PM: Gudnason, Haukur M	Carrier Tracking No(s):	COC No: 660-104734.1
Client Contact: Shipping/Receiving	Phone:	E-Mail: haukur.gudnason@testamericainc.com	State of Origin: Florida	Page: Page 1 of 1
Company: TestAmerica Laboratories, Inc.		Accreditations Required (See note): NELAP - Florida		Job #: 660-87038-1
Address: 5102 LaRoche Avenue,	Due Date Requested: 5/7/2018			
City: Savannah	TAT Requested (days):			
State, Zip: GA, 31404				
Phone: 912-354-7858(Tel) 912-352-0165(Fax)	PO #:			
Email:	WO #:			
Project Name: Jupiter FL work-Add job name from COC	Project #: 66010014			
Site:	SSOW#:			

Analysis Requested

Preservation Codes:

A - HCL	M - Hexane
B - NaOH	N - None
C - Zn Acetate	O - AsNaO2
D - Nitric Acid	P - Na2O4S
E - NaHSO4	Q - Na2SO3
F - MeOH	R - Na2S2O3
G - Amchlor	S - H2SO4
H - Ascorbic Acid	T - TSP Dodecahydrate
I - Ice	U - Acetone
J - DI Water	V - MCAA
K - EDTA	W - pH 4-5
L - EDA	Z - other (specify)

Other:

Sample Identification - Client ID (Lab ID)	Sample Date	Sample Time	Sample Type (C=comp, G=grab)	Matrix (W=water, S=solid, O=waste/oil, BT=Tissue, A=Air)	Field Filtered Sample (Yes or No)	Perform MS/MSD (Yes or No)	RSK_175/ Methane, Ethane, & Ethene	Total Number of containers	Special Instructions/Note:
			Preservation Code:						
MW051/GW659 (660-87038-1)	4/30/18	15:35 Eastern		Water			X	3	
MW052/GW660 (660-87038-2)	4/30/18	16:17 Eastern		Water			X	3	

Note: Since laboratory accreditations are subject to change, TestAmerica Laboratories, Inc. places the ownership of method, analyte & accreditation compliance upon out subcontract laboratories. This sample shipment is forwarded under chain-of-custody. If the laboratory does not currently maintain accreditation in the State of Origin listed above for analysis/tests/matrix being analyzed, the samples must be shipped back to the TestAmerica laboratory or other instructions will be provided. Any changes to accreditation status should be brought to TestAmerica Laboratories, Inc. attention immediately. If all requested accreditations are current to date, return the signed Chain of Custody attesting to said complicance to TestAmerica Laboratories, Inc.

Possible Hazard Identification	Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)
Unconfirmed	☐ Return To Client ☐ Disposal By Lab ☐ Archive For _____ Months
Deliverable Requested: I, II, III, IV, Other (specify) Primary Deliverable Rank: 2	Special Instructions/QC Requirements:

Empty Kit Relinquished by:	Date:	Time:	Method of Shipment:

Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company
Jeremy Wh	5-2-2018 17:00	TestAmerica			
Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company
Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company

Custody Seals Intact: Δ Yes Δ No	Custody Seal No.:	Cooler Temperature(s) °C and Other Remarks:

Ver: 09/20/2016

Login Sample Receipt Checklist

Client: Jupiter Environmental Labs

Job Number: 660-87038-1

Login Number: 87038
List Number: 1
Creator: Davis, Jeremy M

List Source: TestAmerica Tampa

Question	Answer	Comment
Radioactivity wasn't checked or is </= background as measured by a survey meter.	N/A	
The cooler's custody seal, if present, is intact.	True	
Sample custody seals, if present, are intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time (excluding tests with immediate HTs)	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	N/A	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").	True	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	

Login Sample Receipt Checklist

Client: Jupiter Environmental Labs

Job Number: 660-87038-1

Login Number: 87038
List Number: 2
Creator: Jones, Tyre D

List Source: TestAmerica Savannah
List Creation: 05/03/18 09:00 AM

Question	Answer	Comment
Radioactivity wasn't checked or is </= background as measured by a survey meter.	N/A	
The cooler's custody seal, if present, is intact.	True	
Sample custody seals, if present, are intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time (excluding tests with immediate HTs)	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	True	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").	True	
Multiphasic samples are not present.	N/A	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	

Jupiter
Environmental Laboratories, Inc.

www.jupiterlabs.com
150 S. Old Dixie Highway, Jupiter, FL 33458
(561) 575-0030 • (888) 287-3218 • clientservices@jupiterlabs.com

J.E.L. Log # 1856570
P.O. #
Quote #

Company Name GHD ~~[illegible]~~
Address ~~[illegible]~~ 5904 Hampton Oaks Parkway
City Tampa State FL Zip 33610
Sampling Site Address Tampa, FL
Attn: Brian Moore Email Brian.Moore@ghd.com
Project Name McNatts Ehrlich Project # 090113
Sampler Name/Signature J Tison / [signature]

LAB ANALYSIS

Parameters: Diss gasses (methane, ethane, ethene)

#	Sample Label (Client ID)	Collected Date	Collected Time	Matrix Code*	# of Cont	Pres Codes	Diss gasses (methane, ethane, ethene)	Field Filtered (Y/N)
1	MW051/GW659	4/30/18	1535	GW	3		✓	
2	MW052/GW660	↓	1617	↓	↓		✓	
3								
4								
5								
6								
7								
8								
9								
0								

Requested Turnaround Time
Note: Rush requests subject to acceptance by the laboratory
X Standard
___ Expedited
Due ___/___/___

RSK 175 Subbed to Test America CM 05/01/18

Comments
WACS #: ERIC_4752
WACS Name!
McNatts Cleaners - Former Ehrlich Road Cleaners
Please use sample label on COC rather than on vials.

Matrix Codes*
S Soil/Solid Sediment; SW Surface Water; GW Ground Water; SL Sludge; WW Waste Water; O Other (Please Specify); DW Drinking Water

Pres Codes
A- none; I- Ice; B- HNO_3; O- Other; C- H_2SO_4; M- MeOH; D- NaOH; N- $Na_2S_2O_3$; E- HCl; Z- ZnAc

Relinquished by	Date	Time	Received by	Date	Time
[signature]	5/1/18	0740	Celeste Meyer	5/1/18	15:00
Courier	5/3/18	0815	Courier [signature]	5/3/18	0815

QA/QC level with report
None ___ 1 ___ (2) ___ 3 ___ See price guide for applicable fees

FDEP Dry Cleaning ☒ FDEP UST Pre-Approval ☐
SFWMD ☐ ADaPT ☒ DOT ☐

Temp Control: 3.8 °C

856570

Jupiter
Environmental Laboratories, Inc.

150 S. Old Dixie Highway
Jupiter, FL 33458
561-575-0030

Sub Lab COC

CHAIN OF CUSTODY RECORD

DATE:
PAGE: 1 OF 1

LABORATORY CLIENT: **Jupiter Labs Tampa**
ADDRESS: **2608 South 86th Street Suite B**
CITY: **Tampa**
TEL: **561-262-8735**
E-MAIL: clientservices@jupiterlabs.com

CLIENT PROJECT NAME / NUMBER: **McNatts Ehrlich**
PROJECT CONTACT: **John Heyman**
SAMPLER(S): (SIGNATURE)
P.O. NO.:
QUOTE NO.:
LAB USE ONLY

TURNAROUND TIME
☐ SAME DAY ☐ 24 HR ☐ 48HR ☐ 3 DAYS ☒ STD

SPECIAL REQUIREMENTS (ADDITIONAL COSTS MAY APPLY)
☒ ADaPT REPORTING ☐ ARCHIVE SAMPLES UNTIL ___/___/___

SPECIAL INSTRUCTIONS
STD TAT
WACS #ERIC_4752
Per client use sample ID # from COC
Dry clean EDD

REQUESTED ANALYSIS

LAB USE ONLY	SAMPLE ID	LOCATION/ DESCRIPTION	SAMPLING DATE	SAMPLING TIME	Matrix	#Cont	Rsk175 MEE
	MW051/GW659		04/30/18	1535	GW	3	X
	MW052/GW660		04/30/18	1617	GW	3	X

Relinquished by: (Signature)	Received by: (Signature)	Date: 5/2/18	Time: 1225
Relinquished by: (Signature)	Received by: (Signature)	Date:	Time:
Relinquished by: (Signature)	Received by: (Signature)	Date:	Time:

SAMPLE RECEIPT CONFIRMATION SHEET

Client Information

SDG:	1856570	**Req:**	2116
Client:	GHD Tampa	**Project:**	Brian Moore
Level:	1	**Date Rec'd:**	5/3/2018 8:15:00 AM
Rec'd via:	courier		

Cooler Check

ID	Temp	# of samples	Security Tape Present	Security Tape Intact	Method of Receipt	Comments
	3.8	2	☐	☐		

Checked By: MD

Sample Verification

Loose Caps?	No	**All Samples on COC accounted For?**	Yes
Broken Containers?	No	**All Samples on COC?**	Yes
pH Verified?	No	**Written on Internal COC?**	No
pH Strip Lot #		**Sample Vol. Suff. For Analysis?**	Yes
Acid Preserved Samples Lot #		**Samples Rec'd W/I Hold Time?**	Yes
Base Preserved Samples Lot #		**Are All Samples to be Analyzed?**	Yes
Samples Received From	courier	**Correct Sample Containers?**	Yes
Soil Origin (Domestic/Foreign		**COC Comments written on COC?**	Yes
Site Location/Project on COC?	Yes	**Samplers Initials on COC?**	Yes
Client Project # on COC?	Yes	**Sample Date/Time Indicated?**	Yes
Project Mgr. Indicated on COC	Yes	**TAT Requested:**	STD
COC relinquished/Dated by Client?	Yes	**Client Requests Verbal Results?**	No
COC Received/Dated by JEL	Yes		
JEL to Conduct ALL Analyses?	No		

Subcontract Analysis

Parameter	Via	Lab Name	Comments
dissolved gasses	Other	TestAmerica	Sub out dissolved gasses

Jupiter Environmental Laboratories, Inc.
150 S. Old Dixie Highway
Jupiter, FL 33458
Phone: (561)575-0030
Fax: (561)575-4118
www.jupiterlabs.com
clientservices@jupiterlabs.com

July 5, 2018

Brian Moore
GHD Tampa
5904 Hampton Oaks Parkway
Suite F
Tampa, FL 33610

RE: LOG# 1857321
Project ID: McNatts 090113
COC# 1857321

Dear Brian Moore:

Enclosed are the analytical results for sample(s) received by the laboratory on Thursday, June 21, 2018. Results reported herein conform to the most current NELAC standards, where applicable, unless indicated by * in the body of the report. The enclosed Chain of Custody is a component of this package and should be retained with the package and incorporated therein.

Results for all solid matrices are reported in dry weight unless otherwise noted. Results for all liquid matrices are reported as received in the laboratory unless otherwise noted. Results relate only to the samples received. Should insufficient sample be provided to the laboratory to meet the method and NELAC Matrix Duplicate and Matrix Spike requirements, then the data will be analyzed, evaluated and reported using all other available quality control measures.

Samples are disposed of after 30 days of their receipt by the laboratory unless extended storage is requested in writing. The laboratory maintains the right to charge storage fees for archived samples. This report will be archived for 5 years after which time it will be destroyed without further notice, unless prior arrangements have been made.

Certain analyses are subcontracted to outside NELAC certified laboratories, please see the Project Summary section of this report for NELAC certification numbers of laboratories used. A Statement of Qualifiers is available upon request.

If you have any questions concerning this report, please feel free to contact me.

Sincerely,

John Heyman for
Kacia Baldwin
V.P. of Operations

FDOH# E86546

CERTIFICATE OF ANALYSIS

Jupiter Environmental Laboratories, Inc.
150 S. Old Dixie Highway
Jupiter, FL 33458
Phone: (561)575-0030
Fax: (561)575-4118

SAMPLE ANALYTE COUNT

Workorder: 1857321

Project ID: McNatts 090113

Lab ID	Sample ID	Method	Analytes Reported
1857321001	MW045/GW661	Calc.	1
		EPA 200.8 (Total)	1
		EPA 350.1 (non-distilled)	1
		EPA 8260C	40
		FL-PRO (GC)	3
		SM 2540C	1
		SM 4500-NO2 B	1
		SM 4500-NO3 H	1
		SM 5310B	1
1857321002	MW033/GW662	EPA 8260C	40
1857321003	MW001/GW668	EPA 8260C	40
1857321004	MW002/GW667	EPA 8260C	40
1857321005	MW019/GW673	EPA 8260C	40
1857321006	MW025/GW664	Calc.	1
		EPA 200.8 (Total)	1
		EPA 350.1 (non-distilled)	1
		EPA 8260C	40
		FL-PRO (GC)	3
		SM 2540C	1
		SM 4500-NO2 B	1
		SM 4500-NO3 H	1
		SM 5310B	1
1857321007	MW030/GW674	EPA 8260C	40
1857321008	MW036/GW669	EPA 8260C	40
1857321009	MW039/GW672	Calc.	1
		EPA 200.8 (Total)	1
		EPA 350.1 (non-distilled)	1
		EPA 8260C	40
		FL-PRO (GC)	3
		SM 2540C	1
		SM 4500-NO2 B	1
		SM 4500-NO3 H	1
		SM 5310B	1
1857321010	MW040/GW671	Calc.	1

Jupiter Environmental Laboratories, Inc.
150 S. Old Dixie Highway
Jupiter, FL 33458
Phone: (561)575-0030
Fax: (561)575-4118

SAMPLE ANALYTE COUNT

Workorder: 1857321

Project ID: McNatts 090113

Lab ID	Sample ID	Method	Analytes Reported
1857321010	MW040/GW671	EPA 200.8 (Total)	1
		EPA 350.1 (non-distilled)	1
		EPA 8260C	40
		FL-PRO (GC)	3
		SM 2540C	1
		SM 4500-NO2 B	1
		SM 4500-NO3 H	1
		SM 5310B	1
1857321011	MW042/GW666	Calc.	1
		EPA 200.8 (Total)	1
		EPA 350.1 (non-distilled)	1
		EPA 8260C	40
		FL-PRO (GC)	3
		SM 2540C	1
		SM 4500-NO2 B	1
		SM 4500-NO3 H	1
		SM 5310B	1
1857321012	MW043/GW663	Calc.	1
		EPA 200.8 (Total)	1
		EPA 350.1 (non-distilled)	1
		EPA 8260C	40
		FL-PRO (GC)	3
		SM 2540C	1
		SM 4500-NO2 B	1
		SM 4500-NO3 H	1
		SM 5310B	1
1857321013	MW051/GW665	Calc.	1
		EPA 200.8 (Total)	1
		EPA 350.1 (non-distilled)	1
		EPA 8260C	40
		FL-PRO (GC)	3
		SM 2540C	1
		SM 4500-NO2 B	1
		SM 4500-NO3 H	1

FDOH# E86546

CERTIFICATE OF ANALYSIS

Jupiter Environmental Laboratories, Inc.
150 S. Old Dixie Highway
Jupiter, FL 33458
Phone: (561)575-0030
Fax: (561)575-4118

SAMPLE ANALYTE COUNT

Workorder: 1857321

Project ID: McNatts 090113

Lab ID	Sample ID	Method	Analytes Reported
1857321013	MW051/GW665	SM 5310B	1
1857321014	MW052/GW670	Calc.	1
		EPA 200.8 (Total)	1
		EPA 350.1 (non-distilled)	1
		EPA 8260C	40
		FL-PRO (GC)	3
		SM 2540C	1
		SM 4500-NO2 B	1
		SM 4500-NO3 H	1
		SM 5310B	1
1857321015	MW053/GW675	EPA 8260C	40

Jupiter Environmental Laboratories, Inc.
150 S. Old Dixie Highway
Jupiter, FL 33458
Phone: (561)575-0030
Fax: (561)575-4118

SAMPLE SUMMARY

Workorder: 1857321

Project ID: McNatts 090113

Lab ID	Sample ID	Matrix	Date Collected	Date Received
1857321001	MW045/GW661	Aqueous Liquid	6/20/2018 08:18	6/21/2018 08:00
1857321002	MW033/GW662	Aqueous Liquid	6/20/2018 09:04	6/21/2018 08:00
1857321003	MW001/GW668	Aqueous Liquid	6/20/2018 15:48	6/21/2018 08:00
1857321004	MW002/GW667	Aqueous Liquid	6/20/2018 15:11	6/21/2018 08:00
1857321005	MW019/GW673	Aqueous Liquid	6/20/2018 11:40	6/21/2018 08:00
1857321006	MW025/GW664	Aqueous Liquid	6/20/2018 10:35	6/21/2018 08:00
1857321007	MW030/GW674	Aqueous Liquid	6/20/2018 11:02	6/21/2018 08:00
1857321008	MW036/GW669	Aqueous Liquid	6/20/2018 16:10	6/21/2018 08:00
1857321009	MW039/GW672	Aqueous Liquid	6/20/2018 12:15	6/21/2018 08:00
1857321010	MW040/GW671	Aqueous Liquid	6/20/2018 15:00	6/21/2018 08:00
1857321011	MW042/GW666	Aqueous Liquid	6/20/2018 13:47	6/21/2018 08:00
1857321012	MW043/GW663	Aqueous Liquid	6/20/2018 09:37	6/21/2018 08:00
1857321013	MW051/GW665	Aqueous Liquid	6/20/2018 12:17	6/21/2018 08:00
1857321014	MW052/GW670	Aqueous Liquid	6/20/2018 13:51	6/21/2018 08:00
1857321015	MW053/GW675	Aqueous Liquid	6/20/2018 10:08	6/21/2018 08:00

FDOH# E86546

CERTIFICATE OF ANALYSIS

Jupiter Environmental Laboratories, Inc.
150 S. Old Dixie Highway
Jupiter, FL 33458
Phone: (561)575-0030
Fax: (561)575-4118

ANALYTICAL RESULTS

Workorder: 1857321
Project ID: McNatts 090113

Lab ID: **1857321001** Date Received: 6/21/2018 08:00 Matrix: Aqueous Liquid
Sample ID: **MW045/GW661** Date Collected: 6/20/2018 08:18

Parameters	Results	Units	PQL	MDL	DF	Prepared	By	Analyzed	By	Qual
Analysis Desc: EPA 350.1 Ammonia (W)						Preparation Method: Wet Chem Prep Analytical Method: EPA 350.1 (non-distilled)				
Ammonia (N)	0.41	mg/L	0.10	0.0500	1	6/28/2018 08:33	CF	7/2/2018 13:59	CF	
Volatiles by GC/MS										
Analysis Desc: EPA 8010 Scan by 8260C (W)						Preparation Method: EPA 5030B Analytical Method: EPA 8260C				
1,1,1,2-Tetrachloroethane	U	ug/L	1.00	0.400	1	6/24/2018 08:19	JSJ	6/24/2018 15:42	JSJ	
1,1,1-Trichloroethane	U	ug/L	1.00	0.400	1	6/24/2018 08:19	JSJ	6/24/2018 15:42	JSJ	
1,1,2,2-Tetrachloroethane	U	ug/L	1.00	0.200	1	6/24/2018 08:19	JSJ	6/24/2018 15:42	JSJ	
1,1,2-Trichloroethane	U	ug/L	1.00	0.400	1	6/24/2018 08:19	JSJ	6/24/2018 15:42	JSJ	
1,1-Dichloroethane	U	ug/L	1.00	0.400	1	6/24/2018 08:19	JSJ	6/24/2018 15:42	JSJ	
1,1-Dichloroethene	U	ug/L	1.00	0.400	1	6/24/2018 08:19	JSJ	6/24/2018 15:42	JSJ	
1,1-Dichloropropene	U	ug/L	1.00	0.400	1	6/24/2018 08:19	JSJ	6/24/2018 15:42	JSJ	
1,2-DBCP	U	ug/L	1.00	0.550	1	6/24/2018 08:19	JSJ	6/24/2018 15:42	JSJ	
1,2-Dibromoethane (EDB)	U	ug/L	1.00	0.400	1	6/24/2018 08:19	JSJ	6/24/2018 15:42	JSJ	
1,2-Dichlorobenzene	U	ug/L	1.00	0.400	1	6/24/2018 08:19	JSJ	6/24/2018 15:42	JSJ	
1,2-Dichloroethane	U	ug/L	1.00	0.400	1	6/24/2018 08:19	JSJ	6/24/2018 15:42	JSJ	
1,2-Dichloropropane	U	ug/L	1.00	0.400	1	6/24/2018 08:19	JSJ	6/24/2018 15:42	JSJ	
1,3-Dichlorobenzene	U	ug/L	1.00	0.400	1	6/24/2018 08:19	JSJ	6/24/2018 15:42	JSJ	
1,3-Dichloropropane	U	ug/L	1.00	0.400	1	6/24/2018 08:19	JSJ	6/24/2018 15:42	JSJ	
1,4-Dichlorobenzene	U	ug/L	1.00	0.400	1	6/24/2018 08:19	JSJ	6/24/2018 15:42	JSJ	
2,2-Dichloropropane	U	ug/L	1.00	0.400	1	6/24/2018 08:19	JSJ	6/24/2018 15:42	JSJ	
Bromochloromethane	U	ug/L	1.00	0.400	1	6/24/2018 08:19	JSJ	6/24/2018 15:42	JSJ	
Bromodichloromethane	U	ug/L	1.00	0.400	1	6/24/2018 08:19	JSJ	6/24/2018 15:42	JSJ	
Bromoform	U	ug/L	1.00	0.550	1	6/24/2018 08:19	JSJ	6/24/2018 15:42	JSJ	
Bromomethane	U	ug/L	6.00	4.00	1	6/24/2018 08:19	JSJ	6/24/2018 15:42	JSJ	
Carbon tetrachloride	U	ug/L	1.00	0.400	1	6/24/2018 08:19	JSJ	6/24/2018 15:42	JSJ	
Chlorobenzene	U	ug/L	1.00	0.400	1	6/24/2018 08:19	JSJ	6/24/2018 15:42	JSJ	
Chloroethane	U	ug/L	1.00	0.400	1	6/24/2018 08:19	JSJ	6/24/2018 15:42	JSJ	
Chloroform	U	ug/L	1.00	0.400	1	6/24/2018 08:19	JSJ	6/24/2018 15:42	JSJ	
Chloromethane	U	ug/L	5.00	2.50	1	6/24/2018 08:19	JSJ	6/24/2018 15:42	JSJ	
Dibromochloromethane	U	ug/L	1.00	0.400	1	6/24/2018 08:19	JSJ	6/24/2018 15:42	JSJ	
Dibromomethane	U	ug/L	1.00	0.400	1	6/24/2018 08:19	JSJ	6/24/2018 15:42	JSJ	
Dichlorodifluoromethane	U	ug/L	1.00	0.400	1	6/24/2018 08:19	JSJ	6/24/2018 15:42	JSJ	
cis-1,3-Dichloropropene	U	ug/L	1.00	0.400	1	6/24/2018 08:19	JSJ	6/24/2018 15:42	JSJ	
Methylene chloride	U	ug/L	4.00	2.00	1	6/24/2018 08:19	JSJ	6/24/2018 15:42	JSJ	
Tetrachloroethene	4.74	ug/L	1.00	0.400	1	6/24/2018 08:19	JSJ	6/24/2018 15:42	JSJ	
Trichloroethene	1.09	ug/L	1.00	0.400	1	6/24/2018 08:19	JSJ	6/24/2018 15:42	JSJ	
Trichlorofluoromethane	U	ug/L	1.00	0.400	1	6/24/2018 08:19	JSJ	6/24/2018 15:42	JSJ	

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ANALYTICAL RESULTS

Workorder: 1857321
Project ID: McNatts 090113

Lab ID: **1857321001** Date Received: 6/21/2018 08:00 Matrix: Aqueous Liquid
Sample ID: **MW045/GW661** Date Collected: 6/20/2018 08:18

Parameters	Results	Units	PQL	MDL	DF	Prepared	By	Analyzed	By	Qual
Vinyl chloride	U	ug/L	1.00	0.400	1	6/24/2018 08:19	JSJ	6/24/2018 15:42	JSJ	
cis-1,2-Dichloroethene	2.28	ug/L	1.00	0.400	1	6/24/2018 08:19	JSJ	6/24/2018 15:42	JSJ	
trans-1,2-Dichloroethene	U	ug/L	1.00	0.400	1	6/24/2018 08:19	JSJ	6/24/2018 15:42	JSJ	
trans-1,3-Dichloropropene	U	ug/L	1.00	0.400	1	6/24/2018 08:19	JSJ	6/24/2018 15:42	JSJ	
Dibromofluoromethane (S)	106	%	70-130		1	6/24/2018 08:19	JSJ	6/24/2018 15:42	JSJ	
Toluene d8 (S)	109	%	70-130		1	6/24/2018 08:19	JSJ	6/24/2018 15:42	JSJ	
4-Bromofluorobenzene (S)	101	%	70-130		1	6/24/2018 08:19	JSJ	6/24/2018 15:42	JSJ	
Analysis Desc: 4500NO3-H Nitrate+Nitrite (W)						Preparation Method: Wet Chem Prep Analytical Method: SM 4500-NO3 H				
Nitrate-Nitrite (N)	2.5	mg/L	0.80	0.400	10	6/25/2018 09:12	CF	6/25/2018 10:34	SW	
Analysis Desc: 4500NO2-B Nitrite (W)						Preparation Method: Wet Chem Prep Analytical Method: SM 4500-NO2 B				
Nitrite (N)	0.059i	mg/L	0.080	0.0400	1	6/25/2018 15:14	CF	6/25/2018 16:17	SW	Q1
Analysis Desc: SM 5310B (W)						Preparation Method: Wet Chem Prep Analytical Method: SM 5310B				
TOC	15.1	mg/L	1.00	0.694	1	6/28/2018 08:51	CF	6/28/2018 09:08	CF	J4h
Analysis Desc: Nitrate (Calc.) (W)						Analytical Method: Calc.				
Nitrate (N)	2.4	mg/L	0.80	0.400	1			6/29/2018 16:58	KB	
Analysis Desc: TDS by 2540C [REF] (W)						Analytical Method: SM 2540C				
Total Dissolved Solids	207	mg/L	40.0	10.0	1			6/27/2018 11:00	MD	
Semivolatiles by GC										
Analysis Desc: Florida PRO by GC (W)						Preparation Method: EPA 3510C Analytical Method: FL-PRO (GC)				
Florida Pro Total	U	mg/L	0.150	0.075	1	6/21/2018 13:45	BFM	6/21/2018 19:13	BFM	
o-Terphenyl (S)	80	%	50-150		1	6/21/2018 13:45	BFM	6/21/2018 19:13	BFM	
n-Triacontane-d62 (S)	89	%	50-150		1	6/21/2018 13:45	BFM	6/21/2018 19:13	BFM	
Analysis Desc: EPA 200.8 Metals (W)						Preparation Method: EPA 200.2 mod. Analytical Method: EPA 200.8 (Total)				
Sodium	4.2	mg/L	0.050	0.013	10	6/21/2018 08:48	ZS	6/21/2018 13:31	ZS	

FDOH# E86546

CERTIFICATE OF ANALYSIS

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ANALYTICAL RESULTS

Workorder: 1857321

Project ID: McNatts 090113

Lab ID: **1857321002** Date Received: 6/21/2018 08:00 Matrix: Aqueous Liquid

Sample ID: **MW033/GW662** Date Collected: 6/20/2018 09:04

Parameters	Results	Units	PQL	MDL	DF	Prepared	By	Analyzed	By	Qual
Volatiles by GC/MS										
Analysis Desc: EPA 8010 Scan by 8260C (W)						Preparation Method: EPA 5030B Analytical Method: EPA 8260C				
1,1,1,2-Tetrachloroethane	U	ug/L	1.00	0.400	1	6/24/2018 08:19	JSJ	6/24/2018 16:06	JSJ	
1,1,1-Trichloroethane	U	ug/L	1.00	0.400	1	6/24/2018 08:19	JSJ	6/24/2018 16:06	JSJ	
1,1,2,2-Tetrachloroethane	U	ug/L	1.00	0.200	1	6/24/2018 08:19	JSJ	6/24/2018 16:06	JSJ	
1,1,2-Trichloroethane	U	ug/L	1.00	0.400	1	6/24/2018 08:19	JSJ	6/24/2018 16:06	JSJ	
1,1-Dichloroethane	U	ug/L	1.00	0.400	1	6/24/2018 08:19	JSJ	6/24/2018 16:06	JSJ	
1,1-Dichloroethene	U	ug/L	1.00	0.400	1	6/24/2018 08:19	JSJ	6/24/2018 16:06	JSJ	
1,1-Dichloropropene	U	ug/L	1.00	0.400	1	6/24/2018 08:19	JSJ	6/24/2018 16:06	JSJ	
1,2-DBCP	U	ug/L	1.00	0.550	1	6/24/2018 08:19	JSJ	6/24/2018 16:06	JSJ	
1,2-Dibromoethane (EDB)	U	ug/L	1.00	0.400	1	6/24/2018 08:19	JSJ	6/24/2018 16:06	JSJ	
1,2-Dichlorobenzene	U	ug/L	1.00	0.400	1	6/24/2018 08:19	JSJ	6/24/2018 16:06	JSJ	
1,2-Dichloroethane	U	ug/L	1.00	0.400	1	6/24/2018 08:19	JSJ	6/24/2018 16:06	JSJ	
1,2-Dichloropropane	U	ug/L	1.00	0.400	1	6/24/2018 08:19	JSJ	6/24/2018 16:06	JSJ	
1,3-Dichlorobenzene	U	ug/L	1.00	0.400	1	6/24/2018 08:19	JSJ	6/24/2018 16:06	JSJ	
1,3-Dichloropropane	U	ug/L	1.00	0.400	1	6/24/2018 08:19	JSJ	6/24/2018 16:06	JSJ	
1,4-Dichlorobenzene	U	ug/L	1.00	0.400	1	6/24/2018 08:19	JSJ	6/24/2018 16:06	JSJ	
2,2-Dichloropropane	U	ug/L	1.00	0.400	1	6/24/2018 08:19	JSJ	6/24/2018 16:06	JSJ	
Bromochloromethane	U	ug/L	1.00	0.400	1	6/24/2018 08:19	JSJ	6/24/2018 16:06	JSJ	
Bromodichloromethane	U	ug/L	1.00	0.400	1	6/24/2018 08:19	JSJ	6/24/2018 16:06	JSJ	
Bromoform	U	ug/L	1.00	0.550	1	6/24/2018 08:19	JSJ	6/24/2018 16:06	JSJ	
Bromomethane	U	ug/L	6.00	4.00	1	6/24/2018 08:19	JSJ	6/24/2018 16:06	JSJ	
Carbon tetrachloride	U	ug/L	1.00	0.400	1	6/24/2018 08:19	JSJ	6/24/2018 16:06	JSJ	
Chlorobenzene	U	ug/L	1.00	0.400	1	6/24/2018 08:19	JSJ	6/24/2018 16:06	JSJ	
Chloroethane	U	ug/L	1.00	0.400	1	6/24/2018 08:19	JSJ	6/24/2018 16:06	JSJ	
Chloroform	U	ug/L	1.00	0.400	1	6/24/2018 08:19	JSJ	6/24/2018 16:06	JSJ	
Chloromethane	U	ug/L	5.00	2.50	1	6/24/2018 08:19	JSJ	6/24/2018 16:06	JSJ	
Dibromochloromethane	U	ug/L	1.00	0.400	1	6/24/2018 08:19	JSJ	6/24/2018 16:06	JSJ	
Dibromomethane	U	ug/L	1.00	0.400	1	6/24/2018 08:19	JSJ	6/24/2018 16:06	JSJ	
Dichlorodifluoromethane	U	ug/L	1.00	0.400	1	6/24/2018 08:19	JSJ	6/24/2018 16:06	JSJ	
cis-1,3-Dichloropropene	U	ug/L	1.00	0.400	1	6/24/2018 08:19	JSJ	6/24/2018 16:06	JSJ	
Methylene chloride	U	ug/L	4.00	2.00	1	6/24/2018 08:19	JSJ	6/24/2018 16:06	JSJ	
Tetrachloroethene	U	ug/L	1.00	0.400	1	6/24/2018 08:19	JSJ	6/24/2018 16:06	JSJ	
Trichloroethene	U	ug/L	1.00	0.400	1	6/24/2018 08:19	JSJ	6/24/2018 16:06	JSJ	
Trichlorofluoromethane	U	ug/L	1.00	0.400	1	6/24/2018 08:19	JSJ	6/24/2018 16:06	JSJ	
Vinyl chloride	U	ug/L	1.00	0.400	1	6/24/2018 08:19	JSJ	6/24/2018 16:06	JSJ	
cis-1,2-Dichloroethene	U	ug/L	1.00	0.400	1	6/24/2018 08:19	JSJ	6/24/2018 16:06	JSJ	
trans-1,2-Dichloroethene	U	ug/L	1.00	0.400	1	6/24/2018 08:19	JSJ	6/24/2018 16:06	JSJ	
trans-1,3-Dichloropropene	U	ug/L	1.00	0.400	1	6/24/2018 08:19	JSJ	6/24/2018 16:06	JSJ	
Dibromofluoromethane (S)	85	%	70-130		1	6/24/2018 08:19	JSJ	6/24/2018 16:06	JSJ	
Toluene d8 (S)	90	%	70-130		1	6/24/2018 08:19	JSJ	6/24/2018 16:06	JSJ	

FDOH# E86546

CERTIFICATE OF ANALYSIS

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ANALYTICAL RESULTS

Workorder: 1857321
Project ID: McNatts 090113

Lab ID: **1857321002** Date Received: 6/21/2018 08:00 Matrix: Aqueous Liquid
Sample ID: **MW033/GW662** Date Collected: 6/20/2018 09:04

Parameters	Results	Units	PQL	MDL	DF	Prepared	By	Analyzed	By	Qual
4-Bromofluorobenzene (S)	100	%	70-130		1	6/24/2018 08:19	JSJ	6/24/2018 16:06	JSJ	

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ANALYTICAL RESULTS

Workorder: 1857321
Project ID: McNatts 090113

Lab ID: **1857321003** Date Received: 6/21/2018 08:00 Matrix: Aqueous Liquid
Sample ID: **MW001/GW668** Date Collected: 6/20/2018 15:48

Parameters	Results	Units	PQL	MDL	DF	Prepared	By	Analyzed	By	Qual
Volatiles by GC/MS										
Analysis Desc: EPA 8010 Scan by 8260C (W)						Preparation Method: EPA 5030B Analytical Method: EPA 8260C				
1,1,1,2-Tetrachloroethane	U	ug/L	1.00	0.400	1	6/24/2018 08:19	JSJ	6/24/2018 16:30	JSJ	
1,1,1-Trichloroethane	U	ug/L	1.00	0.400	1	6/24/2018 08:19	JSJ	6/24/2018 16:30	JSJ	
1,1,2,2-Tetrachloroethane	U	ug/L	1.00	0.200	1	6/24/2018 08:19	JSJ	6/24/2018 16:30	JSJ	
1,1,2-Trichloroethane	U	ug/L	1.00	0.400	1	6/24/2018 08:19	JSJ	6/24/2018 16:30	JSJ	
1,1-Dichloroethane	U	ug/L	1.00	0.400	1	6/24/2018 08:19	JSJ	6/24/2018 16:30	JSJ	
1,1-Dichloroethene	U	ug/L	1.00	0.400	1	6/24/2018 08:19	JSJ	6/24/2018 16:30	JSJ	
1,1-Dichloropropene	U	ug/L	1.00	0.400	1	6/24/2018 08:19	JSJ	6/24/2018 16:30	JSJ	
1,2-DBCP	U	ug/L	1.00	0.550	1	6/24/2018 08:19	JSJ	6/24/2018 16:30	JSJ	
1,2-Dibromoethane (EDB)	U	ug/L	1.00	0.400	1	6/24/2018 08:19	JSJ	6/24/2018 16:30	JSJ	
1,2-Dichlorobenzene	U	ug/L	1.00	0.400	1	6/24/2018 08:19	JSJ	6/24/2018 16:30	JSJ	
1,2-Dichloroethane	U	ug/L	1.00	0.400	1	6/24/2018 08:19	JSJ	6/24/2018 16:30	JSJ	
1,2-Dichloropropane	U	ug/L	1.00	0.400	1	6/24/2018 08:19	JSJ	6/24/2018 16:30	JSJ	
1,3-Dichlorobenzene	U	ug/L	1.00	0.400	1	6/24/2018 08:19	JSJ	6/24/2018 16:30	JSJ	
1,3-Dichloropropane	U	ug/L	1.00	0.400	1	6/24/2018 08:19	JSJ	6/24/2018 16:30	JSJ	
1,4-Dichlorobenzene	U	ug/L	1.00	0.400	1	6/24/2018 08:19	JSJ	6/24/2018 16:30	JSJ	
2,2-Dichloropropane	U	ug/L	1.00	0.400	1	6/24/2018 08:19	JSJ	6/24/2018 16:30	JSJ	
Bromochloromethane	U	ug/L	1.00	0.400	1	6/24/2018 08:19	JSJ	6/24/2018 16:30	JSJ	
Bromodichloromethane	U	ug/L	1.00	0.400	1	6/24/2018 08:19	JSJ	6/24/2018 16:30	JSJ	
Bromoform	U	ug/L	1.00	0.550	1	6/24/2018 08:19	JSJ	6/24/2018 16:30	JSJ	
Bromomethane	U	ug/L	6.00	4.00	1	6/24/2018 08:19	JSJ	6/24/2018 16:30	JSJ	
Carbon tetrachloride	U	ug/L	1.00	0.400	1	6/24/2018 08:19	JSJ	6/24/2018 16:30	JSJ	
Chlorobenzene	U	ug/L	1.00	0.400	1	6/24/2018 08:19	JSJ	6/24/2018 16:30	JSJ	
Chloroethane	U	ug/L	1.00	0.400	1	6/24/2018 08:19	JSJ	6/24/2018 16:30	JSJ	
Chloroform	U	ug/L	1.00	0.400	1	6/24/2018 08:19	JSJ	6/24/2018 16:30	JSJ	
Chloromethane	U	ug/L	5.00	2.50	1	6/24/2018 08:19	JSJ	6/24/2018 16:30	JSJ	
Dibromochloromethane	U	ug/L	1.00	0.400	1	6/24/2018 08:19	JSJ	6/24/2018 16:30	JSJ	
Dibromomethane	U	ug/L	1.00	0.400	1	6/24/2018 08:19	JSJ	6/24/2018 16:30	JSJ	
Dichlorodifluoromethane	U	ug/L	1.00	0.400	1	6/24/2018 08:19	JSJ	6/24/2018 16:30	JSJ	
cis-1,3-Dichloropropene	U	ug/L	1.00	0.400	1	6/24/2018 08:19	JSJ	6/24/2018 16:30	JSJ	
Methylene chloride	U	ug/L	4.00	2.00	1	6/24/2018 08:19	JSJ	6/24/2018 16:30	JSJ	
Tetrachloroethene	U	ug/L	1.00	0.400	1	6/24/2018 08:19	JSJ	6/24/2018 16:30	JSJ	
Trichloroethene	U	ug/L	1.00	0.400	1	6/24/2018 08:19	JSJ	6/24/2018 16:30	JSJ	
Trichlorofluoromethane	U	ug/L	1.00	0.400	1	6/24/2018 08:19	JSJ	6/24/2018 16:30	JSJ	
Vinyl chloride	U	ug/L	1.00	0.400	1	6/24/2018 08:19	JSJ	6/24/2018 16:30	JSJ	
cis-1,2-Dichloroethene	U	ug/L	1.00	0.400	1	6/24/2018 08:19	JSJ	6/24/2018 16:30	JSJ	
trans-1,2-Dichloroethene	U	ug/L	1.00	0.400	1	6/24/2018 08:19	JSJ	6/24/2018 16:30	JSJ	
trans-1,3-Dichloropropene	U	ug/L	1.00	0.400	1	6/24/2018 08:19	JSJ	6/24/2018 16:30	JSJ	
Dibromofluoromethane (S)	87	%	70-130		1	6/24/2018 08:19	JSJ	6/24/2018 16:30	JSJ	
Toluene d8 (S)	106	%	70-130		1	6/24/2018 08:19	JSJ	6/24/2018 16:30	JSJ	

FDOH# E86546

CERTIFICATE OF ANALYSIS

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ANALYTICAL RESULTS

Workorder: 1857321
Project ID: McNatts 090113

Lab ID: **1857321003** Date Received: 6/21/2018 08:00 Matrix: Aqueous Liquid
Sample ID: **MW001/GW668** Date Collected: 6/20/2018 15:48

Parameters	Results	Units	PQL	MDL	DF	Prepared	By	Analyzed	By	Qual
4-Bromofluorobenzene (S)	96	%	70-130		1	6/24/2018 08:19	JSJ	6/24/2018 16:30	JSJ	

FDOH# E86546

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ANALYTICAL RESULTS

Workorder: 1857321
Project ID: McNatts 090113

Lab ID: **1857321004** Date Received: 6/21/2018 08:00 Matrix: Aqueous Liquid
Sample ID: **MW002/GW667** Date Collected: 6/20/2018 15:11

Parameters	Results	Units	PQL	MDL	DF	Prepared	By	Analyzed	By	Qual
Volatiles by GC/MS										
Analysis Desc: EPA 8010 Scan by 8260C (W)						Preparation Method: EPA 5030B Analytical Method: EPA 8260C				
1,1,1,2-Tetrachloroethane	U	ug/L	1.00	0.400	1	6/24/2018 08:19	JSJ	6/24/2018 16:54	JSJ	
1,1,1-Trichloroethane	U	ug/L	1.00	0.400	1	6/24/2018 08:19	JSJ	6/24/2018 16:54	JSJ	
1,1,2,2-Tetrachloroethane	U	ug/L	1.00	0.200	1	6/24/2018 08:19	JSJ	6/24/2018 16:54	JSJ	
1,1,2-Trichloroethane	U	ug/L	1.00	0.400	1	6/24/2018 08:19	JSJ	6/24/2018 16:54	JSJ	
1,1-Dichloroethane	U	ug/L	1.00	0.400	1	6/24/2018 08:19	JSJ	6/24/2018 16:54	JSJ	
1,1-Dichloroethene	0.940i	ug/L	1.00	0.400	1	6/24/2018 08:19	JSJ	6/24/2018 16:54	JSJ	
1,1-Dichloropropene	U	ug/L	1.00	0.400	1	6/24/2018 08:19	JSJ	6/24/2018 16:54	JSJ	
1,2-DBCP	U	ug/L	1.00	0.550	1	6/24/2018 08:19	JSJ	6/24/2018 16:54	JSJ	
1,2-Dibromoethane (EDB)	U	ug/L	1.00	0.400	1	6/24/2018 08:19	JSJ	6/24/2018 16:54	JSJ	
1,2-Dichlorobenzene	U	ug/L	1.00	0.400	1	6/24/2018 08:19	JSJ	6/24/2018 16:54	JSJ	
1,2-Dichloroethane	U	ug/L	1.00	0.400	1	6/24/2018 08:19	JSJ	6/24/2018 16:54	JSJ	
1,2-Dichloropropane	U	ug/L	1.00	0.400	1	6/24/2018 08:19	JSJ	6/24/2018 16:54	JSJ	
1,3-Dichlorobenzene	U	ug/L	1.00	0.400	1	6/24/2018 08:19	JSJ	6/24/2018 16:54	JSJ	
1,3-Dichloropropane	U	ug/L	1.00	0.400	1	6/24/2018 08:19	JSJ	6/24/2018 16:54	JSJ	
1,4-Dichlorobenzene	U	ug/L	1.00	0.400	1	6/24/2018 08:19	JSJ	6/24/2018 16:54	JSJ	
2,2-Dichloropropane	U	ug/L	1.00	0.400	1	6/24/2018 08:19	JSJ	6/24/2018 16:54	JSJ	
Bromochloromethane	U	ug/L	1.00	0.400	1	6/24/2018 08:19	JSJ	6/24/2018 16:54	JSJ	
Bromodichloromethane	U	ug/L	1.00	0.400	1	6/24/2018 08:19	JSJ	6/24/2018 16:54	JSJ	
Bromoform	U	ug/L	1.00	0.550	1	6/24/2018 08:19	JSJ	6/24/2018 16:54	JSJ	
Bromomethane	U	ug/L	6.00	4.00	1	6/24/2018 08:19	JSJ	6/24/2018 16:54	JSJ	
Carbon tetrachloride	U	ug/L	1.00	0.400	1	6/24/2018 08:19	JSJ	6/24/2018 16:54	JSJ	
Chlorobenzene	U	ug/L	1.00	0.400	1	6/24/2018 08:19	JSJ	6/24/2018 16:54	JSJ	
Chloroethane	U	ug/L	1.00	0.400	1	6/24/2018 08:19	JSJ	6/24/2018 16:54	JSJ	
Chloroform	U	ug/L	1.00	0.400	1	6/24/2018 08:19	JSJ	6/24/2018 16:54	JSJ	
Chloromethane	U	ug/L	5.00	2.50	1	6/24/2018 08:19	JSJ	6/24/2018 16:54	JSJ	
Dibromochloromethane	U	ug/L	1.00	0.400	1	6/24/2018 08:19	JSJ	6/24/2018 16:54	JSJ	
Dibromomethane	U	ug/L	1.00	0.400	1	6/24/2018 08:19	JSJ	6/24/2018 16:54	JSJ	
Dichlorodifluoromethane	U	ug/L	1.00	0.400	1	6/24/2018 08:19	JSJ	6/24/2018 16:54	JSJ	
cis-1,3-Dichloropropene	U	ug/L	1.00	0.400	1	6/24/2018 08:19	JSJ	6/24/2018 16:54	JSJ	
Methylene chloride	U	ug/L	4.00	2.00	1	6/24/2018 08:19	JSJ	6/24/2018 16:54	JSJ	
Tetrachloroethene	9.44	ug/L	1.00	0.400	1	6/24/2018 08:19	JSJ	6/24/2018 16:54	JSJ	
Trichloroethene	45.4	ug/L	1.00	0.400	1	6/24/2018 08:19	JSJ	6/24/2018 16:54	JSJ	
Trichlorofluoromethane	U	ug/L	1.00	0.400	1	6/24/2018 08:19	JSJ	6/24/2018 16:54	JSJ	
Vinyl chloride	105	ug/L	1.00	0.400	1	6/24/2018 08:19	JSJ	6/24/2018 16:54	JSJ	
cis-1,2-Dichloroethene	559	ug/L	20.0	8.00	20	6/26/2018 09:20	JSJ	6/26/2018 16:49	JSJ	
trans-1,2-Dichloroethene	8.50	ug/L	1.00	0.400	1	6/24/2018 08:19	JSJ	6/24/2018 16:54	JSJ	
trans-1,3-Dichloropropene	U	ug/L	1.00	0.400	1	6/24/2018 08:19	JSJ	6/24/2018 16:54	JSJ	
Dibromofluoromethane (S)	93	%	70-130		1	6/24/2018 08:19	JSJ	6/24/2018 16:54	JSJ	
Toluene d8 (S)	121	%	70-130		1	6/24/2018 08:19	JSJ	6/24/2018 16:54	JSJ	

FDOH# E86546

CERTIFICATE OF ANALYSIS

Jupiter Environmental Laboratories, Inc.
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ANALYTICAL RESULTS

Workorder: 1857321
Project ID: McNatts 090113

Lab ID: **1857321004** Date Received: 6/21/2018 08:00 Matrix: Aqueous Liquid
Sample ID: **MW002/GW667** Date Collected: 6/20/2018 15:11

Parameters	Results	Units	PQL	MDL	DF	Prepared	By	Analyzed	By	Qual
4-Bromofluorobenzene (S)	93	%	70-130		1	6/24/2018 08:19	JSJ	6/24/2018 16:54	JSJ	

FDOH# E86546

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ANALYTICAL RESULTS

Workorder: 1857321

Project ID: McNatts 090113

Lab ID: **1857321005** Date Received: 6/21/2018 08:00 Matrix: Aqueous Liquid

Sample ID: **MW019/GW673** Date Collected: 6/20/2018 11:40

Parameters	Results	Units	PQL	MDL	DF	Prepared	By	Analyzed	By	Qual
Volatiles by GC/MS										
Analysis Desc: EPA 8010 Scan by 8260C (W)						Preparation Method: EPA 5030B Analytical Method: EPA 8260C				
1,1,1,2-Tetrachloroethane	U	ug/L	1.00	0.400	1	6/24/2018 08:19	JSJ	6/24/2018 19:17	JSJ	
1,1,1-Trichloroethane	U	ug/L	1.00	0.400	1	6/24/2018 08:19	JSJ	6/24/2018 19:17	JSJ	
1,1,2,2-Tetrachloroethane	U	ug/L	1.00	0.200	1	6/24/2018 08:19	JSJ	6/24/2018 19:17	JSJ	
1,1,2-Trichloroethane	U	ug/L	1.00	0.400	1	6/24/2018 08:19	JSJ	6/24/2018 19:17	JSJ	
1,1-Dichloroethane	U	ug/L	1.00	0.400	1	6/24/2018 08:19	JSJ	6/24/2018 19:17	JSJ	
1,1-Dichloroethene	U	ug/L	1.00	0.400	1	6/24/2018 08:19	JSJ	6/24/2018 19:17	JSJ	
1,1-Dichloropropene	U	ug/L	1.00	0.400	1	6/24/2018 08:19	JSJ	6/24/2018 19:17	JSJ	
1,2-DBCP	U	ug/L	1.00	0.550	1	6/24/2018 08:19	JSJ	6/24/2018 19:17	JSJ	
1,2-Dibromoethane (EDB)	U	ug/L	1.00	0.400	1	6/24/2018 08:19	JSJ	6/24/2018 19:17	JSJ	
1,2-Dichlorobenzene	U	ug/L	1.00	0.400	1	6/24/2018 08:19	JSJ	6/24/2018 19:17	JSJ	
1,2-Dichloroethane	U	ug/L	1.00	0.400	1	6/24/2018 08:19	JSJ	6/24/2018 19:17	JSJ	
1,2-Dichloropropane	U	ug/L	1.00	0.400	1	6/24/2018 08:19	JSJ	6/24/2018 19:17	JSJ	
1,3-Dichlorobenzene	U	ug/L	1.00	0.400	1	6/24/2018 08:19	JSJ	6/24/2018 19:17	JSJ	
1,3-Dichloropropane	U	ug/L	1.00	0.400	1	6/24/2018 08:19	JSJ	6/24/2018 19:17	JSJ	
1,4-Dichlorobenzene	U	ug/L	1.00	0.400	1	6/24/2018 08:19	JSJ	6/24/2018 19:17	JSJ	
2,2-Dichloropropane	U	ug/L	1.00	0.400	1	6/24/2018 08:19	JSJ	6/24/2018 19:17	JSJ	
Bromochloromethane	U	ug/L	1.00	0.400	1	6/24/2018 08:19	JSJ	6/24/2018 19:17	JSJ	
Bromodichloromethane	U	ug/L	1.00	0.400	1	6/24/2018 08:19	JSJ	6/24/2018 19:17	JSJ	
Bromoform	U	ug/L	1.00	0.550	1	6/24/2018 08:19	JSJ	6/24/2018 19:17	JSJ	
Bromomethane	U	ug/L	6.00	4.00	1	6/24/2018 08:19	JSJ	6/24/2018 19:17	JSJ	
Carbon tetrachloride	U	ug/L	1.00	0.400	1	6/24/2018 08:19	JSJ	6/24/2018 19:17	JSJ	
Chlorobenzene	U	ug/L	1.00	0.400	1	6/24/2018 08:19	JSJ	6/24/2018 19:17	JSJ	
Chloroethane	U	ug/L	1.00	0.400	1	6/24/2018 08:19	JSJ	6/24/2018 19:17	JSJ	
Chloroform	U	ug/L	1.00	0.400	1	6/24/2018 08:19	JSJ	6/24/2018 19:17	JSJ	
Chloromethane	U	ug/L	5.00	2.50	1	6/24/2018 08:19	JSJ	6/24/2018 19:17	JSJ	
Dibromochloromethane	U	ug/L	1.00	0.400	1	6/24/2018 08:19	JSJ	6/24/2018 19:17	JSJ	
Dibromomethane	U	ug/L	1.00	0.400	1	6/24/2018 08:19	JSJ	6/24/2018 19:17	JSJ	
Dichlorodifluoromethane	U	ug/L	1.00	0.400	1	6/24/2018 08:19	JSJ	6/24/2018 19:17	JSJ	
cis-1,3-Dichloropropene	U	ug/L	1.00	0.400	1	6/24/2018 08:19	JSJ	6/24/2018 19:17	JSJ	
Methylene chloride	U	ug/L	4.00	2.00	1	6/24/2018 08:19	JSJ	6/24/2018 19:17	JSJ	
Tetrachloroethene	U	ug/L	1.00	0.400	1	6/24/2018 08:19	JSJ	6/24/2018 19:17	JSJ	
Trichloroethene	U	ug/L	1.00	0.400	1	6/24/2018 08:19	JSJ	6/24/2018 19:17	JSJ	
Trichlorofluoromethane	U	ug/L	1.00	0.400	1	6/24/2018 08:19	JSJ	6/24/2018 19:17	JSJ	
Vinyl chloride	1.05	ug/L	1.00	0.400	1	6/24/2018 08:19	JSJ	6/24/2018 19:17	JSJ	
cis-1,2-Dichloroethene	U	ug/L	1.00	0.400	1	6/24/2018 08:19	JSJ	6/24/2018 19:17	JSJ	
trans-1,2-Dichloroethene	0.650i	ug/L	1.00	0.400	1	6/24/2018 08:19	JSJ	6/24/2018 19:17	JSJ	
trans-1,3-Dichloropropene	U	ug/L	1.00	0.400	1	6/24/2018 08:19	JSJ	6/24/2018 19:17	JSJ	
Dibromofluoromethane (S)	92	%	70-130		1	6/24/2018 08:19	JSJ	6/24/2018 19:17	JSJ	
Toluene d8 (S)	104	%	70-130		1	6/24/2018 08:19	JSJ	6/24/2018 19:17	JSJ	

FDOH# E86546

CERTIFICATE OF ANALYSIS

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ANALYTICAL RESULTS

Workorder: 1857321
Project ID: McNatts 090113

Lab ID: **1857321005** Date Received: 6/21/2018 08:00 Matrix: Aqueous Liquid
Sample ID: **MW019/GW673** Date Collected: 6/20/2018 11:40

Parameters	Results	Units	PQL	MDL	DF	Prepared	By	Analyzed	By	Qual
4-Bromofluorobenzene (S)	96	%	70-130		1	6/24/2018 08:19	JSJ	6/24/2018 19:17	JSJ	

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ANALYTICAL RESULTS

Workorder: 1857321
Project ID: McNatts 090113

Lab ID: **1857321006** Date Received: 6/21/2018 08:00 Matrix: Aqueous Liquid
Sample ID: **MW025/GW664** Date Collected: 6/20/2018 10:35

Parameters	Results	Units	PQL	MDL	DF	Prepared	By	Analyzed	By	Qual
Analysis Desc: EPA 350.1 Ammonia (W)						Preparation Method: Wet Chem Prep Analytical Method: EPA 350.1 (non-distilled)				
Ammonia (N)	0.11	mg/L	0.10	0.0500	1	6/28/2018 08:33	CF	7/3/2018 13:31	CF	
Volatiles by GC/MS										
Analysis Desc: EPA 8010 Scan by 8260C (W)						Preparation Method: EPA 5030B Analytical Method: EPA 8260C				
1,1,1,2-Tetrachloroethane	U	ug/L	1.00	0.400	1	6/24/2018 08:19	JSJ	6/24/2018 17:17	JSJ	
1,1,1-Trichloroethane	U	ug/L	1.00	0.400	1	6/24/2018 08:19	JSJ	6/24/2018 17:17	JSJ	
1,1,2,2-Tetrachloroethane	U	ug/L	1.00	0.200	1	6/24/2018 08:19	JSJ	6/24/2018 17:17	JSJ	
1,1,2-Trichloroethane	U	ug/L	1.00	0.400	1	6/24/2018 08:19	JSJ	6/24/2018 17:17	JSJ	
1,1-Dichloroethane	U	ug/L	1.00	0.400	1	6/24/2018 08:19	JSJ	6/24/2018 17:17	JSJ	
1,1-Dichloroethene	0.670i	ug/L	1.00	0.400	1	6/24/2018 08:19	JSJ	6/24/2018 17:17	JSJ	
1,1-Dichloropropene	U	ug/L	1.00	0.400	1	6/24/2018 08:19	JSJ	6/24/2018 17:17	JSJ	
1,2-DBCP	U	ug/L	1.00	0.550	1	6/24/2018 08:19	JSJ	6/24/2018 17:17	JSJ	
1,2-Dibromoethane (EDB)	U	ug/L	1.00	0.400	1	6/24/2018 08:19	JSJ	6/24/2018 17:17	JSJ	
1,2-Dichlorobenzene	U	ug/L	1.00	0.400	1	6/24/2018 08:19	JSJ	6/24/2018 17:17	JSJ	
1,2-Dichloroethane	U	ug/L	1.00	0.400	1	6/24/2018 08:19	JSJ	6/24/2018 17:17	JSJ	
1,2-Dichloropropane	U	ug/L	1.00	0.400	1	6/24/2018 08:19	JSJ	6/24/2018 17:17	JSJ	
1,3-Dichlorobenzene	U	ug/L	1.00	0.400	1	6/24/2018 08:19	JSJ	6/24/2018 17:17	JSJ	
1,3-Dichloropropane	U	ug/L	1.00	0.400	1	6/24/2018 08:19	JSJ	6/24/2018 17:17	JSJ	
1,4-Dichlorobenzene	U	ug/L	1.00	0.400	1	6/24/2018 08:19	JSJ	6/24/2018 17:17	JSJ	
2,2-Dichloropropane	U	ug/L	1.00	0.400	1	6/24/2018 08:19	JSJ	6/24/2018 17:17	JSJ	
Bromochloromethane	U	ug/L	1.00	0.400	1	6/24/2018 08:19	JSJ	6/24/2018 17:17	JSJ	
Bromodichloromethane	U	ug/L	1.00	0.400	1	6/24/2018 08:19	JSJ	6/24/2018 17:17	JSJ	
Bromoform	U	ug/L	1.00	0.550	1	6/24/2018 08:19	JSJ	6/24/2018 17:17	JSJ	
Bromomethane	U	ug/L	6.00	4.00	1	6/24/2018 08:19	JSJ	6/24/2018 17:17	JSJ	
Carbon tetrachloride	U	ug/L	1.00	0.400	1	6/24/2018 08:19	JSJ	6/24/2018 17:17	JSJ	
Chlorobenzene	U	ug/L	1.00	0.400	1	6/24/2018 08:19	JSJ	6/24/2018 17:17	JSJ	
Chloroethane	U	ug/L	1.00	0.400	1	6/24/2018 08:19	JSJ	6/24/2018 17:17	JSJ	
Chloroform	U	ug/L	1.00	0.400	1	6/24/2018 08:19	JSJ	6/24/2018 17:17	JSJ	
Chloromethane	U	ug/L	5.00	2.50	1	6/24/2018 08:19	JSJ	6/24/2018 17:17	JSJ	
Dibromochloromethane	U	ug/L	1.00	0.400	1	6/24/2018 08:19	JSJ	6/24/2018 17:17	JSJ	
Dibromomethane	U	ug/L	1.00	0.400	1	6/24/2018 08:19	JSJ	6/24/2018 17:17	JSJ	
Dichlorodifluoromethane	U	ug/L	1.00	0.400	1	6/24/2018 08:19	JSJ	6/24/2018 17:17	JSJ	
cis-1,3-Dichloropropene	U	ug/L	1.00	0.400	1	6/24/2018 08:19	JSJ	6/24/2018 17:17	JSJ	
Methylene chloride	U	ug/L	4.00	2.00	1	6/24/2018 08:19	JSJ	6/24/2018 17:17	JSJ	
Tetrachloroethene	31.8	ug/L	1.00	0.400	1	6/24/2018 08:19	JSJ	6/24/2018 17:17	JSJ	
Trichloroethene	15.8	ug/L	1.00	0.400	1	6/24/2018 08:19	JSJ	6/24/2018 17:17	JSJ	
Trichlorofluoromethane	U	ug/L	1.00	0.400	1	6/24/2018 08:19	JSJ	6/24/2018 17:17	JSJ	

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ANALYTICAL RESULTS

Workorder: 1857321
Project ID: McNatts 090113

Lab ID: **1857321006** Date Received: 6/21/2018 08:00 Matrix: Aqueous Liquid
Sample ID: **MW025/GW664** Date Collected: 6/20/2018 10:35

Parameters	Results	Units	PQL	MDL	DF	Prepared	By	Analyzed	By	Qual
Vinyl chloride	5.86	ug/L	1.00	0.400	1	6/24/2018 08:19	JSJ	6/24/2018 17:17	JSJ	
cis-1,2-Dichloroethene	702	ug/L	20.0	8.00	20	6/26/2018 09:20	JSJ	6/26/2018 17:15	JSJ	
trans-1,2-Dichloroethene	0.690i	ug/L	1.00	0.400	1	6/24/2018 08:19	JSJ	6/24/2018 17:17	JSJ	
trans-1,3-Dichloropropene	U	ug/L	1.00	0.400	1	6/24/2018 08:19	JSJ	6/24/2018 17:17	JSJ	
Dibromofluoromethane (S)	94	%	70-130		1	6/24/2018 08:19	JSJ	6/24/2018 17:17	JSJ	
Toluene d8 (S)	105	%	70-130		1	6/24/2018 08:19	JSJ	6/24/2018 17:17	JSJ	
4-Bromofluorobenzene (S)	97	%	70-130		1	6/24/2018 08:19	JSJ	6/24/2018 17:17	JSJ	
Analysis Desc: 4500NO3-H Nitrate+Nitrite (W)						Preparation Method: Wet Chem Prep Analytical Method: SM 4500-NO3 H				
Nitrate-Nitrite (N)	U	mg/L	0.080	0.0400	1	6/25/2018 09:12	CF	6/25/2018 10:50	SW	
Analysis Desc: 4500NO2-B Nitrite (W)						Preparation Method: Wet Chem Prep Analytical Method: SM 4500-NO2 B				
Nitrite (N)	U	mg/L	0.080	0.0400	1	6/25/2018 15:14	CF	6/25/2018 16:17	SW	Q1
Analysis Desc: SM 5310B (W)						Preparation Method: Wet Chem Prep Analytical Method: SM 5310B				
TOC	12.9	mg/L	1.00	0.694	1	6/28/2018 08:51	CF	6/28/2018 09:08	CF	
Analysis Desc: Nitrate (Calc.) (W)						Analytical Method: Calc.				
Nitrate (N)	U	mg/L	0.080	0.0400	1			6/29/2018 16:58	KB	
Analysis Desc: TDS by 2540C [REF] (W)						Analytical Method: SM 2540C				
Total Dissolved Solids	75.0	mg/L	40.0	10.0	1			6/27/2018 11:00	MD	
Semivolatiles by GC										
Analysis Desc: Florida PRO by GC (W)						Preparation Method: EPA 3510C Analytical Method: FL-PRO (GC)				
Florida Pro Total	0.127i	mg/L	0.150	0.075	1	6/21/2018 15:39	JG	6/21/2018 19:31	BFM	
o-Terphenyl (S)	78	%	50-150		1	6/21/2018 15:39	JG	6/21/2018 19:31	BFM	
n-Triacontane-d62 (S)	83	%	50-150		1	6/21/2018 15:39	JG	6/21/2018 19:31	BFM	
Analysis Desc: EPA 200.8 Metals (W)						Preparation Method: EPA 200.2 mod. Analytical Method: EPA 200.8 (Total)				
Sodium	13	mg/L	0.050	0.013	10	6/21/2018 08:48	ZS	6/21/2018 13:36	ZS	

FDOH# E86546

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ANALYTICAL RESULTS

Workorder: 1857321

Project ID: McNatts 090113

Lab ID: **1857321007** Date Received: 6/21/2018 08:00 Matrix: Aqueous Liquid

Sample ID: **MW030/GW674** Date Collected: 6/20/2018 11:02

Parameters	Results	Units	PQL	MDL	DF	Prepared	By	Analyzed	By	Qual
Volatiles by GC/MS										
Analysis Desc: EPA 8010 Scan by 8260C (W)						Preparation Method: EPA 5030B Analytical Method: EPA 8260C				
1,1,1,2-Tetrachloroethane	U	ug/L	1.00	0.400	1	6/24/2018 08:19	JSJ	6/24/2018 17:41	JSJ	
1,1,1-Trichloroethane	U	ug/L	1.00	0.400	1	6/24/2018 08:19	JSJ	6/24/2018 17:41	JSJ	
1,1,2,2-Tetrachloroethane	U	ug/L	1.00	0.200	1	6/24/2018 08:19	JSJ	6/24/2018 17:41	JSJ	
1,1,2-Trichloroethane	U	ug/L	1.00	0.400	1	6/24/2018 08:19	JSJ	6/24/2018 17:41	JSJ	
1,1-Dichloroethane	U	ug/L	1.00	0.400	1	6/24/2018 08:19	JSJ	6/24/2018 17:41	JSJ	
1,1-Dichloroethene	1.30	ug/L	1.00	0.400	1	6/24/2018 08:19	JSJ	6/24/2018 17:41	JSJ	
1,1-Dichloropropene	U	ug/L	1.00	0.400	1	6/24/2018 08:19	JSJ	6/24/2018 17:41	JSJ	
1,2-DBCP	U	ug/L	1.00	0.550	1	6/24/2018 08:19	JSJ	6/24/2018 17:41	JSJ	
1,2-Dibromoethane (EDB)	U	ug/L	1.00	0.400	1	6/24/2018 08:19	JSJ	6/24/2018 17:41	JSJ	
1,2-Dichlorobenzene	U	ug/L	1.00	0.400	1	6/24/2018 08:19	JSJ	6/24/2018 17:41	JSJ	
1,2-Dichloroethane	U	ug/L	1.00	0.400	1	6/24/2018 08:19	JSJ	6/24/2018 17:41	JSJ	
1,2-Dichloropropane	U	ug/L	1.00	0.400	1	6/24/2018 08:19	JSJ	6/24/2018 17:41	JSJ	
1,3-Dichlorobenzene	U	ug/L	1.00	0.400	1	6/24/2018 08:19	JSJ	6/24/2018 17:41	JSJ	
1,3-Dichloropropane	U	ug/L	1.00	0.400	1	6/24/2018 08:19	JSJ	6/24/2018 17:41	JSJ	
1,4-Dichlorobenzene	U	ug/L	1.00	0.400	1	6/24/2018 08:19	JSJ	6/24/2018 17:41	JSJ	
2,2-Dichloropropane	U	ug/L	1.00	0.400	1	6/24/2018 08:19	JSJ	6/24/2018 17:41	JSJ	
Bromochloromethane	U	ug/L	1.00	0.400	1	6/24/2018 08:19	JSJ	6/24/2018 17:41	JSJ	
Bromodichloromethane	U	ug/L	1.00	0.400	1	6/24/2018 08:19	JSJ	6/24/2018 17:41	JSJ	
Bromoform	U	ug/L	1.00	0.550	1	6/24/2018 08:19	JSJ	6/24/2018 17:41	JSJ	
Bromomethane	U	ug/L	6.00	4.00	1	6/24/2018 08:19	JSJ	6/24/2018 17:41	JSJ	
Carbon tetrachloride	U	ug/L	1.00	0.400	1	6/24/2018 08:19	JSJ	6/24/2018 17:41	JSJ	
Chlorobenzene	U	ug/L	1.00	0.400	1	6/24/2018 08:19	JSJ	6/24/2018 17:41	JSJ	
Chloroethane	U	ug/L	1.00	0.400	1	6/24/2018 08:19	JSJ	6/24/2018 17:41	JSJ	
Chloroform	U	ug/L	1.00	0.400	1	6/24/2018 08:19	JSJ	6/24/2018 17:41	JSJ	
Chloromethane	U	ug/L	5.00	2.50	1	6/24/2018 08:19	JSJ	6/24/2018 17:41	JSJ	
Dibromochloromethane	U	ug/L	1.00	0.400	1	6/24/2018 08:19	JSJ	6/24/2018 17:41	JSJ	
Dibromomethane	U	ug/L	1.00	0.400	1	6/24/2018 08:19	JSJ	6/24/2018 17:41	JSJ	
Dichlorodifluoromethane	U	ug/L	1.00	0.400	1	6/24/2018 08:19	JSJ	6/24/2018 17:41	JSJ	
cis-1,3-Dichloropropene	U	ug/L	1.00	0.400	1	6/24/2018 08:19	JSJ	6/24/2018 17:41	JSJ	
Methylene chloride	U	ug/L	4.00	2.00	1	6/24/2018 08:19	JSJ	6/24/2018 17:41	JSJ	
Tetrachloroethene	U	ug/L	1.00	0.400	1	6/24/2018 08:19	JSJ	6/24/2018 17:41	JSJ	
Trichloroethene	U	ug/L	1.00	0.400	1	6/24/2018 08:19	JSJ	6/24/2018 17:41	JSJ	
Trichlorofluoromethane	U	ug/L	1.00	0.400	1	6/24/2018 08:19	JSJ	6/24/2018 17:41	JSJ	
Vinyl chloride	67.8	ug/L	1.00	0.400	1	6/24/2018 08:19	JSJ	6/24/2018 17:41	JSJ	
cis-1,2-Dichloroethene	582	ug/L	20.0	8.00	20	6/26/2018 09:20	JSJ	6/26/2018 17:42	JSJ	
trans-1,2-Dichloroethene	U	ug/L	1.00	0.400	1	6/24/2018 08:19	JSJ	6/24/2018 17:41	JSJ	
trans-1,3-Dichloropropene	U	ug/L	1.00	0.400	1	6/24/2018 08:19	JSJ	6/24/2018 17:41	JSJ	
Dibromofluoromethane (S)	93	%	70-130		1	6/24/2018 08:19	JSJ	6/24/2018 17:41	JSJ	
Toluene d8 (S)	105	%	70-130		1	6/24/2018 08:19	JSJ	6/24/2018 17:41	JSJ	

FDOH# E86546

CERTIFICATE OF ANALYSIS

Jupiter Environmental Laboratories, Inc.
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ANALYTICAL RESULTS

Workorder: 1857321
Project ID: McNatts 090113

Lab ID: **1857321007** Date Received: 6/21/2018 08:00 Matrix: Aqueous Liquid
Sample ID: **MW030/GW674** Date Collected: 6/20/2018 11:02

Parameters	Results	Units	PQL	MDL	DF	Prepared	By	Analyzed	By	Qual
4-Bromofluorobenzene (S)	97	%	70-130		1	6/24/2018 08:19	JSJ	6/24/2018 17:41	JSJ	

FDOH# E86546

CERTIFICATE OF ANALYSIS

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ANALYTICAL RESULTS

Workorder: 1857321
Project ID: McNatts 090113

Lab ID: **1857321008** Date Received: 6/21/2018 08:00 Matrix: Aqueous Liquid
Sample ID: **MW036/GW669** Date Collected: 6/20/2018 16:10

Parameters	Results	Units	PQL	MDL	DF	Prepared	By	Analyzed	By	Qual
Volatiles by GC/MS										
Analysis Desc: EPA 8010 Scan by 8260C (W)						Preparation Method: EPA 5030B Analytical Method: EPA 8260C				
1,1,1,2-Tetrachloroethane	U	ug/L	1.00	0.400	1	6/24/2018 08:19	JSJ	6/24/2018 20:05	JSJ	
1,1,1-Trichloroethane	U	ug/L	1.00	0.400	1	6/24/2018 08:19	JSJ	6/24/2018 20:05	JSJ	
1,1,2,2-Tetrachloroethane	U	ug/L	1.00	0.200	1	6/24/2018 08:19	JSJ	6/24/2018 20:05	JSJ	
1,1,2-Trichloroethane	U	ug/L	1.00	0.400	1	6/24/2018 08:19	JSJ	6/24/2018 20:05	JSJ	
1,1-Dichloroethane	U	ug/L	1.00	0.400	1	6/24/2018 08:19	JSJ	6/24/2018 20:05	JSJ	
1,1-Dichloroethene	U	ug/L	1.00	0.400	1	6/24/2018 08:19	JSJ	6/24/2018 20:05	JSJ	
1,1-Dichloropropene	U	ug/L	1.00	0.400	1	6/24/2018 08:19	JSJ	6/24/2018 20:05	JSJ	
1,2-DBCP	U	ug/L	1.00	0.550	1	6/24/2018 08:19	JSJ	6/24/2018 20:05	JSJ	
1,2-Dibromoethane (EDB)	U	ug/L	1.00	0.400	1	6/24/2018 08:19	JSJ	6/24/2018 20:05	JSJ	
1,2-Dichlorobenzene	U	ug/L	1.00	0.400	1	6/24/2018 08:19	JSJ	6/24/2018 20:05	JSJ	
1,2-Dichloroethane	U	ug/L	1.00	0.400	1	6/24/2018 08:19	JSJ	6/24/2018 20:05	JSJ	
1,2-Dichloropropane	U	ug/L	1.00	0.400	1	6/24/2018 08:19	JSJ	6/24/2018 20:05	JSJ	
1,3-Dichlorobenzene	U	ug/L	1.00	0.400	1	6/24/2018 08:19	JSJ	6/24/2018 20:05	JSJ	
1,3-Dichloropropane	U	ug/L	1.00	0.400	1	6/24/2018 08:19	JSJ	6/24/2018 20:05	JSJ	
1,4-Dichlorobenzene	U	ug/L	1.00	0.400	1	6/24/2018 08:19	JSJ	6/24/2018 20:05	JSJ	
2,2-Dichloropropane	U	ug/L	1.00	0.400	1	6/24/2018 08:19	JSJ	6/24/2018 20:05	JSJ	
Bromochloromethane	U	ug/L	1.00	0.400	1	6/24/2018 08:19	JSJ	6/24/2018 20:05	JSJ	
Bromodichloromethane	U	ug/L	1.00	0.400	1	6/24/2018 08:19	JSJ	6/24/2018 20:05	JSJ	
Bromoform	U	ug/L	1.00	0.550	1	6/24/2018 08:19	JSJ	6/24/2018 20:05	JSJ	
Bromomethane	U	ug/L	6.00	4.00	1	6/24/2018 08:19	JSJ	6/24/2018 20:05	JSJ	
Carbon tetrachloride	U	ug/L	1.00	0.400	1	6/24/2018 08:19	JSJ	6/24/2018 20:05	JSJ	
Chlorobenzene	U	ug/L	1.00	0.400	1	6/24/2018 08:19	JSJ	6/24/2018 20:05	JSJ	
Chloroethane	U	ug/L	1.00	0.400	1	6/24/2018 08:19	JSJ	6/24/2018 20:05	JSJ	
Chloroform	U	ug/L	1.00	0.400	1	6/24/2018 08:19	JSJ	6/24/2018 20:05	JSJ	
Chloromethane	U	ug/L	5.00	2.50	1	6/24/2018 08:19	JSJ	6/24/2018 20:05	JSJ	
Dibromochloromethane	U	ug/L	1.00	0.400	1	6/24/2018 08:19	JSJ	6/24/2018 20:05	JSJ	
Dibromomethane	U	ug/L	1.00	0.400	1	6/24/2018 08:19	JSJ	6/24/2018 20:05	JSJ	
Dichlorodifluoromethane	U	ug/L	1.00	0.400	1	6/24/2018 08:19	JSJ	6/24/2018 20:05	JSJ	
cis-1,3-Dichloropropene	U	ug/L	1.00	0.400	1	6/24/2018 08:19	JSJ	6/24/2018 20:05	JSJ	
Methylene chloride	U	ug/L	4.00	2.00	1	6/24/2018 08:19	JSJ	6/24/2018 20:05	JSJ	
Tetrachloroethene	U	ug/L	1.00	0.400	1	6/24/2018 08:19	JSJ	6/24/2018 20:05	JSJ	
Trichloroethene	U	ug/L	1.00	0.400	1	6/24/2018 08:19	JSJ	6/24/2018 20:05	JSJ	
Trichlorofluoromethane	U	ug/L	1.00	0.400	1	6/24/2018 08:19	JSJ	6/24/2018 20:05	JSJ	
Vinyl chloride	U	ug/L	1.00	0.400	1	6/24/2018 08:19	JSJ	6/24/2018 20:05	JSJ	
cis-1,2-Dichloroethene	U	ug/L	1.00	0.400	1	6/24/2018 08:19	JSJ	6/24/2018 20:05	JSJ	
trans-1,2-Dichloroethene	U	ug/L	1.00	0.400	1	6/24/2018 08:19	JSJ	6/24/2018 20:05	JSJ	
trans-1,3-Dichloropropene	U	ug/L	1.00	0.400	1	6/24/2018 08:19	JSJ	6/24/2018 20:05	JSJ	
Dibromofluoromethane (S)	92	%	70-130		1	6/24/2018 08:19	JSJ	6/24/2018 20:05	JSJ	
Toluene d8 (S)	105	%	70-130		1	6/24/2018 08:19	JSJ	6/24/2018 20:05	JSJ	

FDOH# E86546

CERTIFICATE OF ANALYSIS

Jupiter Environmental Laboratories, Inc.
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ANALYTICAL RESULTS

Workorder: 1857321
Project ID: McNatts 090113

Lab ID: **1857321008** Date Received: 6/21/2018 08:00 Matrix: Aqueous Liquid
Sample ID: **MW036/GW669** Date Collected: 6/20/2018 16:10

Parameters	Results	Units	PQL	MDL	DF	Prepared	By	Analyzed	By	Qual
4-Bromofluorobenzene (S)	96	%	70-130		1	6/24/2018 08:19	JSJ	6/24/2018 20:05	JSJ	

FDOH# E86546

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ANALYTICAL RESULTS

Workorder: 1857321
Project ID: McNatts 090113

Lab ID: **1857321009** Date Received: 6/21/2018 08:00 Matrix: Aqueous Liquid
Sample ID: **MW039/GW672** Date Collected: 6/20/2018 12:15

Parameters	Results	Units	PQL	MDL	DF	Prepared	By	Analyzed	By	Qual
Analysis Desc: EPA 350.1 Ammonia (W)						Preparation Method: Wet Chem Prep Analytical Method: EPA 350.1 (non-distilled)				
Ammonia (N)	0.53	mg/L	0.10	0.0500	1	6/28/2018 08:33	CF	7/3/2018 13:31	CF	
Volatiles by GC/MS										
Analysis Desc: EPA 8010 Scan by 8260C (W)						Preparation Method: EPA 5030B Analytical Method: EPA 8260C				
1,1,1,2-Tetrachloroethane	U	ug/L	1.00	0.400	1	6/24/2018 08:19	JSJ	6/24/2018 18:05	JSJ	
1,1,1-Trichloroethane	U	ug/L	1.00	0.400	1	6/24/2018 08:19	JSJ	6/24/2018 18:05	JSJ	
1,1,2,2-Tetrachloroethane	U	ug/L	1.00	0.200	1	6/24/2018 08:19	JSJ	6/24/2018 18:05	JSJ	
1,1,2-Trichloroethane	U	ug/L	1.00	0.400	1	6/24/2018 08:19	JSJ	6/24/2018 18:05	JSJ	
1,1-Dichloroethane	U	ug/L	1.00	0.400	1	6/24/2018 08:19	JSJ	6/24/2018 18:05	JSJ	
1,1-Dichloroethene	U	ug/L	1.00	0.400	1	6/24/2018 08:19	JSJ	6/24/2018 18:05	JSJ	
1,1-Dichloropropene	U	ug/L	1.00	0.400	1	6/24/2018 08:19	JSJ	6/24/2018 18:05	JSJ	
1,2-DBCP	U	ug/L	1.00	0.550	1	6/24/2018 08:19	JSJ	6/24/2018 18:05	JSJ	
1,2-Dibromoethane (EDB)	U	ug/L	1.00	0.400	1	6/24/2018 08:19	JSJ	6/24/2018 18:05	JSJ	
1,2-Dichlorobenzene	U	ug/L	1.00	0.400	1	6/24/2018 08:19	JSJ	6/24/2018 18:05	JSJ	
1,2-Dichloroethane	U	ug/L	1.00	0.400	1	6/24/2018 08:19	JSJ	6/24/2018 18:05	JSJ	
1,2-Dichloropropane	U	ug/L	1.00	0.400	1	6/24/2018 08:19	JSJ	6/24/2018 18:05	JSJ	
1,3-Dichlorobenzene	U	ug/L	1.00	0.400	1	6/24/2018 08:19	JSJ	6/24/2018 18:05	JSJ	
1,3-Dichloropropane	U	ug/L	1.00	0.400	1	6/24/2018 08:19	JSJ	6/24/2018 18:05	JSJ	
1,4-Dichlorobenzene	U	ug/L	1.00	0.400	1	6/24/2018 08:19	JSJ	6/24/2018 18:05	JSJ	
2,2-Dichloropropane	U	ug/L	1.00	0.400	1	6/24/2018 08:19	JSJ	6/24/2018 18:05	JSJ	
Bromochloromethane	U	ug/L	1.00	0.400	1	6/24/2018 08:19	JSJ	6/24/2018 18:05	JSJ	
Bromodichloromethane	U	ug/L	1.00	0.400	1	6/24/2018 08:19	JSJ	6/24/2018 18:05	JSJ	
Bromoform	U	ug/L	1.00	0.550	1	6/24/2018 08:19	JSJ	6/24/2018 18:05	JSJ	
Bromomethane	U	ug/L	6.00	4.00	1	6/24/2018 08:19	JSJ	6/24/2018 18:05	JSJ	
Carbon tetrachloride	U	ug/L	1.00	0.400	1	6/24/2018 08:19	JSJ	6/24/2018 18:05	JSJ	
Chlorobenzene	U	ug/L	1.00	0.400	1	6/24/2018 08:19	JSJ	6/24/2018 18:05	JSJ	
Chloroethane	U	ug/L	1.00	0.400	1	6/24/2018 08:19	JSJ	6/24/2018 18:05	JSJ	
Chloroform	U	ug/L	1.00	0.400	1	6/24/2018 08:19	JSJ	6/24/2018 18:05	JSJ	
Chloromethane	U	ug/L	5.00	2.50	1	6/24/2018 08:19	JSJ	6/24/2018 18:05	JSJ	
Dibromochloromethane	U	ug/L	1.00	0.400	1	6/24/2018 08:19	JSJ	6/24/2018 18:05	JSJ	
Dibromomethane	U	ug/L	1.00	0.400	1	6/24/2018 08:19	JSJ	6/24/2018 18:05	JSJ	
Dichlorodifluoromethane	U	ug/L	1.00	0.400	1	6/24/2018 08:19	JSJ	6/24/2018 18:05	JSJ	
cis-1,3-Dichloropropene	U	ug/L	1.00	0.400	1	6/24/2018 08:19	JSJ	6/24/2018 18:05	JSJ	
Methylene chloride	U	ug/L	4.00	2.00	1	6/24/2018 08:19	JSJ	6/24/2018 18:05	JSJ	
Tetrachloroethene	U	ug/L	1.00	0.400	1	6/24/2018 08:19	JSJ	6/24/2018 18:05	JSJ	
Trichloroethene	U	ug/L	1.00	0.400	1	6/24/2018 08:19	JSJ	6/24/2018 18:05	JSJ	
Trichlorofluoromethane	U	ug/L	1.00	0.400	1	6/24/2018 08:19	JSJ	6/24/2018 18:05	JSJ	

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ANALYTICAL RESULTS

Workorder: 1857321
Project ID: McNatts 090113

Lab ID: **1857321009** Date Received: 6/21/2018 08:00 Matrix: Aqueous Liquid
Sample ID: **MW039/GW672** Date Collected: 6/20/2018 12:15

Parameters	Results	Units	PQL	MDL	DF	Prepared	By	Analyzed	By	Qual
Vinyl chloride	0.600i	ug/L	1.00	0.400	1	6/24/2018 08:19	JSJ	6/24/2018 18:05	JSJ	
cis-1,2-Dichloroethene	U	ug/L	1.00	0.400	1	6/24/2018 08:19	JSJ	6/24/2018 18:05	JSJ	
trans-1,2-Dichloroethene	U	ug/L	1.00	0.400	1	6/24/2018 08:19	JSJ	6/24/2018 18:05	JSJ	
trans-1,3-Dichloropropene	U	ug/L	1.00	0.400	1	6/24/2018 08:19	JSJ	6/24/2018 18:05	JSJ	
Dibromofluoromethane (S)	86	%	70-130		1	6/24/2018 08:19	JSJ	6/24/2018 18:05	JSJ	
Toluene d8 (S)	104	%	70-130		1	6/24/2018 08:19	JSJ	6/24/2018 18:05	JSJ	
4-Bromofluorobenzene (S)	95	%	70-130		1	6/24/2018 08:19	JSJ	6/24/2018 18:05	JSJ	
Analysis Desc: 4500NO3-H Nitrate+Nitrite (W)						Preparation Method: Wet Chem Prep Analytical Method: SM 4500-NO3 H				
Nitrate-Nitrite (N)	U	mg/L	0.080	0.0400	1	6/25/2018 09:12	CF	6/25/2018 10:50	SW	
Analysis Desc: 4500NO2-B Nitrite (W)						Preparation Method: Wet Chem Prep Analytical Method: SM 4500-NO2 B				
Nitrite (N)	U	mg/L	0.080	0.0400	1	6/25/2018 15:14	CF	6/25/2018 16:17	SW	Q1
Analysis Desc: SM 5310B (W)						Preparation Method: Wet Chem Prep Analytical Method: SM 5310B				
TOC	13.7	mg/L	1.00	0.694	1	6/28/2018 08:51	CF	6/28/2018 09:08	CF	
Analysis Desc: Nitrate (Calc.) (W)						Analytical Method: Calc.				
Nitrate (N)	U	mg/L	0.080	0.0400	1			6/29/2018 16:58	KB	
Analysis Desc: TDS by 2540C [REF] (W)						Analytical Method: SM 2540C				
Total Dissolved Solids	238	mg/L	40.0	10.0	1			6/27/2018 11:00	MD	
Semivolatiles by GC										
Analysis Desc: Florida PRO by GC (W)						Preparation Method: EPA 3510C Analytical Method: FL-PRO (GC)				
Florida Pro Total	0.096i	mg/L	0.150	0.075	1	6/21/2018 15:39	JG	6/21/2018 19:50	BFM	
o-Terphenyl (S)	76	%	50-150		1	6/21/2018 15:39	JG	6/21/2018 19:50	BFM	
n-Triacontane-d62 (S)	82	%	50-150		1	6/21/2018 15:39	JG	6/21/2018 19:50	BFM	
Analysis Desc: EPA 200.8 Metals (W)						Preparation Method: EPA 200.2 mod. Analytical Method: EPA 200.8 (Total)				
Sodium	15	mg/L	0.050	0.013	10	6/21/2018 08:48	ZS	6/21/2018 13:41	ZS	

FDOH# E86546

CERTIFICATE OF ANALYSIS

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ANALYTICAL RESULTS

Workorder: 1857321
Project ID: McNatts 090113

Lab ID: **1857321010** Date Received: 6/21/2018 08:00 Matrix: Aqueous Liquid
Sample ID: **MW040/GW671** Date Collected: 6/20/2018 15:00

Parameters	Results	Units	PQL	MDL	DF	Prepared	By	Analyzed	By	Qual
Analysis Desc: EPA 350.1 Ammonia (W)						Preparation Method: Wet Chem Prep Analytical Method: EPA 350.1 (non-distilled)				
Ammonia (N)	0.11	mg/L	0.10	0.0500	1	6/28/2018 08:33	CF	7/3/2018 13:31	CF	
Volatiles by GC/MS										
Analysis Desc: EPA 8010 Scan by 8260C (W)						Preparation Method: EPA 5030B Analytical Method: EPA 8260C				
1,1,1,2-Tetrachloroethane	U	ug/L	1.00	0.400	1	6/24/2018 08:19	JSJ	6/24/2018 18:29	JSJ	
1,1,1-Trichloroethane	U	ug/L	1.00	0.400	1	6/24/2018 08:19	JSJ	6/24/2018 18:29	JSJ	
1,1,2,2-Tetrachloroethane	U	ug/L	1.00	0.200	1	6/24/2018 08:19	JSJ	6/24/2018 18:29	JSJ	
1,1,2-Trichloroethane	U	ug/L	1.00	0.400	1	6/24/2018 08:19	JSJ	6/24/2018 18:29	JSJ	
1,1-Dichloroethane	U	ug/L	1.00	0.400	1	6/24/2018 08:19	JSJ	6/24/2018 18:29	JSJ	
1,1-Dichloroethene	0.840i	ug/L	1.00	0.400	1	6/24/2018 08:19	JSJ	6/24/2018 18:29	JSJ	
1,1-Dichloropropene	U	ug/L	1.00	0.400	1	6/24/2018 08:19	JSJ	6/24/2018 18:29	JSJ	
1,2-DBCP	U	ug/L	1.00	0.550	1	6/24/2018 08:19	JSJ	6/24/2018 18:29	JSJ	
1,2-Dibromoethane (EDB)	U	ug/L	1.00	0.400	1	6/24/2018 08:19	JSJ	6/24/2018 18:29	JSJ	
1,2-Dichlorobenzene	U	ug/L	1.00	0.400	1	6/24/2018 08:19	JSJ	6/24/2018 18:29	JSJ	
1,2-Dichloroethane	U	ug/L	1.00	0.400	1	6/24/2018 08:19	JSJ	6/24/2018 18:29	JSJ	
1,2-Dichloropropane	U	ug/L	1.00	0.400	1	6/24/2018 08:19	JSJ	6/24/2018 18:29	JSJ	
1,3-Dichlorobenzene	U	ug/L	1.00	0.400	1	6/24/2018 08:19	JSJ	6/24/2018 18:29	JSJ	
1,3-Dichloropropane	U	ug/L	1.00	0.400	1	6/24/2018 08:19	JSJ	6/24/2018 18:29	JSJ	
1,4-Dichlorobenzene	U	ug/L	1.00	0.400	1	6/24/2018 08:19	JSJ	6/24/2018 18:29	JSJ	
2,2-Dichloropropane	U	ug/L	1.00	0.400	1	6/24/2018 08:19	JSJ	6/24/2018 18:29	JSJ	
Bromochloromethane	U	ug/L	1.00	0.400	1	6/24/2018 08:19	JSJ	6/24/2018 18:29	JSJ	
Bromodichloromethane	U	ug/L	1.00	0.400	1	6/24/2018 08:19	JSJ	6/24/2018 18:29	JSJ	
Bromoform	U	ug/L	1.00	0.550	1	6/24/2018 08:19	JSJ	6/24/2018 18:29	JSJ	
Bromomethane	U	ug/L	6.00	4.00	1	6/24/2018 08:19	JSJ	6/24/2018 18:29	JSJ	
Carbon tetrachloride	U	ug/L	1.00	0.400	1	6/24/2018 08:19	JSJ	6/24/2018 18:29	JSJ	
Chlorobenzene	U	ug/L	1.00	0.400	1	6/24/2018 08:19	JSJ	6/24/2018 18:29	JSJ	
Chloroethane	U	ug/L	1.00	0.400	1	6/24/2018 08:19	JSJ	6/24/2018 18:29	JSJ	
Chloroform	U	ug/L	1.00	0.400	1	6/24/2018 08:19	JSJ	6/24/2018 18:29	JSJ	
Chloromethane	U	ug/L	5.00	2.50	1	6/24/2018 08:19	JSJ	6/24/2018 18:29	JSJ	
Dibromochloromethane	U	ug/L	1.00	0.400	1	6/24/2018 08:19	JSJ	6/24/2018 18:29	JSJ	
Dibromomethane	U	ug/L	1.00	0.400	1	6/24/2018 08:19	JSJ	6/24/2018 18:29	JSJ	
Dichlorodifluoromethane	U	ug/L	1.00	0.400	1	6/24/2018 08:19	JSJ	6/24/2018 18:29	JSJ	
cis-1,3-Dichloropropene	U	ug/L	1.00	0.400	1	6/24/2018 08:19	JSJ	6/24/2018 18:29	JSJ	
Methylene chloride	U	ug/L	4.00	2.00	1	6/24/2018 08:19	JSJ	6/24/2018 18:29	JSJ	
Tetrachloroethene	U	ug/L	1.00	0.400	1	6/24/2018 08:19	JSJ	6/24/2018 18:29	JSJ	
Trichloroethene	3.55	ug/L	1.00	0.400	1	6/24/2018 08:19	JSJ	6/24/2018 18:29	JSJ	
Trichlorofluoromethane	U	ug/L	1.00	0.400	1	6/24/2018 08:19	JSJ	6/24/2018 18:29	JSJ	

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ANALYTICAL RESULTS

Workorder: 1857321
Project ID: McNatts 090113

Lab ID: **1857321010** Date Received: 6/21/2018 08:00 Matrix: Aqueous Liquid
Sample ID: **MW040/GW671** Date Collected: 6/20/2018 15:00

Parameters	Results	Units	PQL	MDL	DF	Prepared	By	Analyzed	By	Qual
Vinyl chloride	111	ug/L	1.00	0.400	1	6/24/2018 08:19	JSJ	6/24/2018 18:29	JSJ	
cis-1,2-Dichloroethene	935	ug/L	20.0	8.00	20	6/26/2018 09:20	JSJ	6/26/2018 18:08	JSJ	
trans-1,2-Dichloroethene	10.3	ug/L	1.00	0.400	1	6/24/2018 08:19	JSJ	6/24/2018 18:29	JSJ	
trans-1,3-Dichloropropene	U	ug/L	1.00	0.400	1	6/24/2018 08:19	JSJ	6/24/2018 18:29	JSJ	
Dibromofluoromethane (S)	96	%	70-130		1	6/24/2018 08:19	JSJ	6/24/2018 18:29	JSJ	
Toluene d8 (S)	106	%	70-130		1	6/24/2018 08:19	JSJ	6/24/2018 18:29	JSJ	
4-Bromofluorobenzene (S)	96	%	70-130		1	6/24/2018 08:19	JSJ	6/24/2018 18:29	JSJ	
Analysis Desc: 4500NO3-H Nitrate+Nitrite (W)						Preparation Method: Wet Chem Prep Analytical Method: SM 4500-NO3 H				
Nitrate-Nitrite (N)	U	mg/L	0.080	0.0400	1	6/25/2018 09:12	CF	6/25/2018 10:50	SW	
Analysis Desc: 4500NO2-B Nitrite (W)						Preparation Method: Wet Chem Prep Analytical Method: SM 4500-NO2 B				
Nitrite (N)	U	mg/L	0.080	0.0400	1	6/25/2018 15:14	CF	6/25/2018 15:59	SW	Q1
Analysis Desc: SM 5310B (W)						Preparation Method: Wet Chem Prep Analytical Method: SM 5310B				
TOC	20.9	mg/L	1.00	0.694	1	6/28/2018 08:51	CF	6/28/2018 09:08	CF	
Analysis Desc: Nitrate (Calc.) (W)						Analytical Method: Calc.				
Nitrate (N)	U	mg/L	0.080	0.0400	1			6/29/2018 16:58	KB	
Analysis Desc: TDS by 2540C [REF] (W)						Analytical Method: SM 2540C				
Total Dissolved Solids	453	mg/L	40.0	10.0	1			6/27/2018 11:00	MD	
Semivolatiles by GC										
Analysis Desc: Florida PRO by GC (W)						Preparation Method: EPA 3510C Analytical Method: FL-PRO (GC)				
Florida Pro Total	0.567	mg/L	0.150	0.075	1	6/21/2018 15:39	JG	6/21/2018 20:09	BFM	
o-Terphenyl (S)	75	%	50-150		1	6/21/2018 15:39	JG	6/21/2018 20:09	BFM	
n-Triacontane-d62 (S)	78	%	50-150		1	6/21/2018 15:39	JG	6/21/2018 20:09	BFM	
Analysis Desc: EPA 200.8 Metals (W)						Preparation Method: EPA 200.2 mod. Analytical Method: EPA 200.8 (Total)				
Sodium	69	mg/L	0.050	0.013	10	6/21/2018 08:48	ZS	6/21/2018 13:45	ZS	L1

FDOH# E86546

CERTIFICATE OF ANALYSIS

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ANALYTICAL RESULTS

Workorder: 1857321
Project ID: McNatts 090113

Lab ID: **1857321011** Date Received: 6/21/2018 08:00 Matrix: Aqueous Liquid
Sample ID: **MW042/GW666** Date Collected: 6/20/2018 13:47

Parameters	Results	Units	PQL	MDL	DF	Prepared	By	Analyzed	By	Qual
Analysis Desc: EPA 350.1 Ammonia (W)						Preparation Method: Wet Chem Prep Analytical Method: EPA 350.1 (non-distilled)				
Ammonia (N)	6.3	mg/L	1.0	0.500	10	6/28/2018 08:33	CF	7/3/2018 12:59	CF	
Volatiles by GC/MS										
Analysis Desc: EPA 8010 Scan by 8260C (W)						Preparation Method: EPA 5030B Analytical Method: EPA 8260C				
1,1,1,2-Tetrachloroethane	U	ug/L	5.00	2.00	5	6/24/2018 08:19	JSJ	6/24/2018 20:53	JSJ	
1,1,1-Trichloroethane	U	ug/L	5.00	2.00	5	6/24/2018 08:19	JSJ	6/24/2018 20:53	JSJ	
1,1,2,2-Tetrachloroethane	U	ug/L	5.00	1.00	5	6/24/2018 08:19	JSJ	6/24/2018 20:53	JSJ	
1,1,2-Trichloroethane	U	ug/L	5.00	2.00	5	6/24/2018 08:19	JSJ	6/24/2018 20:53	JSJ	
1,1-Dichloroethane	U	ug/L	5.00	2.00	5	6/24/2018 08:19	JSJ	6/24/2018 20:53	JSJ	
1,1-Dichloroethene	U	ug/L	5.00	2.00	5	6/24/2018 08:19	JSJ	6/24/2018 20:53	JSJ	
1,1-Dichloropropene	U	ug/L	5.00	2.00	5	6/24/2018 08:19	JSJ	6/24/2018 20:53	JSJ	
1,2-DBCP	U	ug/L	5.00	2.75	5	6/24/2018 08:19	JSJ	6/24/2018 20:53	JSJ	
1,2-Dibromoethane (EDB)	U	ug/L	5.00	2.00	5	6/24/2018 08:19	JSJ	6/24/2018 20:53	JSJ	
1,2-Dichlorobenzene	U	ug/L	5.00	2.00	5	6/24/2018 08:19	JSJ	6/24/2018 20:53	JSJ	
1,2-Dichloroethane	U	ug/L	5.00	2.00	5	6/24/2018 08:19	JSJ	6/24/2018 20:53	JSJ	
1,2-Dichloropropane	U	ug/L	5.00	2.00	5	6/24/2018 08:19	JSJ	6/24/2018 20:53	JSJ	
1,3-Dichlorobenzene	U	ug/L	5.00	2.00	5	6/24/2018 08:19	JSJ	6/24/2018 20:53	JSJ	
1,3-Dichloropropane	U	ug/L	5.00	2.00	5	6/24/2018 08:19	JSJ	6/24/2018 20:53	JSJ	
1,4-Dichlorobenzene	U	ug/L	5.00	2.00	5	6/24/2018 08:19	JSJ	6/24/2018 20:53	JSJ	
2,2-Dichloropropane	U	ug/L	5.00	2.00	5	6/24/2018 08:19	JSJ	6/24/2018 20:53	JSJ	
Bromochloromethane	U	ug/L	5.00	2.00	5	6/24/2018 08:19	JSJ	6/24/2018 20:53	JSJ	
Bromodichloromethane	U	ug/L	5.00	2.00	5	6/24/2018 08:19	JSJ	6/24/2018 20:53	JSJ	
Bromoform	U	ug/L	5.00	2.75	5	6/24/2018 08:19	JSJ	6/24/2018 20:53	JSJ	
Bromomethane	U	ug/L	30.0	20.0	5	6/24/2018 08:19	JSJ	6/24/2018 20:53	JSJ	
Carbon tetrachloride	U	ug/L	5.00	2.00	5	6/24/2018 08:19	JSJ	6/24/2018 20:53	JSJ	
Chlorobenzene	U	ug/L	5.00	2.00	5	6/24/2018 08:19	JSJ	6/24/2018 20:53	JSJ	
Chloroethane	U	ug/L	5.00	2.00	5	6/24/2018 08:19	JSJ	6/24/2018 20:53	JSJ	
Chloroform	U	ug/L	5.00	2.00	5	6/24/2018 08:19	JSJ	6/24/2018 20:53	JSJ	
Chloromethane	U	ug/L	25.0	12.5	5	6/24/2018 08:19	JSJ	6/24/2018 20:53	JSJ	
Dibromochloromethane	U	ug/L	5.00	2.00	5	6/24/2018 08:19	JSJ	6/24/2018 20:53	JSJ	
Dibromomethane	U	ug/L	5.00	2.00	5	6/24/2018 08:19	JSJ	6/24/2018 20:53	JSJ	
Dichlorodifluoromethane	U	ug/L	5.00	2.00	5	6/24/2018 08:19	JSJ	6/24/2018 20:53	JSJ	
cis-1,3-Dichloropropene	U	ug/L	5.00	2.00	5	6/24/2018 08:19	JSJ	6/24/2018 20:53	JSJ	
Methylene chloride	U	ug/L	20.0	10.0	5	6/24/2018 08:19	JSJ	6/24/2018 20:53	JSJ	
Tetrachloroethene	U	ug/L	5.00	2.00	5	6/24/2018 08:19	JSJ	6/24/2018 20:53	JSJ	
Trichloroethene	U	ug/L	5.00	2.00	5	6/24/2018 08:19	JSJ	6/24/2018 20:53	JSJ	
Trichlorofluoromethane	U	ug/L	5.00	2.00	5	6/24/2018 08:19	JSJ	6/24/2018 20:53	JSJ	

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ANALYTICAL RESULTS

Workorder: 1857321
Project ID: McNatts 090113

Lab ID: **1857321011** Date Received: 6/21/2018 08:00 Matrix: Aqueous Liquid
Sample ID: **MW042/GW666** Date Collected: 6/20/2018 13:47

Parameters	Results	Units	PQL	MDL	DF	Prepared	By	Analyzed	By	Qual
Vinyl chloride	8.15	ug/L	5.00	2.00	5	6/24/2018 08:19	JSJ	6/24/2018 20:53	JSJ	
cis-1,2-Dichloroethene	7.40	ug/L	5.00	2.00	5	6/24/2018 08:19	JSJ	6/24/2018 20:53	JSJ	
trans-1,2-Dichloroethene	U	ug/L	5.00	2.00	5	6/24/2018 08:19	JSJ	6/24/2018 20:53	JSJ	
trans-1,3-Dichloropropene	U	ug/L	5.00	2.00	5	6/24/2018 08:19	JSJ	6/24/2018 20:53	JSJ	
Dibromofluoromethane (S)	90	%	70-130		5	6/24/2018 08:19	JSJ	6/24/2018 20:53	JSJ	
Toluene d8 (S)	105	%	70-130		5	6/24/2018 08:19	JSJ	6/24/2018 20:53	JSJ	
4-Bromofluorobenzene (S)	95	%	70-130		5	6/24/2018 08:19	JSJ	6/24/2018 20:53	JSJ	
Analysis Desc: 4500NO3-H Nitrate+Nitrite (W)						Preparation Method: Wet Chem Prep Analytical Method: SM 4500-NO3 H				
Nitrate-Nitrite (N)	U	mg/L	0.080	0.0400	1	6/25/2018 09:12	CF	6/25/2018 10:26	SW	
Analysis Desc: 4500NO2-B Nitrite (W)						Preparation Method: Wet Chem Prep Analytical Method: SM 4500-NO2 B				
Nitrite (N)	U	mg/L	0.080	0.0400	1	6/25/2018 15:14	CF	6/25/2018 15:59	SW	Q1
Analysis Desc: SM 5310B (W)						Preparation Method: Wet Chem Prep Analytical Method: SM 5310B				
TOC	30.6	mg/L	1.00	0.694	1	6/28/2018 08:51	CF	6/28/2018 09:08	CF	
Analysis Desc: Nitrate (Calc.) (W)						Analytical Method: Calc.				
Nitrate (N)	U	mg/L	0.080	0.0400	1			6/29/2018 16:58	KB	
Analysis Desc: TDS by 2540C [REF] (W)						Analytical Method: SM 2540C				
Total Dissolved Solids	575	mg/L	40.0	10.0	1			6/27/2018 11:00	MD	
Semivolatiles by GC										
Analysis Desc: Florida PRO by GC (W)						Preparation Method: EPA 3510C Analytical Method: FL-PRO (GC)				
Florida Pro Total	0.428	mg/L	0.150	0.075	1	6/21/2018 15:39	JG	6/21/2018 20:28	BFM	
o-Terphenyl (S)	51	%	50-150		1	6/21/2018 15:39	JG	6/21/2018 20:28	BFM	
n-Triacontane-d62 (S)	53	%	50-150		1	6/21/2018 15:39	JG	6/21/2018 20:28	BFM	
Analysis Desc: EPA 200.8 Metals (W)						Preparation Method: EPA 200.2 mod. Analytical Method: EPA 200.8 (Total)				
Sodium	180	mg/L	0.050	0.013	10	6/21/2018 08:48	ZS	6/21/2018 13:50	ZS	L2

FDOH# E86546

CERTIFICATE OF ANALYSIS

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ANALYTICAL RESULTS

Workorder: 1857321
Project ID: McNatts 090113

Lab ID: **1857321012** Date Received: 6/21/2018 08:00 Matrix: Aqueous Liquid
Sample ID: **MW043/GW663** Date Collected: 6/20/2018 09:37

Parameters	Results	Units	PQL	MDL	DF	Prepared	By	Analyzed	By	Qual
Analysis Desc: EPA 350.1 Ammonia (W)						Preparation Method: Wet Chem Prep Analytical Method: EPA 350.1 (non-distilled)				
Ammonia (N)	0.52	mg/L	0.10	0.0500	1	6/28/2018 08:33	CF	7/3/2018 12:39	CF	
Volatiles by GC/MS										
Analysis Desc: EPA 8010 Scan by 8260C (W)						Preparation Method: EPA 5030B Analytical Method: EPA 8260C				
1,1,1,2-Tetrachloroethane	U	ug/L	1.00	0.400	1	6/24/2018 08:19	JSJ	6/24/2018 18:53	JSJ	
1,1,1-Trichloroethane	U	ug/L	1.00	0.400	1	6/24/2018 08:19	JSJ	6/24/2018 18:53	JSJ	
1,1,2,2-Tetrachloroethane	U	ug/L	1.00	0.200	1	6/24/2018 08:19	JSJ	6/24/2018 18:53	JSJ	
1,1,2-Trichloroethane	U	ug/L	1.00	0.400	1	6/24/2018 08:19	JSJ	6/24/2018 18:53	JSJ	
1,1-Dichloroethane	U	ug/L	1.00	0.400	1	6/24/2018 08:19	JSJ	6/24/2018 18:53	JSJ	
1,1-Dichloroethene	U	ug/L	1.00	0.400	1	6/24/2018 08:19	JSJ	6/24/2018 18:53	JSJ	
1,1-Dichloropropene	U	ug/L	1.00	0.400	1	6/24/2018 08:19	JSJ	6/24/2018 18:53	JSJ	
1,2-DBCP	U	ug/L	1.00	0.550	1	6/24/2018 08:19	JSJ	6/24/2018 18:53	JSJ	
1,2-Dibromoethane (EDB)	U	ug/L	1.00	0.400	1	6/24/2018 08:19	JSJ	6/24/2018 18:53	JSJ	
1,2-Dichlorobenzene	U	ug/L	1.00	0.400	1	6/24/2018 08:19	JSJ	6/24/2018 18:53	JSJ	
1,2-Dichloroethane	U	ug/L	1.00	0.400	1	6/24/2018 08:19	JSJ	6/24/2018 18:53	JSJ	
1,2-Dichloropropane	U	ug/L	1.00	0.400	1	6/24/2018 08:19	JSJ	6/24/2018 18:53	JSJ	
1,3-Dichlorobenzene	U	ug/L	1.00	0.400	1	6/24/2018 08:19	JSJ	6/24/2018 18:53	JSJ	
1,3-Dichloropropane	U	ug/L	1.00	0.400	1	6/24/2018 08:19	JSJ	6/24/2018 18:53	JSJ	
1,4-Dichlorobenzene	U	ug/L	1.00	0.400	1	6/24/2018 08:19	JSJ	6/24/2018 18:53	JSJ	
2,2-Dichloropropane	U	ug/L	1.00	0.400	1	6/24/2018 08:19	JSJ	6/24/2018 18:53	JSJ	
Bromochloromethane	U	ug/L	1.00	0.400	1	6/24/2018 08:19	JSJ	6/24/2018 18:53	JSJ	
Bromodichloromethane	U	ug/L	1.00	0.400	1	6/24/2018 08:19	JSJ	6/24/2018 18:53	JSJ	
Bromoform	U	ug/L	1.00	0.550	1	6/24/2018 08:19	JSJ	6/24/2018 18:53	JSJ	
Bromomethane	U	ug/L	6.00	4.00	1	6/24/2018 08:19	JSJ	6/24/2018 18:53	JSJ	
Carbon tetrachloride	U	ug/L	1.00	0.400	1	6/24/2018 08:19	JSJ	6/24/2018 18:53	JSJ	
Chlorobenzene	U	ug/L	1.00	0.400	1	6/24/2018 08:19	JSJ	6/24/2018 18:53	JSJ	
Chloroethane	U	ug/L	1.00	0.400	1	6/24/2018 08:19	JSJ	6/24/2018 18:53	JSJ	
Chloroform	U	ug/L	1.00	0.400	1	6/24/2018 08:19	JSJ	6/24/2018 18:53	JSJ	
Chloromethane	U	ug/L	5.00	2.50	1	6/24/2018 08:19	JSJ	6/24/2018 18:53	JSJ	
Dibromochloromethane	U	ug/L	1.00	0.400	1	6/24/2018 08:19	JSJ	6/24/2018 18:53	JSJ	
Dibromomethane	U	ug/L	1.00	0.400	1	6/24/2018 08:19	JSJ	6/24/2018 18:53	JSJ	
Dichlorodifluoromethane	U	ug/L	1.00	0.400	1	6/24/2018 08:19	JSJ	6/24/2018 18:53	JSJ	
cis-1,3-Dichloropropene	U	ug/L	1.00	0.400	1	6/24/2018 08:19	JSJ	6/24/2018 18:53	JSJ	
Methylene chloride	U	ug/L	4.00	2.00	1	6/24/2018 08:19	JSJ	6/24/2018 18:53	JSJ	
Tetrachloroethene	15.7	ug/L	1.00	0.400	1	6/24/2018 08:19	JSJ	6/24/2018 18:53	JSJ	
Trichloroethene	1.75	ug/L	1.00	0.400	1	6/24/2018 08:19	JSJ	6/24/2018 18:53	JSJ	
Trichlorofluoromethane	U	ug/L	1.00	0.400	1	6/24/2018 08:19	JSJ	6/24/2018 18:53	JSJ	

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ANALYTICAL RESULTS

Workorder: 1857321
Project ID: McNatts 090113

Lab ID: **1857321012** Date Received: 6/21/2018 08:00 Matrix: Aqueous Liquid
Sample ID: **MW043/GW663** Date Collected: 6/20/2018 09:37

Parameters	Results	Units	PQL	MDL	DF	Prepared	By	Analyzed	By	Qual
Vinyl chloride	0.500i	ug/L	1.00	0.400	1	6/24/2018 08:19	JSJ	6/24/2018 18:53	JSJ	
cis-1,2-Dichloroethene	4.06	ug/L	1.00	0.400	1	6/24/2018 08:19	JSJ	6/24/2018 18:53	JSJ	
trans-1,2-Dichloroethene	U	ug/L	1.00	0.400	1	6/24/2018 08:19	JSJ	6/24/2018 18:53	JSJ	
trans-1,3-Dichloropropene	U	ug/L	1.00	0.400	1	6/24/2018 08:19	JSJ	6/24/2018 18:53	JSJ	
Dibromofluoromethane (S)	90	%	70-130		1	6/24/2018 08:19	JSJ	6/24/2018 18:53	JSJ	
Toluene d8 (S)	105	%	70-130		1	6/24/2018 08:19	JSJ	6/24/2018 18:53	JSJ	
4-Bromofluorobenzene (S)	98	%	70-130		1	6/24/2018 08:19	JSJ	6/24/2018 18:53	JSJ	
Analysis Desc: 4500NO3-H Nitrate+Nitrite (W)						Preparation Method: Wet Chem Prep Analytical Method: SM 4500-NO3 H				
Nitrate-Nitrite (N)	U	mg/L	0.080	0.0400	1	6/25/2018 09:12	CF	6/25/2018 10:27	SW	
Analysis Desc: 4500NO2-B Nitrite (W)						Preparation Method: Wet Chem Prep Analytical Method: SM 4500-NO2 B				
Nitrite (N)	U	mg/L	0.080	0.0400	1	6/25/2018 15:14	CF	6/25/2018 15:59	SW	Q1
Analysis Desc: SM 5310B (W)						Preparation Method: Wet Chem Prep Analytical Method: SM 5310B				
TOC	6.47	mg/L	1.00	0.694	1	6/28/2018 08:51	CF	6/28/2018 09:08	CF	
Analysis Desc: Nitrate (Calc.) (W)						Analytical Method: Calc.				
Nitrate (N)	U	mg/L	0.080	0.0400	1			6/29/2018 16:58	KB	
Analysis Desc: TDS by 2540C [REF] (W)						Analytical Method: SM 2540C				
Total Dissolved Solids	37.0i	mg/L	40.0	10.0	1			6/27/2018 11:00	MD	
Semivolatiles by GC										
Analysis Desc: Florida PRO by GC (W)						Preparation Method: EPA 3510C Analytical Method: FL-PRO (GC)				
Florida Pro Total	U	mg/L	0.150	0.075	1	6/21/2018 15:39	JG	6/21/2018 20:47	BFM	
o-Terphenyl (S)	77	%	50-150		1	6/21/2018 15:39	JG	6/21/2018 20:47	BFM	
n-Triacontane-d62 (S)	80	%	50-150		1	6/21/2018 15:39	JG	6/21/2018 20:47	BFM	
Analysis Desc: EPA 200.8 Metals (W)						Preparation Method: EPA 200.2 mod. Analytical Method: EPA 200.8 (Total)				
Sodium	9.4	mg/L	0.050	0.013	10	6/21/2018 08:48	ZS	6/21/2018 13:55	ZS	

FDOH# E86546

CERTIFICATE OF ANALYSIS

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ANALYTICAL RESULTS

Workorder: 1857321
Project ID: McNatts 090113

Lab ID: **1857321013** Date Received: 6/21/2018 08:00 Matrix: Aqueous Liquid
Sample ID: **MW051/GW665** Date Collected: 6/20/2018 12:17

Parameters	Results	Units	PQL	MDL	DF	Prepared	By	Analyzed	By	Qual
Analysis Desc: EPA 350.1 Ammonia (W)						Preparation Method: Wet Chem Prep Analytical Method: EPA 350.1 (non-distilled)				
Ammonia (N)	35	mg/L	2.0	1.00	20	6/28/2018 08:33	CF	7/3/2018 12:59	AG	
Volatiles by GC/MS										
Analysis Desc: EPA 8010 Scan by 8260C (W)						Preparation Method: EPA 5030B Analytical Method: EPA 8260C				
1,1,1,2-Tetrachloroethane	U	ug/L	2.00	0.800	2	6/24/2018 08:19	JSJ	6/24/2018 20:29	JSJ	
1,1,1-Trichloroethane	U	ug/L	2.00	0.800	2	6/24/2018 08:19	JSJ	6/24/2018 20:29	JSJ	
1,1,2,2-Tetrachloroethane	U	ug/L	2.00	0.400	2	6/24/2018 08:19	JSJ	6/24/2018 20:29	JSJ	
1,1,2-Trichloroethane	U	ug/L	2.00	0.800	2	6/24/2018 08:19	JSJ	6/24/2018 20:29	JSJ	
1,1-Dichloroethane	U	ug/L	2.00	0.800	2	6/24/2018 08:19	JSJ	6/24/2018 20:29	JSJ	
1,1-Dichloroethene	U	ug/L	2.00	0.800	2	6/24/2018 08:19	JSJ	6/24/2018 20:29	JSJ	
1,1-Dichloropropene	U	ug/L	2.00	0.800	2	6/24/2018 08:19	JSJ	6/24/2018 20:29	JSJ	
1,2-DBCP	U	ug/L	2.00	1.10	2	6/24/2018 08:19	JSJ	6/24/2018 20:29	JSJ	
1,2-Dibromoethane (EDB)	U	ug/L	2.00	0.800	2	6/24/2018 08:19	JSJ	6/24/2018 20:29	JSJ	
1,2-Dichlorobenzene	U	ug/L	2.00	0.800	2	6/24/2018 08:19	JSJ	6/24/2018 20:29	JSJ	
1,2-Dichloroethane	U	ug/L	2.00	0.800	2	6/24/2018 08:19	JSJ	6/24/2018 20:29	JSJ	
1,2-Dichloropropane	U	ug/L	2.00	0.800	2	6/24/2018 08:19	JSJ	6/24/2018 20:29	JSJ	
1,3-Dichlorobenzene	U	ug/L	2.00	0.800	2	6/24/2018 08:19	JSJ	6/24/2018 20:29	JSJ	
1,3-Dichloropropane	U	ug/L	2.00	0.800	2	6/24/2018 08:19	JSJ	6/24/2018 20:29	JSJ	
1,4-Dichlorobenzene	U	ug/L	2.00	0.800	2	6/24/2018 08:19	JSJ	6/24/2018 20:29	JSJ	
2,2-Dichloropropane	U	ug/L	2.00	0.800	2	6/24/2018 08:19	JSJ	6/24/2018 20:29	JSJ	
Bromochloromethane	U	ug/L	2.00	0.800	2	6/24/2018 08:19	JSJ	6/24/2018 20:29	JSJ	
Bromodichloromethane	U	ug/L	2.00	0.800	2	6/24/2018 08:19	JSJ	6/24/2018 20:29	JSJ	
Bromoform	U	ug/L	2.00	1.10	2	6/24/2018 08:19	JSJ	6/24/2018 20:29	JSJ	
Bromomethane	U	ug/L	12.0	8.00	2	6/24/2018 08:19	JSJ	6/24/2018 20:29	JSJ	
Carbon tetrachloride	U	ug/L	2.00	0.800	2	6/24/2018 08:19	JSJ	6/24/2018 20:29	JSJ	
Chlorobenzene	U	ug/L	2.00	0.800	2	6/24/2018 08:19	JSJ	6/24/2018 20:29	JSJ	
Chloroethane	U	ug/L	2.00	0.800	2	6/24/2018 08:19	JSJ	6/24/2018 20:29	JSJ	
Chloroform	U	ug/L	2.00	0.800	2	6/24/2018 08:19	JSJ	6/24/2018 20:29	JSJ	
Chloromethane	U	ug/L	10.0	5.00	2	6/24/2018 08:19	JSJ	6/24/2018 20:29	JSJ	
Dibromochloromethane	U	ug/L	2.00	0.800	2	6/24/2018 08:19	JSJ	6/24/2018 20:29	JSJ	
Dibromomethane	U	ug/L	2.00	0.800	2	6/24/2018 08:19	JSJ	6/24/2018 20:29	JSJ	
Dichlorodifluoromethane	U	ug/L	2.00	0.800	2	6/24/2018 08:19	JSJ	6/24/2018 20:29	JSJ	
cis-1,3-Dichloropropene	U	ug/L	2.00	0.800	2	6/24/2018 08:19	JSJ	6/24/2018 20:29	JSJ	
Methylene chloride	U	ug/L	8.00	4.00	2	6/24/2018 08:19	JSJ	6/24/2018 20:29	JSJ	
Tetrachloroethene	11.1	ug/L	2.00	0.800	2	6/24/2018 08:19	JSJ	6/24/2018 20:29	JSJ	
Trichloroethene	16.9	ug/L	2.00	0.800	2	6/24/2018 08:19	JSJ	6/24/2018 20:29	JSJ	
Trichlorofluoromethane	U	ug/L	2.00	0.800	2	6/24/2018 08:19	JSJ	6/24/2018 20:29	JSJ	

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ANALYTICAL RESULTS

Workorder: 1857321
Project ID: McNatts 090113

Lab ID: **1857321013** Date Received: 6/21/2018 08:00 Matrix: Aqueous Liquid
Sample ID: **MW051/GW665** Date Collected: 6/20/2018 12:17

Parameters	Results	Units	PQL	MDL	DF	Prepared	By	Analyzed	By	Qual
Vinyl chloride	6730	ug/L	200	80.0	200	6/26/2018 09:20	JSJ	6/26/2018 18:34	JSJ	J3
cis-1,2-Dichloroethene	3560	ug/L	200	80.0	200	6/26/2018 09:20	JSJ	6/26/2018 18:34	JSJ	
trans-1,2-Dichloroethene	37.3	ug/L	2.00	0.800	2	6/24/2018 08:19	JSJ	6/24/2018 20:29	JSJ	
trans-1,3-Dichloropropene	U	ug/L	2.00	0.800	2	6/24/2018 08:19	JSJ	6/24/2018 20:29	JSJ	
Dibromofluoromethane (S)	94	%	70-130		2	6/24/2018 08:19	JSJ	6/24/2018 20:29	JSJ	
Toluene d8 (S)	106	%	70-130		2	6/24/2018 08:19	JSJ	6/24/2018 20:29	JSJ	
4-Bromofluorobenzene (S)	98	%	70-130		2	6/24/2018 08:19	JSJ	6/24/2018 20:29	JSJ	
Analysis Desc: 4500NO3-H Nitrate+Nitrite (W)					Preparation Method: Wet Chem Prep Analytical Method: SM 4500-NO3 H					
Nitrate-Nitrite (N)	U	mg/L	0.080	0.0400	1	6/25/2018 09:12	CF	6/25/2018 10:27	SW	
Analysis Desc: 4500NO2-B Nitrite (W)					Preparation Method: Wet Chem Prep Analytical Method: SM 4500-NO2 B					
Nitrite (N)	U	mg/L	0.080	0.0400	1	6/25/2018 15:14	CF	6/25/2018 15:59	SW	Q1
Analysis Desc: SM 5310B (W)					Preparation Method: Wet Chem Prep Analytical Method: SM 5310B					
TOC	564	mg/L	100	69.4	100	6/28/2018 08:51	CF	6/28/2018 09:08	CF	
Analysis Desc: Nitrate (Calc.) (W)					Analytical Method: Calc.					
Nitrate (N)	U	mg/L	0.080	0.0400	1			6/29/2018 16:58	KB	
Analysis Desc: TDS by 2540C [REF] (W)					Analytical Method: SM 2540C					
Total Dissolved Solids	1290	mg/L	40.0	10.0	1			6/27/2018 11:00	MD	
Semivolatiles by GC										
Analysis Desc: Florida PRO by GC (W)					Preparation Method: EPA 3510C Analytical Method: FL-PRO (GC)					
Florida Pro Total	64.4	mg/L	0.150	0.075	1	6/21/2018 15:39	JG	6/21/2018 21:06	BFM	L
o-Terphenyl (S)	104	%	50-150		1	6/21/2018 15:39	JG	6/21/2018 21:06	BFM	
n-Triacontane-d62 (S)	132	%	50-150		1	6/21/2018 15:39	JG	6/21/2018 21:06	BFM	
Analysis Desc: EPA 200.8 Metals (W)					Preparation Method: EPA 200.2 mod. Analytical Method: EPA 200.8 (Total)					
Sodium	200	mg/L	0.050	0.013	10	6/21/2018 08:48	ZS	6/21/2018 14:00	ZS	L2

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ANALYTICAL RESULTS

Workorder: 1857321
Project ID: McNatts 090113

Lab ID: **1857321014** Date Received: 6/21/2018 08:00 Matrix: Aqueous Liquid
Sample ID: **MW052/GW670** Date Collected: 6/20/2018 13:51

Parameters	Results	Units	PQL	MDL	DF	Prepared	By	Analyzed	By	Qual
Analysis Desc: EPA 350.1 Ammonia (W)						Preparation Method: Wet Chem Prep Analytical Method: EPA 350.1 (non-distilled)				
Ammonia (N)	1.8	mg/L	1.0	0.500	10	6/28/2018 08:33	CF	7/3/2018 12:59	CF	
Volatiles by GC/MS										
Analysis Desc: EPA 8010 Scan by 8260C (W)						Preparation Method: EPA 5030B Analytical Method: EPA 8260C				
1,1,1,2-Tetrachloroethane	U	ug/L	1.00	0.400	1	6/25/2018 09:22	JSJ	6/25/2018 14:47	JSJ	
1,1,1-Trichloroethane	U	ug/L	1.00	0.400	1	6/25/2018 09:22	JSJ	6/25/2018 14:47	JSJ	
1,1,2,2-Tetrachloroethane	U	ug/L	1.00	0.200	1	6/25/2018 09:22	JSJ	6/25/2018 14:47	JSJ	
1,1,2-Trichloroethane	U	ug/L	1.00	0.400	1	6/25/2018 09:22	JSJ	6/25/2018 14:47	JSJ	
1,1-Dichloroethane	U	ug/L	1.00	0.400	1	6/25/2018 09:22	JSJ	6/25/2018 14:47	JSJ	
1,1-Dichloroethene	3.01	ug/L	1.00	0.400	1	6/25/2018 09:22	JSJ	6/25/2018 14:47	JSJ	
1,1-Dichloropropene	U	ug/L	1.00	0.400	1	6/25/2018 09:22	JSJ	6/25/2018 14:47	JSJ	
1,2-DBCP	U	ug/L	1.00	0.550	1	6/25/2018 09:22	JSJ	6/25/2018 14:47	JSJ	
1,2-Dibromoethane (EDB)	U	ug/L	1.00	0.400	1	6/25/2018 09:22	JSJ	6/25/2018 14:47	JSJ	
1,2-Dichlorobenzene	U	ug/L	1.00	0.400	1	6/25/2018 09:22	JSJ	6/25/2018 14:47	JSJ	
1,2-Dichloroethane	U	ug/L	1.00	0.400	1	6/25/2018 09:22	JSJ	6/25/2018 14:47	JSJ	
1,2-Dichloropropane	U	ug/L	1.00	0.400	1	6/25/2018 09:22	JSJ	6/25/2018 14:47	JSJ	
1,3-Dichlorobenzene	U	ug/L	1.00	0.400	1	6/25/2018 09:22	JSJ	6/25/2018 14:47	JSJ	
1,3-Dichloropropane	U	ug/L	1.00	0.400	1	6/25/2018 09:22	JSJ	6/25/2018 14:47	JSJ	
1,4-Dichlorobenzene	U	ug/L	1.00	0.400	1	6/25/2018 09:22	JSJ	6/25/2018 14:47	JSJ	
2,2-Dichloropropane	U	ug/L	1.00	0.400	1	6/25/2018 09:22	JSJ	6/25/2018 14:47	JSJ	
Bromochloromethane	U	ug/L	1.00	0.400	1	6/25/2018 09:22	JSJ	6/25/2018 14:47	JSJ	
Bromodichloromethane	U	ug/L	1.00	0.400	1	6/25/2018 09:22	JSJ	6/25/2018 14:47	JSJ	
Bromoform	U	ug/L	1.00	0.550	1	6/25/2018 09:22	JSJ	6/25/2018 14:47	JSJ	
Bromomethane	U	ug/L	6.00	4.00	1	6/25/2018 09:22	JSJ	6/25/2018 14:47	JSJ	
Carbon tetrachloride	U	ug/L	1.00	0.400	1	6/25/2018 09:22	JSJ	6/25/2018 14:47	JSJ	
Chlorobenzene	U	ug/L	1.00	0.400	1	6/25/2018 09:22	JSJ	6/25/2018 14:47	JSJ	
Chloroethane	U	ug/L	1.00	0.400	1	6/25/2018 09:22	JSJ	6/25/2018 14:47	JSJ	
Chloroform	U	ug/L	1.00	0.400	1	6/25/2018 09:22	JSJ	6/25/2018 14:47	JSJ	
Chloromethane	U	ug/L	5.00	2.50	1	6/25/2018 09:22	JSJ	6/25/2018 14:47	JSJ	
Dibromochloromethane	U	ug/L	1.00	0.400	1	6/25/2018 09:22	JSJ	6/25/2018 14:47	JSJ	
Dibromomethane	U	ug/L	1.00	0.400	1	6/25/2018 09:22	JSJ	6/25/2018 14:47	JSJ	
Dichlorodifluoromethane	U	ug/L	1.00	0.400	1	6/25/2018 09:22	JSJ	6/25/2018 14:47	JSJ	
cis-1,3-Dichloropropene	U	ug/L	1.00	0.400	1	6/25/2018 09:22	JSJ	6/25/2018 14:47	JSJ	
Methylene chloride	U	ug/L	4.00	2.00	1	6/25/2018 09:22	JSJ	6/25/2018 14:47	JSJ	
Tetrachloroethene	229	ug/L	1.00	0.400	1	6/25/2018 09:22	JSJ	6/25/2018 14:47	JSJ	
Trichloroethene	12.5	ug/L	1.00	0.400	1	6/25/2018 09:22	JSJ	6/25/2018 14:47	JSJ	
Trichlorofluoromethane	U	ug/L	1.00	0.400	1	6/25/2018 09:22	JSJ	6/25/2018 14:47	JSJ	

FDOH# E86546

CERTIFICATE OF ANALYSIS

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ANALYTICAL RESULTS

Workorder: 1857321
Project ID: McNatts 090113

Lab ID: **1857321014** Date Received: 6/21/2018 08:00 Matrix: Aqueous Liquid
Sample ID: **MW052/GW670** Date Collected: 6/20/2018 13:51

Parameters	Results	Units	PQL	MDL	DF	Prepared	By	Analyzed	By	Qual
Vinyl chloride	8.18	ug/L	1.00	0.400	1	6/25/2018 09:22	JSJ	6/25/2018 14:47	JSJ	
cis-1,2-Dichloroethene	2450	ug/L	200	80.0	200	6/26/2018 09:20	JSJ	6/26/2018 19:00	JSJ	
trans-1,2-Dichloroethene	U	ug/L	1.00	0.400	1	6/25/2018 09:22	JSJ	6/25/2018 14:47	JSJ	
trans-1,3-Dichloropropene	U	ug/L	1.00	0.400	1	6/25/2018 09:22	JSJ	6/25/2018 14:47	JSJ	
Dibromofluoromethane (S)	100	%	70-130		1	6/25/2018 09:22	JSJ	6/25/2018 14:47	JSJ	
Toluene d8 (S)	102	%	70-130		1	6/25/2018 09:22	JSJ	6/25/2018 14:47	JSJ	
4-Bromofluorobenzene (S)	101	%	70-130		1	6/25/2018 09:22	JSJ	6/25/2018 14:47	JSJ	
Analysis Desc: 4500NO3-H Nitrate+Nitrite (W)						Preparation Method: Wet Chem Prep Analytical Method: SM 4500-NO3 H				
Nitrate-Nitrite (N)	U	mg/L	0.080	0.0400	1	6/25/2018 09:12	CF	6/25/2018 10:27	SW	
Analysis Desc: 4500NO2-B Nitrite (W)						Preparation Method: Wet Chem Prep Analytical Method: SM 4500-NO2 B				
Nitrite (N)	U	mg/L	0.080	0.0400	1	6/25/2018 15:14	CF	6/25/2018 15:59	SW	Q1
Analysis Desc: SM 5310B (W)						Preparation Method: Wet Chem Prep Analytical Method: SM 5310B				
TOC	30.6	mg/L	1.00	0.694	1	6/28/2018 08:51	CF	6/28/2018 09:08	CF	
Analysis Desc: Nitrate (Calc.) (W)						Analytical Method: Calc.				
Nitrate (N)	U	mg/L	0.080	0.0400	1			6/29/2018 16:58	KB	
Analysis Desc: TDS by 2540C [REF] (W)						Analytical Method: SM 2540C				
Total Dissolved Solids	185	mg/L	40.0	10.0	1			6/27/2018 11:00	MD	
Semivolatiles by GC										
Analysis Desc: Florida PRO by GC (W)						Preparation Method: EPA 3510C Analytical Method: FL-PRO (GC)				
Florida Pro Total	0.873	mg/L	0.150	0.075	1	6/22/2018 09:40	JG	6/22/2018 11:57	BFM	
o-Terphenyl (S)	75	%	50-150		1	6/22/2018 09:40	JG	6/22/2018 11:57	BFM	
n-Triacontane-d62 (S)	82	%	50-150		1	6/22/2018 09:40	JG	6/22/2018 11:57	BFM	
Analysis Desc: EPA 200.8 Metals (W)						Preparation Method: EPA 200.2 mod. Analytical Method: EPA 200.8 (Total)				
Sodium	49	mg/L	0.050	0.013	10	6/21/2018 08:48	ZS	6/21/2018 14:04	ZS	J4h,L1

FDOH# E86546

CERTIFICATE OF ANALYSIS

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ANALYTICAL RESULTS

Workorder: 1857321
Project ID: McNatts 090113

Lab ID: **1857321015** Date Received: 6/21/2018 08:00 Matrix: Aqueous Liquid
Sample ID: **MW053/GW675** Date Collected: 6/20/2018 10:08

Parameters	Results	Units	PQL	MDL	DF	Prepared	By	Analyzed	By	Qual
Volatiles by GC/MS										
Analysis Desc: EPA 8010 Scan by 8260C (W)						Preparation Method: EPA 5030B Analytical Method: EPA 8260C				
1,1,1,2-Tetrachloroethane	U	ug/L	1.00	0.400	1	6/24/2018 08:19	JSJ	6/24/2018 19:41	JSJ	
1,1,1-Trichloroethane	U	ug/L	1.00	0.400	1	6/24/2018 08:19	JSJ	6/24/2018 19:41	JSJ	
1,1,2,2-Tetrachloroethane	U	ug/L	1.00	0.200	1	6/24/2018 08:19	JSJ	6/24/2018 19:41	JSJ	
1,1,2-Trichloroethane	U	ug/L	1.00	0.400	1	6/24/2018 08:19	JSJ	6/24/2018 19:41	JSJ	
1,1-Dichloroethane	U	ug/L	1.00	0.400	1	6/24/2018 08:19	JSJ	6/24/2018 19:41	JSJ	
1,1-Dichloroethene	U	ug/L	1.00	0.400	1	6/24/2018 08:19	JSJ	6/24/2018 19:41	JSJ	
1,1-Dichloropropene	U	ug/L	1.00	0.400	1	6/24/2018 08:19	JSJ	6/24/2018 19:41	JSJ	
1,2-DBCP	U	ug/L	1.00	0.550	1	6/24/2018 08:19	JSJ	6/24/2018 19:41	JSJ	
1,2-Dibromoethane (EDB)	U	ug/L	1.00	0.400	1	6/24/2018 08:19	JSJ	6/24/2018 19:41	JSJ	
1,2-Dichlorobenzene	U	ug/L	1.00	0.400	1	6/24/2018 08:19	JSJ	6/24/2018 19:41	JSJ	
1,2-Dichloroethane	U	ug/L	1.00	0.400	1	6/24/2018 08:19	JSJ	6/24/2018 19:41	JSJ	
1,2-Dichloropropane	U	ug/L	1.00	0.400	1	6/24/2018 08:19	JSJ	6/24/2018 19:41	JSJ	
1,3-Dichlorobenzene	U	ug/L	1.00	0.400	1	6/24/2018 08:19	JSJ	6/24/2018 19:41	JSJ	
1,3-Dichloropropane	U	ug/L	1.00	0.400	1	6/24/2018 08:19	JSJ	6/24/2018 19:41	JSJ	
1,4-Dichlorobenzene	U	ug/L	1.00	0.400	1	6/24/2018 08:19	JSJ	6/24/2018 19:41	JSJ	
2,2-Dichloropropane	U	ug/L	1.00	0.400	1	6/24/2018 08:19	JSJ	6/24/2018 19:41	JSJ	
Bromochloromethane	U	ug/L	1.00	0.400	1	6/24/2018 08:19	JSJ	6/24/2018 19:41	JSJ	
Bromodichloromethane	U	ug/L	1.00	0.400	1	6/24/2018 08:19	JSJ	6/24/2018 19:41	JSJ	
Bromoform	U	ug/L	1.00	0.550	1	6/24/2018 08:19	JSJ	6/24/2018 19:41	JSJ	
Bromomethane	U	ug/L	6.00	4.00	1	6/24/2018 08:19	JSJ	6/24/2018 19:41	JSJ	
Carbon tetrachloride	U	ug/L	1.00	0.400	1	6/24/2018 08:19	JSJ	6/24/2018 19:41	JSJ	
Chlorobenzene	U	ug/L	1.00	0.400	1	6/24/2018 08:19	JSJ	6/24/2018 19:41	JSJ	
Chloroethane	U	ug/L	1.00	0.400	1	6/24/2018 08:19	JSJ	6/24/2018 19:41	JSJ	
Chloroform	U	ug/L	1.00	0.400	1	6/24/2018 08:19	JSJ	6/24/2018 19:41	JSJ	
Chloromethane	U	ug/L	5.00	2.50	1	6/24/2018 08:19	JSJ	6/24/2018 19:41	JSJ	
Dibromochloromethane	U	ug/L	1.00	0.400	1	6/24/2018 08:19	JSJ	6/24/2018 19:41	JSJ	
Dibromomethane	U	ug/L	1.00	0.400	1	6/24/2018 08:19	JSJ	6/24/2018 19:41	JSJ	
Dichlorodifluoromethane	U	ug/L	1.00	0.400	1	6/24/2018 08:19	JSJ	6/24/2018 19:41	JSJ	
cis-1,3-Dichloropropene	U	ug/L	1.00	0.400	1	6/24/2018 08:19	JSJ	6/24/2018 19:41	JSJ	
Methylene chloride	U	ug/L	4.00	2.00	1	6/24/2018 08:19	JSJ	6/24/2018 19:41	JSJ	
Tetrachloroethene	U	ug/L	1.00	0.400	1	6/24/2018 08:19	JSJ	6/24/2018 19:41	JSJ	
Trichloroethene	U	ug/L	1.00	0.400	1	6/24/2018 08:19	JSJ	6/24/2018 19:41	JSJ	
Trichlorofluoromethane	U	ug/L	1.00	0.400	1	6/24/2018 08:19	JSJ	6/24/2018 19:41	JSJ	
Vinyl chloride	U	ug/L	1.00	0.400	1	6/24/2018 08:19	JSJ	6/24/2018 19:41	JSJ	
cis-1,2-Dichloroethene	U	ug/L	1.00	0.400	1	6/24/2018 08:19	JSJ	6/24/2018 19:41	JSJ	
trans-1,2-Dichloroethene	U	ug/L	1.00	0.400	1	6/24/2018 08:19	JSJ	6/24/2018 19:41	JSJ	
trans-1,3-Dichloropropene	U	ug/L	1.00	0.400	1	6/24/2018 08:19	JSJ	6/24/2018 19:41	JSJ	
Dibromofluoromethane (S)	94	%	70-130		1	6/24/2018 08:19	JSJ	6/24/2018 19:41	JSJ	
Toluene d8 (S)	107	%	70-130		1	6/24/2018 08:19	JSJ	6/24/2018 19:41	JSJ	

FDOH# E86546

CERTIFICATE OF ANALYSIS

Jupiter Environmental Laboratories, Inc.
150 S. Old Dixie Highway
Jupiter, FL 33458
Phone: (561)575-0030
Fax: (561)575-4118

ANALYTICAL RESULTS

Workorder: 1857321
Project ID: McNatts 090113

Lab ID: **1857321015** Date Received: 6/21/2018 08:00 Matrix: Aqueous Liquid
Sample ID: **MW053/GW675** Date Collected: 6/20/2018 10:08

Parameters	Results	Units	PQL	MDL	DF	Prepared	By	Analyzed	By	Qual
4-Bromofluorobenzene (S)	96	%	70-130		1	6/24/2018 08:19	JSJ	6/24/2018 19:41	JSJ	

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ANALYTICAL RESULTS QUALIFIERS

Workorder: 1857321

Project ID: McNatts 090113

PARAMETER QUALIFIERS

J3	The reported value failed to meet the established quality control for either precision or accuracy.
J4h	MS/MSD recovery exceeded control limits due to high background sample concentration. LCS/LCSD recovery was within acceptable range.
L	Off-scale high. Reported value is above the calibration range.
L1	Reported value is above the calibration range but is within the instrument LDR (Linear Dynamic Range).
L2	Off-scale high. Reported value is above the calibration range and the instrument LDR (Linear Dynamic Range).
Q1	Sample received past/too close to the accepted holding time.

PROJECT COMMENTS

1857321	A reported value of U indicates that the compound was analyzed for but not detected above the MDL. A value flagged with an "i" flag indicates that the reported value is between the laboratory method detection limit and the practical quantitation limit.

FDOH# E86546

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QUALITY CONTROL DATA

Workorder: 1857321

Project ID: McNatts 090113

QC Batch: MXX/9773 Analysis Method: EPA 200.8 (Total)

QC Batch Method: EPA 200.2 mod.

Associated Lab Samples: 1857311001 1857313001 1857319001 1857319002 1857321001 1857321006 1857321009 1857321010 1857321011 1857321012 1857321013 1857321014

METHOD BLANK: 144314

Parameter	Units	Blank Result	Reporting Limit	Qualifiers
Sodium	mg/L	0.0015i	0.0013	

LABORATORY CONTROL SAMPLE & LCSD: 144315 144316

Parameter	Units	Spike Conc.	LCS Result	LCSD Result	LCS % Rec	LCSD % Rec	% Rec Limit	RPD	Max RPD	Qualifiers
Sodium	mg/L	0.5	0.53	0.53	106	105	80-120	0	20	

MATRIX SPIKE SAMPLE: 144318 Original: 1857319002

Parameter	Units	Original Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Sodium	mg/L	27	0.5	28	37.4	70-130	

MATRIX SPIKE SAMPLE: 144320 Original: 1857321014

Parameter	Units	Original Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Sodium	mg/L	49	0.5	49	-104	70-130	J4h

SAMPLE DUPLICATE: 144317 Original: 1857319002

Parameter	Units	Original Result	DUP Result	RPD	Max RPD	Qualifiers
Sodium	mg/L	27	26	3.77	20	

FDOH# E86546

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QUALITY CONTROL DATA

Workorder: 1857321

Project ID: McNatts 090113

SAMPLE DUPLICATE: 144319 Original: 1857321014

Parameter	Units	Original Result	DUP Result	RPD	Max RPD	Qualifiers
Sodium	mg/L	49	50	2.02	20	

FDOH# E86546

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QUALITY CONTROL DATA

Workorder: 1857321

Project ID: McNatts 090113

QC Batch: XXX/11136 Analysis Method: FL-PRO (GC)

QC Batch Method: EPA 3510C

Associated Lab Samples: 1857321001 1857321006 1857321009 1857321010 1857321011 1857321012 1857321013 1857321014 1857341001

METHOD BLANK: 144365

Parameter	Units	Blank Result	Reporting Limit	Qualifiers
Semivolatiles by GC				
o-Terphenyl (S)	%	82	50-150	
n-Triacontane-d62 (S)	%	81	50-150	
Florida Pro Total	mg/L	U	0.080	

LABORATORY CONTROL SAMPLE & LCSD: 144366 144367

Parameter	Units	Spike Conc.	LCS Result	LCSD Result	LCS % Rec	LCSD % Rec	% Rec Limit	RPD	Max RPD	Qualifiers
Semivolatiles by GC										
o-Terphenyl (S)	%				85	83	50-150	3	20	
n-Triacontane-d62 (S)	%				87	87	50-150	0	20	
Florida Pro Total	mg/L	0.68	0.577	0.595	85	88	55-118	3	20	

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QUALITY CONTROL DATA

Workorder: 1857321

Project ID: McNatts 090113

QC Batch: WXX/5657 Analysis Method: SM 4500-NO3 H

QC Batch Method: Wet Chem Prep

Associated Lab Samples: 1857321001 1857321006 1857321009 1857321010 1857321011 1857321012 1857321013 1857321014 1857352001

METHOD BLANK: 144461

Parameter	Units	Blank Result	Reporting Limit	Qualifiers
Nitrate-Nitrite (N)	mg/L	U	0.040	

LABORATORY CONTROL SAMPLE & LCSD: 144462 144463

Parameter	Units	Spike Conc.	LCS Result	LCSD Result	LCS % Rec	LCSD % Rec	% Rec Limit	RPD	Max RPD	Qualifiers
Nitrate-Nitrite (N)	mg/L	0.5	0.49	0.50	97.3	99.7	85-115	2	20	

LABORATORY CONTROL SAMPLE: 144467

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Nitrate-Nitrite (N)	mg/L	0.5	0.48	96.2	85-115	

LABORATORY CONTROL SAMPLE & LCSD: 144468 144469

Parameter	Units	Spike Conc.	LCS Result	LCSD Result	LCS % Rec	LCSD % Rec	% Rec Limit	RPD	Max RPD	Qualifiers
Nitrate-Nitrite (N)	mg/L	0.5	0.51	0.48	102	96	85-115	6.1	20	

MATRIX SPIKE SAMPLE: 144464 Original: 1857321001

Parameter	Units	Original Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Nitrate-Nitrite (N)	mg/L	2.5	0.5	2.9	91.9	85-115	

FDOH# E86546

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QUALITY CONTROL DATA

Workorder: 1857321

Project ID: McNatts 090113

SAMPLE DUPLICATE: 144466 Original: 1857321001

Parameter	Units	Original Result	DUP Result	RPD	Max RPD	Qualifiers
Nitrate-Nitrite (N)	mg/L	2.5	2.5	0	20	

FDOH# E86546

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QUALITY CONTROL DATA

Workorder: 1857321

Project ID: McNatts 090113

QC Batch: VXX/8129 Analysis Method: EPA 8260C

QC Batch Method: EPA 5030B

Associated Lab Samples: 1857321001, 1857321002, 1857321003, 1857321004, 1857321005, 1857321006, 1857321007, 1857321008, 1857321009, 1857321010, 1857321011, 1857321012, 1857321013, 1857321015, 1857322001, 1857322002, 1857322003, 1857322004, 1857322005, 1857322006, 1857322007

METHOD BLANK: 144476

Parameter	Units	Blank Result	Reporting Limit	Qualifiers
Volatiles by GC/MS				
Dibromofluoromethane (S)	%	87	70-130	
Toluene d8 (S)	%	104	70-130	
4-Bromofluorobenzene (S)	%	100	70-130	
Dichlorodifluoromethane	ug/L	U	0.400	
Chloromethane	ug/L	U	2.50	
Vinyl chloride	ug/L	U	0.400	
Bromomethane	ug/L	U	4.00	
Chloroethane	ug/L	U	0.400	
Trichlorofluoromethane	ug/L	U	0.400	
1,1-Dichloroethene	ug/L	U	0.400	
Methylene chloride	ug/L	U	2.00	
trans-1,2-Dichloroethene	ug/L	U	0.400	
1,1-Dichloroethane	ug/L	U	0.400	
cis-1,2-Dichloroethene	ug/L	U	0.400	
Bromochloromethane	ug/L	U	0.400	
Chloroform	ug/L	U	0.400	
2,2-Dichloropropane	ug/L	U	0.400	
1,2-Dichloroethane	ug/L	U	0.400	
1,1,1-Trichloroethane	ug/L	U	0.400	
1,1-Dichloropropene	ug/L	U	0.400	
Carbon tetrachloride	ug/L	U	0.400	
Dibromomethane	ug/L	U	0.400	
1,2-Dichloropropane	ug/L	U	0.400	
Trichloroethene	ug/L	U	0.400	
Bromodichloromethane	ug/L	U	0.400	
cis-1,3-Dichloropropene	ug/L	U	0.400	
trans-1,3-Dichloropropene	ug/L	U	0.400	
1,1,2-Trichloroethane	ug/L	U	0.400	
1,3-Dichloropropane	ug/L	U	0.400	
Dibromochloromethane	ug/L	U	0.400	
1,2-Dibromoethane (EDB)	ug/L	U	0.400	
Tetrachloroethene	ug/L	U	0.400	
1,1,1,2-Tetrachloroethane	ug/L	U	0.400	
Chlorobenzene	ug/L	U	0.400	
Bromoform	ug/L	U	0.550	
1,1,2,2-Tetrachloroethane	ug/L	U	0.200	

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QUALITY CONTROL DATA

Workorder: 1857321

Project ID: McNatts 090113

METHOD BLANK: 144476

Parameter	Units	Blank Result	Reporting Limit	Qualifiers
1,3-Dichlorobenzene	ug/L	U	0.400	
1,4-Dichlorobenzene	ug/L	U	0.400	
1,2-Dichlorobenzene	ug/L	U	0.400	
1,2-DBCP	ug/L	U	0.550	

LABORATORY CONTROL SAMPLE & LCSD: 144477 144478

Parameter	Units	Spike Conc.	LCS Result	LCSD Result	LCS % Rec	LCSD % Rec	% Rec Limit	RPD	Max RPD	Qualifiers
Volatiles by GC/MS										
Dibromofluoromethane (S)	%				96	99	70-130	3	25	
Toluene d8 (S)	%				109	99	70-130	10	25	
4-Bromofluorobenzene (S)	%				101	100	70-130	0.7	25	
Dichlorodifluoromethane	ug/L	50.1	56.4	52.5	113	105	70-130	7	25	
Chloromethane	ug/L	50	35.5	43.8	71	88	60-130	21	25	
Vinyl chloride	ug/L	50.3	38.0	36.0	76	72	70-130	5	25	
Bromomethane	ug/L	50	45.6	50.4	91	101	60-130	10	25	
Chloroethane	ug/L	49.9	52.5	46.3	105	93	70-130	13	25	
Trichlorofluoromethane	ug/L	49.7	46.6	45.8	94	92	70-130	2	25	
1,1-Dichloroethene	ug/L	49.5	49.1	43.6	99	88	70-130	12	25	
Methylene chloride	ug/L	50	54.4	49.2	109	98	60-130	10	25	
trans-1,2-Dichloroethene	ug/L	50	50.1	42.2	100	84	70-130	17	25	
1,1-Dichloroethane	ug/L	49.5	49.5	45.8	100	92	70-130	8	25	
cis-1,2-Dichloroethene	ug/L	49.6	51.4	49.8	104	100	70-130	3	25	
Bromochloromethane	ug/L	49.6	51.2	51.8	103	104	70-130	1	25	
Chloroform	ug/L	49.7	53.3	49.4	107	99	70-130	8	25	
2,2-Dichloropropane	ug/L	50	52.9	48.9	106	98	50-130	8	25	
1,2-Dichloroethane	ug/L	50.4	57.2	50.5	113	100	70-130	12	25	
1,1,1-Trichloroethane	ug/L	50	58.7	48.5	117	97	70-130	19	25	
1,1-Dichloropropene	ug/L	50.2	56.4	47.5	112	95	70-130	17	25	
Carbon tetrachloride	ug/L	50	59.4	51.2	119	102	60-130	15	25	
Dibromomethane	ug/L	49.6	59.9	52.6	121	106	70-130	13	25	
1,2-Dichloropropane	ug/L	49.8	54.5	49.0	109	98	70-130	11	25	
Trichloroethene	ug/L	50.3	50.6	43.6	101	87	70-130	15	25	
Bromodichloromethane	ug/L	49.2	59.8	50.9	121	103	70-130	16	25	
cis-1,3-Dichloropropene	ug/L	51	63.4	55.9	124	110	60-130	13	25	
trans-1,3-Dichloropropene	ug/L	49.2	58.0	50.4	118	102	60-130	14	25	
1,1,2-Trichloroethane	ug/L	49.5	63.4	55.9	128	113	70-130	13	25	
1,3-Dichloropropane	ug/L	50.2	58.1	56.9	116	113	70-130	2	25	
Dibromochloromethane	ug/L	49.2	69.6	64.9	142	132	70-130	7	25	J3a
1,2-Dibromoethane (EDB)	ug/L	49.7	63.3	62.3	128	125	70-130	2	25	
Tetrachloroethene	ug/L	49.9	49.7	47.2	100	95	70-130	5	25	

FDOH# E86546

CERTIFICATE OF ANALYSIS

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QUALITY CONTROL DATA

Workorder: 1857321

Project ID: McNatts 090113

LABORATORY CONTROL SAMPLE & LCSD: 144477 144478

Parameter	Units	Spike Conc.	LCS Result	LCSD Result	LCS % Rec	LCSD % Rec	% Rec Limit	RPD	Max RPD	Qualifiers
1,1,1,2-Tetrachloroethane	ug/L	49.6	58.0	56.1	117	113	70-130	3	25	
Chlorobenzene	ug/L	49.9	56.0	53.1	112	106	70-130	5	25	
Bromoform	ug/L	49.7	61.5	60.0	124	121	70-130	2	25	
1,1,2,2-Tetrachloroethane	ug/L	50.2	73.2	69.3	146	138	70-130	5	25	J3a
1,3-Dichlorobenzene	ug/L	50	55.6	54.0	111	108	70-130	3	25	
1,4-Dichlorobenzene	ug/L	50	55.5	53.3	111	106	70-130	4	25	
1,2-Dichlorobenzene	ug/L	49.5	54.5	52.9	110	107	70-130	3	25	
1,2-DBCP	ug/L	49.8	91.5	93.5	184	188	60-130	2	25	J3a

SAMPLE DUPLICATE: 144479 Original: 1857322001

Parameter	Units	Original Result	DUP Result	RPD	Max RPD	Qualifiers
Volatiles by GC/MS						
Dibromofluoromethane (S)	%	34.4		14	25	
Toluene d8 (S)	%	41.6		1	25	
4-Bromofluorobenzene (S)	%	39.1		4	25	
Dichlorodifluoromethane	ug/L	0	U	0	25	
Chloromethane	ug/L	0	U	0	25	
Vinyl chloride	ug/L	0.94	0.920i	2	25	
Bromomethane	ug/L	0	U	0	25	
Chloroethane	ug/L	0	U	0	25	
Trichlorofluoromethane	ug/L	0	U	0	25	
1,1-Dichloroethene	ug/L	0	U	0	25	
Methylene chloride	ug/L	0	U	0	25	
trans-1,2-Dichloroethene	ug/L	0	U	0	25	
1,1-Dichloroethane	ug/L	0	U	0	25	
cis-1,2-Dichloroethene	ug/L	0	U	0	25	
Bromochloromethane	ug/L	0	U	0	25	
Chloroform	ug/L	0	U	0	25	
2,2-Dichloropropane	ug/L	0	U	0	25	
1,2-Dichloroethane	ug/L	0	U	0	25	
1,1,1-Trichloroethane	ug/L	0	U	0	25	
1,1-Dichloropropene	ug/L	0	U	0	25	
Carbon tetrachloride	ug/L	0	U	0	25	
Dibromomethane	ug/L	0	U	0	25	
1,2-Dichloropropane	ug/L	0	U	0	25	
Trichloroethene	ug/L	0	U	0	25	
Bromodichloromethane	ug/L	0	U	0	25	
cis-1,3-Dichloropropene	ug/L	0	U	0	25	
trans-1,3-Dichloropropene	ug/L	0	U	0	25	

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QUALITY CONTROL DATA

Workorder: 1857321

Project ID: McNatts 090113

SAMPLE DUPLICATE: 144479 Original: 1857322001

Parameter	Units	Original Result	DUP Result	RPD	Max RPD	Qualifiers
1,1,2-Trichloroethane	ug/L	0	U	0	25	
1,3-Dichloropropane	ug/L	0	U	0	25	
Dibromochloromethane	ug/L	0	U	0	25	
1,2-Dibromoethane (EDB)	ug/L	0	U	0	25	
Tetrachloroethene	ug/L	0	U	0	25	
1,1,1,2-Tetrachloroethane	ug/L	0	U	0	25	
Chlorobenzene	ug/L	0	U	0	25	
Bromoform	ug/L	0	U	0	25	
1,1,2,2-Tetrachloroethane	ug/L	0	U	0	25	
1,3-Dichlorobenzene	ug/L	0	U	0	25	
1,4-Dichlorobenzene	ug/L	0	U	0	25	
1,2-Dichlorobenzene	ug/L	0	U	0	25	
1,2-DBCP	ug/L	0	U	0	25	

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QUALITY CONTROL DATA

Workorder: 1857321

Project ID: McNatts 090113

QC Batch: VXX/8130 Analysis Method: EPA 8260C

QC Batch Method: EPA 5030B

Associated Lab Samples: 1857321014 1857323007 1857344002 1857344003 1857351001 1857351002 1857353002 1857370001 1857370002 1857370003 1857370004 1857370005

METHOD BLANK: 144488

Parameter	Units	Blank Result	Reporting Limit	Qualifiers
Volatiles by GC/MS				
Dibromofluoromethane (S)	%	100	70-130	
Toluene d8 (S)	%	100	70-130	
4-Bromofluorobenzene (S)	%	99	70-130	
Dichlorodifluoromethane	ug/L	U	0.400	
Chloromethane	ug/L	U	2.50	
Vinyl chloride	ug/L	U	0.400	
Bromomethane	ug/L	U	4.00	
Chloroethane	ug/L	U	0.400	
Trichlorofluoromethane	ug/L	U	0.400	
1,1-Dichloroethene	ug/L	U	0.400	
Methylene chloride	ug/L	U	2.00	
trans-1,2-Dichloroethene	ug/L	U	0.400	
1,1-Dichloroethane	ug/L	U	0.400	
Bromochloromethane	ug/L	U	0.400	
Chloroform	ug/L	U	0.400	
2,2-Dichloropropane	ug/L	U	0.400	
1,2-Dichloroethane	ug/L	U	0.400	
1,1,1-Trichloroethane	ug/L	U	0.400	
1,1-Dichloropropene	ug/L	U	0.400	
Carbon tetrachloride	ug/L	U	0.400	
Dibromomethane	ug/L	U	0.400	
1,2-Dichloropropane	ug/L	U	0.400	
Trichloroethene	ug/L	U	0.400	
Bromodichloromethane	ug/L	U	0.400	
cis-1,3-Dichloropropene	ug/L	U	0.400	
trans-1,3-Dichloropropene	ug/L	U	0.400	
1,1,2-Trichloroethane	ug/L	U	0.400	
1,3-Dichloropropane	ug/L	U	0.400	
Dibromochloromethane	ug/L	U	0.400	
1,2-Dibromoethane (EDB)	ug/L	U	0.400	
Tetrachloroethene	ug/L	U	0.400	
1,1,1,2-Tetrachloroethane	ug/L	U	0.400	
Chlorobenzene	ug/L	U	0.400	
Bromoform	ug/L	U	0.550	
1,1,2,2-Tetrachloroethane	ug/L	U	0.200	
1,3-Dichlorobenzene	ug/L	U	0.400	
1,4-Dichlorobenzene	ug/L	U	0.400	
1,2-Dichlorobenzene	ug/L	U	0.400	

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QUALITY CONTROL DATA

Workorder: 1857321

Project ID: McNatts 090113

METHOD BLANK: 144488

Parameter	Units	Blank Result	Reporting Limit	Qualifiers
1,2-DBCP	ug/L	U	0.550	

LABORATORY CONTROL SAMPLE & LCSD: 144489 144490

Parameter	Units	Spike Conc.	LCS Result	LCSD Result	LCS % Rec	LCSD % Rec	% Rec Limit	RPD	Max RPD	Qualifiers
Volatiles by GC/MS										
Dibromofluoromethane (S)	%				99	101	70-130	1	25	
Toluene d8 (S)	%				101	100	70-130	0.8	25	
4-Bromofluorobenzene (S)	%				101	100	70-130	2	25	
Dichlorodifluoromethane	ug/L	50.1	47.9	45.5	96	91	70-130	5	25	
Chloromethane	ug/L	50	47.9	46.1	96	92	60-130	4	25	
Vinyl chloride	ug/L	50.3	41.6	38.5	83	77	70-130	8	25	
Bromomethane	ug/L	50	35.2	35.2	71	70	60-130	0	25	
Chloroethane	ug/L	49.9	43.5	41.1	87	82	70-130	6	25	
Trichlorofluoromethane	ug/L	49.7	45.9	43.2	92	87	70-130	6	25	
1,1-Dichloroethene	ug/L	49.5	43.6	40.3	88	81	70-130	8	25	
Methylene chloride	ug/L	50	44.8	42.4	90	85	60-130	6	25	
trans-1,2-Dichloroethene	ug/L	50	42.8	40.4	85	81	70-130	6	25	
1,1-Dichloroethane	ug/L	49.5	45.9	43.5	93	88	70-130	5	25	
Bromochloromethane	ug/L	49.6	44.9	43.2	91	87	70-130	4	25	
Chloroform	ug/L	49.7	45.3	43.7	91	88	70-130	4	25	
2,2-Dichloropropane	ug/L	50	48.6	45.5	97	91	50-130	7	25	
1,2-Dichloroethane	ug/L	50.4	45.2	44.4	90	88	70-130	2	25	
1,1,1-Trichloroethane	ug/L	50	44.7	42.8	89	86	70-130	4	25	
1,1-Dichloropropene	ug/L	50.2	47.8	45.5	95	91	70-130	5	25	
Carbon tetrachloride	ug/L	50	45.9	43.6	92	87	60-130	5	25	
Dibromomethane	ug/L	49.6	47.1	46.5	95	94	70-130	1	25	
1,2-Dichloropropane	ug/L	49.8	47.7	46.9	96	94	70-130	2	25	
Trichloroethene	ug/L	50.3	47.0	44.6	93	89	70-130	5	25	
Bromodichloromethane	ug/L	49.2	47.7	46.8	97	95	70-130	2	25	
cis-1,3-Dichloropropene	ug/L	51	50.8	49.4	100	97	60-130	3	25	
trans-1,3-Dichloropropene	ug/L	49.2	51.4	50.1	105	102	60-130	3	25	
1,1,2-Trichloroethane	ug/L	49.5	49.1	48.1	99	97	70-130	2	25	
1,3-Dichloropropane	ug/L	50.2	48.1	46.4	96	92	70-130	4	25	
Dibromochloromethane	ug/L	49.2	52.7	50.8	107	103	70-130	4	25	
1,2-Dibromoethane (EDB)	ug/L	49.7	50.1	49.4	101	99	70-130	1	25	
Tetrachloroethene	ug/L	49.9	44.8	42.2	90	85	70-130	6	25	
1,1,1,2-Tetrachloroethane	ug/L	49.6	50.0	48.2	101	97	70-130	4	25	
Chlorobenzene	ug/L	49.9	49.2	46.8	99	94	70-130	5	25	
Bromoform	ug/L	49.7	53.1	53.0	107	107	70-130	0.2	25	
1,1,2,2-Tetrachloroethane	ug/L	50.2	53.2	52.9	106	106	70-130	0.6	25	

FDOH# E86546

CERTIFICATE OF ANALYSIS

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QUALITY CONTROL DATA

Workorder: 1857321

Project ID: McNatts 090113

LABORATORY CONTROL SAMPLE & LCSD: 144489 144490

Parameter	Units	Spike Conc.	LCS Result	LCSD Result	LCS % Rec	LCSD % Rec	% Rec Limit	RPD	Max RPD	Qualifiers
1,3-Dichlorobenzene	ug/L	50	46.7	45.2	93	90	70-130	3	25	
1,4-Dichlorobenzene	ug/L	50	46.0	44.5	92	89	70-130	3	25	
1,2-Dichlorobenzene	ug/L	49.5	46.5	45.6	94	92	70-130	2	25	
1,2-DBCP	ug/L	49.8	61.2	62.0	123	124	60-130	1	25	

LABORATORY CONTROL SAMPLE & LCSD: 144491 144492

Parameter	Units	Spike Conc.	LCS Result	LCSD Result	LCS % Rec	LCSD % Rec	% Rec Limit	RPD	Max RPD	Qualifiers
Volatiles by GC/MS										
Dibromofluoromethane (S)	%				97	98		1	25	
Toluene d8 (S)	%				100	99		0.8	25	
4-Bromofluorobenzene (S)	%				100	101		1	25	
Dichlorodifluoromethane	ug/L		U	U				0	25	
Chloromethane	ug/L		U	U				0	25	
Vinyl chloride	ug/L		U	U				0	25	
Bromomethane	ug/L		U	U				0	25	
Chloroethane	ug/L		U	U				0	25	
Trichlorofluoromethane	ug/L		U	U				0	25	
1,1-Dichloroethene	ug/L		U	U				0	25	
Methylene chloride	ug/L		U	U				0	25	
trans-1,2-Dichloroethene	ug/L		U	U				0	25	
1,1-Dichloroethane	ug/L		U	U				0	25	
Bromochloromethane	ug/L		U	U				0	25	
Chloroform	ug/L		U	U				0	25	
2,2-Dichloropropane	ug/L		U	U				0	25	
1,2-Dichloroethane	ug/L		U	U				0	25	
1,1,1-Trichloroethane	ug/L		U	U				0	25	
1,1-Dichloropropene	ug/L		U	U				0	25	
Carbon tetrachloride	ug/L		U	U				0	25	
Dibromomethane	ug/L		U	U				0	25	
1,2-Dichloropropane	ug/L		U	U				0	25	
Trichloroethene	ug/L		U	U				0	25	
Bromodichloromethane	ug/L		U	U				0	25	
cis-1,3-Dichloropropene	ug/L		U	U				0	25	
trans-1,3-Dichloropropene	ug/L		U	U				0	25	
1,1,2-Trichloroethane	ug/L		U	U				0	25	
1,3-Dichloropropane	ug/L		U	U				0	25	
Dibromochloromethane	ug/L		U	U				0	25	
1,2-Dibromoethane (EDB)	ug/L		U	U				0	25	
Tetrachloroethene	ug/L		U	U				0	25	
1,1,1,2-Tetrachloroethane	ug/L		U	U				0	25	
Chlorobenzene	ug/L		U	U				0	25	

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QUALITY CONTROL DATA

Workorder: 1857321

Project ID: McNatts 090113

LABORATORY CONTROL SAMPLE & LCSD: 144491 144492

Parameter	Units	Spike Conc.	LCS Result	LCSD Result	LCS % Rec	LCSD % Rec	% Rec Limit	RPD	Max RPD	Qualifiers
Bromoform	ug/L		U	U				0	25	
1,1,2,2-Tetrachloroethane	ug/L		U	U				0	25	
1,3-Dichlorobenzene	ug/L		U	U				0	25	
1,4-Dichlorobenzene	ug/L		U	U				0	25	
1,2-Dichlorobenzene	ug/L		U	U				0	25	
1,2-DBCP	ug/L		U	U				0	25	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 144541 144542 Original: 1857370005

Parameter	Units	Original Result	Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limit	RPD	Max RPD	Qualifiers
Volatiles by GC/MS											
Dibromofluoromethane (S)	%					101	101	70-130	0.5	25	
Toluene d8 (S)	%					103	105	70-130	2	25	
4-Bromofluorobenzene (S)	%					99	102	70-130	2	25	
Dichlorodifluoromethane	ug/L								8	25	
Chloromethane	ug/L								5	25	
Vinyl chloride	ug/L								7	25	
Bromomethane	ug/L								30	25	
Chloroethane	ug/L								4	25	
Trichlorofluoromethane	ug/L								8	25	
1,1-Dichloroethene	ug/L								7	25	
Methylene chloride	ug/L								4	25	
trans-1,2-Dichloroethene	ug/L								4	25	
1,1-Dichloroethane	ug/L								4	25	
Bromochloromethane	ug/L								3	25	
Chloroform	ug/L								3	25	
2,2-Dichloropropane	ug/L								5	25	
1,2-Dichloroethane	ug/L								1	25	
1,1,1-Trichloroethane	ug/L								4	25	
1,1-Dichloropropene	ug/L								5	25	
Carbon tetrachloride	ug/L								4	25	
Dibromomethane	ug/L								1	25	
1,2-Dichloropropane	ug/L								2	25	
Trichloroethene	ug/L								3	25	
Bromodichloromethane	ug/L								3	25	
cis-1,3-Dichloropropene	ug/L								1	25	
trans-1,3-Dichloropropene	ug/L								0.4	25	
1,1,2-Trichloroethane	ug/L								0	25	
1,3-Dichloropropane	ug/L								1	25	
Dibromochloromethane	ug/L								2	25	

FDOH# E86546

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QUALITY CONTROL DATA

Workorder: 1857321

Project ID: McNatts 090113

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 144541 144542 Original: 1857370005

Parameter	Units	Original Result	Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limit	RPD	Max RPD	Qualifiers
1,2-Dibromoethane (EDB)	ug/L								3	25	
Tetrachloroethene	ug/L								3	25	
1,1,1,2-Tetrachloroethane	ug/L								4	25	
Chlorobenzene	ug/L								4	25	
Bromoform	ug/L								1	25	
1,1,2,2-Tetrachloroethane	ug/L								0.6	25	
1,3-Dichlorobenzene	ug/L								2	25	
1,4-Dichlorobenzene	ug/L								0.6	25	
1,2-Dichlorobenzene	ug/L								1	25	
1,2-DBCP	ug/L								0.2	25	

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QUALITY CONTROL DATA

Workorder: 1857321

Project ID: McNatts 090113

QC Batch: WXX/5658 Analysis Method: SM 4500-NO2 B

QC Batch Method: Wet Chem Prep

Associated Lab Samples: 1857321001 1857321006 1857321009 1857321010 1857321011 1857321012 1857321013 1857321014 1857371001 1857383002

METHOD BLANK: 144529

Parameter	Units	Blank Result	Reporting Limit	Qualifiers
Nitrite (N)	mg/L	U	0.040	

LABORATORY CONTROL SAMPLE & LCSD: 144530 144531

Parameter	Units	Spike Conc.	LCS Result	LCSD Result	LCS % Rec	LCSD % Rec	% Rec Limit	RPD	Max RPD	Qualifiers
Nitrite (N)	mg/L	0.25	0.25	0.25	99.8	100	85-115	0	20	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 144532 144533 Original: 1857321001

Parameter	Units	Original Result	Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limit	RPD	Max RPD	Qualifiers
Nitrite (N)	mg/L	0.059	0.25	0.33	0.34	110	111	85-115	3	20	Q1

SAMPLE DUPLICATE: 144534 Original: 1857321001

Parameter	Units	Original Result	DUP Result	RPD	Max RPD	Qualifiers
Nitrite (N)	mg/L	0.059	0.059i	0	20	Q1

FDOH# E86546

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QUALITY CONTROL DATA

Workorder: 1857321

Project ID: McNatts 090113

QC Batch: VXX/8134 Analysis Method: EPA 8260C

QC Batch Method: EPA 5030B

Associated Lab Samples: 1857321004, 1857321006, 1857321007, 1857321010, 1857321013, 1857321014, 1857367001, 1857367002, 1857369001, 1857369002, 1857379001, 1857379002, 1857379003, 1857379004

METHOD BLANK: 144647

Parameter	Units	Blank Result	Reporting Limit	Qualifiers
Volatiles by GC/MS				
Dibromofluoromethane (S)	%	109	70-130	
Toluene d8 (S)	%	104	70-130	
4-Bromofluorobenzene (S)	%	113	70-130	
Vinyl chloride	ug/L	U	0.400	
cis-1,2-Dichloroethene	ug/L	U	0.400	

LABORATORY CONTROL SAMPLE & LCSD: 144648 144649

Parameter	Units	Spike Conc.	LCS Result	LCSD Result	LCS % Rec	LCSD % Rec	% Rec Limit	RPD	Max RPD	Qualifiers
Volatiles by GC/MS										
Dibromofluoromethane (S)	%				106	104	70-130	2	25	
Toluene d8 (S)	%				105	105	70-130	0.5	25	
4-Bromofluorobenzene (S)	%				110	110	70-130	0	25	
Vinyl chloride	ug/L	50.3	48.9	64.9	97	129	70-130	28	25	J3
cis-1,2-Dichloroethene	ug/L	49.6	60.5	56.6	122	114	70-130	7	25	

SAMPLE DUPLICATE: 144650 Original: 1857369002

Parameter	Units	Original Result	DUP Result	RPD	Max RPD	Qualifiers
Volatiles by GC/MS						
Dibromofluoromethane (S)	%	43.2		0.5	25	
Toluene d8 (S)	%	39.4		0.5	25	
4-Bromofluorobenzene (S)	%	38.7		0.3	25	
Vinyl chloride	ug/L	0	U	0	25	
cis-1,2-Dichloroethene	ug/L	2.25	2.07	8	25	

FDOH# E86546

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QUALITY CONTROL DATA

Workorder: 1857321

Project ID: McNatts 090113

QC Batch: WXX/5660 Analysis Method: EPA 350.1 (non-distilled)

QC Batch Method: Wet Chem Prep

Associated Lab Samples: 1857321001 1857321006 1857321009 1857321010 1857321011 1857321012 1857321013 1857321014

METHOD BLANK: 144652

Parameter	Units	Blank Result	Reporting Limit	Qualifiers
Ammonia (N)	mg/L	U	0.050	

LABORATORY CONTROL SAMPLE & LCSD: 144653 144654

Parameter	Units	Spike Conc.	LCS Result	LCSD Result	LCS % Rec	LCSD % Rec	% Rec Limit	RPD	Max RPD	Qualifiers
Ammonia (N)	mg/L	0.5	0.51	0.51	103	103	90-110	0	20	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 144655 144656 Original: 1857321001

Parameter	Units	Original Result	Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limit	RPD	Max RPD	Qualifiers
Ammonia (N)	mg/L	0.41	5	5.5		102	102	90-110	0	20	

SAMPLE DUPLICATE: 144657 Original: 1857321001

Parameter	Units	Original Result	DUP Result	RPD	Max RPD	Qualifiers
Ammonia (N)	mg/L	0.41	0.35	15.8	20	

FDOH# E86546

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QUALITY CONTROL DATA

Workorder: 1857321

Project ID: McNatts 090113

QC Batch: WXX/5661 Analysis Method: SM 5310B

QC Batch Method: Wet Chem Prep

Associated Lab Samples: 1857321001 1857321006 1857321009 1857321010 1857321011 1857321012 1857321013 1857321014

METHOD BLANK: 144691

Parameter	Units	Blank Result	Reporting Limit	Qualifiers
TOC	mg/L	U	0.694	

LABORATORY CONTROL SAMPLE & LCSD: 144692 144693

Parameter	Units	Spike Conc.	LCS Result	LCSD Result	LCS % Rec	LCSD % Rec	% Rec Limit	RPD	Max RPD	Qualifiers
TOC	mg/L	5	4.78	4.73	95.6	94.5	85-115	1.1	20	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 144694 144695 Original: 1857321001

Parameter	Units	Original Result	Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limit	RPD	Max RPD	Qualifiers
TOC	mg/L	15.1	5	16.8		32.7	38.9	85-115	1.8	20	

SAMPLE DUPLICATE: 144696 Original: 1857321014

Parameter	Units	Original Result	DUP Result	RPD	Max RPD	Qualifiers
TOC	mg/L	30.6	25.9	16.6	20	

FDOH# E86546

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QUALITY CONTROL DATA

Workorder: 1857321

Project ID: McNatts 090113

QC Batch: REF/6145 Analysis Method: SM 2540C

QC Batch Method: SM 2540C

Associated Lab Samples: 1857321001 1857321006 1857321009 1857321010 1857321011 1857321012 1857321013 1857321014

METHOD BLANK: 144825

Parameter	Units	Blank Result	Reporting Limit	Qualifiers
Total Dissolved Solids	mg/L	U	10.0	

SAMPLE DUPLICATE: 144824 Original: 1857321001

Parameter	Units	Original Result	DUP Result	RPD	Max RPD	Qualifiers
Total Dissolved Solids	mg/L	207	205	0.97	10	

FDOH# E86546

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QUALITY CONTROL DATA QUALIFIERS

Workorder: 1857321

Project ID: McNatts 090113

QUALITY CONTROL PARAMETER QUALIFIERS

J3	The reported value failed to meet the established quality control for either precision or accuracy.
J3a	The reported value failed to meet the established quality control criteria. LCS value skewed high. Target analyte was not detected in associated samples.
J4h	MS/MSD recovery exceeded control limits due to high background sample concentration. LCS/LCSD recovery was within acceptable range.
Q1	Sample received past/too close to the accepted holding time.

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QUALITY CONTROL DATA CROSS REFERENCE TABLE

Workorder: 1857321

Project ID: McNatts 090113

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
1857321001	**MW045/GW661**	EPA 200.2 mod.	MXX/9773	EPA 200.8 (Total)	MMS/8726
1857321006	**MW025/GW664**	EPA 200.2 mod.	MXX/9773	EPA 200.8 (Total)	MMS/8726
1857321009	**MW039/GW672**	EPA 200.2 mod.	MXX/9773	EPA 200.8 (Total)	MMS/8726
1857321010	**MW040/GW671**	EPA 200.2 mod.	MXX/9773	EPA 200.8 (Total)	MMS/8726
1857321011	**MW042/GW666**	EPA 200.2 mod.	MXX/9773	EPA 200.8 (Total)	MMS/8726
1857321012	**MW043/GW663**	EPA 200.2 mod.	MXX/9773	EPA 200.8 (Total)	MMS/8726
1857321013	**MW051/GW665**	EPA 200.2 mod.	MXX/9773	EPA 200.8 (Total)	MMS/8726
1857321014	**MW052/GW670**	EPA 200.2 mod.	MXX/9773	EPA 200.8 (Total)	MMS/8726
1857321001	**MW045/GW661**	EPA 3510C	XXX/11136	FL-PRO (GC)	XGCP/4071
1857321006	**MW025/GW664**	EPA 3510C	XXX/11136	FL-PRO (GC)	XGCP/4071
1857321009	**MW039/GW672**	EPA 3510C	XXX/11136	FL-PRO (GC)	XGCP/4071
1857321010	**MW040/GW671**	EPA 3510C	XXX/11136	FL-PRO (GC)	XGCP/4071
1857321011	**MW042/GW666**	EPA 3510C	XXX/11136	FL-PRO (GC)	XGCP/4071
1857321012	**MW043/GW663**	EPA 3510C	XXX/11136	FL-PRO (GC)	XGCP/4071
1857321013	**MW051/GW665**	EPA 3510C	XXX/11136	FL-PRO (GC)	XGCP/4071
1857321014	**MW052/GW670**	EPA 3510C	XXX/11136	FL-PRO (GC)	XGCP/4072
1857321001	**MW045/GW661**	Wet Chem Prep	WXX/5657	SM 4500-NO3 H	WET/6341
1857321006	**MW025/GW664**	Wet Chem Prep	WXX/5657	SM 4500-NO3 H	WET/6341
1857321009	**MW039/GW672**	Wet Chem Prep	WXX/5657	SM 4500-NO3 H	WET/6341
1857321010	**MW040/GW671**	Wet Chem Prep	WXX/5657	SM 4500-NO3 H	WET/6341
1857321011	**MW042/GW666**	Wet Chem Prep	WXX/5657	SM 4500-NO3 H	WET/6341
1857321012	**MW043/GW663**	Wet Chem Prep	WXX/5657	SM 4500-NO3 H	WET/6341
1857321013	**MW051/GW665**	Wet Chem Prep	WXX/5657	SM 4500-NO3 H	WET/6341
1857321014	**MW052/GW670**	Wet Chem Prep	WXX/5657	SM 4500-NO3 H	WET/6341
1857321001	**MW045/GW661**	EPA 5030B	VXX/8129	EPA 8260C	VMS/7966
1857321002	**MW033/GW662**	EPA 5030B	VXX/8129	EPA 8260C	VMS/7966
1857321003	**MW001/GW668**	EPA 5030B	VXX/8129	EPA 8260C	VMS/7966

FDOH# E86546

CERTIFICATE OF ANALYSIS

Jupiter Environmental Laboratories, Inc.
150 S. Old Dixie Highway
Jupiter, FL 33458
Phone: (561)575-0030
Fax: (561)575-4118

QUALITY CONTROL DATA CROSS REFERENCE TABLE

Workorder: 1857321

Project ID: McNatts 090113

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
1857321004	**MW002/GW667**	EPA 5030B	VXX/8129	EPA 8260C	VMS/7966
1857321005	**MW019/GW673**	EPA 5030B	VXX/8129	EPA 8260C	VMS/7966
1857321006	**MW025/GW664**	EPA 5030B	VXX/8129	EPA 8260C	VMS/7966
1857321007	**MW030/GW674**	EPA 5030B	VXX/8129	EPA 8260C	VMS/7966
1857321008	**MW036/GW669**	EPA 5030B	VXX/8129	EPA 8260C	VMS/7966
1857321009	**MW039/GW672**	EPA 5030B	VXX/8129	EPA 8260C	VMS/7966
1857321010	**MW040/GW671**	EPA 5030B	VXX/8129	EPA 8260C	VMS/7966
1857321011	**MW042/GW666**	EPA 5030B	VXX/8129	EPA 8260C	VMS/7966
1857321012	**MW043/GW663**	EPA 5030B	VXX/8129	EPA 8260C	VMS/7966
1857321013	**MW051/GW665**	EPA 5030B	VXX/8129	EPA 8260C	VMS/7966
1857321015	**MW053/GW675**	EPA 5030B	VXX/8129	EPA 8260C	VMS/7966
1857321014	**MW052/GW670**	EPA 5030B	VXX/8130	EPA 8260C	VMS/7967
1857321001	**MW045/GW661**	Wet Chem Prep	WXX/5658	SM 4500-NO2 B	WET/6342
1857321006	**MW025/GW664**	Wet Chem Prep	WXX/5658	SM 4500-NO2 B	WET/6342
1857321009	**MW039/GW672**	Wet Chem Prep	WXX/5658	SM 4500-NO2 B	WET/6342
1857321010	**MW040/GW671**	Wet Chem Prep	WXX/5658	SM 4500-NO2 B	WET/6342
1857321011	**MW042/GW666**	Wet Chem Prep	WXX/5658	SM 4500-NO2 B	WET/6342
1857321012	**MW043/GW663**	Wet Chem Prep	WXX/5658	SM 4500-NO2 B	WET/6342
1857321013	**MW051/GW665**	Wet Chem Prep	WXX/5658	SM 4500-NO2 B	WET/6342
1857321014	**MW052/GW670**	Wet Chem Prep	WXX/5658	SM 4500-NO2 B	WET/6342
1857321004	**MW002/GW667**	EPA 5030B	VXX/8134	EPA 8260C	VMS/7971
1857321006	**MW025/GW664**	EPA 5030B	VXX/8134	EPA 8260C	VMS/7971
1857321007	**MW030/GW674**	EPA 5030B	VXX/8134	EPA 8260C	VMS/7971
1857321010	**MW040/GW671**	EPA 5030B	VXX/8134	EPA 8260C	VMS/7971
1857321013	**MW051/GW665**	EPA 5030B	VXX/8134	EPA 8260C	VMS/7971
1857321014	**MW052/GW670**	EPA 5030B	VXX/8134	EPA 8260C	VMS/7971

FDOH# E86546

CERTIFICATE OF ANALYSIS

Jupiter Environmental Laboratories, Inc.
150 S. Old Dixie Highway
Jupiter, FL 33458
Phone: (561)575-0030
Fax: (561)575-4118

QUALITY CONTROL DATA CROSS REFERENCE TABLE

Workorder: 1857321

Project ID: McNatts 090113

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
1857321001	**MW045/GW661**	Wet Chem Prep	WXX/5660	EPA 350.1 (non-distilled)	WET/6346
1857321006	**MW025/GW664**	Wet Chem Prep	WXX/5660	EPA 350.1 (non-distilled)	WET/6346
1857321009	**MW039/GW672**	Wet Chem Prep	WXX/5660	EPA 350.1 (non-distilled)	WET/6346
1857321010	**MW040/GW671**	Wet Chem Prep	WXX/5660	EPA 350.1 (non-distilled)	WET/6346
1857321011	**MW042/GW666**	Wet Chem Prep	WXX/5660	EPA 350.1 (non-distilled)	WET/6346
1857321012	**MW043/GW663**	Wet Chem Prep	WXX/5660	EPA 350.1 (non-distilled)	WET/6346
1857321013	**MW051/GW665**	Wet Chem Prep	WXX/5660	EPA 350.1 (non-distilled)	WET/6346
1857321014	**MW052/GW670**	Wet Chem Prep	WXX/5660	EPA 350.1 (non-distilled)	WET/6346
1857321001	**MW045/GW661**	Wet Chem Prep	WXX/5661	SM 5310B	WET/6345
1857321006	**MW025/GW664**	Wet Chem Prep	WXX/5661	SM 5310B	WET/6345
1857321009	**MW039/GW672**	Wet Chem Prep	WXX/5661	SM 5310B	WET/6345
1857321010	**MW040/GW671**	Wet Chem Prep	WXX/5661	SM 5310B	WET/6345
1857321011	**MW042/GW666**	Wet Chem Prep	WXX/5661	SM 5310B	WET/6345
1857321012	**MW043/GW663**	Wet Chem Prep	WXX/5661	SM 5310B	WET/6345
1857321013	**MW051/GW665**	Wet Chem Prep	WXX/5661	SM 5310B	WET/6345
1857321014	**MW052/GW670**	Wet Chem Prep	WXX/5661	SM 5310B	WET/6345
1857321001	**MW045/GW661**	SM 2540C	REF/6145		
1857321006	**MW025/GW664**	SM 2540C	REF/6145		
1857321009	**MW039/GW672**	SM 2540C	REF/6145		
1857321010	**MW040/GW671**	SM 2540C	REF/6145		
1857321011	**MW042/GW666**	SM 2540C	REF/6145		
1857321012	**MW043/GW663**	SM 2540C	REF/6145		
1857321013	**MW051/GW665**	SM 2540C	REF/6145		
1857321014	**MW052/GW670**	SM 2540C	REF/6145		
1857321001	**MW045/GW661**	Calc.	WET/6348		

FDOH# E86546

CERTIFICATE OF ANALYSIS

Jupiter Environmental Laboratories, Inc.
150 S. Old Dixie Highway
Jupiter, FL 33458
Phone: (561)575-0030
Fax: (561)575-4118

QUALITY CONTROL DATA CROSS REFERENCE TABLE

Workorder: 1857321

Project ID: McNatts 090113

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
1857321006	**MW025/GW664**	Calc.	WET/6348		
1857321009	**MW039/GW672**	Calc.	WET/6348		
1857321010	**MW040/GW671**	Calc.	WET/6348		
1857321011	**MW042/GW666**	Calc.	WET/6348		
1857321012	**MW043/GW663**	Calc.	WET/6348		
1857321013	**MW051/GW665**	Calc.	WET/6348		
1857321014	**MW052/GW670**	Calc.	WET/6348		

FDOH# E86546

CERTIFICATE OF ANALYSIS

TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING

ANALYTICAL REPORT

TestAmerica Laboratories, Inc.
TestAmerica Tampa
6712 Benjamin Road
Suite 100
Tampa, FL 33634
Tel: (813)885-7427

TestAmerica Job ID: 660-88000-1
Client Project/Site: GHD-McNatts Ehrlich

For:
Jupiter Environmental Labs
150 S.Old Dixie Highway
Jupiter, Florida 33458

Attn: Client Services

Authorized for release by:
6/28/2018 12:28:21 PM

Haukur Gudnason, Project Manager II
(813)280-8342
haukur.gudnason@testamericainc.com

Table of Contents

Sample Summary

Client: Jupiter Environmental Labs
Project/Site: GHD-McNatts Ehrlich

TestAmerica Job ID: 660-88000-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
660-88000-1	MW052/GW670	Water	06/20/18 13:51	06/21/18 15:18
660-88000-2	MW051/GW665	Water	06/20/18 12:17	06/21/18 15:18

Qualifiers

GC VOA

Qualifier	Qualifier Description
U	Indicates that the compound was analyzed for but not detected.

Glossary

Abbreviation	These commonly used abbreviations may or may not be present in this report.
¤	Listed under the "D" column to designate that the result is reported on a dry weight basis
%R	Percent Recovery
CFL	Contains Free Liquid
CNF	Contains No Free Liquid
DER	Duplicate Error Ratio (normalized absolute difference)
Dil Fac	Dilution Factor
DL	Detection Limit (DoD/DOE)
DL, RA, RE, IN	Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample
DLC	Decision Level Concentration (Radiochemistry)
EDL	Estimated Detection Limit (Dioxin)
LOD	Limit of Detection (DoD/DOE)
LOQ	Limit of Quantitation (DoD/DOE)
MDA	Minimum Detectable Activity (Radiochemistry)
MDC	Minimum Detectable Concentration (Radiochemistry)
MDL	Method Detection Limit
ML	Minimum Level (Dioxin)
NC	Not Calculated
ND	Not Detected at the reporting limit (or MDL or EDL if shown)
PQL	Practical Quantitation Limit
QC	Quality Control
RER	Relative Error Ratio (Radiochemistry)
RL	Reporting Limit or Requested Limit (Radiochemistry)
RPD	Relative Percent Difference, a measure of the relative difference between two points
TEF	Toxicity Equivalent Factor (Dioxin)
TEQ	Toxicity Equivalent Quotient (Dioxin)

Detection Summary

Client: Jupiter Environmental Labs
Project/Site: GHD-McNatts Ehrlich

TestAmerica Job ID: 660-88000-1

Client Sample ID: MW052/GW670 — Lab Sample ID: 660-88000-1

Analyte	Result	Qualifier	PQL	MDL	Unit	Dil Fac	D	Method	Prep Type
Ethylene	5.1		1.0	0.50	ug/L	1		RSK-175	Total/NA
Methane (TCD)	11000		390	39	ug/L	1		RSK-175	Total/NA

Client Sample ID: MW051/GW665 — Lab Sample ID: 660-88000-2

Analyte	Result	Qualifier	PQL	MDL	Unit	Dil Fac	D	Method	Prep Type
Ethylene	270		1.0	0.50	ug/L	1		RSK-175	Total/NA
Methane (TCD)	1600		390	39	ug/L	1		RSK-175	Total/NA

This Detection Summary does not include radiochemical test results.

Client Sample Results

Client: Jupiter Environmental Labs
Project/Site: GHD-McNatts Ehrlich

TestAmerica Job ID: 660-88000-1

Client Sample ID: MW052/GW670
Date Collected: 06/20/18 13:51
Date Received: 06/21/18 15:18

Lab Sample ID: 660-88000-1
Matrix: Water

Method: RSK-175 - Dissolved Gases (GC)

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Ethane	0.55	U	1.1	0.55	ug/L			06/26/18 13:02	1
Ethylene	**5.1**		1.0	0.50	ug/L			06/26/18 13:02	1
Methane (TCD)	**11000**		390	39	ug/L			06/26/18 13:02	1

Client Sample Results

Client: Jupiter Environmental Labs
Project/Site: GHD-McNatts Ehrlich

TestAmerica Job ID: 660-88000-1

Client Sample ID: MW051/GW665
Date Collected: 06/20/18 12:17
Date Received: 06/21/18 15:18

Lab Sample ID: 660-88000-2
Matrix: Water

Method: RSK-175 - Dissolved Gases (GC)

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Ethane	0.55	U	1.1	0.55	ug/L			06/26/18 13:14	1
Ethylene	**270**		1.0	0.50	ug/L			06/26/18 13:14	1
Methane (TCD)	**1600**		390	39	ug/L			06/26/18 13:14	1

Method: RSK-175 - Dissolved Gases (GC)

Lab Sample ID: MB 680-529377/9
Matrix: Water
Analysis Batch: 529377

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Ethane	0.55	U	1.1	0.55	ug/L			06/26/18 11:50	1
Ethylene	0.50	U	1.0	0.50	ug/L			06/26/18 11:50	1
Methane	0.29	U	0.58	0.29	ug/L			06/26/18 11:50	1
Methane (TCD)	39	U	390	39	ug/L			06/26/18 11:50	1

Lab Sample ID: LCS 680-529377/4
Matrix: Water
Analysis Batch: 529377

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Ethane	288	278		ug/L		96	75 - 125
Ethylene	269	249		ug/L		93	75 - 125
Methane	154	151		ug/L		98	75 - 125

Lab Sample ID: LCS 680-529377/6
Matrix: Water
Analysis Batch: 529377

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Methane (TCD)	1920	1980		ug/L		103	75 - 125

Lab Sample ID: LCSD 680-529377/7
Matrix: Water
Analysis Batch: 529377

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Methane (TCD)	1920	1970		ug/L		102	75 - 125	1	30

Lab Sample ID: LCSD 680-529377/8
Matrix: Water
Analysis Batch: 529377

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Ethane	288	318		ug/L		110	75 - 125	14	30
Ethylene	269	293		ug/L		109	75 - 125	16	30
Methane	154	181		ug/L		117	75 - 125	18	30

QC Association Summary

Client: Jupiter Environmental Labs
Project/Site: GHD-McNatts Ehrlich

TestAmerica Job ID: 660-88000-1

GC VOA

Analysis Batch: 529377

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
660-88000-1	MW052/GW670	Total/NA	Water	RSK-175	
660-88000-2	MW051/GW665	Total/NA	Water	RSK-175	
MB 680-529377/9	Method Blank	Total/NA	Water	RSK-175	
LCS 680-529377/4	Lab Control Sample	Total/NA	Water	RSK-175	
LCS 680-529377/6	Lab Control Sample	Total/NA	Water	RSK-175	
LCSD 680-529377/7	Lab Control Sample Dup	Total/NA	Water	RSK-175	
LCSD 680-529377/8	Lab Control Sample Dup	Total/NA	Water	RSK-175	

Lab Chronicle

Client: Jupiter Environmental Labs
Project/Site: GHD-McNatts Ehrlich

TestAmerica Job ID: 660-88000-1

Client Sample ID: MW052/GW670

Lab Sample ID: 660-88000-1

Date Collected: 06/20/18 13:51

Matrix: Water

Date Received: 06/21/18 15:18

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	RSK-175		1	17 mL	17 mL	529377	06/26/18 13:02	KAB	TAL SAV

Client Sample ID: MW051/GW665

Lab Sample ID: 660-88000-2

Date Collected: 06/20/18 12:17

Matrix: Water

Date Received: 06/21/18 15:18

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	RSK-175		1	17 mL	17 mL	529377	06/26/18 13:14	KAB	TAL SAV

Laboratory References:

TAL SAV = TestAmerica Savannah, 5102 LaRoche Avenue, Savannah, GA 31404, TEL (912)354-7858

Method Summary

Client: Jupiter Environmental Labs
Project/Site: GHD-McNatts Ehrlich

TestAmerica Job ID: 660-88000-1

Method	Method Description	Protocol	Laboratory
RSK-175	Dissolved Gases (GC)	RSK	TAL SAV

Protocol References:

RSK = Sample Prep And Calculations For Dissolved Gas Analysis In Water Samples Using A GC Headspace Equilibration Technique, RSKSOP-175, Rev. 0, 8/11/94, USEPA Research Lab

Laboratory References:

TAL SAV = TestAmerica Savannah, 5102 LaRoche Avenue, Savannah, GA 31404, TEL (912)354-7858

Accreditation/Certification Summary

Client: Jupiter Environmental Labs
Project/Site: GHD-McNatts Ehrlich

TestAmerica Job ID: 660-88000-1

Laboratory: TestAmerica Tampa

The accreditations/certifications listed below are applicable to this report.

Authority	Program	EPA Region	Identification Number	Expiration Date
Florida	NELAP	4	E84282	06-30-19

Laboratory: TestAmerica Savannah

The accreditations/certifications listed below are applicable to this report.

Authority	Program	EPA Region	Identification Number	Expiration Date
Florida	NELAP	4	E87052	06-30-18 *

* Accreditation/Certification renewal pending - accreditation/certification considered valid.

Jupiter

150 S. Old Dixie Highway
Jupiter, FL 33458
561-575-0030

Sub Lab COC

Subbed to TestAmerica

CHAIN OF CUSTODY RECORD

DATE:

PAGE: 1 OF 1

LABORATORY CLIENT: Jupliter Labs Tampa	CLIENT PROJECT NAME / NUMBER: GHD-McNatts Ehrlich
ADDRESS: 2608 South 86th Street Suite B	PROJECT CONTACT: John Heyman
CITY: Tampa	SAMPLER(S): (SIGNATURE)
TEL: 561-262-8735 E-MAIL: clientservices@jupiterlabs.com	P.O. NO.: / QUOTE NO.: / LAB USE ONLY

TURNAROUND TIME

☐ SAME DAY ☐ 24 HR ☐ 48HR ☐ 3 DAYS ☒ STD

SPECIAL REQUIREMENTS (ADDITIONAL COSTS MAY APPLY)

☒ ADaPT REPORTING ☐ ARCHIVE SAMPLES UNTIL ___/___/___

SPECIAL INSTRUCTIONS

Standard TAT
ADaPT EDD - # ERIC_4752

REQUESTED ANALYSIS

660-88000 Chain of Custody

Loc: 660
88000

LAB USE ONLY	SAMPLE ID	LOCATION/ DESCRIPTION	SAMPLING DATE	SAMPLING TIME	Matrix	#Cont	RSK175
	MW052/GW670		06/20/18	1351	GW	1	X
	MW051/GW665		06/20/18	1217	GW	3	x

Relinquished by: (Signature)	Received by: (Signature)	Date: 6/21/18	Time: 1518
Relinquished by: (Signature)	Received by: (Signature)	Date:	Time:
Relinquished by: (Signature)	Received by: (Signature)	Date:	Time:

3.2/3.4 CV-09

TestAmerica Tampa
6712 Benjamin Road Suite 100
Tampa, FL 33634
Phone (813) 885-7427 Fax (813) 885-7049

Chain of Custody Record

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

Client Information (Sub Contract Lab)	Sampler:	Lab PM: Gudnason, Haukur M	Carrier Tracking No(s):	COC No: 660-106045.1
Client Contact: Shipping/Receiving	Phone:	E-Mail: haukur.gudnason@testamericainc.com	State of Origin: Florida	Page: Page 1 of 1
Company: TestAmerica Laboratories, Inc.		Accreditations Required (See note): NELAP - Florida		Job #: 660-88000-1
Address: 5102 LaRoche Avenue, ,	Due Date Requested: 6/27/2018			
City: Savannah	TAT Requested (days):			
State, Zip: GA, 31404				
Phone: 912-354-7858(Tel) 912-352-0165(Fax)	PO #:			
Email:	WO #:			
Project Name: Jupiter FL work-Add job name from COC	Project #: 66010014			
Site:	SSOW#:			

Analysis Requested

Preservation Codes:

A - HCL	M - Hexane
B - NaOH	N - None
C - Zn Acetate	O - AsNaO2
D - Nitric Acid	P - Na2O4S
E - NaHSO4	Q - Na2SO3
F - MeOH	R - Na2S2O3
G - Amchlor	S - H2SO4
H - Ascorbic Acid	T - TSP Dodecahydrate
I - Ice	U - Acetone
J - DI Water	V - MCAA
K - EDTA	W - pH 4-5
L - EDA	Z - other (specify)

Other:

Sample Identification - Client ID (Lab ID)	Sample Date	Sample Time	Sample Type (C=comp, G=grab)	Matrix (W=water, S=solid, O=waste/oil, BT=Tissue, A=Air)	Field Filtered Sample (Yes or No)	Perform MS/MSD (Yes or No)	RSK_175/ Methane, Ethane, & Ethene	Total Number of containers	Special Instructions/Note:
			Preservation Code:						
MW052/GW670 (660-88000-1)	6/20/18	13:51 Eastern		Water			X	1	
MW051/GW665 (660-88000-2)	6/20/18	12:17 Eastern		Water			X	3	

Note: Since laboratory accreditations are subject to change, TestAmerica Laboratories, Inc. places the ownership of method, analyte & accreditation compliance upon out subcontract laboratories. This sample shipment is forwarded under chain-of-custody. If the laboratory does not currently maintain accreditation in the State of Origin listed above for analysis/tests/matrix being analyzed, the samples must be shipped back to the TestAmerica laboratory or other instructions will be provided. Any changes to accreditation status should be brought to TestAmerica Laboratories, Inc. attention immediately. If all requested accreditations are current to date, return the signed Chain of Custody attesting to said complicance to TestAmerica Laboratories, Inc.

Possible Hazard Identification	Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)
Unconfirmed	☐ Return To Client ☐ Disposal By Lab ☐ Archive For _____ Months
Deliverable Requested: I, II, III, IV, Other (specify) Primary Deliverable Rank: 2	Special Instructions/QC Requirements:

Empty Kit Relinquished by:	Date:	Time:	Method of Shipment:

Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company
Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company
Relinquished by:	Date/Time:	Company	Received by:	Date/Time: 6/23/18 0730	Company TAL AV

Custody Seals Intact: Δ Yes Δ No	Custody Seal No.:	Cooler Temperature(s) °C and Other Remarks: 3.8C-3.7C-IR2-0.1

Login Sample Receipt Checklist

Client: Jupiter Environmental Labs

Job Number: 660-88000-1

Login Number: 88000
List Number: 1
Creator: Edwards, Erricka

List Source: TestAmerica Tampa

Question	Answer	Comment
Radioactivity wasn't checked or is </= background as measured by a survey meter.	N/A	
The cooler's custody seal, if present, is intact.	True	
Sample custody seals, if present, are intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time (excluding tests with immediate HTs)	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	True	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").	N/A	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	

Login Sample Receipt Checklist

Client: Jupiter Environmental Labs

Job Number: 660-88000-1

Login Number: 88000
List Number: 2
Creator: Latta, Reginald L

List Source: TestAmerica Savannah
List Creation: 06/23/18 11:25 AM

Question	Answer	Comment
Radioactivity wasn't checked or is </= background as measured by a survey meter.	N/A	
The cooler's custody seal, if present, is intact.	True	
Sample custody seals, if present, are intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time (excluding tests with immediate HTs)	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	True	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").	True	
Multiphasic samples are not present.	N/A	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	

Jupiter
Environmental Laboratories, Inc.

www.jupiterlabs.com
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J.E.L. Log # 857371
P.O. # 34027196
Quote # _____

Company Name GTD
Address 5904 Hampton Oaks Parkway
City Tampa State FL Zip 33610
Sampling Site Address Tampa, FL
Attn: Brian Moore Email BrianMoore@gtd.com
Project Name McNatts Ehrlich Project # 090113
Sampler Name/Signature J Tison

LAB ANALYSIS

Pres Codes

Parameters: VOH 8260 | Amm SM4500 | Sulfide 6010 | TDS 160.1 | Nitrate 353.2 | TOC 9060 | TRPH FL-Pro | Diss gas - Methane/ethane/ethene

Field Filtered (Y/N)

Requested Turnaround Time
Note: Rush requests subject to acceptance by the laboratory
X Standard
___ Expedited
Due ___/___/___

#	Sample Label (Client ID)	Collected Date	Collected Time	Matrix Code*	# of Cont	VOH 8260	Amm SM4500	Sulfide 6010	TDS 160.1	Nitrate 353.2	TOC 9060	TRPH FL-Pro	Diss gas - Methane/ethane/ethene	Field Filtered (Y/N)	Comments
1	MW045/GW661	6/20/18	0818	GW	10	✓	✓	✓	✓	✓	✓	✓			WACS Name:
2	MW033/GW662		0904		3	✓									MCNATTS CLEANERS -
3	MW001/GW668		1548			✓									FORMER EHRLICH RD
4	MW002/GW667		1511			✓									CLEANERS
5	MW019/GW673		1140			✓									
6	MW025/GW664		1035		10	✓	✓	✓	✓	✓	✓	✓			WACS #: ERIC -
7	MW030/GW674		1102		3	✓									4752
8	MW036/GW669		1610			✓									RSK175 subbed
9	MW039/GW672		1215		10	✓	✓	✓	✓	✓	✓	✓			to TestAmerica
10	MW040/GW671		1500			✓	✓	✓	✓	✓	✓	✓			

Matrix Codes*
S Soil/Solid Sediment | SW Surface Water
GW Ground Water | SL Sludge
WW Waste Water | O Other (Please Specify)
DW Drinking Water

Pres Codes
A- none | I- Ice
B- HNO_3 | O- Other
C- H_2SO_4 | M- MeOH
D- NaOH | N - $Na_2S_2O_3$
E- HCl | Z- ZnAc

Relinquished by	Date	Time	Received by	Date	Time
	20JUN18	1615		20JUN18	1615
	20JUN18	1900	Crown Courier	20JUN18	1900
Crown Courier	6/21/18	0800		6/21/18	0800

QA/QC level with report
None ___ 1 (2) 3 ___ See price guide for applicable fees

FDEP Dry Cleaning ☒ FDEP UST Pre-Approval ☐
SFWMD ☐ ADaPT ☐ DOT ☐

Temp Control: 4.0 °C

857371

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J.E.L. Log # ______
P.O. # 34027196
Quote # ______

Company Name: GHD
Address: 5904 Hampton Oaks Parkway
City: Tampa State: FL Zip: 33610
Sampling Site Address: Tampa, FL
Attn: Brian Moore Email: Brian.Moore@ghd.com
Project Name: McNatts Ehrlich Project #: 090113
Sampler Name/Signature: J Tison / [signature]

Requested Turnaround Time
Note: Rush requests subject to acceptance by the laboratory
X Standard +
~~24hr~~ 48 Expedited — TAT (HA) N itrate (initials) 20JUN18
Due __/__/__

LAB ANALYSIS

Parameters: VOH 8260; Amm SM4500; Sodium 6010; TDS 160.1; Nitrate 353.2; TOC 9060; TRPH FL-Pro; Diss. gas Methane/ethane/ethene

#	Sample Label (Client ID)	Collected Date	Collected Time	Matrix Code*	# of Cont	Pres Codes	VOH 8260	Amm SM4500	Sodium 6010	TDS 160.1	Nitrate 353.2	TOC 9060	TRPH FL-Pro	Diss. gas Methane/ethane/ethene					Field Filtered (Y/N)	Comments
11	MW042/GW666	6/20/18	1347	GW	10		✓	✓	✓	✓	✓	✓	✓							WASS Name:
12	MW043/GW663	↓	0957	↓	↓		✓	✓	✓	✓	✓	✓	✓							MCNATTS CLEANERS-
13	MW051/GW665	↓	1217	↓	13		✓	✓	✓	✓	✓	✓	✓	✓						FORMER EHRLICH
14	MW052/GW670	↓	1351	↓	↓		✓	✓	✓	✓	✓	✓	✓	✓						RD CLEANERS
15	MW053/GW675	↓	1008	↓	3		✓													
6																				WACS #: ERIC_4752
7																				
8																				
9																				
0																				

Matrix Codes*
S Soil/Solid Sediment; SW Surface Water; GW Ground Water; SL Sludge; WW Waste Water; O Other (Please Specify); DW Drinking Water

Pres Codes
A- none; I- Ice; B- HNO_3; O- Other; C- H_2SO_4; M- MeOH; D- NaOH; N- $Na_2S_2O_3$; E- HCl; Z- ZnAc

Relinquished by	Date	Time	Received by	Date	Time
[signature]	1615	20JUN18	[signature]	20JUN18	1615
[signature]	20JUN18	1900	Crown Courier	20JUN18	1900
Crown Courier	6/21/18	0800	[signature]	6/21/18	0800

QA/QC level with report: None ___ 1 ___ (2) ___ 3 ___ See price guide for applicable fees

FDEP Dry Cleaning ☒ FDEP UST Pre-Approval ❑
SFWMD ❑ ADaPT ❑ DOT ❑

Temp Control: 4.0 °C

Jupiter
Environmental Laboratories, Inc.

150 S. Old Dixie Highway
Jupiter, FL 33458
561-575-0030

Sub Lab COC

Subbed to TestAmerica

CHAIN OF CUSTODY RECORD

DATE:

PAGE: 1 OF 1

LABORATORY CLIENT: Jupliter Labs Tampa	CLIENT PROJECT NAME / NUMBER: GHD-McNatts Ehrlich
ADDRESS: 2608 South 86th Street Suite B	P.O. NO.:
CITY: Tampa	PROJECT CONTACT: John Heyman
TEL: 561-262-8735 E-MAIL: clientservices@jupiterlabs.com	QUOTE NO.:
	SAMPLER(S): (SIGNATURE)
	LAB USE ONLY

TURNAROUND TIME

☐ SAME DAY ☐ 24 HR ☐ 48HR ☐ 3 DAYS ☒ STD

SPECIAL REQUIREMENTS (ADDITIONAL COSTS MAY APPLY)

☒ ADaPT REPORTING ☐ ARCHIVE SAMPLES UNTIL ___/___/___

SPECIAL INSTRUCTIONS

Standard TAT
ADaPT EDD - # ERIC_4752

REQUESTED ANALYSIS

LAB USE ONLY	SAMPLE ID	LOCATION/ DESCRIPTION	SAMPLING DATE	SAMPLING TIME	Matrix	#Cont	RSK175
	MW052/GW670		06/20/18	1351	GW	1	X
	MW051/GW665		06/20/18	1217	GW	3	x

Relinquished by: (Signature)	Received by: (Signature)	Date:	Time:
Relinquished by: (Signature)	Received by: (Signature)	Date:	Time:
Relinquished by: (Signature)	Received by: (Signature)	Date:	Time:

SAMPLE RECEIPT CONFIRMATION SHEET

Client Information

SDG:	1857321	**Req:**	2116
Client:	GHD Tampa	**Project:**	Brian Moore
Level:	1	**Date Rec'd:**	6/21/2018 8:00:00 AM
Rec'd via:	courier		

Cooler Check

ID	Temp	# of samples	Security Tape Present	Security Tape Intact	Method of Receipt	Comments
	4	15	☐	☐		

Checked By: CF

Sample Verification

Loose Caps?	No	**All Samples on COC accounted For?**	Yes
Broken Containers?	No	**All Samples on COC?**	Yes
pH Verified?	Yes	**Written on Internal COC?**	No
pH Strip Lot #	HC746336	**Sample Vol. Suff. For Analysis?**	Yes
Acid Preserved Samples Lot #	15127, 15245	**Samples Rec'd W/I Hold Time?**	Yes
Base Preserved Samples Lot #		**Are All Samples to be Analyzed?**	Yes
Samples Received From	courier	**Correct Sample Containers?**	Yes
Soil Origin (Domestic/Foreign		**COC Comments written on COC?**	Yes
Site Location/Project on COC?	Yes	**Samplers Initials on COC?**	Yes
Client Project # on COC?	Yes	**Sample Date/Time Indicated?**	Yes
Project Mgr. Indicated on COC	Yes	**TAT Requested:**	STD
COC relinquished/Dated by Client?	Yes	**Client Requests Verbal Results?**	No
COC Received/Dated by JEL	Yes		
JEL to Conduct ALL Analyses?	Yes		

Subcontract Analysis

Parameter	Via	Lab Name	Comments

John Heyman

From: Andrew.Selego@ghd.com
Sent: Thursday, June 21, 2018 12:58 PM
To: John Heyman; Brian.Moore@ghd.com
Subject: RE: McNatts samples - issue missing VOC vials

Let's split with priority on VOHs. If there is a bust on RSK175 we will be at the site next week for system O&M and can grab another sample

---

From: John Heyman <jheyman@jupiterlabs.com>
Sent: Thursday, June 21, 2018 11:17 AM
To: Brian Moore <Brian.Moore@ghd.com>; Andrew Selego <Andrew.Selego@ghd.com>
Subject: McNatts samples - issue missing VOC vials

Good morning.

COC attached.

Sample ID MW052/GW670 was received missing vials for 8260 analysis. We did receive 3-40mL vials w/HCl for RSK175 analysis.

Please let me know if you would like us to split the RSK175 vials between 8260 and RSK175 analysis. If so, let me know which is your priority (I will assign 2 of the 3 vials to the priority). Otherwise, we can cancel either the 8260 or RSK175 analysis on this sample.

Let me know or feel free to give me a call to discuss.

Thanks!

We will be closed Wednesday, July 4th. We are open Tuesday, July 3rd, but will not accept any short holds or bacteria samples. Have a safe and fun holiday!

John Heyman
Senior Project Manager
Jupiter Labs – Tampa
2608 South 86th St. Suite B
Tampa, FL 33619
561-262-8735
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www.ghd.com