

August 29, 2014

Environmental Manager
Compliance Assurance Program

Florida Department of Environmental Protection – Southwest District
13051 North Telecom Parkway
Tampa, Florida 33637-0926

Dept. Of Environmental Protection
SEP 16
Southwest District

Subject: ERP Compliance Monitoring Well Re-Installation & Sampling Report
EQ Florida, Inc.
7202 East 8th Avenue
Tampa, Hillsborough County, Florida
Environmental Resource Permit No. 29-0246914-002
NOVA Project No. 10106-3014024

To Whom It May Concern:

NOVA Engineering and Environmental, LLC (NOVA) is pleased to present this report on behalf of EQ Florida, Inc. (EQ) documenting the recent well re-installation and sampling activities at the above-referenced facility. This scope of work was completed in accordance with the facility's Environmental Resource Permit (ERP) specified above as issued by the Florida Department of Environmental Protection (FDEP). The original compliance monitoring well, MW-1, consisted of a shallow groundwater monitoring well installed during October 2009 upgradient of the existing wet stormwater retention pond located on EQ's 8th Avenue property. However, during an ERP sampling event in October 2013, it appeared that the well was compromised and should be reinstalled prior to the 2014 sampling event. This report summarizes the recent well reinstallation and sampling activities completed at the EQ facility.

Consistent with the provisions of the facility's ERP, the purpose of this scope of work is to analyze groundwater upgradient of the wet stormwater retention pond located on the 8th Avenue property for the presence of select analytes from the Helena Chemical Company Superfund Site (Helena) that may potentially impact groundwater in the area. The data is used to provide the FDEP with reasonable assurance that impacted groundwater from the Helena site is not present in the footprint of the wet stormwater retention pond on EQ's facility.

A site location map is presented as Figure 1. An existing conditions site plan showing the location of the compliance monitoring well is presented as Figure 2.

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Environmental Consulting – Geotechnical Engineering – Construction Materials Testing – Inspection Services
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Municipal Support/Outsourcing – Private Provider Services™

FIELDWORK ACTIVITIES

Monitoring Well Re-Installation and Sampling

On July 31, 2014, NOVA oversaw the installation of monitoring well MW-1R at the location shown on Figure 2, which was the same location as the original well. The original well, MW-1, was previously observed to be compromised and could not be sampled. Therefore, NOVA contracted EnviroTek Environmental & Construction Services (EnviroTek) to remove MW-1, overdrill the boring using nominal six-inch outer diameter (OD) hollow stem augers, and re-install a new groundwater monitoring well (MW-1R) at that location.

Set at a total depth of approximately 12 feet below land surface (bls), MW-1R was constructed with ten feet of 0.010-inch slotted screen and an above-grade riser set at approximately three feet above land surface. Following installation, the well was developed to remove fine sediment from the filter pack and well screen. Please refer to the Well Construction and Development Log, included in Attachment A, for detailed well construction and development data.

Groundwater Monitoring/Sampling

MW-1R was gauged and sampled on August 4, 2014. Depth to groundwater was gauged at approximately 6.86 feet *from the top of the aboveground riser*, or approximately three and one-half to four feet bls. Depth to groundwater measurements and purging and sampling calculations are based on the measured depth to groundwater from the top of the riser casing (not a surveyed datum). Depth to groundwater is summarized in Table I. Groundwater flow in the vicinity of the facility is generally believed to be towards the southeast to south-southeast based upon data reviewed from the United States Environmental Protection Agency (USEPA).

NOVA staff collected a groundwater sample from monitoring well MW-1R in general accordance with FDEP guidelines and standard operating procedures (SOPs). The sample was contained in clean, laboratory supplied, pre-preserved containers, sealed, labeled, placed in a cooler with ice, and transported to Accutest Laboratories in Orlando, Florida under standard chain-of-custody protocol for chemical analysis. The groundwater sample was analyzed for the presence of total xylenes using USEPA Method 8260B and for alpha-benzene hexachloride (alpha-BHC), beta-BHC, gamma-BHC (lindane), 4,4'-DDT, aldrin, dieldrin, endosulfan I, and endosulfan II using USEPA Method 8081. This target analytical list was approved in an e-mail correspondence to a previous consultant from ERM staff on October 16, 2009. The groundwater sampling log is included in Attachment A.

ANALYTICAL RESULTS

Analysis of the groundwater sample collected from compliance monitoring well MW-1R on August 4, 2014 did not indicate the presence of target analytes at measurable concentrations exceeding their respective laboratory method detection limits (MDLs). All MDLs and practical quantification limits

(PQLs) reported by the laboratory were less than their respective groundwater cleanup target levels (GCTLs) and maximum PQLs as promulgated in Chapter 62-777, Florida Administrative Code (F.A.C.). Laboratory analytical results are summarized in Table 2. The complete laboratory analytical report is included as Attachment B.

CONCLUSIONS AND RECOMMENDATIONS

No measurable concentrations of the target analytes were detected in the groundwater sample collected from compliance monitoring well MW-1R on August 4, 2014. This monitoring well was installed immediately upgradient of the wet stormwater retention pond on EQ's 8th Avenue property, and is considered to be representative of prevailing groundwater conditions within the footprint of this stormwater feature. Groundwater monitoring will continue on an annual basis as specified in the facility ERP permit.

Please do not hesitate to contact us should you have any questions or comments regarding this report, or should additional information be required.

Sincerely,

NOVA ENGINEERING AND ENVIRONMENTAL, LLC



Daniel C. Grossman, PG
Project Geologist

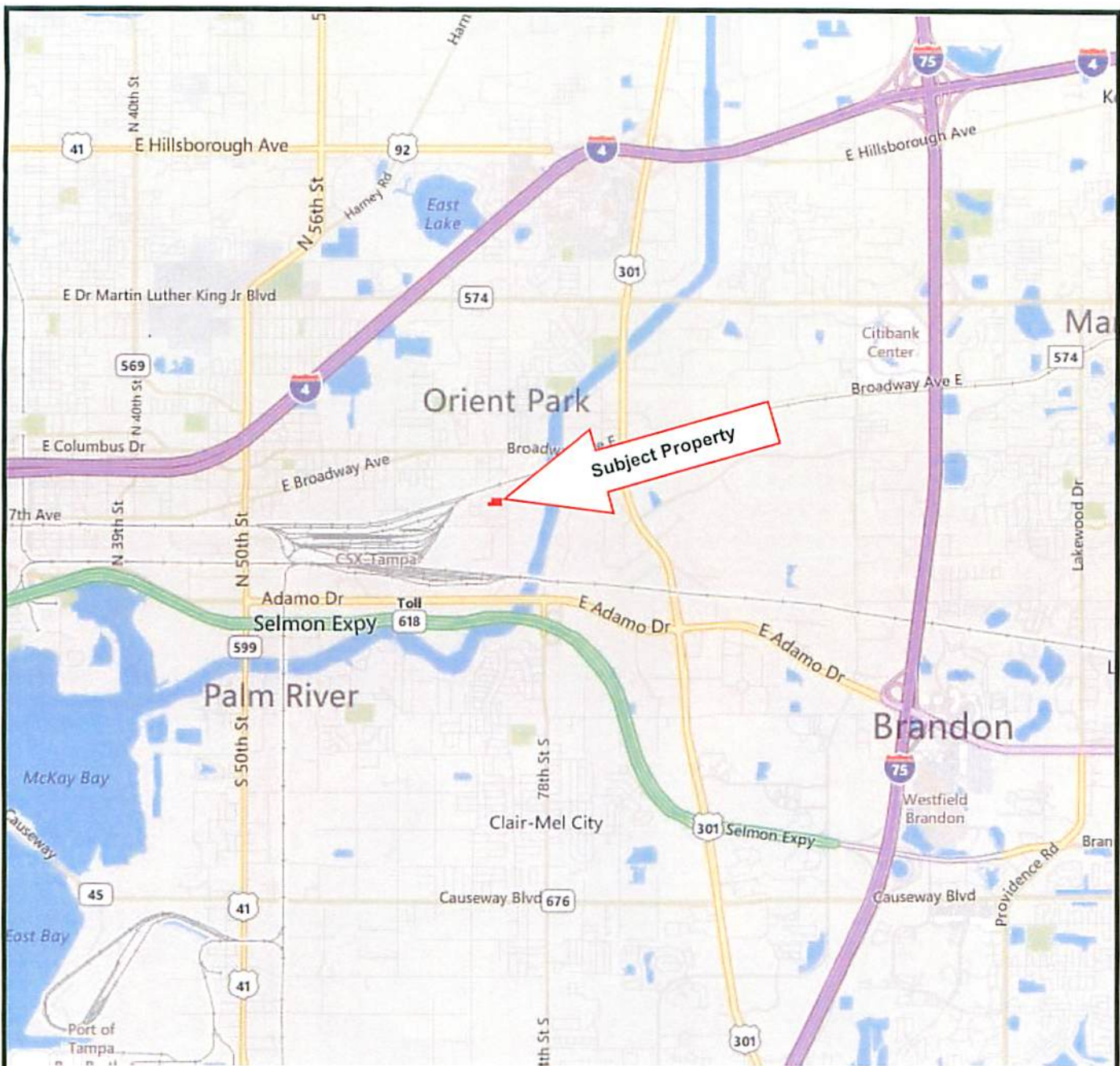


Christopher B. Poole, PG, CPG
Vice President – Environmental Services

Attachments: Figures
 Tables
 Attachment A – Field Documentation
 Attachment B – Laboratory Analytical Report

CC: Stuart Stapleton, EQ Florida, Inc.

FIGURES



Notes

Site Location is Approximate

Approximate Scale

 1 Mile



FIGURE 1
Site Location Map
Source: Bing.com/maps
©2014 Microsoft Corporation

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EQ Florida, Inc.
7202 East 8th Avenue
Tampa, Hillsborough Co., Florida
NOVA Project No. 10106-3014024

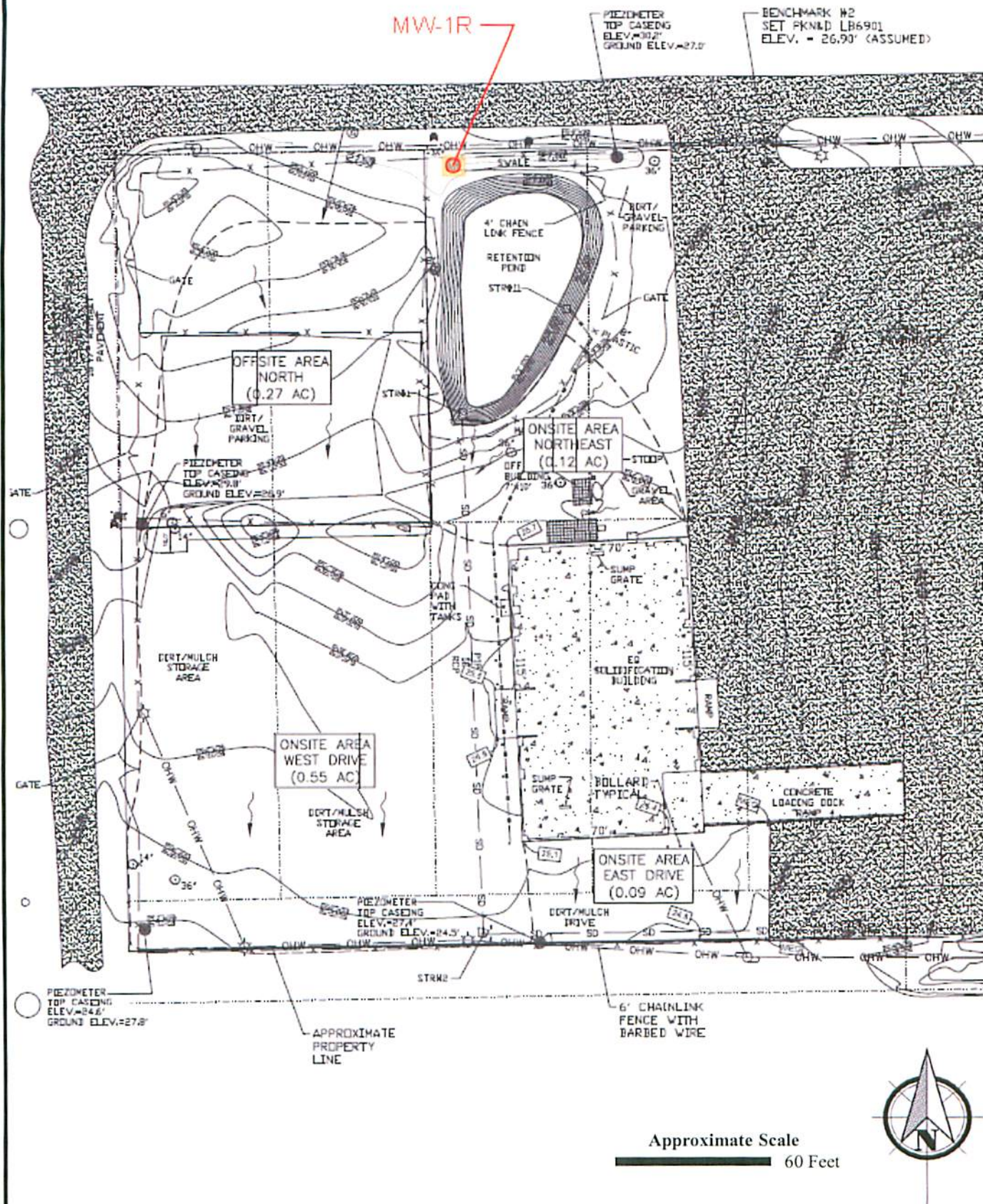


FIGURE 2
Existing Conditions Site Plan
(Portion)
Source: KCI Technologies

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EQ Florida, Inc.
7202 East 8th Avenue
Tampa, Hillsborough Co., Florida
NOVA Project No. 10106-3014024

TABLES

TABLE 1: GROUNDWATER ELEVATION SUMMARY

Facility Name: EQ Florida, Inc.

Address: 7202 East 8th Avenue

Tampa, Hillsborough County, Florida

FDEP ERP Permit No. 29-0246914-002

WELL NO.	MW-1	MW-1R			
DIAMETER	2"	2"			
WELL DEPTH	12.69	15.57			
SCREEN INTERVAL	3.69 - 12.69	5.57 - 15.57			
TOC ELEVATION	Not Surveyed	Not Surveyed			

DATE	ELEV	DTW	FP	ELEV	DTW	FP	ELEV	DTW	FP	ELEV	DTW	FP	ELEV	DTW	FP
10/23/2009		6.10													
8/24/2012		3.67													
10/15/2013		5.25													
8/4/2014		—			6.86										

Notes:**All depth to groundwater measurements are recorded from the top of the riser casing****All Measurements are reported in "feet" unless otherwise noted****No Data = Blank**

TABLE 2: GROUNDWATER ANALYTICAL DATA SUMMARY

Facility Name: EQ Florida, Inc.
 Address: 7202 East 8th Avenue
 Tampa, Hillsborough County, Florida
 FDEP ERP Permit No. 29-0246914-002

Sample ID	Date Sampled	Total Xylenes (µg/L)	Alpha-BHC (µg/L)	Beta-BHC (µg/L)	Gamma-BHC (µg/L)	4,4'-DDT (µg/L)	Aldrin (µg/L)	Dieldrin (µg/L)	Endo-sulfan I (µg/L)	Endo-sulfan II (µg/L)
GCTL		20	0.006	0.02	0.2	0.1	0.002	0.002	42	42
NAM		200	0.6	2	20	10	0.2	0.2	420	420
Max PQL		--	0.05	0.05	--	0.2	0.05	0.1	--	--
MW-1	10/23/2009	<0.27 U	<0.003 U	<0.0012 U	<0.024 U	<0.0011 U	<0.0016 U	<0.0027 U	<0.0044 U	<0.0016 U
	8/24/2012	<0.52 U	<0.0048 U	<0.0048 U	<0.0048 U	<0.0096 U	<0.0048 U	<0.0048 U	<0.0048 U	<0.0048 U
	10/15/2013	<0.50 U	<0.0047 U	<0.0047 U	<0.0047 U	<0.0093 U	<0.0047 U	<0.0047 U	<0.0047 U	<0.0047 U
MW-1R	8/4/2014	<0.66 U	<0.0040 U	<0.011 U	<0.0042 U	<0.010 U	<0.0064 U	<0.0067 U	<0.0066 U	<0.0080 U

Notes:

µg/L = Micrograms per Liter (parts per billion)

GCTL = Groundwater Cleanup Target Level per Ch. 62-777, FAC

NAM = Natural Attenuation Monitoring Default Concentration per Ch. 62-777, FAC

Max PQL = The maximum PQL required for chemical of concern pursuant to Ch. 62-777, FAC

-- = Not Applicable

U = Not Detected above the Laboratory Method Detection Limit (MDL)

ATTACHMENT A

FIELD DOCUMENTATION

WELL CONSTRUCTION AND DEVELOPMENT LOG

WELL CONSTRUCTION DATA					
Well Number: MW-1R		Site Name: EQ Florida		FDEP Facility I.D. Number: N/A	
Well Location and Type (check appropriate boxes): <input checked="" type="checkbox"/> On-Site <input type="checkbox"/> Right-of-Way <input type="checkbox"/> Off-Site Private Property <input checked="" type="checkbox"/> Above Grade (AG) <input type="checkbox"/> Flush-to-Grade		Well Purpose: <input type="checkbox"/> Perched Monitoring <input checked="" type="checkbox"/> Shallow (Water-Table) Monitoring <input type="checkbox"/> Intermediate or Deep Monitoring <input type="checkbox"/> Remediation or Other (describe)		Well Install Method: Hollow Stem Auger	
If AG, list feet of riser above land surface: 3				Surface Casing Install Method: N/A	
Borehole Depth (feet): ~12	Well Depth (feet): ~12	Borehole Diameter (inches): ~6	Manhole Diameter (inches): N/A	Well Pad Size: 2 feet by 2 feet	
Riser Diameter and Material: 2" Sch. 40 PVC		Riser/Screen Connections: <input checked="" type="checkbox"/> Flush-T threaded <input type="checkbox"/> Other (describe)	Riser Length: 5 feet from +3 feet to 2 feet		
Screen Diameter and Material: 2" Sch. 40 PVC		Screen Slot Size: 0.010"	Screen Length: 10 feet from 2 feet to 12 feet		
1 st Surface Casing Material: N/A also check: <input type="checkbox"/> Permanent <input type="checkbox"/> Temporary		1 st Surface Casing I.D. (inches): -	1 st Surface Casing Length: - feet from - feet to - feet		
2 nd Surface Casing Material: N/A also check: <input type="checkbox"/> Permanent <input type="checkbox"/> Temporary		2 nd Surface Casing I.D. (inches): -	2 nd Surface Casing Length: - feet from - feet to - feet		
3 rd Surface Casing Material: N/A also check: <input type="checkbox"/> Permanent <input type="checkbox"/> Temporary		3 rd Surface Casing I.D. (inches): -	3 rd Surface Casing Length: - feet from - feet to - feet		
Filter Pack Material and Size: 20/30 Sand		Prepacked Filter Around Screen (check one): <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No		Filter Pack Length: 10.5 feet from 1.5 feet to 12 feet	
Filter Pack Seal Material and Size: 30/65 Fine Sand		Filter Pack Seal Length: 0.7 feet from 0.8 feet to 1.5 feet			
Surface Seal Material: Grout, Concrete at Surface, Monument/Riser Well Box		Surface Seal Length: 0.8 feet from 0 feet to 0.8 feet			

WELL DEVELOPMENT DATA			
Well Development Date: 07/31/14		Well Development Method (check one): <input checked="" type="checkbox"/> Surge/Pump <input type="checkbox"/> Pump <input type="checkbox"/> Compressed Air <input type="checkbox"/> Other (describe)	
Development Pump Type (check): <input checked="" type="checkbox"/> Submersible <input type="checkbox"/> Centrifugal <input type="checkbox"/> Peristaltic <input type="checkbox"/> Other (describe)		Depth to Groundwater (before developing in feet): NM	
Pumping Rate (gallons per minute): 1	Maximum Drawdown of Groundwater During Development (feet): NM		Well Purged Dry (check one): <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Pumping Condition (check one): <input checked="" type="checkbox"/> Continuous <input type="checkbox"/> Intermittent	Total Development Water Removed (gallons): 35	Development Duration (minutes): 35	Development Water Drummed (check one): <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Water Appearance (color and odor) At Start of Development: Dark brown, no odor		Water Appearance (color and odor) At End of Development: Clear, slight sulfur odor	

WELL CONSTRUCTION OR DEVELOPMENT REMARKS

Form FD 8000-24

SITE NAME: EQ Florida		SITE LOCATION: 7202 E 8th Ave., Tampa, FL	
WELL NO: MW-1R	SAMPLE ID: MW-1R	DATE: August 4, 2014	

PURGING DATA

[illegible]

SAMPLING DATA

SAMPLED BY (PRINT) / AFFILIATION: Daniel Grossman / NOVA				SAMPLER(S) SIGNATURE(S): 			SAMPLING INITIATED AT: 1017		SAMPLING ENDED AT: 1020	
PUMP OR TUBING DEPTH IN WELL (feet): ~8				TUBING MATERIAL CODE: PE			FIELD-FILTERED: Y (N)		FILTER SIZE: _____ µm	
FIELD DECONTAMINATION: PUMP Y (N)						TUBING Y (N (replaced))		DUPLICATE: Y (N)		
SAMPLE CONTAINER SPECIFICATION				SAMPLE PRESERVATION			INTENDED ANALYSIS AND/OR METHOD	SAMPLING EQUIPMENT CODE	SAMPLE PUMP FLOW RATE (mL per minute)	
SAMPLE ID CODE	# CONTAINERS	MATERIAL CODE	VOLUME	PRESERVATIVE USED	TOTAL VOL ADDED IN FIELD (mL)	FINAL pH				
HV-1R	2	AG	250ml	—			8081 Perist	APP		
"	3	CG	40ml	HCl			8260 SI	RFPF		
REMARKS: All measurements are TOC w/ a riser (~3' ag)										
MATERIAL CODES: AG = Amber Glass; CG = Clear Glass; PE = Polyethylene; PP = Polypropylene; S = Silicone; T = Teflon; O = Other (Specify)										
SAMPLING EQUIPMENT CODES: APP = Air Peristaltic Pump; B = Bailor; BP = Bladder Pump; ESP = Electric Submersible Pump; RFPF = 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:** $\pm 0.2^\circ\text{C}$ **Specific Conductance:** $\pm 5\%$ **Dissolved Oxygen:** all readings $\leq 20\%$ saturation (see Table FS 2200-2); optionally, $\pm 0.2\text{ mg/L}$ or $\pm 10\%$ (whichever is greater) **Turbidity:** all readings $\leq 20\text{ NTU}$; optionally $\pm 5\text{ NTU}$ or $\pm 10\%$ (whichever is greater)

Revision Date: February 12, 2009

ATTACHMENT B

LABORATORY ANALYTICAL REPORT



08/11/14

Technical Report for

NOVA Engineering & Environmental

EQ Florida; 7202 E 8th Ave, Tampa, FL

10106-3014024

Accutest Job Number: FA17142

Sampling Date: 08/04/14

Report to:

NOVA Engineering & Environmental
1226 Tech Blvd
Tampa, FL 33619
dgrossman@usanova.com

ATTN: Daniel Grossman

Total number of pages in report: 19



Test results contained within this data package meet the requirements of the National Environmental Laboratory Accreditation Program and/or state specific certification programs as applicable.

A handwritten signature in black ink, appearing to read 'Norm Farmer'.

Norm Farmer
Technical Director

Client Service contact: Andrea Colby 407-425-6700

Certifications: FL (E83510), LA (03051), KS (E-10327), IA (366), IL (200063), NC (573), NJ (FL002), SC (96038001)
DoD ELAP (L-A-B L2229), CA (04226CA), TX (T104704404), PA (68-03573), VA (460177),
AK, AR, GA, KY, MA, NV, OK, UT, WA

This report shall not be reproduced, except in its entirety, without the written approval of Accutest Laboratories.
Test results relate only to samples analyzed.

Table of Contents

Sections:

1

2

3

4

5

6

-1-

Section 1: Sample Summary	3
Section 2: Summary of Hits	4
Section 3: Sample Results	5
3.1: FA17142-1: MW-1R	6
Section 4: Misc. Forms	8
4.1: Chain of Custody	9
Section 5: GC/MS Volatiles - QC Data Summaries	11
5.1: Method Blank Summary	12
5.2: Blank Spike Summary	13
5.3: Matrix Spike/Matrix Spike Duplicate Summary	14
Section 6: GC Semi-volatiles - QC Data Summaries	15
6.1: Method Blank Summary	16
6.2: Blank Spike Summary	17
6.3: Matrix Spike/Matrix Spike Duplicate Summary	19

Sample Summary

NOVA Engineering & Environmental

Job No: FA17142

EQ Florida; 7202 E 8th Ave, Tampa, FL
Project No: 10106-3014024

Sample Number	Collected Date	Time By	Received	Matrix Code Type	Client Sample ID
FA17142-1	08/04/14	10:15 DG	08/05/14	AQ Ground Water	MW-1R

Summary of Hits

Job Number: FA17142

Account: NOVA Engineering & Environmental

Project: EQ Florida; 7202 E 8th Ave, Tampa, FL

Collected: 08/04/14

Page 1 of 1

2

Lab Sample ID	Client Sample ID	Result/ Qual	PQL	MDL	Units	Method
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FA17142-1 MW-1R

No hits reported in this sample.



Sample Results

Report of Analysis

Report of Analysis

Page 1 of 1

3.1

Client Sample ID:	MW-1R	Date Sampled:	08/04/14
Lab Sample ID:	FA17142-1	Date Received:	08/05/14
Matrix:	AQ - Ground Water	Percent Solids:	n/a
Method:	SW846 8260B		
Project:	EQ Florida; 7202 E 8th Ave, Tampa, FL		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	C0099934.D	1	08/09/14	EP	n/a	n/a	VC4010
Run #2							

	Purge Volume
Run #1	5.0 ml
Run #2	

CAS No.	Compound	Result	PQL	MDL	Units	Q
1330-20-7	Xylene (total)	0.66 U	3.0	0.66	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	99%		83-118%
17060-07-0	1,2-Dichloroethane-D4	99%		79-125%
2037-26-5	Toluene-D8	98%		85-112%
460-00-4	4-Bromofluorobenzene	98%		83-118%

U = Not detected MDL = Method Detection Limit
PQL = Practical Quantitation Limit
L = Indicates value exceeds calibration range

I = Result > = MDL but < PQL J = Estimated value
V = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	MW-1R	Date Sampled:	08/04/14
Lab Sample ID:	FA17142-1	Date Received:	08/05/14
Matrix:	AQ - Ground Water	Percent Solids:	n/a
Method:	SW846 8081B SW846 3510C		
Project:	EQ Florida; 7202 E 8th Ave, Tampa, FL		

Run #	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	TT367227.D	1	08/08/14	FS	08/07/14	OP52624	GTT1498
Run #2							

Run #	Initial Volume	Final Volume
Run #1	250 ml	5.0 ml
Run #2		

Pesticide Special List

CAS No.	Compound	Result	PQL	MDL	Units	Q
309-00-2	Aldrin	0.0064 U	0.040	0.0064	ug/l	
319-84-6	alpha-BHC	0.0040 U	0.040	0.0040	ug/l	
319-85-7	beta-BHC	0.011 U	0.040	0.011	ug/l	
58-89-9	gamma-BHC (Lindane)	0.0042 U	0.040	0.0042	ug/l	
60-57-1	Dieldrin	0.0067 U	0.040	0.0067	ug/l	
50-29-3	4,4'-DDT	0.010 U	0.080	0.010	ug/l	
959-98-8	Endosulfan-I	0.0066 U	0.040	0.0066	ug/l	
33213-65-9	Endosulfan-II	0.0080 U	0.040	0.0080	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
877-09-8	Tetrachloro-m-xylene	87%		42-127%
2051-24-3	Decachlorobiphenyl	57%		27-127%

U = Not detected MDL = Method Detection Limit
PQL = Practical Quantitation Limit
L = Indicates value exceeds calibration range

I = Result > = MDL but < PQL J = Estimated value
V = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Misc. Forms

Custody Documents and Other Forms

Includes the following where applicable:

- Chain of Custody

FA17142

Accutest JOB #

PAGE 1 OF 1

[illegible]

FA17142: Chain of Custody
Page 1 of 2

ACCUTEST LABORATORIES SAMPLE RECEIPT CONFIRMATION

ACCUTEST'S JOB NUMBER: FA17142 CLIENT: Nova PROJECT: EQ Florida
 DATE/TIME RECEIVED: 0805-14 800 (MM/DD/YY 24:00) NUMBER OF COOLERS RECEIVED: 1
 METHOD OF DELIVERY: FEDEX UPS ACCUTEST COURIER GREYHOUND DELIVERY OTHER
 AIRBILL NUMBERS: _____

COOLER INFORMATION

- ☐ CUSTODY SEAL NOT PRESENT OR NOT INTACT
- ☐ CHAIN OF CUSTODY NOT RECEIVED (COC)
- ☐ ANALYSIS REQUESTED IS UNCLEAR OR MISSING
- ☐ SAMPLE DATES OR TIMES UNCLEAR OR MISSING
- ☐ TEMPERATURE CRITERIA NOT MET

TRIP BLANK INFORMATION

- ☐ TRIP BLANK PROVIDED
- ☒ TRIP BLANK NOT PROVIDED
- ☒ TRIP BLANK NOT ON COC
- ☐ TRIP BLANK INTACT
- ☐ TRIP BLANK NOT INTACT
- ☐ RECEIVED WATER TRIP BLANK
- ☐ RECEIVED SOIL TRIP BLANK

MISC. INFORMATION

NUMBER OF ENCORES ? 25-GRAM _____ 5-GRAM _____
 NUMBER OF 5035 FIELD KITS ? _____
 NUMBER OF LAB FILTERED METALS ? _____

TEMPERATURE INFORMATION

IR THERM ID 1 CORR. FACTOR 10-4
 OBSERVED TEMPS: 7-2
 CORRECTED TEMPS: 2-6

SAMPLE INFORMATION

- ☐ INCORRECT NUMBER OF CONTAINERS USED
- ☐ SAMPLE RECEIVED IMPROPERLY PRESERVED
- ☐ INSUFFICIENT VOLUME FOR ANALYSIS
- ☐ DATES/TIMES ON COC DO NOT MATCH SAMPLE LABEL
- ☐ ID'S ON COC DO NOT MATCH LABEL
- ☐ VOC VIALS HAVE HEADSPACE (MACRO BUBBLES)
- ☐ BOTTLES RECEIVED BUT ANALYSIS NOT REQUESTED
- ☐ NO BOTTLES RECEIVED FOR ANALYSIS REQUESTED
- ☐ UNCLEAR FILTERING OR COMPOSITING INSTRUCTIONS
- ☐ SAMPLE CONTAINER(S) RECEIVED BROKEN
- ☐ 5035 FIELD KITS NOT RECEIVED WITHIN 48 HOURS
- ☐ BULK VOA SOIL JARS NOT RECEIVED WITHIN 48 HOURS
- ☐ % SOLIDS JAR NOT RECEIVED
- ☐ RESIDUAL CHLORINE PRESENT

(APPLICABLE TO EPA 800 SERIES OR NORTH CAROLINA ORGANICS)

SUMMARY OF COMMENTS: 250 ml on (8081)

TECHNICIAN SIGNATURE/DATE

RS 04/14

REVIEWER SIGNATURE/DATE

receipt confirmation 041514.xls

FA17142: Chain of Custody

Page 2 of 2

GC/MS Volatiles

5

QC Data Summaries

Includes the following where applicable:

- Method Blank Summaries
- Blank Spike Summaries
- Matrix Spike and Duplicate Summaries

Method Blank Summary

Page 1 of 1

Job Number: FA17142

Account: NOVAFLT NOVA Engineering & Environmental

Project: EQ Florida; 7202 E 8th Ave, Tampa, FL

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
VC4010-MB	C0099922.D	1	08/08/14	EP	n/a	n/a	VC4010

The QC reported here applies to the following samples:

Method: SW846 8260B

FA17142-1

CAS No.	Compound	Result	RL	MDL	Units	Q
1330-20-7	Xylene (total)	ND	3.0	0.66	ug/l	

CAS No.	Surrogate Recoveries	Limits	
1868-53-7	Dibromofluoromethane	99%	83-118%
17060-07-0	1,2-Dichloroethane-D4	100%	79-125%
2037-26-5	Toluene-D8	101%	85-112%
460-00-4	4-Bromofluorobenzene	100%	83-118%

5.1.1

5

Blank Spike Summary

Page 1 of 1

Job Number: FA17142
Account: NOVAFLT NOVA Engineering & Environmental
Project: EQ Florida; 7202 E 8th Ave, Tampa, FL

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
VC4010-BS	C0099921.D	1	08/08/14	EP	n/a	n/a	VC4010

The QC reported here applies to the following samples:

Method: SW846 8260B

FA17142-1

CAS No.	Compound	Spike ug/l	BSP ug/l	BSP %	Limits
1330-20-7	Xylene (total)	75	80.4	107	80-126

CAS No.	Surrogate Recoveries	BSP	Limits
1868-53-7	Dibromofluoromethane	93%	83-118%
17060-07-0	1,2-Dichloroethane-D4	95%	79-125%
2037-26-5	Toluene-D8	97%	85-112%
460-00-4	4-Bromofluorobenzene	93%	83-118%

* = Outside of Control Limits.

Matrix Spike/Matrix Spike Duplicate Summary

Page 1 of 1

Job Number: FA17142

Account: NOVAFLT NOVA Engineering & Environmental

Project: EQ Florida; 7202 E 8th Ave, Tampa, FL

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
FA17179-3MS	C0099924.D	200	08/08/14	EP	n/a	n/a	VC4010
FA17179-3MSD	C0099925.D	200	08/08/14	EP	n/a	n/a	VC4010
FA17179-3	C0099923.D	200	08/08/14	EP	n/a	n/a	VC4010

The QC reported here applies to the following samples:

Method: SW846 8260B

FA17142-1

CAS No.	Compound	FA17179-3 ug/l	Spike Q	MS ug/l	MS %	Spike ug/l	MSD ug/l	MSD %	RPD	Limits Rec/RPD
1330-20-7	Xylene (total)	ND	15000	14400	96	15000	14100	94	2	80-126/15

CAS No.	Surrogate Recoveries	MS	MSD	FA17179-3	Limits
1868-53-7	Dibromofluoromethane	94%	92%	101%	83-118%
17060-07-0	1,2-Dichloroethane-D4	96%	95%	101%	79-125%
2037-26-5	Toluene-D8	96%	95%	99%	85-112%
460-00-4	4-Bromofluorobenzene	92%	94%	100%	83-118%

* = Outside of Control Limits.

GC Semi-volatiles

QC Data Summaries

Includes the following where applicable:

- Method Blank Summaries
- Blank Spike Summaries
- Matrix Spike and Duplicate Summaries



Method Blank Summary

Page 1 of 1

Job Number: FA17142

Account: NOVAFLT NOVA Engineering & Environmental

Project: EQ Florida; 7202 E 8th Ave, Tampa, FL

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
OP52624-MB	TT367226.D	1	08/08/14	FS	08/07/14	OP52624	GTT1498

The QC reported here applies to the following samples:

Method: SW846 8081B

FA17142-1

6.1.1



CAS No.	Compound	Result	RL	MDL	Units	Q
309-00-2	Aldrin	ND	0.040	0.0064	ug/l	
319-84-6	alpha-BHC	ND	0.040	0.0040	ug/l	
319-85-7	beta-BHC	ND	0.040	0.011	ug/l	
58-89-9	gamma-BHC (Lindane)	ND	0.040	0.0042	ug/l	
60-57-1	Dieldrin	ND	0.040	0.0067	ug/l	
50-29-3	4,4'-DDT	ND	0.080	0.010	ug/l	
959-98-8	Endosulfan-I	ND	0.040	0.0066	ug/l	
33213-65-9	Endosulfan-II	ND	0.040	0.0080	ug/l	

CAS No.	Surrogate Recoveries		Limits
877-09-8	Tetrachloro-m-xylene	85%	42-127%
2051-24-3	Decachlorobiphenyl	97%	27-127%

Blank Spike Summary

Page 1 of 1

Job Number: FA17142

Account: NOVAFLT NOVA Engineering & Environmental

Project: EQ Florida; 7202 E 8th Ave, Tampa, FL

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
OP52624-BS	TT367224.D	1	08/08/14	FS	08/07/14	OP52624	GTT1498

The QC reported here applies to the following samples:

Method: SW846 8081B

FA17142-1

CAS No.	Compound	Spike ug/l	BSP ug/l	BSP %	Limits
309-00-2	Aldrin	1	0.90	90	61-126
319-84-6	alpha-BHC	1	0.97	97	66-129
319-85-7	beta-BHC	1	1.0	100	66-132
58-89-9	gamma-BHC (Lindane)	1	1.0	100	68-132
60-57-1	Dieldrin	1	1.0	100	66-138
50-29-3	4,4'-DDT	1	1.1	110	55-145
959-98-8	Endosulfan-I	1	0.89	89	66-133
33213-65-9	Endosulfan-II	1	0.99	99	65-133

CAS No.	Surrogate Recoveries	BSP	Limits
877-09-8	Tetrachloro-m-xylene	93%	42-127%
2051-24-3	Decachlorobiphenyl	107%	27-127%

* = Outside of Control Limits.

Blank Spike Summary

Page 1 of 1

Job Number: FA17142

Account: NOVAFLT NOVA Engineering & Environmental

Project: EQ Florida; 7202 E 8th Ave, Tampa, FL

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
OP52624-BS2	TT367225.D	1	08/08/14	FS	08/07/14	OP52624	GTT1498

The QC reported here applies to the following samples:

Method: SW846 8081B

FA17142-1

CAS No.	Compound	Spike ug/l	BSP ug/l	BSP %	Limits
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CAS No.	Surrogate Recoveries	BSP	Limits
877-09-8	Tetrachloro-m-xylene	90%	42-127%
2051-24-3	Decachlorobiphenyl	108%	27-127%

* = Outside of Control Limits.

Matrix Spike/Matrix Spike Duplicate Summary

Page 1 of 1

Job Number: FA17142

Account: NOVAFLT NOVA Engineering & Environmental

Project: EQ Florida; 7202 E 8th Ave, Tampa, FL

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
OP52624-MS	TT367228.D	1	08/08/14	FS	08/07/14	OP52624	GTT1498
OP52624-MSD	TT367229.D	1	08/08/14	FS	08/07/14	OP52624	GTT1498
FA17142-1	TT367227.D	1	08/08/14	FS	08/07/14	OP52624	GTT1498

The QC reported here applies to the following samples:

Method: SW846 8081B

FA17142-1

CAS No.	Compound	FA17142-1 ug/l	Spike Q	MS ug/l	MS %	Spike ug/l	MSD ug/l	MSD %	RPD	Limits Rec/RPD
309-00-2	Aldrin	0.040 U	2.08	1.7	82	2.08	1.8	86	6	61-126/21
319-84-6	alpha-BHC	0.040 U	2.08	1.8	86	2.08	1.9	91	5	66-129/23
319-85-7	beta-BHC	0.040 U	2.08	1.9	91	2.08	2.0	96	5	66-132/23
58-89-9	gamma-BHC (Lindane)	0.040 U	2.08	1.9	91	2.08	2.0	96	5	68-132/22
60-57-1	Dieldrin	0.040 U	2.08	1.9	91	2.08	2.0	96	5	66-138/22
50-29-3	4,4'-DDT	0.080 U	2.08	2.0	96	2.08	2.1	101	5	55-145/27
959-98-8	Endosulfan-I	0.040 U	2.08	1.6	77	2.08	1.8	86	12	66-133/21
33213-65-9	Endosulfan-II	0.040 U	2.08	1.8	86	2.08	1.9	91	5	65-133/22

CAS No.	Surrogate Recoveries	MS	MSD	FA17142-1	Limits
877-09-8	Tetrachloro-m-xylene	87%	91%	87%	42-127%
2051-24-3	Decachlorobiphenyl	93%	88%	57%	27-127%

* = Outside of Control Limits.