N61331.AR.001627
NSA PANAMA CITY
5090.3a

FINAL TECHNICAL MEMORANUM FOR BUILDING 98 NSA PANAMA CITY FL
9/1/2013
TETRA TECH

FINAL TECHNICAL MEMORANDUM
BUILDING 98
NAVAL SUPORT ACTIVITY PANAMA CITY
PANAMA CITY, FLORIDA
SEPTEMBER 2013

1.0 SITE BACKGROUND

Building 98 is located in a developed area at the eastern side of Naval Support Activity (NSA) Panama City located in Panama City Beach, Florida (Figures 1 and 2). The site includes an asphalt paved parking lot surrounded by offices, storage, warehouse buildings and a lay down storage compound. The site was identified based on a 560 gallon underground storage tank (UST) located on the west side of Building 98 that contained diesel fuel (heating oil) used to provide heat to the building. It is unknown as to the exact date the UST was installed; however, it was in service for approximately 45 years and was removed on August 8, 1997. As part of the removal processes, a Closure Assessment Form in accordance with Chapter 62-761.800(3) Florida Administrative Code (F.A.C.) was submitted to the Florida Department of Environmental Protection (FDEP) on December 5, 1997. Closure of this site has not been approved by FDEP. The site is encompassed within the groundwater land use control boundaries of adjacent site Area of Concern (AOC) 1 that was previously investigated under the Resource Conservation and Recovery Act (RCRA) and state of Florida petroleum programs.

1.1 SUMMARY OF PREVIOUS INVESTIGATIONS

As indicated above, the UST was removed on August 8, 1997 and a Closure Assessment Form was completed. During the UST removal, soil was screened in accordance with Florida Petroleum Contamination Site Cleanup Criteria head space screening criteria as outlined in Chapter 62-770 F.A.C (FDEP, 2005). Based on the FID readings, contaminated soil was removed over an area and depths until soil gas headspace levels in the surrounding soil were less than 50 parts per million (ppm). Approximately 3 cubic yards of soil exhibiting greater than 50 ppm levels were removed. The final area of the tank pit excavation area measured approximately 8 feet wide, 10 feet long, and 5 feet deep.

A temporary monitoring well was installed and the groundwater sample was analyzed for volatiles by U.S. Environmental Protection Agency (USEPA) Method 8260, semivolatiles by USEPA Method 8270, lead by USEPA Method 239.2, and ethylene dibromide by USEPA Method 504. Petroleum hydrocarbons were detected in the groundwater sample; however, the contamination was attributed to AOC 1 (the former fire fighter training area) that is located up-gradient of Building 98. Groundwater contamination at Building 98 is being addressed under the RCRA monitoring program for AOC 1.

2.0 APRIL 2012 INVESTIGATION

During the UST excavation in 1997, total corrected hydrocarbons measurements (total FID measurement – carbon filtered FID readings) were detected in excess of 10 ppm, but less than the 50 ppm criteria for the Kerosene Analytical Group "Excessively Contaminated Soil" designation in head space soil samples collected from locations SS-3, SS-4, and SS-5 (Figure 3). A summary of the FID readings collected in 1997 is provided in Table 1. Based on the elevated headspace measurements, the Navy decided to complete additional step-out samples and FID headspace screening to further investigate the original FID screening locations of SS-3, SS-4, and SS-5 (Naval Facilities Engineering Command, Southeast, 2012).

The additional step-out soil headspace investigation was completed April 12, 2012 and soil samples from the designated step-out locations were screened with a FID in 1 foot intervals until the water table was encountered. A summary of the FID measurements recorded is provided in Table 2 and corresponds to the 2012 sampling shown on Figure 3.

Confirmation soil samples for laboratory analysis were collected from select depth intervals, based on FID screening and submitted to a fixed based laboratory for analysis of benzene, toluene, ethylbenzene, total xylenes (BTEX), and methy-tert-butyl ether (MTBE) by USEPA Method 8260C, low level polycyclic aromatic hydrocarbons (PAHs) by USEPA Method 8270C, and total recoverable petroleum hydrocarbons (TRPH) by Florida Residual Petroleum Organics Method (FL-PRO). The lithologic description of the soil borings are provided in Attachment 1, the laboratory analytical results are summarized in Table 3 and Figure 4 and provided in full in Attachment 2.

Soil Sample Analytical Results

- None of the volatile organic compounds (including BTEX and MTBE) were detected at concentrations exceeding the method detection limits.

- Fifteen PAHs were detected in the soil sample PCY-0098-4-6-SB-SS3. However, only benzo(a)pyrene (0.290 milligrams per kilogram [mg/kg]) and the benzo(a)pyrene toxicity equivalent (BAP TEQ; 0.4 mg/kg) exceeded the Residential Direct Exposure Soil Cleanup Target Level (SCTL) of 0.1 mg/kg. None of the remaining PAHs were detected at concentrations exceeding their respective direct exposure or leachability SCTLs.

- TRPH was detected in soil samples PCY-0098-4-6-SB-SS2 and PCY-0098-4-6-SS3. However, they were detected at concentrations less than the Florida SCTL criteria.

3.0 CONCLUSIONS AND RECOMENDATIONS

As indicated above, based on the Soil Headspace Screening Data "Excessively Contaminated Soil" is not present at the site. However, soil analytical results indicated an elevated concentration of PAHs

exceeding the Residential Direct Exposure SCTL at the 4- to 6-foot depth at soil boring PC-0098-4-6-SBSS3 location. The detected concentration did not exceed the Florida Industrial Direct Exposure or Leachability SCTL. Because the soil boring PC-0098-4-6-SB-SS3 location was a step out location, the vertical and lateral extent of the contamination has not been fully defined. It is recommended that additional soil sampling be conducted to complete the delineation of Building 98 soil contamination, followed by limited excavation to remove the soil PAH concentrations in excess of residential SCTLs. This removal would constitute a contaminant source removal. Pre-excavation delineation sampling would minimize the time the excavation would be open, thus minimizing a safety hazard and avoiding direct contact of subsurface soil with precipitation. Upon completion of the contaminant removal, the soil of Building 98 would satisfy FDEP requirements and would allow Building 98 soil to be scheduled for site closure for unrestricted use.

To satisfy all FDEP requirements for site closure with no further action, sampling of groundwater in conjunction with the soil excavation is also recommended to verify that disturbance of the soil has not resulted in groundwater PAH exceedances of GCTLs.

REFERENCES

Naval Facilities Engineering Command, Southeast, 2012. Final Sampling Work Plan for Building 98, Site 325 and Area of Concern (AOC)-2/ South Dock, Naval Support Auxiliary Panama City, Panama City Beach, Florida. March.

FDEP (Florida Department of Environmental Protection), 2005. *Final Technical Report: Development of Cleanup Target Levels (CTLs) for Chapter 62-777, F.A.C.* Prepared for the Division of Waste Management, Florida Department of Environmental Protection; Prepared by Center for Environmental & Human Toxicology, University of Florida, Gainesville, FL. February 26.

PROFESSIONAL CERTIFICATION

Technical Memorandum for Building 98
Naval Support Activity Panama City
Panama City Beach, Florida

This Technical Memorandum for Building 98 at Naval Support Activity Panama City was prepared under my direct supervision using geologic and hydrogeologic principles standard to the profession at the time the report was prepared. If conditions are determined to exist that differ from those described, the undersigned geologist should be notified to evaluate the effects of additional information on the information described in this report. This report was developed specifically for the referenced site and should not be construed to apply to any other site.

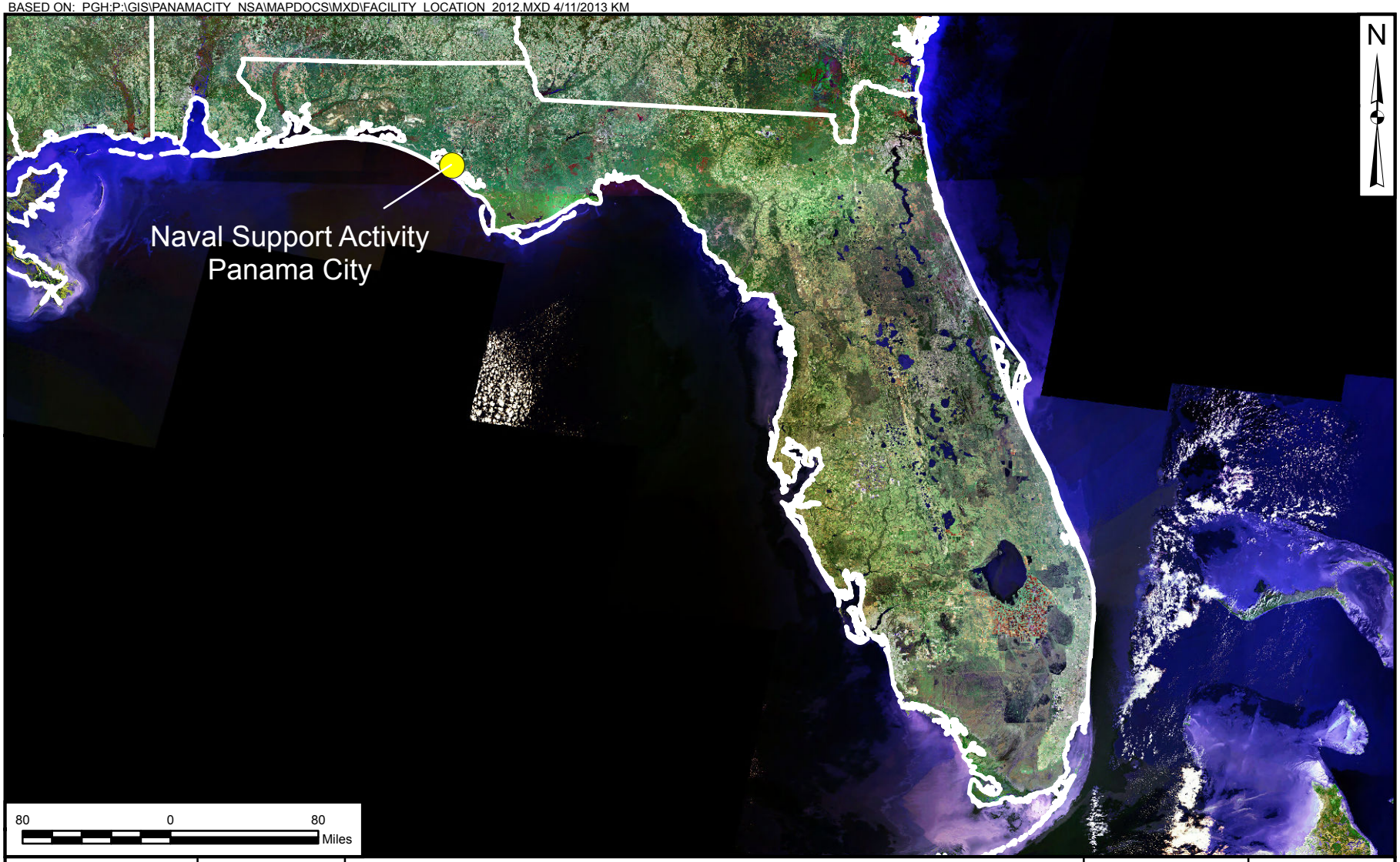
Gerald A. Walker

Gerald A. Walker, P.G.
Florida License No. PG-0001180

September 6, 2013
Date

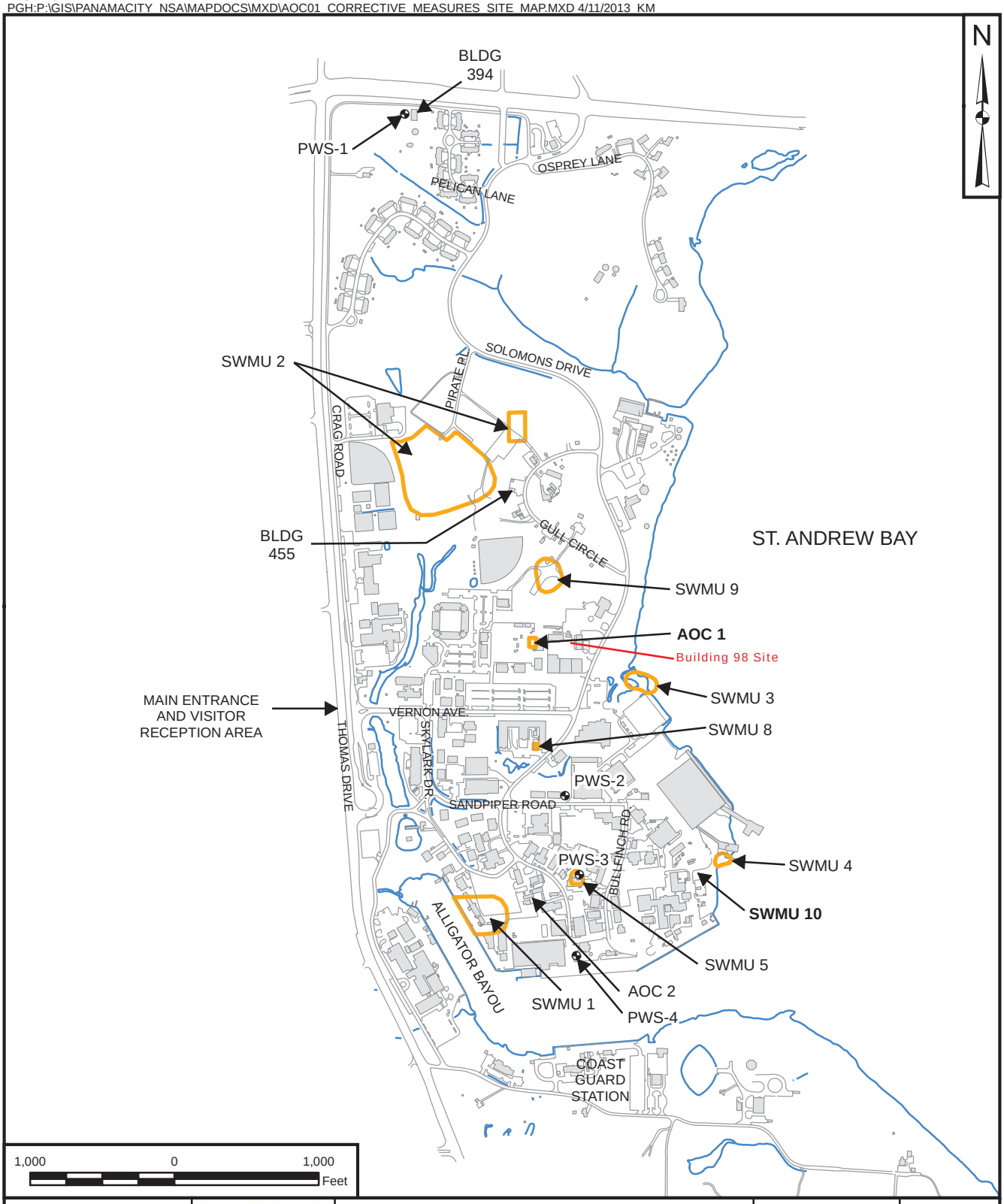
FIGURES

BASED ON: PGH:P:\GIS\PANAMACITY_NSA\MAPDOCS\MXD\FACILITY_LOCATION_2012.MXD 4/11/2013 KM



DRAWN BY J. NOVAK	DATE 05/16/12	CONTRACT NUMBER ___	CTO NUMBER 0066
CHECKED BY L. GANSER	DATE 4/11/13	APPROVED BY ___	DATE ___
REVISED BY ___	DATE ___	APPROVED BY ___	DATE ___
SCALE AS NOTED		FIGURE NO. 1	REV 0

BASED ON:
PGH:P:\GIS\PANAMACITY_NSA\MAPDOCS\MXD\AOC01_CORRECTIVE_MEASURES_SITE_MAP.MXD 4/11/2013 KM



DRAWN BY	DATE
J. NOVAK	05/16/12
CHECKED BY	DATE
L. GANSER	4/11/13
REVISED BY	DATE
SCALE AS NOTED	

NAVFAC

SITE LOCATION MAP
BUILDING 98 TECHNICAL MEMORANDUM

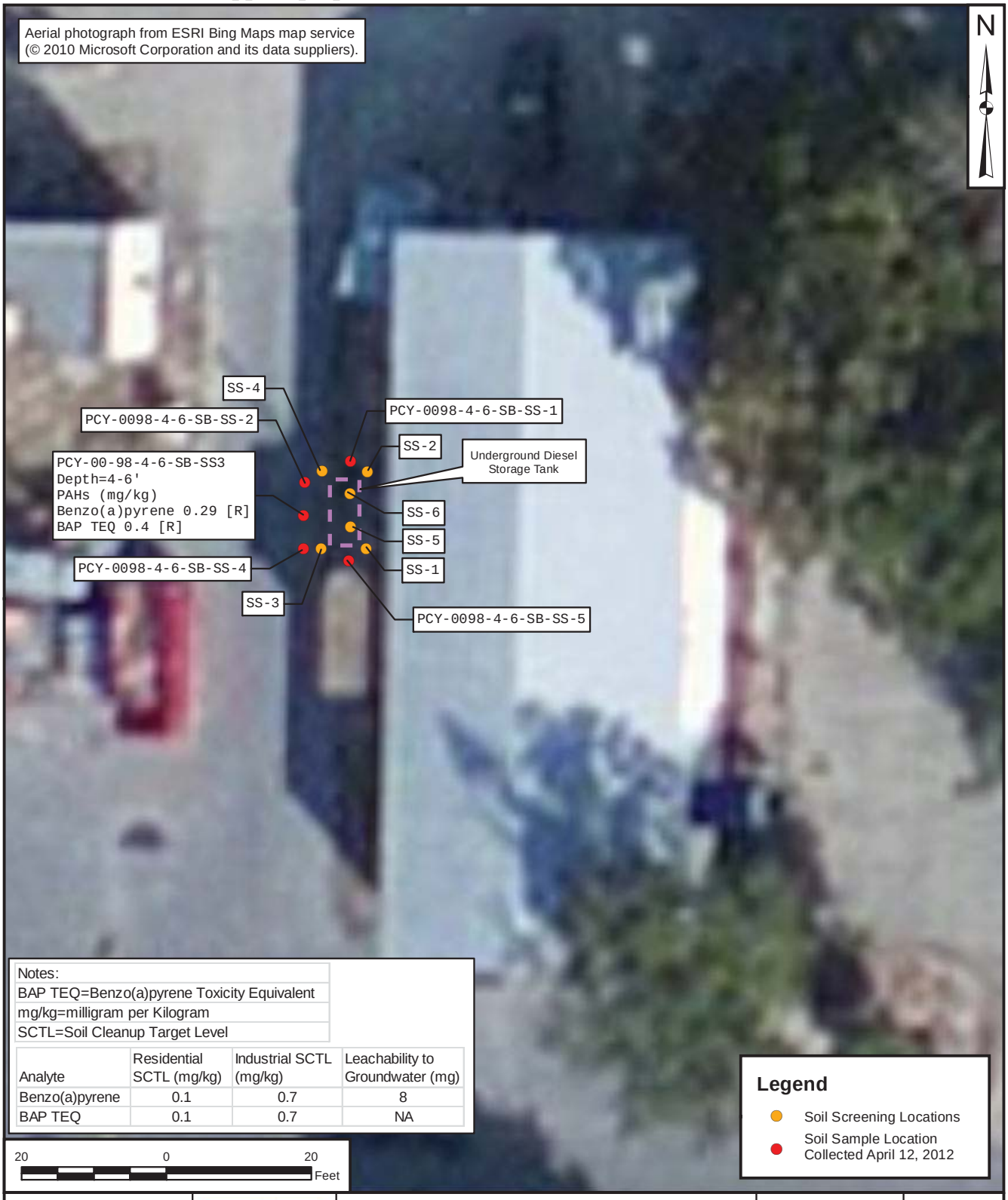
NSA PANAMA CITY
PANAMA CITY BEACH, FLORIDA

CONTRACT NUMBER	CTO NUMBER
_____	0066
APPROVED BY	DATE
_____	_____
APPROVED BY	DATE
_____	_____
FIGURE NO. 2	REV 0

JAX C:\GIS\PANAMA CITY\MXD\FIGURE_1_BLDG98_SOIL_LOCS.MXD 05/08/13

DRAWN BY J. ENGLISH	DATE 01/07/13	SOIL SAMPLE LOCATIONS BUILDING 98 TECHNICAL MEMORANDUM NSA PANAMA CITY PANAMA CITY BEACH, FLORIDA	CONTRACT NUMBER 4292 / CTO NUMBER 0066
CHECKED BY L. SMITH	DATE 05/08/13		APPROVED BY ___ / DATE ___
REVISED BY J.MADDEN	DATE 05/08/13		APPROVED BY ___ / DATE ___
SCALE AS NOTED			FIGURE NO. 3 / REV 0

JAX C:\GIS\PANAMA CITY\MXD\FIGURE_2_BLDG98_SOIL_EXCEEDS.MXD 05/08/13



Notes:
BAP TEQ=Benzo(a)pyrene Toxicity Equivalent
mg/kg=milligram per Kilogram
SCTL=Soil Cleanup Target Level

Analyte	Residential SCTL (mg/kg)	Industrial SCTL (mg/kg)	Leachability to Groundwater (mg)
Benzo(a)pyrene	0.1	0.7	8
BAP TEQ	0.1	0.7	NA

DRAWN BY J. ENGLISH	DATE 01/07/13	CONTRACT NUMBER 4292	CTO NUMBER 0066
CHECKED BY L. SMITH	DATE 05/08/13	APPROVED BY ___	DATE ___
REVISED BY J.MADDEN	DATE 05/08/13	APPROVED BY ___	DATE ___
SCALE AS NOTED		FIGURE NO. 4	REV 0

TABLES

TABLE 1

FID SOIL SCREENING SUMMARY 1997
BUILDING 98
NSA PANAMA CITY
PANAMA CITY, FLORIDA

HAND AUGER SAMPLE NO.	DEPTH (FEET BLS)	UNFILTERED (PPM)	FILTERED (PPM)	TOTAL HYDROCARBON READING (PPM)
SS-1	5	7	5	2
SS-2	5	<1	<1	0
SS-3	5	79	42	37
SS-4	5	60	15	45
SS-5	6	17	4	13
SS-6	6	4	2	2

Notes:

BLS - below land surface

FID =Flame Ionization Detector

PPM = parts per million

< = less than

TABLE 2

FID SOIL SCREENING SUMMARY APRIL 2012

BUILDING 98
NSA PANAMA CITY
PANAMA CITY, FLORIDA

SAMPLE				FID SCREENING RESULTS			COMMENTS
BORING NO.	DATE COLLECTED	DEPTH TO WATER	SAMPLE INTERVAL (FBLS)	TOTAL READING (ppm)	CARBON FILTERED (ppm)	NET READING (ppm)	
PCY-0098-SS1	4/12/2012	~6.0	0-1	<1	NA	<1	
			1-2	<1	NA	<1	
			2-3	<1	NA	<1	
			3-4	<1	NA	<1	
			4-5	<1	NA	<1	
			5-6	<1	NA	<1	Laboratory sample collected at 4-6 FBLS interval
			6-7	<1	NA	<1	
PCY-0098-SS2	4/12/2012	~6.0	0-1	<1	NA	<1	
			1-2	<1	NA	<1	
			2-3	<1	NA	<1	
			3-4	<1	NA	<1	
			4-5	<1	NA	<1	
			5-6	<1	NA	<1	Laboratory sample collected at 4-6 FBLS interval
PCY-0098-SS3	4/12/2012	~6.0	0-1	<1	NA	<1	
			1-2	<1	NA	<1	
			2-3	<1	NA	<1	
			3-4	<1	NA	<1	
			4-5	<1	NA	<1	
			5-6	<1	NA	<1	Laboratory sample collected at 4-6 FBLS interval
PCY-0098-SS4	4/12/2012	~6.0	0-1	<1	NA	<1	
			1-2	<1	NA	<1	
			2-3	<1	NA	<1	
			3-4	<1	NA	<1	
			4-5	<1	NA	<1	
			5-6	<1	NA	<1	Laboratory sample collected at 4-6 FBLS interval
PCY-0098-SS5	4/12/2012	~6.0	0-1	<1	NA	<1	
			1-2	<1	NA	<1	
			2-3	<1	NA	<1	
			3-4	<1	NA	<1	
			4-5	<1	NA	<1	
			5-6	<1	NA	<1	Laboratory sample collected at 4-6 FBLS interval

Notes:
FBLS = feet below land surface
FID =Flame Ionization Detector
NA = Not Analyzed
ppm = parts per million
< = less than

TABLE 3

SOIL ANALYTICAL SUMMARY
BUILDING 98
NSA PANAMA CITY
PANAMA CITY, FLORIDA

						Laboratory Analysis													
Site Name	**Sample Number**	**Date Collected**	**Depth to Water (feet)**	**Sample Interval (fbls)**	**Net FID Reading (ppm)**	**MTBE (mg/kg)**	**Benzene (mg/kg)**	**Toluene (mg/kg)**	**Ethyl-benzene (mg/kg)**	**Xylenes (mg/kg)**	**1-Methyl-napthalene (mg/kg)**	**2-Methyl-napthalene (mg/kg)**	**Naph-thalene (mg/kg)**	**Ace-naphthene (mg/kg)**	**Acenaph-thylene (mg/kg)**	**Anthracene (mg/kg)**	**TRPH (mg/kg)**	**Benzo[a]-anthracene (mg/kg)**	**Benzo[a]-pyrene (mg/kg)**
Residential Exposure Target Level						4400	1.2	7500	1500	130	200	210	55	2400	1800	21000	460	#	0.1
Commercial/Industrial Exposure Target Level						24000	1.7	60000	9200	700	1800	2100	300	20000	20000	300000	2700	#	0.7
Leachability Based on Groundwater Target Level						0.09	0.007	0.5	0.6	0.2	3.1	8.5	1.2	2.1	27	2500	340	0.8	8
PCY-0098-	4-6-SB-SS1	4/12/12	~6.0'	4-6	<1	0.0014 U	0.0015 U	0.0017 U	0.0014 U	0.0048 U	0.0057 U	0.0056 U	0.0048 U	0.0058 U	0.0055 U	0.0055 U	4.0 U	0.0063 U	0.0042 U
	4-6-SB-SS2	4/12/12	~6.0'	4-6	<1	0.0013 U	0.0014 U	0.0015 U	0.0012 U	0.0042 U	0.0057 U	0.0057 U	0.0049 U	0.0058 U	0.0055 U	0.0055 U	30 I	0.0063 U	0.0042 U
	4-6-SB-SS3	4/12/12	~6.0'	4-6	<1	0.001 U	0.0011 U	0.0012 U	0.00097 U	0.0034 U	0.0059 U	0.0059 U	0.0051 U	0.0066 I	0.08	0.058	45	0.260	**0.290**
	4-6-SB-SS4	4/12/12	~6.0'	4-6	<1	0.00094 U	0.001 U	0.0012 U	0.00091 U	0.0032 U	0.0058 U	0.0057 U	0.0049 U	0.0059 U	0.0056 U	0.0056 U	4.1 U	0.0064 U	0.0043 U
	4-6-SB-SS5	4/12/12	~6.0'	4-6	<1	0.0015 U	0.0016 U	0.0018 U	0.0014 U	0.0049 U	0.0057 U	0.0057 U	0.0049 U	0.0058 U	0.0055 U	0.0055 U	4.0 U	0.0063 U	0.0042 U

						Laboratory Analysis										
Site Name	**Sample Number**	**Date Collected**	**Depth to Water (feet)**	**Sample Interval (fbls)**	**Net FID Reading (ppm)**	**Benzo[b]-fluoranthene (mg/kg)**	**Benzo[g,h,i]-perylene (mg/kg)**	**Benzo[k]-fluoranthene (mg/kg)**	**Chrysene (mg/kg)**	**Dibenzo[a,h]-anthracene (mg/kg)**	**Fluoranthene (mg/kg)**	**Fluorene (mg/kg)**	**Indeno(1,2,3-cd)pyrene (mg/kg)**	**Phenanthrene (mg/kg)**	**Pyrene (mg/kg)**	**BAP TEQ (mg/kg)**
Residential Exposure Target Level						#	2500	#	#	#	3200	2600	#	2200	2400	0.1
Commercial/Industrial Exposure Target Level						#	52000	#	#	#	59000	33000	#	36000	45000	0.7
Leachability Based on Groundwater Target Level						2.4	32000	24	77	0.7	1200	160	6.6	250	880	NA
PCY-0098-	4-6-SB-SS1	4/12/12	~6.0'	4-6	<1	0.0043 U	0.0054 U	0.0067 U	0.0069 U	0.0041 U	0.0057 U	0.0056 U	0.0038 U	0.0059 U	0.0068 U	NA
	4-6-SB-SS2	4/12/12	~6.0'	4-6	<1	0.0044 U	0.0054 U	0.0068 U	0.0069 U	0.0041 U	0.0057 U	0.0056 U	0.0038 U	0.0059 U	0.0068 U	NA
	4-6-SB-SS3	4/12/12	~6.0'	4-6	<1	0.400	0.240	0.130	0.210	0.038	0.410	0.0086	0.220	0.063	0.420	**0.4**
	4-6-SB-SS4	4/12/12	~6.0'	4-6	<1	0.0044 U	0.0055 U	0.0068 U	0.0070 U	0.0041 U	0.0058 U	0.0057 U	0.0038 U	0.0060 U	0.0069 U	NA
	4-6-SB-SS5	4/12/12	~6.0'	4-6	<1	0.0044 U	0.0054 U	0.0068 U	0.0070 U	0.0041 U	0.0057 U	0.0056 U	0.0038 U	0.0059 U	0.0069 U	NA

Notes:
#=Site concentrations for carcinogenic polycyclic aromatic hydrocarbons must be converted to benzo(a)pyrene equivalents before comparison with the appropriate direct exposure SCTL for benzo(a)pyrene using the appraoch described in the February 2005 'Final Technical Report: Development of Cleanup Target Levels (CTLs) for Chapter 62-777 Florida Administrative Code
fbls = feet below land surface
FID = Flame Ionization Detector
mg/kg = milligrams per kilogram
BAP TEQ= Benzo(a)pyrene toxicity equivalent
MTBE=methyl-tert-butyl-ether
TRPH = Total Recoverable Petroleum Hydrocarbons by Florida Residual Petroleum Organics Method (FL-PRO)
I = The reported value is between the laboratory method detection limit and the laboratory practical quantitation limit
U = Not Detected above the laboratory method detection limit stated
Bolded values exceed FDEP Commercial/Industrial and/or Residential Soil Cleanup Target Levels (SCTL)

ATTACHMENT 1

FIELD FORMS

EQUIPMENT CALIBRATION LOG

PROJECT NAME : NSA Panama City

SITE NAME: AOC-2 / BLDG.98 / SITE 325

PROJECT No.:

INSTRUMENT NAME/MODEL: MicroFID I/SC Exia

MANUFACTURER: Photovac, Inc.

SERIAL NUMBER: CEVK306

	Date of Calibration	Instrument I.D. Number	Person Performing Calibration	Instrument Settings		Instrument Readings		Calibration Standard (Lot No.)	Remarks and Comments
				Pre-calibration	Post-calibration	Pre-calibration	Post-calibration		
AM	4-11-12	#15025	Ed Glinski			99.8	99.8	100 ppm Methane in Air	Pass
PM	4-11-12	#15025	Ed Glinski			99.6	99.7	LTH070-	NM-CM Pass
AM	4-12-12	#15025	Ed Glinski			99.7	99.8	"	Pass
PM	4-12-12	#15025	Ed Glinski			99.6	99.8	"	Pass
AM									
PM									

EQUIPMENT CALIBRATION LOG

PROJECT NAME : NSA Panama City

INSTRUMENT NAME/MODEL: Lamotte 2020E

SITE NAME: SODO

MANUFACTURER: Lamotte

PROJECT No.: NA

SERIAL NUMBER: 10741

NTU LV 0.98
NTU HD: 9.97

Date of Calibration	Instrument I.D. Number	Person Performing Calibration	Instrument Settings		Instrument Readings		Calibration Standard (Lot No.)	Remarks and Comments
			Pre-calibration	Post-calibration	Pre-calibration	Post-calibration		
4/13/12	10741	Ed Glinski			-0.09	-0.09		Calibrated 04/06/12

INSTRUMENT CALIBRATION REPORT

Pine Environmental Services, Inc.
3902 Corporex Park Drive, Suite 450
Tampa, FL 33619
Toll-free: (877) 259-PINE (7463)

Pine Environmental Services, Inc.

Instrument ID 15025
Description Photovac Micro FID
Calibrated 4/9/2012

Manufacturer Photovac
Model Number Micro FID
Serial Number/ Lot Number CZVK306
Location Florida
Department

State Certified
Status Pass
Temp °C 24.3
Humidity % 43

Calibration Specifications

Group # 1
Group Name Methane
Stated Accy Pct of Reading

Range Acc % 0.0000
Reading Acc % 3.0000
Plus/Minus 0.00

Nom In Val / In Val	In Type	Out Val	Out Type	Fnd As	Lft As	Dev%	Pass/Fail
100.00 / 100.00	PPM	100.00	PPM	99.80	99.80	-0.20%	Pass

Test Instruments Used During the Calibration

(As Of Cal Entry Date)

Test Standard ID	Description	Manufacturer	Model Number	Serial Number / Lot Number	Last Cal Date/ Opened Date	Next Cal Date / Expiration Date
FL CH4 100PPM	FL CH4 100ppm 105L	Liquid Technology	GP12020	LTH070-MM-CM		8/30/2013

Notes about this calibration

Calibration Result Calibration Successful
Who Calibrated Brandon James

All instruments are calibrated by Pine Environmental Services, Inc. according to the manufacturer's specifications, but it is the customer's responsibility to calibrate and maintain this unit in accordance with the manufacturer's specifications and/or the customer's own specific needs.

Notify Pine Environmental Services, Inc. of any defect within 24 hours of receipt of equipment
Please call 866-960-7463 for Technical Assistance

INSTRUMENT CALIBRATION REPORT

Pine Environmental Services, Inc.
3902 Corporex Park Drive, Suite 450
Tampa, FL 33619
Toll-free: (877) 259-PINE (7463)

Pine Environmental Services, Inc.

Instrument ID 17085
Description YSI 556
Calibrated 4/4/2012

Manufacturer YSI
Model Number 556
Serial Number/ Lot Number 10G101446
Location Florida
Department

State Certified
Status Pass
Temp °C 26
Humidity % 41

Calibration Specifications

Group # 1
Group Name PH
Stated Accy Pct of Reading
Range Acc % 0.0000
Reading Acc % 3.0000
Plus/Minus 0.00

Nom In Val / In Val	In Type	Out Val	Out Type	Fnd As	Lft As	Dev%	Pass/Fail
7.00 / 7.00	PH	7.00	PH	7.00	7.00	0.00%	Pass
4.00 / 4.00	PH	4.00	PH	4.00	4.00	0.00%	Pass
10.00 / 10.00	PH	10.00	PH	9.99	9.99	-0.10%	Pass

Group # 2
Group Name Conductivity
Stated Accy Pct of Reading
Range Acc % 0.0000
Reading Acc % 3.0000
Plus/Minus 0.000

Nom In Val / In Val	In Type	Out Val	Out Type	Fnd As	Lft As	Dev%	Pass/Fail
1.413 / 1.413	ms/cm	1.413	ms/cm	1.413	1.413	0.00%	Pass

Group # 3
Group Name Redox (ORP)
Stated Accy Pct of Reading
Range Acc % 0.0000
Reading Acc % 3.0000
Plus/Minus 0.00

Nom In Val / In Val	In Type	Out Val	Out Type	Fnd As	Lft As	Dev%	Pass/Fail
240.00 / 240.00	mv	240.00	mv	240.00	240.00	0.00%	Pass

Group # 4
Group Name Disolved Oxygen Span
Stated Accy Pct of Reading
Range Acc % 0.0000
Reading Acc % 3.0000
Plus/Minus 0.00

Nom In Val / In Val	In Type	Out Val	Out Type	Fnd As	Lft As	Dev%	Pass/Fail
100.00 / 100.00	%	100.00	%	99.50	99.50	-0.50%	Pass

INSTRUMENT CALIBRATION REPORT

Pine Environmental Services, Inc.
3902 Corporex Park Drive, Suite 450
Tampa, FL 33619
Toll-free: (877) 259-PINE (7463)

Pine Environmental Services, Inc.

Instrument ID 17085
Description YSI 556
Calibrated 4/4/2012

Test Instruments Used During the Calibration

Test Standard ID	Description	Manufacturer	Model Number	Serial Number / Lot Number	(As Of Cal Entry Date) Last Cal Date/ Opened Date	Next Cal Date / Expiration Date
FL COND 1.413 9084	FL COND 1.413	Aurical	SL30005-5G	9084		7/12/2012
FL ORP 240 MV 2459	FL ORP 240 mV	Hanna	SL50005-500	2459		6/30/2015
FL PH 10 2101326	FL pH 10	VWR	SL10010-5G	2105396		11/30/2012
FL PH 4 2007412	FL pH 4	VWR	SL10004-5G	2007412		7/30/2012
FL PH 7 1009524	FL pH 7	VWR	SL10007-5G	1009524		8/21/2012

Notes about this calibration

Calibration Result Calibration Successful
Who Calibrated Jacob Cleaveland

All instruments are calibrated by Pine Environmental Services, Inc. according to the manufacturer's specifications, but it is the customer's responsibility to calibrate and maintain this unit in accordance with the manufacturer's specifications and/or the customer's own specific needs.

Notify Pine Environmental Services, Inc. of any defect within 24 hours of receipt of equipment
Please call 866-960-7463 for Technical Assistance

INSTRUMENT CALIBRATION REPORT

Pine Environmental Services, Inc.
3902 Corporex Park Drive, Suite 450
Tampa, FL 33619
Toll-free: (877) 259-PINE (7463)

Pine Environmental Services, Inc.

Instrument ID 6802
Description LaMotte 2020E
Calibrated 4/6/2012

Manufacturer LaMotte
Model Number 2020E
Serial Number/ Lot Number ME-10741
Location Florida
Department

State Certified
Status Pass
Temp °C 24
Humidity % 48

Calibration Specifications

Group # 1
Group Name Turbidity
Stated Accy Pct of Reading

Range Acc % 0.0000
Reading Acc % 3.0000
Plus/Minus 0.00

Nom In Val / In Val	In Type	Out Val	Out Type	Fnd As	Lft As	Dev%	Pass/Fail
1.00 / 1.00	NTU	1.00	NTU	0.98	0.98	-2.00%	Pass
10.00 / 10.00	NTU	10.00	NTU	9.97	9.97	-0.30%	Pass

Test Instruments Used During the Calibration

(As Of Cal Entry Date)

Test Standard ID	Description	Manufacturer	Model Number	Serial Number / Lot Number	Last Cal Date/ Opened Date	Next Cal Date / Expiration Date
FL LAMOTTE 2020E 0.0 C145960	FL Lamotte 2020e 0.0	Ricca		C145960		7/31/2012
FL LAMOTTE 2020E 1.0 1108052	FL Lamotte 2020e 1.0	Ricca		1108052		7/31/2012
FL LAMOTTE 2020E 10 1108051	FL Lamotte 2020e 10	Ricca		1108051		7/31/2012

Notes about this calibration

Calibration Result Calibration Successful
Who Calibrated Jacob Cleaveland

INSTRUMENT CALIBRATION REPORT

Pine Environmental Services, Inc.
3902 Corporex Park Drive, Suite 450
Tampa, FL 33619
Toll-free: (877) 259-PINE (7463)

Pine Environmental Services, Inc.

Instrument ID 6802
Description LaMotte 2020E
Calibrated 4/6/2012

All instruments are calibrated by Pine Environmental Services, Inc. according to the manufacturer's specifications, but it is the customer's responsibility to calibrate and maintain this unit in accordance with the manufacturer's specifications and/or the customer's own specific needs.

Notify Pine Environmental Services, Inc. of any defect within 24 hours of receipt of equipment
Please call 866-960-7463 for Technical Assistance

Florida Department of Environmental Protection - Division of Waste Management - Bureau of Petroleum Storage Systems

BORING LOG

Page 1 of _____

Boring/Well Number: PCY-0098-SS1	Permit Number:	FDEP Facility Identification Number:
Site Name: NSA Panama City	Borehole Start Date: 4/12/12 End Date: 4/12/12	Borehole Start Time: 0750 ☑ AM ☐ PM End Time: 0800 ☑ AM ☐ PM
Environmental Contractor: SACAL	Geologist's Name: Ed Glinski	Environmental Technician's Name: Jamyck Gonima
Drilling Company: Custom Drilling	Pavement Thickness (inches): 5.0"	Borehole Diameter (inches): 3.0"
Borehole Depth (feet): 7.0'		
Drilling Method(s): Hand Auger	Apparent Borehole DTW (in feet from soil moisture content): 6'	Measured Well DTW (in feet after water recharges in well):
OVA (list model and check type): Microtid ☑ FID ☐ PID		

Disposition of Drill Cuttings [check method(s)]: ☐ Drum ☑ Spread ☑ Backfill ☐ Stockpile ☐ Other

(describe if other or multiple items are checked):

Borehole Completion (check one): ☐ Well ☐ Grout ☐ Bentonite ☑ Backfill ☐ Other (describe)

Sample Type	Sample Depth Interval (feet)	Sample Recovery (inches)	SPT Blows (per six inches)	Unfiltered OVA	Filtered OVA	Net OVA	Depth (feet)	Sample Description (include grain size based on USCS, odors, staining, and other remarks)	USCS Symbol	Moisture Content	Lab Soil and Groundwater Samples (list sample number and depth or temporary screen interval)
HA	0-1	–	–	<1	–	<1	1	Sand; fine grain; white, dry		D	
HA	1-2	–	–	<1	–	<1	2	SAA; white w. orange.		D	
HA	2-3	–	–	<1	–	<1	3	SAA; moist, orange.		M	Collected sample PCY-0098-4-6-SB-SS1 @ 0958.
HA	3-4	–	–	<1	–	<1	4	SAA;		M	
HA	4-5	–	–	<1	–	<1	5	SAA		M	
HA	5-6	–	–	<1	–	<1	6	SAA; white; wet		W	
HA	6-7	–	–	<1	–	<1	7	SAA; brown; wet, unique smell not petroleum like.		W	
							8	E.O.B @ 7.0'			
							9				
							10	SEE MAP OF SITE ON BACK			
							11				
							12				

Sample Type Codes: **PH** = Post Hole; **HA** = Hand Auger; **SS** = Split Spoon; **ST** = Shelby Tube; **DP** = Direct Push; **SC** = Sonic Core; **DC** = Drill Cuttings

Moisture Content Codes: **D** = Dry; **M** = Moist; **W** = Wet; **S** = Saturated

Florida Department of Environmental Protection - Division of Waste Management - Bureau of Petroleum Storage Systems

BORING LOG

Boring/Well Number: PCY-0098-SS2	Permit Number:	FDEP Facility Identification Number:
Site Name: NSA Panama City	Borehole Start Date: 4/12/12 End Date: 4/12/12	Borehole Start Time: 0802 ☑ AM ☐ PM End Time: 0813 ☑ AM ☐ PM
Environmental Contractor: SACAL	Geologist's Name: Ed Glinski	Environmental Technician's Name: Jannyck Gonima
Drilling Company: Custom Drilling	Pavement Thickness (inches): 5.0"	Borehole Diameter (inches): 3.0"
Borehole Depth (feet): 6.0'		
Drilling Method(s): Hand Auger	Apparent Borehole DTW (in feet from soil moisture content): 6'	Measured Well DTW (in feet after water recharges in well):
OVA (list model and check type): Microtol ☑ FID ☐ PID		

Disposition of Drill Cuttings [check method(s)]: ☐ Drum ☑ Spread ☑ Backfill ☐ Stockpile ☐ Other

(describe if other or multiple items are checked):

Borehole Completion (check one): ☐ Well ☐ Grout ☐ Bentonite ☑ Backfill ☐ Other (describe)

Sample Type	Sample Depth Interval (feet)	Sample Recovery (inches)	SPT Blows (per six inches)	Unfiltered OVA	Filtered OVA	Net OVA	Depth (feet)	Sample Description (include grain size based on USCS, odors, staining, and other remarks)	USCS Symbol	Moisture Content	Lab Soil and Groundwater Samples (list sample number and depth or temporary screen interval)
HA	0-1	–	–	<1	–	<1	1	Sand; fine grown; grayish-brown; dry.		D	
HA	1-2	–	–	<1	–	<1	2	SAA; orange.		D	
HA	2-3	–	–	<1	–	<1	3	SAA; orange-white; moist.		M	Collected sample PCY-0098-4-6-SB-SS2 @ 1000
HA	3-4	–	–	<1	–	<1	4	SAA; white.		M	
HA	4-5	–	–	<1	–	<1	5	SAA		M	
HA	5-6	–	–	<1	–	<1	6	SAA; brown; wet		W	
							7	E.O.B. @ 6.0'			
							8				
							9				
							10				
							11				
							12				

Sample Type Codes: **PH** = Post Hole; **HA** = Hand Auger; **SS** = Split Spoon; **ST** = Shelby Tube; **DP** = Direct Push; **SC** = Sonic Core; **DC** = Drill Cuttings

Moisture Content Codes: **D** = Dry; **M** = Moist; **W** = Wet; **S** = Saturated

Florida Department of Environmental Protection - Division of Waste Management - Bureau of Petroleum Storage Systems

BORING LOG

Page 1 of _____

Boring/Well Number: PCY-0098-SS3	Permit Number:	FDEP Facility Identification Number:
Site Name: NSA Panama City	Borehole Start Date: 4/12/12 End Date: 4/12/12	Borehole Start Time: 0815 ☑ AM ☐ PM End Time: 0826 ☑ AM ☐ PM
Environmental Contractor: SACAL	Geologist's Name: Ed Glinski	Environmental Technician's Name: Tammy de Gonima
Drilling Company: Custom Drilling	Pavement Thickness (inches): 5.0"	Borehole Diameter (inches): 3.0" / Borehole Depth (feet): 6'
Drilling Method(s): Hand Auger	Apparent Borehole DTW (in feet from soil moisture content): 6'	Measured Well DTW (in feet after water recharges in well): / OVA (list model and check type): Microtid ☑ FID ☐ PID

Disposition of Drill Cuttings [check method(s)]: ☐ Drum ☒ Spread ☑ Backfill ☐ Stockpile ☐ Other

(describe if other or multiple items are checked):

Borehole Completion (check one): ☐ Well ☐ Grout ☐ Bentonite ☑ Backfill ☐ Other (describe)

Sample Type	Sample Depth Interval (feet)	Sample Recovery (inches)	SPT Blows (per six inches)	Unfiltered OVA	Filtered OVA	Net OVA	Depth (feet)	Sample Description (include grain size based on USCS, odors, staining, and other remarks)	USCS Symbol	Moisture Content	Lab Soil and Groundwater Samples (list sample number and depth or temporary screen interval)
HA	0-1	-	-	<1	-	<1	1	Sand; Fine grain; orange; moist		M	
HA	1-2	-	-	<1	-	<1	2	SAA.		M	
HA	2-3	-	-	<1	-	<1	3	SAA; brown.		M	Collected sample PCY-0098-4-6-SB-SS3 @ 1007
HA	3-4	-	-	<1	-	<1	4	SAA; brow w. orange.		M	
HA	4-5	-	-	<1	-	<1	5	SAA		M	
HA	5-6	-	-	<1	-	<1	6	SAA; brown; wet.		W	
							7	E.O.B @ 6.0"			
							8				
							9				
							10				
							11				
							12				

Sample Type Codes: **PH** = Post Hole; **HA** = Hand Auger; **SS** = Split Spoon; **ST** = Shelby Tube; **DP** = Direct Push; **SC** = Sonic Core; **DC** = Drill Cuttings

Moisture Content Codes: **D** = Dry; **M** = Moist; **W** = Wet; **S** = Saturated

Florida Department of Environmental Protection - Division of Waste Management - Bureau of Petroleum Storage Systems

BORING LOG

Page 1 of _____

Boring/Well Number: PCY-0098-SS4	Permit Number:	FDEP Facility Identification Number:
Site Name: NSA Panama City	Borehole Start Date: 4/12/12 End Date: 4/12/12	Borehole Start Time: 0828 ☑ AM ☐ PM End Time: 0840 ☑ AM ☐ PM
Environmental Contractor: SACAL	Geologist's Name: Ed Glinski	Environmental Technician's Name: Jannyck Gonna
Drilling Company: Custom Drilling	Pavement Thickness (inches): 5.0"	Borehole Diameter (inches): 3.0" / Borehole Depth (feet): 6'
Drilling Method(s): Hand Auger	Apparent Borehole DTW (in feet from soil moisture content): 6'	Measured Well DTW (in feet after water recharges in well): / OVA (list model and check type): Microtid ☑ FID ☐ PID

Disposition of Drill Cuttings [check method(s)]: ☐ Drum ☑ Spread ☑ Backfill ☐ Stockpile ☐ Other

(describe if other or multiple items are checked):

Borehole Completion (check one): ☐ Well ☐ Grout ☐ Bentonite ☑ Backfill ☐ Other (describe)

Sample Type	Sample Depth Interval (feet)	Sample Recovery (inches)	SPT Blows (per six inches)	Unfiltered OVA	Filtered OVA	Net OVA	Depth (feet)	Sample Description (include grain size based on USCS, odors, staining, and other remarks)	USCS Symbol	Moisture Content	Lab Soil and Groundwater Samples (list sample number and depth or temporary screen interval)
HA	0-1	-	-	<1	-	<1	1	Sand; fine grain, reddish; dry		D	Collected sample PCY-0098-4-6-SB-SS4 @ 1020 ~~Collect~~ ~~GS-4~~ ~~at 5~~
HA	1-2	-	-	<1	-	<1	2	SAA; orange.		D	
HA	2-3	-	-	<1	-	<1	3	SAA; orange-white, moist.		M	
HA	3-4	-	-	<1	-	<1	4	SAA.		M	
HA	4-5	-	-	<1	-	<1	5	SAA; grayish-white.		M	
HA	5-6	-	-	<1	-	<1	6	SAA; brown; wet, petroleum smell		W	
							7	E.O.B @ 6.0'			
							8				
							9				
							10				
							11				
							12				

Sample Type Codes: **PH** = Post Hole; **HA** = Hand Auger; **SS** = Split Spoon; **ST** = Shelby Tube; **DP** = Direct Push; **SC** = Sonic Core; **DC** = Drill Cuttings

Moisture Content Codes: **D** = Dry; **M** = Moist; **W** = Wet; **S** = Saturated

Florida Department of Environmental Protection - Division of Waste Management - Bureau of Petroleum Storage Systems

BORING LOG

Page 1 of _____

Boring/Well Number: PCY-0098-SS5	Permit Number:	FDEP Facility Identification Number:
Site Name: NSA Panama City	Borehole Start Date: 4/12/12 End Date: 4/12/12	Borehole Start Time: 0842 ☑ AM ☐ PM End Time: 0853 ☑ AM ☐ PM
Environmental Contractor: SACAL.	Geologist's Name: Ed Glinski	Environmental Technician's Name: Jannyck Goning
Drilling Company: Custom Drilling	Pavement Thickness (inches): 10.0"	Borehole Diameter (inches): 3.0" / Borehole Depth (feet): 6'
Drilling Method(s): Hand Auger	Apparent Borehole DTW (in feet from soil moisture content): 6'	Measured Well DTW (in feet after water recharges in well): / OVA (list model and check type): Microtid ☑ FID ☐ PID

Disposition of Drill Cuttings [check method(s)]: ☐ Drum ☒ Spread ☑ Backfill ☐ Stockpile ☐ Other

(describe if other or multiple items are checked):

Borehole Completion (check one): ☐ Well ☐ Grout ☐ Bentonite ☑ Backfill ☐ Other (describe)

Sample Type	Sample Depth Interval (feet)	Sample Recovery (inches)	SPT Blows (per six inches)	Unfiltered OVA	Filtered OVA	Net OVA	Depth (feet)	Sample Description (include grain size based on USCS, odors, staining, and other remarks)	USCS Symbol	Moisture Content	Lab Soil and Groundwater Samples (list sample number and depth or temporary screen interval)
HA	0-1	–	–	<1	–	<1	1	Sand; fine grain; grayish-orange; moist		M	Collected sample PCY-0098-4-6-SB-SS @ 1032 ~~PCY-0098~~
HA	1-2	–	–	<1	–	<1	2	SAA; organic smell		M	
HA	2-3	–	–	<1	–	<1	3	SAA; orange, organic smell		M	
HA	3-4	–	–	<1	–	<1	4	SAA; whitish-orange		M	~~Collect SS5 @ 5'~~
HA	4-5	–	–	<1	–	<1	5	SAA; white		M	
HA	5-6	–	–	<1	–	<1	6	SAA; wet		W	
							7	E.O.B @ 6.0'			
							8				
							9				
							10				
							11				
							12				

Sample Type Codes: **PH** = Post Hole; **HA** = Hand Auger; **SS** = Split Spoon; **ST** = Shelby Tube; **DP** = Direct Push; **SC** = Sonic Core; **DC** = Drill Cuttings

Moisture Content Codes: **D** = Dry; **M** = Moist; **W** = Wet; **S** = Saturated

ATTACHMENT 2

LABORATORY ANALYTICAL DATA

Advanced Environmental Laboratories, Inc
6601 Southpoint Parkway
Jacksonville, FL 32216
Phone: (904)363-9350
Fax: (904)363-9354

April 19, 2012

Esau Tuberville
Sacal Environmental & Management Co.
2153 Vineville Ave.
Macon, GA 31208

RE: Workorder: J1203124 NSA Panama City

Dear Esau Tuberville:

Enclosed are the analytical results for sample(s) received by the laboratory on Friday, April 13, 2012. Results reported herein conform to the most current NELAC standards, where applicable, unless otherwise narrated in the body of the report. The analytical results for the samples contained in this report were submitted for analysis as outlined by the Chain of Custody and results pertain only to these samples.

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

Sincerely,

Paul Gunsaulies
pgunsaulies@aellab.com

Enclosures

CERTIFICATE OF ANALYSIS

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Advanced Environmental Laboratories, Inc
6601 Southpoint Parkway
Jacksonville, FL 32216
Phone: (904)363-9350
Fax: (904)363-9354

SAMPLE SUMMARY

Workorder: J1203124 NSA Panama City

Lab ID	Sample ID	Matrix	Date Collected	Date Received
J1203124001	PCY-AOC2-4-6-SB814	Soil	4/11/2012 08:59	4/13/2012 10:00
J1203124002	PCY-AOC2-4-6-SB816	Soil	4/11/2012 10:10	4/13/2012 10:00
J1203124003	PCY-AOC2-4-6-SB-SB22	Soil	4/11/2012 10:59	4/13/2012 10:00
J1203124004	PCY-AOC2-2-4-SB-SB22	Soil	4/11/2012 11:10	4/13/2012 10:00
J1203124005	PCY-AOC2-4-6-SB-002	Soil	4/11/2012 12:05	4/13/2012 10:00
J1203124006	PCY-AOC2-4-6-SB-809	Soil	4/11/2012 14:23	4/13/2012 10:00
J1203124007	PCY-AOC2-4-6-SB-SB04	Soil	4/11/2012 14:45	4/13/2012 10:00
J1203124008	PCY-AOC2-4-6-SB-811	Soil	4/11/2012 16:30	4/13/2012 10:00
J1203124009	PCY-AOC2-4-6-SB-SB11	Soil	4/11/2012 16:45	4/13/2012 10:00
J1203124010	PCY-AOC2-4-6-SB-SB33	Soil	4/11/2012 16:58	4/13/2012 10:00
J1203124011	PCY-0098-4-6-SB-SS1	Soil	4/12/2012 09:58	4/13/2012 10:00
J1203124012	PCY-0098-4-6-SB-SS2	Soil	4/12/2012 10:00	4/13/2012 10:00
J1203124013	PCY-0098-4-6-SB-SS3	Soil	4/12/2012 10:07	4/13/2012 10:00
J1203124014	PCY-0098-4-6-SB-SS4	Soil	4/12/2012 10:20	4/13/2012 10:00
J1203124015	PCY-0098-4-6-SB-SS5	Soil	4/12/2012 10:32	4/13/2012 10:00

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Advanced Environmental Laboratories, Inc
6601 Southpoint Parkway
Jacksonville, FL 32216
Phone: (904)363-9350
Fax: (904)363-9354

ANALYTICAL RESULTS

Workorder: J1203124 NSA Panama City

Lab ID: **J1203124001** Date Received: 04/13/12 10:00 Matrix: Soil

Sample ID: **PCY-AOC2-4-6-SB814** Date Collected: 04/11/12 08:59

Results for sample J1203124001 are reported on a dry weight basis.

Sample Description: Location:

Parameters	Results	Units	Qual	DF	Adjusted PQL	Adjusted MDL	Analyzed	Lab
SEMIVOLATILES								
Analysis Desc: Flo-Pro Analysis, Soil	Preparation Method: FL-PRO Analytical Method: FL-PRO							
TPH	**4.5**	**mg/Kg**	**U**	**1**	38	4.5	4/16/2012 16:25	J
o-Terphenyl (S)	**88**	**%**		**1**	62-109		4/16/2012 16:25	
Nonatricontane-C39 (S)	**86**	**%**		**1**	60-118		4/16/2012 16:25	
Analysis Desc: 8270C-SIM Analysis, Soil	Preparation Method: SW-846 3550B Analytical Method: SW-846 8270C (SIM)							
1-Methylnaphthalene	**6.3**	**ug/Kg**	**U**	**1**	9.0	6.3	4/17/2012 17:20	J
2-Methylnaphthalene	**6.3**	**ug/Kg**	**U**	**1**	9.0	6.3	4/17/2012 17:20	J
Acenaphthene	**6.5**	**ug/Kg**	**U**	**1**	9.0	6.5	4/17/2012 17:20	J
Acenaphthylene	**6.1**	**ug/Kg**	**U**	**1**	9.0	6.1	4/17/2012 17:20	J
Anthracene	**6.1**	**ug/Kg**	**U**	**1**	9.0	6.1	4/17/2012 17:20	J
Benzo[a]anthracene	**7.0**	**ug/Kg**	**U**	**1**	9.0	7.0	4/17/2012 17:20	J
Benzo[a]pyrene	**4.7**	**ug/Kg**	**U**	**1**	9.0	4.7	4/17/2012 17:20	J
Benzo[b]fluoranthene	**4.8**	**ug/Kg**	**U**	**1**	9.0	4.8	4/17/2012 17:20	J
Benzo[g,h,i]perylene	**6.0**	**ug/Kg**	**U**	**1**	9.0	6.0	4/17/2012 17:20	J
Benzo[k]fluoranthene	**7.5**	**ug/Kg**	**U**	**1**	9.0	7.5	4/17/2012 17:20	J
Chrysene	**7.7**	**ug/Kg**	**U**	**1**	9.0	7.7	4/17/2012 17:20	J
Dibenzo[a,h]anthracene	**4.5**	**ug/Kg**	**U**	**1**	9.0	4.5	4/17/2012 17:20	J
Fluoranthene	**6.3**	**ug/Kg**	**U**	**1**	9.0	6.3	4/17/2012 17:20	J
Fluorene	**6.2**	**ug/Kg**	**U**	**1**	9.0	6.2	4/17/2012 17:20	J
Indeno(1,2,3-cd)pyrene	**4.2**	**ug/Kg**	**U**	**1**	9.0	4.2	4/17/2012 17:20	J
Naphthalene	**5.4**	**ug/Kg**	**U**	**1**	9.0	5.4	4/17/2012 17:20	J
Phenanthrene	**6.5**	**ug/Kg**	**U**	**1**	9.0	6.5	4/17/2012 17:20	J
Pyrene	**7.6**	**ug/Kg**	**U**	**1**	9.0	7.6	4/17/2012 17:20	J
Decafluorobiphenyl (S)	**120**	**%**		**1**	44.8-137		4/17/2012 17:20	
VOLATILES								
Analysis Desc: 8260C Analysis, Soil	Preparation Method: SW-846 5035 Analytical Method: SW-846 8260B							
Benzene	**1.3**	**ug/Kg**	**U**	**1**	3.3	1.3	4/16/2012 16:44	J
Ethylbenzene	**1.2**	**ug/Kg**	**U**	**1**	3.3	1.2	4/16/2012 16:44	J
Methyl tert-butyl Ether (MTBE)	**1.2**	**ug/Kg**	**U**	**1**	3.3	1.2	4/16/2012 16:44	J
Toluene	**1.5**	**ug/Kg**	**U**	**1**	3.3	1.5	4/16/2012 16:44	J
Xylene (Total)	**4.2**	**ug/Kg**	**U**	**1**	9.8	4.2	4/16/2012 16:44	J
1,2-Dichloroethane-d4 (S)	**102**	**%**		**1**	80-120		4/16/2012 16:44	

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Advanced Environmental Laboratories, Inc
6601 Southpoint Parkway
Jacksonville, FL 32216
Phone: (904)363-9350
Fax: (904)363-9354

ANALYTICAL RESULTS

Workorder: J1203124 NSA Panama City

Lab ID: **J1203124001** Date Received: 04/13/12 10:00 Matrix: Soil
Sample ID: **PCY-AOC2-4-6-SB814** Date Collected: 04/11/12 08:59
Results for sample J1203124001 are reported on a dry weight basis.
Sample Description: Location:

Parameters	Results	Units	Qual	DF	Adjusted PQL	Adjusted MDL	Analyzed	Lab
Toluene-d8 (S)	**100**	**%**		**1**	81-117		4/16/2012 16:44	
Bromofluorobenzene (S)	**104**	**%**		**1**	74-121		4/16/2012 16:44	

Lab ID: **J1203124002** Date Received: 04/13/12 10:00 Matrix: Soil
Sample ID: **PCY-AOC2-4-6-SB816** Date Collected: 04/11/12 10:10
Results for sample J1203124002 are reported on a dry weight basis.
Sample Description: Location:

Parameters	Results	Units	Qual	DF	Adjusted PQL	Adjusted MDL	Analyzed	Lab
SEMIVOLATILES								
Analysis Desc: Flo-Pro Analysis, Soil	Preparation Method: FL-PRO Analytical Method: FL-PRO							
TPH	**130**	**mg/Kg**		**1**	47	5.5	4/16/2012 16:55	J
o-Terphenyl (S)	**102**	**%**		**1**	62-109		4/16/2012 16:55	
Nonatricontane-C39 (S)	**101**	**%**		**1**	60-118		4/16/2012 16:55	
Analysis Desc: 8270C-SIM Analysis, Soil	Preparation Method: SW-846 3550B Analytical Method: SW-846 8270C (SIM)							
1-Methylnaphthalene	**7.9**	**ug/Kg**	**U**	**1**	11	7.9	4/17/2012 17:52	J
2-Methylnaphthalene	**7.8**	**ug/Kg**	**U**	**1**	11	7.8	4/17/2012 17:52	J
Acenaphthene	**13**	**ug/Kg**		**1**	11	8.0	4/17/2012 17:52	J
Acenaphthylene	**330**	**ug/Kg**		**1**	11	7.6	4/17/2012 17:52	J
Anthracene	**620**	**ug/Kg**		**1**	11	7.6	4/17/2012 17:52	J
Benzo[a]anthracene	**2800**	**ug/Kg**		**1**	11	8.7	4/17/2012 17:52	J
Benzo[a]pyrene	**2600**	**ug/Kg**		**1**	11	5.8	4/17/2012 17:52	J
Benzo[b]fluoranthene	**3500**	**ug/Kg**		**1**	11	6.0	4/17/2012 17:52	J
Benzo[g,h,i]perylene	**1900**	**ug/Kg**		**1**	11	7.5	4/17/2012 17:52	J
Benzo[k]fluoranthene	**1200**	**ug/Kg**		**1**	11	9.3	4/17/2012 17:52	J
Chrysene	**1900**	**ug/Kg**		**1**	11	9.6	4/17/2012 17:52	J
Dibenzo[a,h]anthracene	**370**	**ug/Kg**		**1**	11	5.7	4/17/2012 17:52	J
Fluoranthene	**5900**	**ug/Kg**		**1**	11	7.9	4/17/2012 17:52	J
Fluorene	**32**	**ug/Kg**		**1**	11	7.7	4/17/2012 17:52	J
Indeno(1,2,3-cd)pyrene	**1700**	**ug/Kg**		**1**	11	5.2	4/17/2012 17:52	J
Naphthalene	**10**	**ug/Kg**	**I**	**1**	11	6.7	4/17/2012 17:52	J
Phenanthrene	**610**	**ug/Kg**		**1**	11	8.1	4/17/2012 17:52	J
Pyrene	**4400**	**ug/Kg**		**1**	11	9.4	4/17/2012 17:52	J

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ANALYTICAL RESULTS

Workorder: J1203124 NSA Panama City

Lab ID: **J1203124002** Date Received: 04/13/12 10:00 Matrix: Soil
Sample ID: **PCY-AOC2-4-6-SB816** Date Collected: 04/11/12 10:10
Results for sample J1203124002 are reported on a dry weight basis.
Sample Description: Location:

Parameters	Results	Units	Qual	DF	Adjusted PQL	Adjusted MDL	Analyzed	Lab
Decafluorobiphenyl (S)	**120**	**%**		**1**	44.8-137		4/17/2012 17:52	
VOLATILES								
Analysis Desc: 8260C Analysis, Soil	Preparation Method: SW-846 5035 Analytical Method: SW-846 8260B							
Benzene	**1.7**	**ug/Kg**	**U**	**1**	4.2	1.7	4/16/2012 17:29	J
Ethylbenzene	**1.5**	**ug/Kg**	**U**	**1**	4.2	1.5	4/16/2012 17:29	J
Methyl tert-butyl Ether (MTBE)	**1.6**	**ug/Kg**	**U**	**1**	4.2	1.6	4/16/2012 17:29	J
Toluene	**1.9**	**ug/Kg**	**U**	**1**	4.2	1.9	4/16/2012 17:29	J
Xylene (Total)	**5.3**	**ug/Kg**	**U**	**1**	13	5.3	4/16/2012 17:29	J
1,2-Dichloroethane-d4 (S)	**108**	**%**		**1**	80-120		4/16/2012 17:29	
Toluene-d8 (S)	**118**	**%**	**J4**	**1**	81-117		4/16/2012 17:29	
Bromofluorobenzene (S)	**141**	**%**	**J4**	**1**	74-121		4/16/2012 17:29	

Lab ID: **J1203124003** Date Received: 04/13/12 10:00 Matrix: Soil
Sample ID: **PCY-AOC2-4-6-SB-SB22** Date Collected: 04/11/12 10:59
Results for sample J1203124003 are reported on a dry weight basis.
Sample Description: Location:

Parameters	Results	Units	Qual	DF	Adjusted PQL	Adjusted MDL	Analyzed	Lab
SEMIVOLATILES								
Analysis Desc: Flo-Pro Analysis, Soil	Preparation Method: FL-PRO Analytical Method: FL-PRO							
TPH	**710**	**mg/Kg**		**10**	380	45	4/17/2012 11:40	J
o-Terphenyl (S)	**65**	**%**		**10**	62-109		4/17/2012 11:40	
Nonatricontane-C39 (S)	**78**	**%**		**10**	60-118		4/17/2012 11:40	
Analysis Desc: 8270C-SIM Analysis, Soil	Preparation Method: SW-846 3550B Analytical Method: SW-846 8270C (SIM)							
1-Methylnaphthalene	**6.4**	**ug/Kg**	**U**	**1**	9.0	6.4	4/17/2012 18:23	J
2-Methylnaphthalene	**6.3**	**ug/Kg**	**U**	**1**	9.0	6.3	4/17/2012 18:23	J
Acenaphthene	**8.7**	**ug/Kg**	**I**	**1**	9.0	6.5	4/17/2012 18:23	J
Acenaphthylene	**6.1**	**ug/Kg**	**U**	**1**	9.0	6.1	4/17/2012 18:23	J
Anthracene	**9.1**	**ug/Kg**		**1**	9.0	6.1	4/17/2012 18:23	J
Benzo[a]anthracene	**7.3**	**ug/Kg**	**I**	**1**	9.0	7.0	4/17/2012 18:23	J
Benzo[a]pyrene	**4.7**	**ug/Kg**	**U**	**1**	9.0	4.7	4/17/2012 18:23	J

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ANALYTICAL RESULTS

Workorder: J1203124 NSA Panama City

Lab ID: **J1203124003** Date Received: 04/13/12 10:00 Matrix: Soil

Sample ID: **PCY-AOC2-4-6-SB-SB22** Date Collected: 04/11/12 10:59

Results for sample J1203124003 are reported on a dry weight basis.

Sample Description: Location:

Parameters	Results	Units	Qual	DF	Adjusted PQL	Adjusted MDL	Analyzed	Lab
Benzo[b]fluoranthene	**4.8**	**ug/Kg**	**U**	**1**	9.0	4.8	4/17/2012 18:23	J
Benzo[g,h,i]perylene	**110**	**ug/Kg**		**1**	9.0	6.1	4/17/2012 18:23	J
Benzo[k]fluoranthene	**7.5**	**ug/Kg**	**U**	**1**	9.0	7.5	4/17/2012 18:23	J
Chrysene	**7.7**	**ug/Kg**	**U**	**1**	9.0	7.7	4/17/2012 18:23	J
Dibenzo[a,h]anthracene	**5.0**	**ug/Kg**	**I**	**1**	9.0	4.6	4/17/2012 18:23	J
Fluoranthene	**6.3**	**ug/Kg**	**U**	**1**	9.0	6.3	4/17/2012 18:23	J
Fluorene	**9.6**	**ug/Kg**		**1**	9.0	6.2	4/17/2012 18:23	J
Indeno(1,2,3-cd)pyrene	**80**	**ug/Kg**		**1**	9.0	4.2	4/17/2012 18:23	J
Naphthalene	**5.4**	**ug/Kg**	**U**	**1**	9.0	5.4	4/17/2012 18:23	J
Phenanthrene	**6.6**	**ug/Kg**	**U**	**1**	9.0	6.6	4/17/2012 18:23	J
Pyrene	**7.6**	**ug/Kg**	**U**	**1**	9.0	7.6	4/17/2012 18:23	J
Decafluorobiphenyl (S)	**102**	**%**		**1**	44.8-137		4/17/2012 18:23	

VOLATILES

Analysis Desc: 8260C Analysis, Soil — Preparation Method: SW-846 5035

Analytical Method: SW-846 8260B

Benzene	**1.7**	**ug/Kg**	**U**	**1**	4.2	1.7	4/16/2012 18:14	J
Ethylbenzene	**1.5**	**ug/Kg**	**U**	**1**	4.2	1.5	4/16/2012 18:14	J
Methyl tert-butyl Ether (MTBE)	**1.6**	**ug/Kg**	**U**	**1**	4.2	1.6	4/16/2012 18:14	J
Toluene	**1.9**	**ug/Kg**	**U**	**1**	4.2	1.9	4/16/2012 18:14	J
Xylene (Total)	**5.3**	**ug/Kg**	**U**	**1**	13	5.3	4/16/2012 18:14	J
1,2-Dichloroethane-d4 (S)	**103**	**%**		**1**	80-120		4/16/2012 18:14	
Toluene-d8 (S)	**104**	**%**		**1**	81-117		4/16/2012 18:14	
Bromofluorobenzene (S)	**127**	**%**	**J4**	**1**	74-121		4/16/2012 18:14	

Lab ID: **J1203124004** Date Received: 04/13/12 10:00 Matrix: Soil

Sample ID: **PCY-AOC2-2-4-SB-SB22** Date Collected: 04/11/12 11:10

Results for sample J1203124004 are reported on a dry weight basis.

Sample Description: Location:

Parameters	Results	Units	Qual	DF	Adjusted PQL	Adjusted MDL	Analyzed	Lab
SEMIVOLATILES								
Analysis Desc: Flo-Pro Analysis, Soil — Preparation Method: FL-PRO								
Analytical Method: FL-PRO								
TPH	**6.0**	**mg/Kg**	**I**	**1**	35	4.1	4/16/2012 17:56	J
o-Terphenyl (S)	**89**	**%**		**1**	62-109		4/16/2012 17:56	

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ANALYTICAL RESULTS

Workorder: J1203124 NSA Panama City

Lab ID: **J1203124004** Date Received: 04/13/12 10:00 Matrix: Soil

Sample ID: **PCY-AOC2-2-4-SB-SB22** Date Collected: 04/11/12 11:10

Results for sample J1203124004 are reported on a dry weight basis.

Sample Description: Location:

Parameters	Results	Units	Qual	DF	Adjusted PQL	Adjusted MDL	Analyzed	Lab
Nonatricontane-C39 (S)	**87**	**%**		**1**	60-118		4/16/2012 17:56	
Analysis Desc: 8270C-SIM Analysis, Soil	Preparation Method: SW-846 3550B Analytical Method: SW-846 8270C (SIM)							
1-Methylnaphthalene	**5.8**	**ug/Kg**	**U**	**1**	8.2	5.8	4/17/2012 18:55	J
2-Methylnaphthalene	**5.8**	**ug/Kg**	**U**	**1**	8.2	5.8	4/17/2012 18:55	J
Acenaphthene	**5.9**	**ug/Kg**	**U**	**1**	8.2	5.9	4/17/2012 18:55	J
Acenaphthylene	**5.6**	**ug/Kg**	**U**	**1**	8.2	5.6	4/17/2012 18:55	J
Anthracene	**5.6**	**ug/Kg**	**U**	**1**	8.2	5.6	4/17/2012 18:55	J
Benzo[a]anthracene	**6.4**	**ug/Kg**	**U**	**1**	8.2	6.4	4/17/2012 18:55	J
Benzo[a]pyrene	**4.3**	**ug/Kg**	**U**	**1**	8.2	4.3	4/17/2012 18:55	J
Benzo[b]fluoranthene	**4.4**	**ug/Kg**	**U**	**1**	8.2	4.4	4/17/2012 18:55	J
Benzo[g,h,i]perylene	**5.5**	**ug/Kg**	**U**	**1**	8.2	5.5	4/17/2012 18:55	J
Benzo[k]fluoranthene	**6.9**	**ug/Kg**	**U**	**1**	8.2	6.9	4/17/2012 18:55	J
Chrysene	**7.1**	**ug/Kg**	**U**	**1**	8.2	7.1	4/17/2012 18:55	J
Dibenzo[a,h]anthracene	**4.2**	**ug/Kg**	**U**	**1**	8.2	4.2	4/17/2012 18:55	J
Fluoranthene	**5.8**	**ug/Kg**	**U**	**1**	8.2	5.8	4/17/2012 18:55	J
Fluorene	**5.7**	**ug/Kg**	**U**	**1**	8.2	5.7	4/17/2012 18:55	J
Indeno(1,2,3-cd)pyrene	**3.9**	**ug/Kg**	**U**	**1**	8.2	3.9	4/17/2012 18:55	J
Naphthalene	**5.0**	**ug/Kg**	**U**	**1**	8.2	5.0	4/17/2012 18:55	J
Phenanthrene	**6.0**	**ug/Kg**	**U**	**1**	8.2	6.0	4/17/2012 18:55	J
Pyrene	**7.0**	**ug/Kg**	**U**	**1**	8.2	7.0	4/17/2012 18:55	J
Decafluorobiphenyl (S)	**121**	**%**		**1**	44.8-137		4/17/2012 18:55	
VOLATILES								
Analysis Desc: 8260C Analysis, Soil	Preparation Method: SW-846 5035 Analytical Method: SW-846 8260B							
Benzene	**1.6**	**ug/Kg**	**U**	**1**	4.0	1.6	4/16/2012 18:59	J
Ethylbenzene	**1.4**	**ug/Kg**	**U**	**1**	4.0	1.4	4/16/2012 18:59	J
Methyl tert-butyl Ether (MTBE)	**1.5**	**ug/Kg**	**U**	**1**	4.0	1.5	4/16/2012 18:59	J
Toluene	**1.8**	**ug/Kg**	**U**	**1**	4.0	1.8	4/16/2012 18:59	J
Xylene (Total)	**5.0**	**ug/Kg**	**U**	**1**	12	5.0	4/16/2012 18:59	J
1,2-Dichloroethane-d4 (S)	**101**	**%**		**1**	80-120		4/16/2012 18:59	
Toluene-d8 (S)	**100**	**%**		**1**	81-117		4/16/2012 18:59	
Bromofluorobenzene (S)	**110**	**%**		**1**	74-121		4/16/2012 18:59	

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ANALYTICAL RESULTS

Workorder: J1203124 NSA Panama City

Lab ID: **J1203124005** Date Received: 04/13/12 10:00 Matrix: Soil

Sample ID: **PCY-AOC2-4-6-SB-002** Date Collected: 04/11/12 12:05

Results for sample J1203124005 are reported on a dry weight basis.

Sample Description: Location:

Parameters	Results	Units	Qual	DF	Adjusted PQL	Adjusted MDL	Analyzed	Lab
SEMIVOLATILES								
Analysis Desc: Flo-Pro Analysis, Soil	Preparation Method: FL-PRO Analytical Method: FL-PRO							
TPH	**1400**	**mg/Kg**		**20**	730	85	4/17/2012 12:11	J
o-Terphenyl (S)	**0**	**%**	**1**	**20**	62-109		4/17/2012 12:11	
Nonatricontane-C39 (S)	**0**	**%**	**2**	**20**	60-118		4/17/2012 12:11	
Analysis Desc: 8270C-SIM Analysis, Soil	Preparation Method: SW-846 3550B Analytical Method: SW-846 8270C (SIM)							
1-Methylnaphthalene	**6.0**	**ug/Kg**	**U**	**1**	8.5	6.0	4/17/2012 19:26	J
2-Methylnaphthalene	**6.0**	**ug/Kg**	**U**	**1**	8.5	6.0	4/17/2012 19:26	J
Acenaphthene	**9.4**	**ug/Kg**		**1**	8.5	6.1	4/17/2012 19:26	J
Acenaphthylene	**5.8**	**ug/Kg**	**U**	**1**	8.5	5.8	4/17/2012 19:26	J
Anthracene	**22**	**ug/Kg**		**1**	8.5	5.8	4/17/2012 19:26	J
Benzo[a]anthracene	**6.7**	**ug/Kg**	**U**	**1**	8.5	6.7	4/17/2012 19:26	J
Benzo[a]pyrene	**4.5**	**ug/Kg**	**U**	**1**	8.5	4.5	4/17/2012 19:26	J
Benzo[b]fluoranthene	**4.6**	**ug/Kg**	**U**	**1**	8.5	4.6	4/17/2012 19:26	J
Benzo[g,h,i]perylene	**5.7**	**ug/Kg**	**U**	**1**	8.5	5.7	4/17/2012 19:26	J
Benzo[k]fluoranthene	**7.1**	**ug/Kg**	**U**	**1**	8.5	7.1	4/17/2012 19:26	J
Chrysene	**8.5**	**ug/Kg**		**1**	8.5	7.3	4/17/2012 19:26	J
Dibenzo[a,h]anthracene	**4.3**	**ug/Kg**	**U**	**1**	8.5	4.3	4/17/2012 19:26	J
Fluoranthene	**6.0**	**ug/Kg**	**U**	**1**	8.5	6.0	4/17/2012 19:26	J
Fluorene	**26**	**ug/Kg**		**1**	8.5	5.9	4/17/2012 19:26	J
Indeno(1,2,3-cd)pyrene	**4.0**	**ug/Kg**	**U**	**1**	8.5	4.0	4/17/2012 19:26	J
Naphthalene	**5.1**	**ug/Kg**	**U**	**1**	8.5	5.1	4/17/2012 19:26	J
Phenanthrene	**8.5**	**ug/Kg**	**I**	**1**	8.5	6.2	4/17/2012 19:26	J
Pyrene	**10**	**ug/Kg**		**1**	8.5	7.2	4/17/2012 19:26	J
Decafluorobiphenyl (S)	**117**	**%**		**1**	44.8-137		4/17/2012 19:26	
VOLATILES								
Analysis Desc: 8260C Analysis, Soil	Preparation Method: SW-846 5035 Analytical Method: SW-846 8260B							
Benzene	**3.3**	**ug/Kg**	**U**	**1**	8.0	3.3	4/17/2012 09:17	J
Ethylbenzene	**2.9**	**ug/Kg**	**U**	**1**	8.0	2.9	4/17/2012 09:17	J
Methyl tert-butyl Ether (MTBE)	**3.0**	**ug/Kg**	**U**	**1**	8.0	3.0	4/17/2012 09:17	J
Toluene	**3.7**	**ug/Kg**	**U**	**1**	8.0	3.7	4/17/2012 09:17	J
Xylene (Total)	**10**	**ug/Kg**	**U**	**1**	24	10	4/17/2012 09:17	J
1,2-Dichloroethane-d4 (S)	**100**	**%**		**1**	80-120		4/17/2012 09:17	

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ANALYTICAL RESULTS

Workorder: J1203124 NSA Panama City

Lab ID: **J1203124005** Date Received: 04/13/12 10:00 Matrix: Soil
Sample ID: **PCY-AOC2-4-6-SB-002** Date Collected: 04/11/12 12:05
Results for sample J1203124005 are reported on a dry weight basis.
Sample Description: Location:

Parameters	Results	Units	Qual	DF	Adjusted PQL	Adjusted MDL	Analyzed	Lab
Toluene-d8 (S)	**103**	**%**		**1**	81-117		4/17/2012 09:17	
Bromofluorobenzene (S)	**116**	**%**		**1**	74-121		4/17/2012 09:17	

Lab ID: **J1203124006** Date Received: 04/13/12 10:00 Matrix: Soil
Sample ID: **PCY-AOC2-4-6-SB-809** Date Collected: 04/11/12 14:23
Results for sample J1203124006 are reported on a dry weight basis.
Sample Description: Location:

Parameters	Results	Units	Qual	DF	Adjusted PQL	Adjusted MDL	Analyzed	Lab
SEMIVOLATILES								
Analysis Desc: Flo-Pro Analysis, Soil	Preparation Method: FL-PRO Analytical Method: FL-PRO							
TPH	**4.2**	**mg/Kg**	**U**	**1**	36	4.2	4/16/2012 18:58	J
o-Terphenyl (S)	**104**	**%**		**1**	62-109		4/16/2012 18:58	
Nonatricontane-C39 (S)	**97**	**%**		**1**	60-118		4/16/2012 18:58	
Analysis Desc: 8270C-SIM Analysis, Soil	Preparation Method: SW-846 3550B Analytical Method: SW-846 8270C (SIM)							
1-Methylnaphthalene	**6.0**	**ug/Kg**	**U**	**1**	8.4	6.0	4/17/2012 19:58	J
2-Methylnaphthalene	**5.9**	**ug/Kg**	**U**	**1**	8.4	5.9	4/17/2012 19:58	J
Acenaphthene	**20**	**ug/Kg**		**1**	8.4	6.1	4/17/2012 19:58	J
Acenaphthylene	**5.8**	**ug/Kg**	**U**	**1**	8.4	5.8	4/17/2012 19:58	J
Anthracene	**26**	**ug/Kg**		**1**	8.4	5.8	4/17/2012 19:58	J
Benzo[a]anthracene	**91**	**ug/Kg**		**1**	8.4	6.6	4/17/2012 19:58	J
Benzo[a]pyrene	**88**	**ug/Kg**		**1**	8.4	4.4	4/17/2012 19:58	J
Benzo[b]fluoranthene	**140**	**ug/Kg**		**1**	8.4	4.5	4/17/2012 19:58	J
Benzo[g,h,i]perylene	**80**	**ug/Kg**		**1**	8.4	5.7	4/17/2012 19:58	J
Benzo[k]fluoranthene	**46**	**ug/Kg**		**1**	8.4	7.1	4/17/2012 19:58	J
Chrysene	**82**	**ug/Kg**		**1**	8.4	7.2	4/17/2012 19:58	J
Dibenzo[a,h]anthracene	**16**	**ug/Kg**		**1**	8.4	4.3	4/17/2012 19:58	J
Fluoranthene	**190**	**ug/Kg**		**1**	8.4	6.0	4/17/2012 19:58	J
Fluorene	**10**	**ug/Kg**		**1**	8.4	5.9	4/17/2012 19:58	J
Indeno(1,2,3-cd)pyrene	**66**	**ug/Kg**		**1**	8.4	4.0	4/17/2012 19:58	J
Naphthalene	**13**	**ug/Kg**		**1**	8.4	5.1	4/17/2012 19:58	J
Phenanthrene	**110**	**ug/Kg**		**1**	8.4	6.2	4/17/2012 19:58	J
Pyrene	**130**	**ug/Kg**		**1**	8.4	7.1	4/17/2012 19:58	J

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ANALYTICAL RESULTS

Workorder: J1203124 NSA Panama City

Lab ID: **J1203124006** Date Received: 04/13/12 10:00 Matrix: Soil
Sample ID: **PCY-AOC2-4-6-SB-809** Date Collected: 04/11/12 14:23
Results for sample J1203124006 are reported on a dry weight basis.
Sample Description: Location:

Parameters	Results	Units	Qual	DF	Adjusted PQL	Adjusted MDL	Analyzed	Lab
Decafluorobiphenyl (S)	**113**	**%**		**1**	44.8-137		4/17/2012 19:58	
VOLATILES								
Analysis Desc: 8260C Analysis, Soil	Preparation Method: SW-846 5035 Analytical Method: SW-846 8260B							
Benzene	**1.7**	**ug/Kg**	**U**	**1**	4.3	1.7	4/16/2012 20:29	J
Ethylbenzene	**1.6**	**ug/Kg**	**U**	**1**	4.3	1.6	4/16/2012 20:29	J
Methyl tert-butyl Ether (MTBE)	**1.6**	**ug/Kg**	**U**	**1**	4.3	1.6	4/16/2012 20:29	J
Toluene	**2.0**	**ug/Kg**	**U**	**1**	4.3	2.0	4/16/2012 20:29	J
Xylene (Total)	**5.4**	**ug/Kg**	**U**	**1**	13	5.4	4/16/2012 20:29	J
1,2-Dichloroethane-d4 (S)	**101**	**%**		**1**	80-120		4/16/2012 20:29	
Toluene-d8 (S)	**100**	**%**		**1**	81-117		4/16/2012 20:29	
Bromofluorobenzene (S)	**110**	**%**		**1**	74-121		4/16/2012 20:29	

Lab ID: **J1203124007** Date Received: 04/13/12 10:00 Matrix: Soil
Sample ID: **PCY-AOC2-4-6-SB-SB04** Date Collected: 04/11/12 14:45
Results for sample J1203124007 are reported on a dry weight basis.
Sample Description: Location:

Parameters	Results	Units	Qual	DF	Adjusted PQL	Adjusted MDL	Analyzed	Lab
SEMIVOLATILES								
Analysis Desc: Flo-Pro Analysis, Soil	Preparation Method: FL-PRO Analytical Method: FL-PRO							
TPH	**200**	**mg/Kg**		**1**	35	4.1	4/16/2012 19:29	J
o-Terphenyl (S)	**85**	**%**		**1**	62-109		4/16/2012 19:29	
Nonatricontane-C39 (S)	**90**	**%**		**1**	60-118		4/16/2012 19:29	
Analysis Desc: 8270C-SIM Analysis, Soil	Preparation Method: SW-846 3550B Analytical Method: SW-846 8270C (SIM)							
1-Methylnaphthalene	**5.8**	**ug/Kg**	**U**	**1**	8.2	5.8	4/17/2012 20:29	J
2-Methylnaphthalene	**5.8**	**ug/Kg**	**U**	**1**	8.2	5.8	4/17/2012 20:29	J
Acenaphthene	**5.9**	**ug/Kg**	**U**	**1**	8.2	5.9	4/17/2012 20:29	J
Acenaphthylene	**5.6**	**ug/Kg**	**U**	**1**	8.2	5.6	4/17/2012 20:29	J
Anthracene	**5.6**	**ug/Kg**	**U**	**1**	8.2	5.6	4/17/2012 20:29	J
Benzo[a]anthracene	**6.4**	**ug/Kg**	**U**	**1**	8.2	6.4	4/17/2012 20:29	J
Benzo[a]pyrene	**4.3**	**ug/Kg**	**U**	**1**	8.2	4.3	4/17/2012 20:29	J

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ANALYTICAL RESULTS

Workorder: J1203124 NSA Panama City

Lab ID: **J1203124007** Date Received: 04/13/12 10:00 Matrix: Soil

Sample ID: **PCY-AOC2-4-6-SB-SB04** Date Collected: 04/11/12 14:45

Results for sample J1203124007 are reported on a dry weight basis.

Sample Description: Location:

Parameters	Results	Units	Qual	DF	Adjusted PQL	Adjusted MDL	Analyzed	Lab
Benzo[b]fluoranthene	**4.6**	**ug/Kg**	**I**	**1**	8.2	4.4	4/17/2012 20:29	J
Benzo[g,h,i]perylene	**5.5**	**ug/Kg**	**U**	**1**	8.2	5.5	4/17/2012 20:29	J
Benzo[k]fluoranthene	**6.9**	**ug/Kg**	**U**	**1**	8.2	6.9	4/17/2012 20:29	J
Chrysene	**7.0**	**ug/Kg**	**U**	**1**	8.2	7.0	4/17/2012 20:29	J
Dibenzo[a,h]anthracene	**4.2**	**ug/Kg**	**U**	**1**	8.2	4.2	4/17/2012 20:29	J
Fluoranthene	**5.9**	**ug/Kg**	**I**	**1**	8.2	5.8	4/17/2012 20:29	J
Fluorene	**5.7**	**ug/Kg**	**U**	**1**	8.2	5.7	4/17/2012 20:29	J
Indeno(1,2,3-cd)pyrene	**3.8**	**ug/Kg**	**U**	**1**	8.2	3.8	4/17/2012 20:29	J
Naphthalene	**4.9**	**ug/Kg**	**U**	**1**	8.2	4.9	4/17/2012 20:29	J
Phenanthrene	**6.0**	**ug/Kg**	**U**	**1**	8.2	6.0	4/17/2012 20:29	J
Pyrene	**6.9**	**ug/Kg**	**U**	**1**	8.2	6.9	4/17/2012 20:29	J
Decafluorobiphenyl (S)	**110**	**%**		**1**	44.8-137		4/17/2012 20:29	

VOLATILES

Analysis Desc: 8260C Analysis, Soil — Preparation Method: SW-846 5035

Analytical Method: SW-846 8260B

Benzene	**1.8**	**ug/Kg**	**U**	**1**	4.5	1.8	4/16/2012 21:14	J
Ethylbenzene	**1.6**	**ug/Kg**	**U**	**1**	4.5	1.6	4/16/2012 21:14	J
Methyl tert-butyl Ether (MTBE)	**1.7**	**ug/Kg**	**U**	**1**	4.5	1.7	4/16/2012 21:14	J
Toluene	**2.1**	**ug/Kg**	**U**	**1**	4.5	2.1	4/16/2012 21:14	J
Xylene (Total)	**5.7**	**ug/Kg**	**U**	**1**	14	5.7	4/16/2012 21:14	J
1,2-Dichloroethane-d4 (S)	**102**	**%**		**1**	80-120		4/16/2012 21:14	
Toluene-d8 (S)	**103**	**%**		**1**	81-117		4/16/2012 21:14	
Bromofluorobenzene (S)	**109**	**%**		**1**	74-121		4/16/2012 21:14	

Lab ID: **J1203124008** Date Received: 04/13/12 10:00 Matrix: Soil

Sample ID: **PCY-AOC2-4-6-SB-811** Date Collected: 04/11/12 16:30

Results for sample J1203124008 are reported on a dry weight basis.

Sample Description: Location:

Parameters	Results	Units	Qual	DF	Adjusted PQL	Adjusted MDL	Analyzed	Lab
SEMIVOLATILES								
Analysis Desc: Flo-Pro Analysis, Soil — Preparation Method: FL-PRO								
Analytical Method: FL-PRO								
TPH	**13000**	**mg/Kg**		**50**	1900	220	4/17/2012 12:43	J
o-Terphenyl (S)	**0**	**%**	**1**	**50**	62-109		4/17/2012 12:43	

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ANALYTICAL RESULTS

Workorder: J1203124 NSA Panama City

Lab ID: **J1203124008** Date Received: 04/13/12 10:00 Matrix: Soil

Sample ID: **PCY-AOC2-4-6-SB-811** Date Collected: 04/11/12 16:30

Results for sample J1203124008 are reported on a dry weight basis.

Sample Description: Location:

Parameters	Results	Units	Qual	DF	Adjusted PQL	Adjusted MDL	Analyzed	Lab
Nonatricontane-C39 (S)	**0**	**%**	**1**	**50**	60-118		4/17/2012 12:43	
Analysis Desc: 8270C-SIM Analysis, Soil	Preparation Method: SW-846 3550B Analytical Method: SW-846 8270C (SIM)							
1-Methylnaphthalene	**1700**	**ug/Kg**		**10**	88	62	4/18/2012 11:30	J
2-Methylnaphthalene	**67**	**ug/Kg**	**I**	**10**	88	62	4/18/2012 11:30	J
Acenaphthene	**100**	**ug/Kg**		**10**	88	63	4/18/2012 11:30	J
Acenaphthylene	**69**	**ug/Kg**	**I**	**10**	88	60	4/18/2012 11:30	J
Anthracene	**140**	**ug/Kg**		**10**	88	60	4/18/2012 11:30	J
Benzo[a]anthracene	**15**	**ug/Kg**		**1**	8.8	6.8	4/17/2012 21:01	J
Benzo[a]pyrene	**5.7**	**ug/Kg**	**I**	**1**	8.8	4.6	4/17/2012 21:01	J
Benzo[b]fluoranthene	**19**	**ug/Kg**		**1**	8.8	4.7	4/17/2012 21:01	J
Benzo[g,h,i]perylene	**14**	**ug/Kg**		**1**	8.8	5.9	4/17/2012 21:01	J
Benzo[k]fluoranthene	**7.3**	**ug/Kg**	**U**	**1**	8.8	7.3	4/17/2012 21:01	J
Chrysene	**75**	**ug/Kg**		**1**	8.8	7.5	4/17/2012 21:01	J
Dibenzo[a,h]anthracene	**4.5**	**ug/Kg**	**U**	**1**	8.8	4.5	4/17/2012 21:01	J
Fluoranthene	**62**	**ug/Kg**	**U**	**10**	88	62	4/18/2012 11:30	J
Fluorene	**820**	**ug/Kg**		**10**	88	61	4/18/2012 11:30	J
Indeno(1,2,3-cd)pyrene	**11**	**ug/Kg**		**1**	8.8	4.1	4/17/2012 21:01	J
Naphthalene	**370**	**ug/Kg**		**10**	88	53	4/18/2012 11:30	J
Phenanthrene	**910**	**ug/Kg**		**10**	88	64	4/18/2012 11:30	J
Pyrene	**140**	**ug/Kg**		**1**	8.8	7.4	4/17/2012 21:01	J
Decafluorobiphenyl (S)	**72**	**%**		**1**	44.8-137		4/17/2012 21:01	
VOLATILES								
Analysis Desc: 8260C Analysis, Soil	Preparation Method: SW-846 5035 Analytical Method: SW-846 8260B							
Benzene	**67**	**ug/Kg**	**U**	**50**	170	67	4/16/2012 21:59	J
Ethylbenzene	**60**	**ug/Kg**	**U**	**50**	170	60	4/16/2012 21:59	J
Methyl tert-butyl Ether (MTBE)	**62**	**ug/Kg**	**U**	**50**	170	62	4/16/2012 21:59	J
Toluene	**76**	**ug/Kg**	**U**	**50**	170	76	4/16/2012 21:59	J
Xylene (Total)	**210**	**ug/Kg**	**U**	**50**	500	210	4/16/2012 21:59	J
1,2-Dichloroethane-d4 (S)	**100**	**%**		**50**	80-120		4/16/2012 21:59	
Toluene-d8 (S)	**107**	**%**		**50**	81-117		4/16/2012 21:59	
Bromofluorobenzene (S)	**108**	**%**		**50**	74-121		4/16/2012 21:59	

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ANALYTICAL RESULTS

Workorder: J1203124 NSA Panama City

Lab ID: **J1203124009** Date Received: 04/13/12 10:00 Matrix: Soil

Sample ID: **PCY-AOC2-4-6-SB-SB11** Date Collected: 04/11/12 16:45

Results for sample J1203124009 are reported on a dry weight basis.

Sample Description: Location:

Parameters	Results	Units	Qual	DF	Adjusted PQL	Adjusted MDL	Analyzed	Lab
SEMIVOLATILES								
Analysis Desc: Flo-Pro Analysis, Soil	Preparation Method: FL-PRO Analytical Method: FL-PRO							
TPH	**13**	**mg/Kg**	**I**	**1**	43	5.0	4/16/2012 20:32	J
o-Terphenyl (S)	**91**	**%**		**1**	62-109		4/16/2012 20:32	
Nonatricontane-C39 (S)	**83**	**%**		**1**	60-118		4/16/2012 20:32	
Analysis Desc: 8270C-SIM Analysis, Soil	Preparation Method: SW-846 3550B Analytical Method: SW-846 8270C (SIM)							
1-Methylnaphthalene	**7.1**	**ug/Kg**	**U**	**1**	10	7.1	4/17/2012 21:32	J
2-Methylnaphthalene	**7.1**	**ug/Kg**	**U**	**1**	10	7.1	4/17/2012 21:32	J
Acenaphthene	**7.2**	**ug/Kg**	**U**	**1**	10	7.2	4/17/2012 21:32	J
Acenaphthylene	**6.9**	**ug/Kg**	**U**	**1**	10	6.9	4/17/2012 21:32	J
Anthracene	**6.9**	**ug/Kg**	**U**	**1**	10	6.9	4/17/2012 21:32	J
Benzo[a]anthracene	**7.9**	**ug/Kg**	**U**	**1**	10	7.9	4/17/2012 21:32	J
Benzo[a]pyrene	**5.3**	**ug/Kg**	**U**	**1**	10	5.3	4/17/2012 21:32	J
Benzo[b]fluoranthene	**8.2**	**ug/Kg**	**I**	**1**	10	5.4	4/17/2012 21:32	J
Benzo[g,h,i]perylene	**6.8**	**ug/Kg**	**U**	**1**	10	6.8	4/17/2012 21:32	J
Benzo[k]fluoranthene	**8.4**	**ug/Kg**	**U**	**1**	10	8.4	4/17/2012 21:32	J
Chrysene	**8.6**	**ug/Kg**	**U**	**1**	10	8.6	4/17/2012 21:32	J
Dibenzo[a,h]anthracene	**5.1**	**ug/Kg**	**U**	**1**	10	5.1	4/17/2012 21:32	J
Fluoranthene	**7.4**	**ug/Kg**	**I**	**1**	10	7.1	4/17/2012 21:32	J
Fluorene	**7.0**	**ug/Kg**	**U**	**1**	10	7.0	4/17/2012 21:32	J
Indeno(1,2,3-cd)pyrene	**4.7**	**ug/Kg**	**U**	**1**	10	4.7	4/17/2012 21:32	J
Naphthalene	**6.1**	**ug/Kg**	**U**	**1**	10	6.1	4/17/2012 21:32	J
Phenanthrene	**7.3**	**ug/Kg**	**U**	**1**	10	7.3	4/17/2012 21:32	J
Pyrene	**8.5**	**ug/Kg**	**U**	**1**	10	8.5	4/17/2012 21:32	J
Decafluorobiphenyl (S)	**99**	**%**		**1**	44.8-137		4/17/2012 21:32	
VOLATILES								
Analysis Desc: 8260C Analysis, Soil	Preparation Method: SW-846 5035 Analytical Method: SW-846 8260B							
Benzene	**1.5**	**ug/Kg**	**U**	**1**	3.6	1.5	4/16/2012 22:44	J
Ethylbenzene	**1.3**	**ug/Kg**	**U**	**1**	3.6	1.3	4/16/2012 22:44	J
Methyl tert-butyl Ether (MTBE)	**1.4**	**ug/Kg**	**U**	**1**	3.6	1.4	4/16/2012 22:44	J
Toluene	**1.7**	**ug/Kg**	**U**	**1**	3.6	1.7	4/16/2012 22:44	J
Xylene (Total)	**4.6**	**ug/Kg**	**U**	**1**	11	4.6	4/16/2012 22:44	J
1,2-Dichloroethane-d4 (S)	**102**	**%**		**1**	80-120		4/16/2012 22:44	

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ANALYTICAL RESULTS

Workorder: J1203124 NSA Panama City

Lab ID: **J1203124009** Date Received: 04/13/12 10:00 Matrix: Soil
Sample ID: **PCY-AOC2-4-6-SB-SB11** Date Collected: 04/11/12 16:45
Results for sample J1203124009 are reported on a dry weight basis.
Sample Description: Location:

Parameters	Results	Units	Qual	DF	Adjusted PQL	Adjusted MDL	Analyzed	Lab
Toluene-d8 (S)	**100**	**%**		**1**	81-117		4/16/2012 22:44	
Bromofluorobenzene (S)	**118**	**%**		**1**	74-121		4/16/2012 22:44	

Lab ID: **J1203124010** Date Received: 04/13/12 10:00 Matrix: Soil
Sample ID: **PCY-AOC2-4-6-SB-SB33** Date Collected: 04/11/12 16:58
Results for sample J1203124010 are reported on a dry weight basis.
Sample Description: Location:

Parameters	Results	Units	Qual	DF	Adjusted PQL	Adjusted MDL	Analyzed	Lab
SEMIVOLATILES								
Analysis Desc: Flo-Pro Analysis, Soil	Preparation Method: FL-PRO Analytical Method: FL-PRO							
TPH	**4.7**	**mg/Kg**	**U**	**1**	40	4.7	4/16/2012 21:35	J
o-Terphenyl (S)	**92**	**%**		**1**	62-109		4/16/2012 21:35	
Nonatricontane-C39 (S)	**85**	**%**		**1**	60-118		4/16/2012 21:35	
Analysis Desc: 8270C-SIM Analysis, Soil	Preparation Method: SW-846 3550B Analytical Method: SW-846 8270C (SIM)							
1-Methylnaphthalene	**6.7**	**ug/Kg**	**U**	**1**	9.5	6.7	4/17/2012 22:04	J
2-Methylnaphthalene	**6.7**	**ug/Kg**	**U**	**1**	9.5	6.7	4/17/2012 22:04	J
Acenaphthene	**6.9**	**ug/Kg**	**U**	**1**	9.5	6.9	4/17/2012 22:04	J
Acenaphthylene	**6.5**	**ug/Kg**	**U**	**1**	9.5	6.5	4/17/2012 22:04	J
Anthracene	**6.5**	**ug/Kg**	**U**	**1**	9.5	6.5	4/17/2012 22:04	J
Benzo[a]anthracene	**7.4**	**ug/Kg**	**U**	**1**	9.5	7.4	4/17/2012 22:04	J
Benzo[a]pyrene	**5.0**	**ug/Kg**	**U**	**1**	9.5	5.0	4/17/2012 22:04	J
Benzo[b]fluoranthene	**5.1**	**ug/Kg**	**U**	**1**	9.5	5.1	4/17/2012 22:04	J
Benzo[g,h,i]perylene	**6.4**	**ug/Kg**	**U**	**1**	9.5	6.4	4/17/2012 22:04	J
Benzo[k]fluoranthene	**8.0**	**ug/Kg**	**U**	**1**	9.5	8.0	4/17/2012 22:04	J
Chrysene	**8.2**	**ug/Kg**	**U**	**1**	9.5	8.2	4/17/2012 22:04	J
Dibenzo[a,h]anthracene	**4.8**	**ug/Kg**	**U**	**1**	9.5	4.8	4/17/2012 22:04	J
Fluoranthene	**6.7**	**ug/Kg**	**U**	**1**	9.5	6.7	4/17/2012 22:04	J
Fluorene	**6.6**	**ug/Kg**	**U**	**1**	9.5	6.6	4/17/2012 22:04	J
Indeno(1,2,3-cd)pyrene	**4.5**	**ug/Kg**	**U**	**1**	9.5	4.5	4/17/2012 22:04	J
Naphthalene	**5.7**	**ug/Kg**	**U**	**1**	9.5	5.7	4/17/2012 22:04	J
Phenanthrene	**7.0**	**ug/Kg**	**U**	**1**	9.5	7.0	4/17/2012 22:04	J
Pyrene	**8.1**	**ug/Kg**	**U**	**1**	9.5	8.1	4/17/2012 22:04	J

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ANALYTICAL RESULTS

Workorder: J1203124 NSA Panama City

Lab ID: **J1203124010** Date Received: 04/13/12 10:00 Matrix: Soil
Sample ID: **PCY-AOC2-4-6-SB-SB33** Date Collected: 04/11/12 16:58
Results for sample J1203124010 are reported on a dry weight basis.
Sample Description: Location:

Parameters	Results	Units	Qual	DF	Adjusted PQL	Adjusted MDL	Analyzed	Lab
Decafluorobiphenyl (S)	**107**	**%**		**1**	44.8-137		4/17/2012 22:04	
VOLATILES								
Analysis Desc: 8260C Analysis, Soil	Preparation Method: SW-846 5035 Analytical Method: SW-846 8260B							
Benzene	**1.2**	**ug/Kg**	**U**	**1**	3.1	1.2	4/17/2012 01:45	J
Ethylbenzene	**1.1**	**ug/Kg**	**U**	**1**	3.1	1.1	4/17/2012 01:45	J
Methyl tert-butyl Ether (MTBE)	**1.2**	**ug/Kg**	**U**	**1**	3.1	1.2	4/17/2012 01:45	J
Toluene	**1.4**	**ug/Kg**	**U**	**1**	3.1	1.4	4/17/2012 01:45	J
Xylene (Total)	**3.9**	**ug/Kg**	**U**	**1**	9.2	3.9	4/17/2012 01:45	J
1,2-Dichloroethane-d4 (S)	**102**	**%**		**1**	80-120		4/17/2012 01:45	
Toluene-d8 (S)	**103**	**%**		**1**	81-117		4/17/2012 01:45	
Bromofluorobenzene (S)	**105**	**%**		**1**	74-121		4/17/2012 01:45	

Lab ID: **J1203124011** Date Received: 04/13/12 10:00 Matrix: Soil
Sample ID: **PCY-0098-4-6-SB-SS1** Date Collected: 04/12/12 09:58
Results for sample J1203124011 are reported on a dry weight basis.
Sample Description: Location:

Parameters	Results	Units	Qual	DF	Adjusted PQL	Adjusted MDL	Analyzed	Lab
SEMIVOLATILES								
Analysis Desc: Flo-Pro Analysis, Soil	Preparation Method: FL-PRO Analytical Method: FL-PRO							
TPH	**4.0**	**mg/Kg**	**U**	**1**	34	4.0	4/16/2012 22:06	J
o-Terphenyl (S)	**88**	**%**		**1**	62-109		4/16/2012 22:06	
Nonatricontane-C39 (S)	**74**	**%**		**1**	60-118		4/16/2012 22:06	
Analysis Desc: 8270C-SIM Analysis, Soil	Preparation Method: SW-846 3550B Analytical Method: SW-846 8270C (SIM)							
1-Methylnaphthalene	**5.7**	**ug/Kg**	**U**	**1**	8.0	5.7	4/17/2012 22:35	J
2-Methylnaphthalene	**5.6**	**ug/Kg**	**U**	**1**	8.0	5.6	4/17/2012 22:35	J
Acenaphthene	**5.8**	**ug/Kg**	**U**	**1**	8.0	5.8	4/17/2012 22:35	J
Acenaphthylene	**5.5**	**ug/Kg**	**U**	**1**	8.0	5.5	4/17/2012 22:35	J
Anthracene	**5.5**	**ug/Kg**	**U**	**1**	8.0	5.5	4/17/2012 22:35	J
Benzo[a]anthracene	**6.3**	**ug/Kg**	**U**	**1**	8.0	6.3	4/17/2012 22:35	J
Benzo[a]pyrene	**4.2**	**ug/Kg**	**U**	**1**	8.0	4.2	4/17/2012 22:35	J

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ANALYTICAL RESULTS

Workorder: J1203124 NSA Panama City

Lab ID: **J1203124011** Date Received: 04/13/12 10:00 Matrix: Soil

Sample ID: **PCY-0098-4-6-SB-SS1** Date Collected: 04/12/12 09:58

Results for sample J1203124011 are reported on a dry weight basis.

Sample Description: Location:

Parameters	Results	Units	Qual	DF	Adjusted PQL	Adjusted MDL	Analyzed	Lab
Benzo[b]fluoranthene	**4.3**	**ug/Kg**	**U**	**1**	8.0	4.3	4/17/2012 22:35	J
Benzo[g,h,i]perylene	**5.4**	**ug/Kg**	**U**	**1**	8.0	5.4	4/17/2012 22:35	J
Benzo[k]fluoranthene	**6.7**	**ug/Kg**	**U**	**1**	8.0	6.7	4/17/2012 22:35	J
Chrysene	**6.9**	**ug/Kg**	**U**	**1**	8.0	6.9	4/17/2012 22:35	J
Dibenzo[a,h]anthracene	**4.1**	**ug/Kg**	**U**	**1**	8.0	4.1	4/17/2012 22:35	J
Fluoranthene	**5.7**	**ug/Kg**	**U**	**1**	8.0	5.7	4/17/2012 22:35	J
Fluorene	**5.6**	**ug/Kg**	**U**	**1**	8.0	5.6	4/17/2012 22:35	J
Indeno(1,2,3-cd)pyrene	**3.8**	**ug/Kg**	**U**	**1**	8.0	3.8	4/17/2012 22:35	J
Naphthalene	**4.8**	**ug/Kg**	**U**	**1**	8.0	4.8	4/17/2012 22:35	J
Phenanthrene	**5.9**	**ug/Kg**	**U**	**1**	8.0	5.9	4/17/2012 22:35	J
Pyrene	**6.8**	**ug/Kg**	**U**	**1**	8.0	6.8	4/17/2012 22:35	J
Decafluorobiphenyl (S)	**115**	**%**		**1**	44.8-137		4/17/2012 22:35	

VOLATILES

Analysis Desc: 8260C Analysis, Soil — Preparation Method: SW-846 5035

Analytical Method: SW-846 8260B

Benzene	**1.5**	**ug/Kg**	**U**	**1**	3.8	1.5	4/17/2012 02:30	J
Ethylbenzene	**1.4**	**ug/Kg**	**U**	**1**	3.8	1.4	4/17/2012 02:30	J
Methyl tert-butyl Ether (MTBE)	**1.4**	**ug/Kg**	**U**	**1**	3.8	1.4	4/17/2012 02:30	J
Toluene	**1.7**	**ug/Kg**	**U**	**1**	3.8	1.7	4/17/2012 02:30	J
Xylene (Total)	**4.8**	**ug/Kg**	**U**	**1**	11	4.8	4/17/2012 02:30	J
1,2-Dichloroethane-d4 (S)	**105**	**%**		**1**	80-120		4/17/2012 02:30	
Toluene-d8 (S)	**102**	**%**		**1**	81-117		4/17/2012 02:30	
Bromofluorobenzene (S)	**106**	**%**		**1**	74-121		4/17/2012 02:30	

Lab ID: **J1203124012** Date Received: 04/13/12 10:00 Matrix: Soil

Sample ID: **PCY-0098-4-6-SB-SS2** Date Collected: 04/12/12 10:00

Results for sample J1203124012 are reported on a dry weight basis.

Sample Description: Location:

Parameters	Results	Units	Qual	DF	Adjusted PQL	Adjusted MDL	Analyzed	Lab
SEMIVOLATILES								
Analysis Desc: Flo-Pro Analysis, Soil	Preparation Method: FL-PRO							
	Analytical Method: FL-PRO							
TPH	**30**	**mg/Kg**	**I**	**1**	34	4.0	4/16/2012 15:54	J
o-Terphenyl (S)	**87**	**%**		**1**	62-109		4/16/2012 15:54	

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ANALYTICAL RESULTS

Workorder: J1203124 NSA Panama City

Lab ID: **J1203124012** Date Received: 04/13/12 10:00 Matrix: Soil

Sample ID: **PCY-0098-4-6-SB-SS2** Date Collected: 04/12/12 10:00

Results for sample J1203124012 are reported on a dry weight basis.

Sample Description: Location:

Parameters	Results	Units	Qual	DF	Adjusted PQL	Adjusted MDL	Analyzed	Lab
Nonatricontane-C39 (S)	**84**	**%**		**1**	60-118		4/16/2012 15:54	
Analysis Desc: 8270C-SIM Analysis, Soil	Preparation Method: SW-846 3550B Analytical Method: SW-846 8270C (SIM)							
1-Methylnaphthalene	**5.7**	**ug/Kg**	**U**	**1**	8.1	5.7	4/17/2012 16:49	J
2-Methylnaphthalene	**5.7**	**ug/Kg**	**U**	**1**	8.1	5.7	4/17/2012 16:49	J
Acenaphthene	**5.8**	**ug/Kg**	**U**	**1**	8.1	5.8	4/17/2012 16:49	J
Acenaphthylene	**5.5**	**ug/Kg**	**U**	**1**	8.1	5.5	4/17/2012 16:49	J
Anthracene	**5.5**	**ug/Kg**	**U**	**1**	8.1	5.5	4/17/2012 16:49	J
Benzo[a]anthracene	**6.3**	**ug/Kg**	**U**	**1**	8.1	6.3	4/17/2012 16:49	J
Benzo[a]pyrene	**4.2**	**ug/Kg**	**U**	**1**	8.1	4.2	4/17/2012 16:49	J
Benzo[b]fluoranthene	**4.4**	**ug/Kg**	**U**	**1**	8.1	4.4	4/17/2012 16:49	J
Benzo[g,h,i]perylene	**5.4**	**ug/Kg**	**U**	**1**	8.1	5.4	4/17/2012 16:49	J
Benzo[k]fluoranthene	**6.8**	**ug/Kg**	**U**	**1**	8.1	6.8	4/17/2012 16:49	J
Chrysene	**6.9**	**ug/Kg**	**U**	**1**	8.1	6.9	4/17/2012 16:49	J
Dibenzo[a,h]anthracene	**4.1**	**ug/Kg**	**U**	**1**	8.1	4.1	4/17/2012 16:49	J
Fluoranthene	**5.7**	**ug/Kg**	**U**	**1**	8.1	5.7	4/17/2012 16:49	J
Fluorene	**5.6**	**ug/Kg**	**U**	**1**	8.1	5.6	4/17/2012 16:49	J
Indeno(1,2,3-cd)pyrene	**3.8**	**ug/Kg**	**U**	**1**	8.1	3.8	4/17/2012 16:49	J
Naphthalene	**4.9**	**ug/Kg**	**U**	**1**	8.1	4.9	4/17/2012 16:49	J
Phenanthrene	**5.9**	**ug/Kg**	**U**	**1**	8.1	5.9	4/17/2012 16:49	J
Pyrene	**6.8**	**ug/Kg**	**U**	**1**	8.1	6.8	4/17/2012 16:49	J
Decafluorobiphenyl (S)	**121**	**%**		**1**	44.8-137		4/17/2012 16:49	
VOLATILES								
Analysis Desc: 8260C Analysis, Soil	Preparation Method: SW-846 5035 Analytical Method: SW-846 8260B							
Benzene	**1.4**	**ug/Kg**	**U**	**1**	3.3	1.4	4/17/2012 03:15	J
Ethylbenzene	**1.2**	**ug/Kg**	**U**	**1**	3.3	1.2	4/17/2012 03:15	J
Methyl tert-butyl Ether (MTBE)	**1.3**	**ug/Kg**	**U**	**1**	3.3	1.3	4/17/2012 03:15	J
Toluene	**1.5**	**ug/Kg**	**U**	**1**	3.3	1.5	4/17/2012 03:15	J
Xylene (Total)	**4.2**	**ug/Kg**	**U**	**1**	10	4.2	4/17/2012 03:15	J
1,2-Dichloroethane-d4 (S)	**102**	**%**		**1**	80-120		4/17/2012 03:15	
Toluene-d8 (S)	**103**	**%**		**1**	81-117		4/17/2012 03:15	
Bromofluorobenzene (S)	**108**	**%**		**1**	74-121		4/17/2012 03:15	

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ANALYTICAL RESULTS

Workorder: J1203124 NSA Panama City

Lab ID: **J1203124013** Date Received: 04/13/12 10:00 Matrix: Soil

Sample ID: **PCY-0098-4-6-SB-SS3** Date Collected: 04/12/12 10:07

Results for sample J1203124013 are reported on a dry weight basis.

Sample Description: Location:

Parameters	Results	Units	Qual	DF	Adjusted PQL	Adjusted MDL	Analyzed	Lab
SEMIVOLATILES								
Analysis Desc: Flo-Pro Analysis, Soil	Preparation Method: FL-PRO Analytical Method: FL-PRO							
TPH	**45**	**mg/Kg**		**1**	36	4.2	4/16/2012 22:37	J
o-Terphenyl (S)	**100**	**%**		**1**	62-109		4/16/2012 22:37	
Nonatricontane-C39 (S)	**96**	**%**		**1**	60-118		4/16/2012 22:37	
Analysis Desc: 8270C-SIM Analysis, Soil	Preparation Method: SW-846 3550B Analytical Method: SW-846 8270C (SIM)							
1-Methylnaphthalene	**5.9**	**ug/Kg**	**U**	**1**	8.4	5.9	4/17/2012 23:07	J
2-Methylnaphthalene	**5.9**	**ug/Kg**	**U**	**1**	8.4	5.9	4/17/2012 23:07	J
Acenaphthene	**6.6**	**ug/Kg**	**I**	**1**	8.4	6.0	4/17/2012 23:07	J
Acenaphthylene	**80**	**ug/Kg**		**1**	8.4	5.7	4/17/2012 23:07	J
Anthracene	**58**	**ug/Kg**		**1**	8.4	5.7	4/17/2012 23:07	J
Benzo[a]anthracene	**260**	**ug/Kg**		**1**	8.4	6.5	4/17/2012 23:07	J
Benzo[a]pyrene	**290**	**ug/Kg**		**1**	8.4	4.4	4/17/2012 23:07	J
Benzo[b]fluoranthene	**400**	**ug/Kg**		**1**	8.4	4.5	4/17/2012 23:07	J
Benzo[g,h,i]perylene	**240**	**ug/Kg**		**1**	8.4	5.6	4/17/2012 23:07	J
Benzo[k]fluoranthene	**130**	**ug/Kg**		**1**	8.4	7.0	4/17/2012 23:07	J
Chrysene	**210**	**ug/Kg**		**1**	8.4	7.2	4/17/2012 23:07	J
Dibenzo[a,h]anthracene	**38**	**ug/Kg**		**1**	8.4	4.3	4/17/2012 23:07	J
Fluoranthene	**410**	**ug/Kg**		**1**	8.4	5.9	4/17/2012 23:07	J
Fluorene	**8.6**	**ug/Kg**		**1**	8.4	5.8	4/17/2012 23:07	J
Indeno(1,2,3-cd)pyrene	**220**	**ug/Kg**		**1**	8.4	3.9	4/17/2012 23:07	J
Naphthalene	**5.1**	**ug/Kg**	**U**	**1**	8.4	5.1	4/17/2012 23:07	J
Phenanthrene	**63**	**ug/Kg**		**1**	8.4	6.1	4/17/2012 23:07	J
Pyrene	**420**	**ug/Kg**		**1**	8.4	7.1	4/17/2012 23:07	J
Decafluorobiphenyl (S)	**112**	**%**		**1**	44.8-137		4/17/2012 23:07	
VOLATILES								
Analysis Desc: 8260C Analysis, Soil	Preparation Method: SW-846 5035 Analytical Method: SW-846 8260B							
Benzene	**1.1**	**ug/Kg**	**U**	**1**	2.7	1.1	4/17/2012 04:00	J
Ethylbenzene	**0.97**	**ug/Kg**	**U**	**1**	2.7	0.97	4/17/2012 04:00	J
Methyl tert-butyl Ether (MTBE)	**1.0**	**ug/Kg**	**U**	**1**	2.7	1.0	4/17/2012 04:00	J
Toluene	**1.2**	**ug/Kg**	**U**	**1**	2.7	1.2	4/17/2012 04:00	J
Xylene (Total)	**3.4**	**ug/Kg**	**U**	**1**	8.0	3.4	4/17/2012 04:00	J
1,2-Dichloroethane-d4 (S)	**105**	**%**		**1**	80-120		4/17/2012 04:00	

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ANALYTICAL RESULTS

Workorder: J1203124 NSA Panama City

Lab ID: **J1203124013** Date Received: 04/13/12 10:00 Matrix: Soil
Sample ID: **PCY-0098-4-6-SB-SS3** Date Collected: 04/12/12 10:07
Results for sample J1203124013 are reported on a dry weight basis.
Sample Description: Location:

Parameters	Results	Units	Qual	DF	Adjusted PQL	Adjusted MDL	Analyzed	Lab
Toluene-d8 (S)	**104**	**%**		**1**	81-117		4/17/2012 04:00	
Bromofluorobenzene (S)	**113**	**%**		**1**	74-121		4/17/2012 04:00	

Lab ID: **J1203124014** Date Received: 04/13/12 10:00 Matrix: Soil
Sample ID: **PCY-0098-4-6-SB-SS4** Date Collected: 04/12/12 10:20
Results for sample J1203124014 are reported on a dry weight basis.
Sample Description: Location:

Parameters	Results	Units	Qual	DF	Adjusted PQL	Adjusted MDL	Analyzed	Lab
SEMIVOLATILES								
Analysis Desc: Flo-Pro Analysis, Soil	Preparation Method: FL-PRO Analytical Method: FL-PRO							
TPH	**4.1**	**mg/Kg**	**U**	**1**	35	4.1	4/16/2012 23:07	J
o-Terphenyl (S)	**83**	**%**		**1**	62-109		4/16/2012 23:07	
Nonatricontane-C39 (S)	**76**	**%**		**1**	60-118		4/16/2012 23:07	
Analysis Desc: 8270C-SIM Analysis, Soil	Preparation Method: SW-846 3550B Analytical Method: SW-846 8270C (SIM)							
1-Methylnaphthalene	**5.8**	**ug/Kg**	**U**	**1**	8.2	5.8	4/18/2012 00:59	J
2-Methylnaphthalene	**5.7**	**ug/Kg**	**U**	**1**	8.2	5.7	4/18/2012 00:59	J
Acenaphthene	**5.9**	**ug/Kg**	**U**	**1**	8.2	5.9	4/18/2012 00:59	J
Acenaphthylene	**5.6**	**ug/Kg**	**U**	**1**	8.2	5.6	4/18/2012 00:59	J
Anthracene	**5.6**	**ug/Kg**	**U**	**1**	8.2	5.6	4/18/2012 00:59	J
Benzo[a]anthracene	**6.4**	**ug/Kg**	**U**	**1**	8.2	6.4	4/18/2012 00:59	J
Benzo[a]pyrene	**4.3**	**ug/Kg**	**U**	**1**	8.2	4.3	4/18/2012 00:59	J
Benzo[b]fluoranthene	**4.4**	**ug/Kg**	**U**	**1**	8.2	4.4	4/18/2012 00:59	J
Benzo[g,h,i]perylene	**5.5**	**ug/Kg**	**U**	**1**	8.2	5.5	4/18/2012 00:59	J
Benzo[k]fluoranthene	**6.8**	**ug/Kg**	**U**	**1**	8.2	6.8	4/18/2012 00:59	J
Chrysene	**7.0**	**ug/Kg**	**U**	**1**	8.2	7.0	4/18/2012 00:59	J
Dibenzo[a,h]anthracene	**4.1**	**ug/Kg**	**U**	**1**	8.2	4.1	4/18/2012 00:59	J
Fluoranthene	**5.8**	**ug/Kg**	**U**	**1**	8.2	5.8	4/18/2012 00:59	J
Fluorene	**5.7**	**ug/Kg**	**U**	**1**	8.2	5.7	4/18/2012 00:59	J
Indeno(1,2,3-cd)pyrene	**3.8**	**ug/Kg**	**U**	**1**	8.2	3.8	4/18/2012 00:59	J
Naphthalene	**4.9**	**ug/Kg**	**U**	**1**	8.2	4.9	4/18/2012 00:59	J
Phenanthrene	**6.0**	**ug/Kg**	**U**	**1**	8.2	6.0	4/18/2012 00:59	J
Pyrene	**6.9**	**ug/Kg**	**U**	**1**	8.2	6.9	4/18/2012 00:59	J

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ANALYTICAL RESULTS

Workorder: J1203124 NSA Panama City

Lab ID: **J1203124014** Date Received: 04/13/12 10:00 Matrix: Soil
Sample ID: **PCY-0098-4-6-SB-SS4** Date Collected: 04/12/12 10:20
Results for sample J1203124014 are reported on a dry weight basis.
Sample Description: Location:

Parameters	Results	Units	Qual	DF	Adjusted PQL	Adjusted MDL	Analyzed	Lab
Decafluorobiphenyl (S)	**103**	**%**		**1**	44.8-137		4/18/2012 00:59	
VOLATILES								
Analysis Desc: 8260C Analysis, Soil	Preparation Method: SW-846 5035 Analytical Method: SW-846 8260B							
Benzene	**1.0**	**ug/Kg**	**U**	**1**	2.5	1.0	4/17/2012 04:45	J
Ethylbenzene	**0.91**	**ug/Kg**	**U**	**1**	2.5	0.91	4/17/2012 04:45	J
Methyl tert-butyl Ether (MTBE)	**0.94**	**ug/Kg**	**U**	**1**	2.5	0.94	4/17/2012 04:45	J
Toluene	**1.2**	**ug/Kg**	**U**	**1**	2.5	1.2	4/17/2012 04:45	J
Xylene (Total)	**3.2**	**ug/Kg**	**U**	**1**	7.5	3.2	4/17/2012 04:45	J
1,2-Dichloroethane-d4 (S)	**104**	**%**		**1**	80-120		4/17/2012 04:45	
Toluene-d8 (S)	**102**	**%**		**1**	81-117		4/17/2012 04:45	
Bromofluorobenzene (S)	**105**	**%**		**1**	74-121		4/17/2012 04:45	

Lab ID: **J1203124015** Date Received: 04/13/12 10:00 Matrix: Soil
Sample ID: **PCY-0098-4-6-SB-SS5** Date Collected: 04/12/12 10:32
Results for sample J1203124015 are reported on a dry weight basis.
Sample Description: Location:

Parameters	Results	Units	Qual	DF	Adjusted PQL	Adjusted MDL	Analyzed	Lab
SEMIVOLATILES								
Analysis Desc: Flo-Pro Analysis, Soil	Preparation Method: FL-PRO Analytical Method: FL-PRO							
TPH	**4.0**	**mg/Kg**	**U**	**1**	34	4.0	4/16/2012 23:38	J
o-Terphenyl (S)	**88**	**%**		**1**	62-109		4/16/2012 23:38	
Nonatricontane-C39 (S)	**74**	**%**		**1**	60-118		4/16/2012 23:38	
Analysis Desc: 8270C-SIM Analysis, Soil	Preparation Method: SW-846 3550B Analytical Method: SW-846 8270C (SIM)							
1-Methylnaphthalene	**5.7**	**ug/Kg**	**U**	**1**	8.1	5.7	4/18/2012 01:31	J
2-Methylnaphthalene	**5.7**	**ug/Kg**	**U**	**1**	8.1	5.7	4/18/2012 01:31	J
Acenaphthene	**5.8**	**ug/Kg**	**U**	**1**	8.1	5.8	4/18/2012 01:31	J
Acenaphthylene	**5.5**	**ug/Kg**	**U**	**1**	8.1	5.5	4/18/2012 01:31	J
Anthracene	**5.5**	**ug/Kg**	**U**	**1**	8.1	5.5	4/18/2012 01:31	J
Benzo[a]anthracene	**6.3**	**ug/Kg**	**U**	**1**	8.1	6.3	4/18/2012 01:31	J
Benzo[a]pyrene	**4.2**	**ug/Kg**	**U**	**1**	8.1	4.2	4/18/2012 01:31	J

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ANALYTICAL RESULTS

Workorder: J1203124 NSA Panama City

Lab ID: **J1203124015** Date Received: 04/13/12 10:00 Matrix: Soil

Sample ID: **PCY-0098-4-6-SB-SS5** Date Collected: 04/12/12 10:32

Results for sample J1203124015 are reported on a dry weight basis.

Sample Description: Location:

Parameters	Results	Units	Qual	DF	Adjusted PQL	Adjusted MDL	Analyzed	Lab
Benzo[b]fluoranthene	**4.4**	**ug/Kg**	**U**	**1**	8.1	4.4	4/18/2012 01:31	J
Benzo[g,h,i]perylene	**5.4**	**ug/Kg**	**U**	**1**	8.1	5.4	4/18/2012 01:31	J
Benzo[k]fluoranthene	**6.8**	**ug/Kg**	**U**	**1**	8.1	6.8	4/18/2012 01:31	J
Chrysene	**7.0**	**ug/Kg**	**U**	**1**	8.1	7.0	4/18/2012 01:31	J
Dibenzo[a,h]anthracene	**4.1**	**ug/Kg**	**U**	**1**	8.1	4.1	4/18/2012 01:31	J
Fluoranthene	**5.7**	**ug/Kg**	**U**	**1**	8.1	5.7	4/18/2012 01:31	J
Fluorene	**5.6**	**ug/Kg**	**U**	**1**	8.1	5.6	4/18/2012 01:31	J
Indeno(1,2,3-cd)pyrene	**3.8**	**ug/Kg**	**U**	**1**	8.1	3.8	4/18/2012 01:31	J
Naphthalene	**4.9**	**ug/Kg**	**U**	**1**	8.1	4.9	4/18/2012 01:31	J
Phenanthrene	**5.9**	**ug/Kg**	**U**	**1**	8.1	5.9	4/18/2012 01:31	J
Pyrene	**6.9**	**ug/Kg**	**U**	**1**	8.1	6.9	4/18/2012 01:31	J
Decafluorobiphenyl (S)	**114**	**%**		**1**	44.8-137		4/18/2012 01:31	

VOLATILES

Analysis Desc: 8260C Analysis, Soil — Preparation Method: SW-846 5035

Analytical Method: SW-846 8260B

Benzene	**1.6**	**ug/Kg**	**U**	**1**	3.9	1.6	4/17/2012 05:30	J
Ethylbenzene	**1.4**	**ug/Kg**	**U**	**1**	3.9	1.4	4/17/2012 05:30	J
Methyl tert-butyl Ether (MTBE)	**1.5**	**ug/Kg**	**U**	**1**	3.9	1.5	4/17/2012 05:30	J
Toluene	**1.8**	**ug/Kg**	**U**	**1**	3.9	1.8	4/17/2012 05:30	J
Xylene (Total)	**4.9**	**ug/Kg**	**U**	**1**	12	4.9	4/17/2012 05:30	J
1,2-Dichloroethane-d4 (S)	**103**	**%**		**1**	80-120		4/17/2012 05:30	
Toluene-d8 (S)	**102**	**%**		**1**	81-117		4/17/2012 05:30	
Bromofluorobenzene (S)	**109**	**%**		**1**	74-121		4/17/2012 05:30	

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ANALYTICAL RESULTS QUALIFIERS

Workorder: J1203124 NSA Panama City

PARAMETER QUALIFIERS

U	The compound was analyzed for but not detected.
I	The reported value is between the laboratory method detection limit and the laboratory practical quantitation limit.
[2]	surrogate Diluted Out
[1]	Surrogate Diluted Out
J4	Estimated Result

LAB QUALIFIERS

J	DOH Certification #E82574(AEL-JAX)(FL NELAC Certification)

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QUALITY CONTROL DATA

Workorder: J1203124 NSA Panama City

QC Batch:	EXTj/1335	Analysis Method:	SW-846 8270C (SIM)
QC Batch Method:	SW-846 3550B	Prepared:	04/15/2012 13:00

Associated Lab Samples: J1203124001, J1203124002, J1203124003, J1203124004, J1203124005, J1203124006, J1203124007, J1203124008,

METHOD BLANK: 944441

Parameter	Units	Blank Result	Reporting Limit	Qualifiers
SEMIVOLATILES				
Naphthalene	ug/Kg	4.7	4.7	U
2-Methylnaphthalene	ug/Kg	5.5	5.5	U
1-Methylnaphthalene	ug/Kg	5.5	5.5	U
Acenaphthylene	ug/Kg	5.3	5.3	U
Acenaphthene	ug/Kg	5.6	5.6	U
Fluorene	ug/Kg	5.4	5.4	U
Phenanthrene	ug/Kg	5.7	5.7	U
Anthracene	ug/Kg	5.3	5.3	U
Fluoranthene	ug/Kg	5.5	5.5	U
Pyrene	ug/Kg	6.6	6.6	U
Benzo[a]anthracene	ug/Kg	6.1	6.1	U
Chrysene	ug/Kg	6.7	6.7	U
Benzo[b]fluoranthene	ug/Kg	4.2	4.2	U
Benzo[k]fluoranthene	ug/Kg	6.6	6.6	U
Benzo[a]pyrene	ug/Kg	4.1	4.1	U
Indeno(1,2,3-cd)pyrene	ug/Kg	3.7	3.7	U
Dibenzo[a,h]anthracene	ug/Kg	4.0	4.0	U
Benzo[g,h,i]perylene	ug/Kg	5.3	5.3	U
Decafluorobiphenyl (S)	%	122	44.8-137	

LABORATORY CONTROL SAMPLE: 944442

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
SEMIVOLATILES						
Naphthalene	ug/Kg	200	160	82	40-105	
2-Methylnaphthalene	ug/Kg	200	170	85	45-105	
1-Methylnaphthalene	ug/Kg	200	170	84	45-105	
Acenaphthylene	ug/Kg	200	170	85	45-105	
Acenaphthene	ug/Kg	200	170	83	45-110	
Fluorene	ug/Kg	200	170	86	50-110	
Phenanthrene	ug/Kg	200	180	92	50-110	
Anthracene	ug/Kg	200	200	98	55-105	
Fluoranthene	ug/Kg	200	210	103	55-115	
Pyrene	ug/Kg	200	180	90	45-125	
Benzo[a]anthracene	ug/Kg	200	190	97	50-110	

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QUALITY CONTROL DATA

Workorder: J1203124 NSA Panama City

LABORATORY CONTROL SAMPLE: 944442

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Chrysene	ug/Kg	200	200	98	55-110	
Benzo[b]fluoranthene	ug/Kg	200	190	93	45-115	
Benzo[k]fluoranthene	ug/Kg	200	180	88	45-125	
Benzo[a]pyrene	ug/Kg	200	190	95	50-110	
Indeno(1,2,3-cd)pyrene	ug/Kg	200	200	99	40-120	
Dibenzo[a,h]anthracene	ug/Kg	200	200	100	40-125	
Benzo[g,h,i]perylene	ug/Kg	200	200	98	40-125	
Decafluorobiphenyl (S)	%			103	44.8-137	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 944443 944444 Original: J1203124012

Parameter	Units	Original Result	Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limit	RPD	Max RPD	Qualifiers
SEMIVOLATILES											
Naphthalene	ug/Kg	0	200	170	150	82	76	40-105	8	30	
2-Methylnaphthalene	ug/Kg	0	200	180	170	87	82	45-105	6	30	
1-Methylnaphthalene	ug/Kg	0	200	180	170	86	82	45-105	5	30	
Acenaphthylene	ug/Kg	0	200	170	160	86	81	45-105	5	30	
Acenaphthene	ug/Kg	0	200	170	160	84	80	45-110	5	30	
Fluorene	ug/Kg	0	200	180	180	88	86	50-110	2	30	
Phenanthrene	ug/Kg	0	200	190	180	92	89	50-110	3	30	
Anthracene	ug/Kg	0	200	190	190	96	92	55-105	4	30	
Fluoranthene	ug/Kg	0	200	230	210	111	104	55-115	7	30	
Pyrene	ug/Kg	0	200	180	180	86	91	45-125	5	30	
Benzo[a]anthracene	ug/Kg	0	200	190	200	95	98	50-110	4	30	
Chrysene	ug/Kg	0	200	190	200	94	97	55-110	3	30	
Benzo[b]fluoranthene	ug/Kg	0	200	200	190	98	93	45-115	5	30	
Benzo[k]fluoranthene	ug/Kg	0	200	180	180	90	91	45-125	1	30	
Benzo[a]pyrene	ug/Kg	0	200	190	180	94	88	50-110	5	30	
Indeno(1,2,3-cd)pyrene	ug/Kg	0	200	200	210	100	102	40-120	3	30	
Dibenzo[a,h]anthracene	ug/Kg	0	200	210	220	103	106	40-125	3	30	
Benzo[g,h,i]perylene	ug/Kg	0	200	200	210	101	103	40-125	3	30	
Decafluorobiphenyl (S)	%	121				97	93	44.8-137	4		

QC Batch: EXTj/1336 Analysis Method: FL-PRO

QC Batch Method: FL-PRO Prepared: 04/15/2012 13:00

Associated Lab Samples: J1203124001, J1203124002, J1203124003, J1203124004, J1203124005, J1203124006, J1203124007, J1203124008,

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QUALITY CONTROL DATA

Workorder: J1203124 NSA Panama City

METHOD BLANK: 944450

Parameter	Units	Blank Result	Reporting Limit	Qualifiers
SEMIVOLATILES				
TPH	mg/Kg	3.9	3.9	U
o-Terphenyl (S)	%	94	62-109	
Nonatricontane-C39 (S)	%	91	60-118	

LABORATORY CONTROL SAMPLE: 944451

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
SEMIVOLATILES						
TPH	mg/Kg	34	30	90	63-153	
o-Terphenyl (S)	%			102	62-109	
Nonatricontane-C39 (S)	%			96	60-118	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 944457 944458 Original: J1203124012

Parameter	Units	Original Result	Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limit	RPD	Max RPD	Qualifiers
SEMIVOLATILES											
TPH	mg/Kg	29	33	57	55	79	74	62-204	3	25	
o-Terphenyl (S)	%	87				89	89	62-109	0	25	
Nonatricontane-C39 (S)	%	84				87	87	60-118	0	25	

QC Batch: MSVj/1364 Analysis Method: SW-846 8260B

QC Batch Method: SW-846 5035 Prepared: 04/16/2012 11:28

Associated Lab Samples: J1203124001, J1203124002, J1203124003, J1203124004, J1203124005, J1203124006, J1203124007, J1203124008,

METHOD BLANK: 945302

Parameter	Units	Blank Result	Reporting Limit	Qualifiers
VOLATILES				
Methyl tert-butyl Ether (MTBE)	ug/Kg	1.1	1.1	U
Benzene	ug/Kg	1.2	1.2	U
Toluene	ug/Kg	1.4	1.4	U
Ethylbenzene	ug/Kg	1.1	1.1	U

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QUALITY CONTROL DATA

Workorder: J1203124 NSA Panama City

METHOD BLANK: 945302

Parameter	Units	Blank Result	Reporting Limit	Qualifiers
Xylene (Total)	ug/Kg	3.8	3.8	U
1,2-Dichloroethane-d4 (S)	%	110	80-120	
Toluene-d8 (S)	%	98	81-117	
Bromofluorobenzene (S)	%	105	74-121	

LABORATORY CONTROL SAMPLE: 945303

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
VOLATILES						
Methyl tert-butyl Ether (MTBE)	ug/Kg	20	18	92	70-130	
Benzene	ug/Kg	20	19	93	70-130	
Toluene	ug/Kg	20	18	90	70-130	
Ethylbenzene	ug/Kg	20	19	95	70-130	
Xylene (Total)	ug/Kg	60	57	94	70-130	
1,2-Dichloroethane-d4 (S)	%			104	80-120	
Toluene-d8 (S)	%			98	81-117	
Bromofluorobenzene (S)	%			105	74-121	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 945304 945305 Original: J1203124001

Parameter	Units	Original Result	Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limit	RPD	Max RPD	Qualifiers
VOLATILES											
Methyl tert-butyl Ether (MTBE)	ug/Kg	0	20	20	19	88	86	70-130	4	30	
Benzene	ug/Kg	0	20	22	21	98	96	70-130	5	30	
Toluene	ug/Kg	0	20	23	20	103	90	70-130	15	30	
Ethylbenzene	ug/Kg	0	20	24	21	106	96	70-130	12	30	
Xylene (Total)	ug/Kg	0	60	71	62	104	93	70-130	13	30	
1,2-Dichloroethane-d4 (S)	%	102				99	100	80-120	1		
Toluene-d8 (S)	%	100				99	98	81-117	3		
Bromofluorobenzene (S)	%	104				107	106	74-121	3		

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QUALITY CONTROL DATA CROSS REFERENCE TABLE

Workorder: J1203124 NSA Panama City

Lab ID	Sample ID	Prep Method	Prep Batch	Analysis Method	Analysis Batch
J1203124001	PCY-AOC2-4-6-SB814	SW-846 3550B	EXTj/1335	SW-846 8270C (SIM)	MSSj/1146
J1203124002	PCY-AOC2-4-6-SB816	SW-846 3550B	EXTj/1335	SW-846 8270C (SIM)	MSSj/1146
J1203124003	PCY-AOC2-4-6-SB-SB22	SW-846 3550B	EXTj/1335	SW-846 8270C (SIM)	MSSj/1146
J1203124004	PCY-AOC2-2-4-SB-SB22	SW-846 3550B	EXTj/1335	SW-846 8270C (SIM)	MSSj/1146
J1203124005	PCY-AOC2-4-6-SB-002	SW-846 3550B	EXTj/1335	SW-846 8270C (SIM)	MSSj/1146
J1203124006	PCY-AOC2-4-6-SB-809	SW-846 3550B	EXTj/1335	SW-846 8270C (SIM)	MSSj/1146
J1203124007	PCY-AOC2-4-6-SB-SB04	SW-846 3550B	EXTj/1335	SW-846 8270C (SIM)	MSSj/1146
J1203124008	PCY-AOC2-4-6-SB-811	SW-846 3550B	EXTj/1335	SW-846 8270C (SIM)	MSSj/1146
J1203124009	PCY-AOC2-4-6-SB-SB11	SW-846 3550B	EXTj/1335	SW-846 8270C (SIM)	MSSj/1146
J1203124010	PCY-AOC2-4-6-SB-SB33	SW-846 3550B	EXTj/1335	SW-846 8270C (SIM)	MSSj/1146
J1203124011	PCY-0098-4-6-SB-SS1	SW-846 3550B	EXTj/1335	SW-846 8270C (SIM)	MSSj/1146
J1203124012	PCY-0098-4-6-SB-SS2	SW-846 3550B	EXTj/1335	SW-846 8270C (SIM)	MSSj/1146
J1203124013	PCY-0098-4-6-SB-SS3	SW-846 3550B	EXTj/1335	SW-846 8270C (SIM)	MSSj/1146
J1203124014	PCY-0098-4-6-SB-SS4	SW-846 3550B	EXTj/1335	SW-846 8270C (SIM)	MSSj/1146
J1203124015	PCY-0098-4-6-SB-SS5	SW-846 3550B	EXTj/1335	SW-846 8270C (SIM)	MSSj/1146
J1203124001	PCY-AOC2-4-6-SB814	FL-PRO	EXTj/1336	FL-PRO	GCSj/1245
J1203124002	PCY-AOC2-4-6-SB816	FL-PRO	EXTj/1336	FL-PRO	GCSj/1245
J1203124003	PCY-AOC2-4-6-SB-SB22	FL-PRO	EXTj/1336	FL-PRO	GCSj/1245
J1203124004	PCY-AOC2-2-4-SB-SB22	FL-PRO	EXTj/1336	FL-PRO	GCSj/1245
J1203124005	PCY-AOC2-4-6-SB-002	FL-PRO	EXTj/1336	FL-PRO	GCSj/1245
J1203124006	PCY-AOC2-4-6-SB-809	FL-PRO	EXTj/1336	FL-PRO	GCSj/1245
J1203124007	PCY-AOC2-4-6-SB-SB04	FL-PRO	EXTj/1336	FL-PRO	GCSj/1245
J1203124008	PCY-AOC2-4-6-SB-811	FL-PRO	EXTj/1336	FL-PRO	GCSj/1245
J1203124009	PCY-AOC2-4-6-SB-SB11	FL-PRO	EXTj/1336	FL-PRO	GCSj/1245
J1203124010	PCY-AOC2-4-6-SB-SB33	FL-PRO	EXTj/1336	FL-PRO	GCSj/1245
J1203124011	PCY-0098-4-6-SB-SS1	FL-PRO	EXTj/1336	FL-PRO	GCSj/1245
J1203124012	PCY-0098-4-6-SB-SS2	FL-PRO	EXTj/1336	FL-PRO	GCSj/1245
J1203124013	PCY-0098-4-6-SB-SS3	FL-PRO	EXTj/1336	FL-PRO	GCSj/1245
J1203124014	PCY-0098-4-6-SB-SS4	FL-PRO	EXTj/1336	FL-PRO	GCSj/1245
J1203124015	PCY-0098-4-6-SB-SS5	FL-PRO	EXTj/1336	FL-PRO	GCSj/1245
J1203124001	PCY-AOC2-4-6-SB814	SW-846 5035	MSVj/1364	SW-846 8260B	MSVj/1365
J1203124002	PCY-AOC2-4-6-SB816	SW-846 5035	MSVj/1364	SW-846 8260B	MSVj/1365

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QUALITY CONTROL DATA CROSS REFERENCE TABLE

Workorder: J1203124 NSA Panama City

Lab ID	Sample ID	Prep Method	Prep Batch	Analysis Method	Analysis Batch
J1203124003	PCY-AOC2-4-6-SB-SB22	SW-846 5035	MSVj/1364	SW-846 8260B	MSVj/1365
J1203124004	PCY-AOC2-2-4-SB-SB22	SW-846 5035	MSVj/1364	SW-846 8260B	MSVj/1365
J1203124005	PCY-AOC2-4-6-SB-002	SW-846 5035	MSVj/1364	SW-846 8260B	MSVj/1365
J1203124006	PCY-AOC2-4-6-SB-809	SW-846 5035	MSVj/1364	SW-846 8260B	MSVj/1365
J1203124007	PCY-AOC2-4-6-SB-SB04	SW-846 5035	MSVj/1364	SW-846 8260B	MSVj/1365
J1203124008	PCY-AOC2-4-6-SB-811	SW-846 5035	MSVj/1364	SW-846 8260B	MSVj/1365
J1203124009	PCY-AOC2-4-6-SB-SB11	SW-846 5035	MSVj/1364	SW-846 8260B	MSVj/1365
J1203124010	PCY-AOC2-4-6-SB-SB33	SW-846 5035	MSVj/1364	SW-846 8260B	MSVj/1365
J1203124011	PCY-0098-4-6-SB-SS1	SW-846 5035	MSVj/1364	SW-846 8260B	MSVj/1365
J1203124012	PCY-0098-4-6-SB-SS2	SW-846 5035	MSVj/1364	SW-846 8260B	MSVj/1365
J1203124013	PCY-0098-4-6-SB-SS3	SW-846 5035	MSVj/1364	SW-846 8260B	MSVj/1365
J1203124014	PCY-0098-4-6-SB-SS4	SW-846 5035	MSVj/1364	SW-846 8260B	MSVj/1365
J1203124015	PCY-0098-4-6-SB-SS5	SW-846 5035	MSVj/1364	SW-846 8260B	MSVj/1365

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CLIENT NAME: SACAL Env. & Management
ADDRESS: 2153 Vineville Ave.
Macon, GA 31204
PHONE: (478) 745-[redacted]9352
FAX: (478) 743-7686
CONTACT: Ed Glinski
SAMPLED BY: Ed Glinski

TURN AROUND TIME:
☑ STANDARD _____ ☐ RUSH _____

PROJECT NAME: NSA Panama City
P.O. NUMBER/PROJECT NUMBER:
PROJECT LOCATION: Panama City, FL

REMARKS/SPECIAL INSTRUCTIONS:
Please email results to: edward.glinski@sacalglobal.com
* Hold TPH-CWG for results

ANALYSIS REQUIRED

SAMPLE ID	SAMPLE DESCRIPTION	Grab Comp	SAMPLING DATE	SAMPLING TIME	MATRIX	NO. COUNT	PRESERVATION	8260 BTEX/MTBE	8270 PAHs	TRPH-FLPRO	TPH-CWG*						LABORATORY I.D. NUMBER
PCY-AOC2-	4-6-SB814	G	4/11/12	0859	SO	6		X	X	X							001
PCY-AOC2-	4-6-SB-816	G	4/11/12	1010	SO	6		X	X	X							002
PCY-AOC2-	4-6-SB-SB22	G	4/11/12	1059	SO	6		X	X	X							003
PCY-AOC2-	2-4-SB-SB22	G	4/11/12	1110	SO	6		X	X	X							004
PCY-AOC2-	4-6-SB-002	G	4/11/12	1205	SO	6		X	X	X							005
PCY-AOC2-	4-6-SB-809	G	4/11/12	1423	SO	6		X	X	X							006
PCY-AOC2-	4-6-SB-SB04	G	4/11/12	1445	SO	6		X	X	X							007

Matrix Code: WW = wastewater SW = surface water GW = ground water DW = drinking water O = oil A = air SO = soil SL = sludge

Preservation Code: I = ice H=(HCl) S = (H2SO4) N = (HNO3) T = (Sodium Thiosulfate)

Received on Ice ☒ Yes ☐ No ☒ Temp taken from sample ☐ Temp from blank ☐ Where required, pH checked Temperature when received 2 (in degrees celcius)

Form revised 2/8/08

Device used for measuring Temp by unique identifier (circle IR temp gun used) J: 9A G: LT-1 LT-2 T: 10A A: 3A

	Relinquished by:	Date	Time	Received by:	Date	Time
1	[signature]	4/11/12	1605	[signature]	4/11/12	1605
2	[signature]	4/12/12	1750	[signature]		
3	[signature]	4-13-12	10:00	[signature]	4-13-12	10:00
4						

FOR DRINKING WATER USE:
(When PWS information not otherwise supplied) PWS ID:_____
Contact Person:_____ Phone:_____
Supplier of Water:_____
Site-Address:_____

Page 1 of 1 LAB NUMBER **J1203124**

Advanced Environmental Laboratories, Inc.

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CLIENT NAME: SACAL Env & Management
ADDRESS: 2153 Vineville Ave.
Macon, GA 31204
PHONE: (478) 745-9352
FAX: " 743-7686
CONTACT: Ed Glinski
SAMPLED BY: Ed Glinski

TURN AROUND TIME: ☑ STANDARD ☐ RUSH

PROJECT NAME: NSA Panama City
P.O. NUMBER/PROJECT NUMBER:
PROJECT LOCATION: Panama City, FL

REMARKS/SPECIAL INSTRUCTIONS:
* Please email results to edward.glinski@sacalglobal.com
* Hold samples for CWG pending TRPH results

ANALYSIS REQUIRED

SAMPLE ID	SAMPLE DESCRIPTION	Grab Comp	SAMPLING DATE	SAMPLING TIME	MATRIX	NO. COUNT	PRESERVATION	8260 BTEX/MTBE	8270 PAHs	TRPH-FLPRO	TPH-CWG*	LABORATORY I.D. NUMBER
PCY-AOC2-4-6-SB-811		G	4/11/12	1630	SO	6		X	X	X		~~001~~ 008
PCY-AOC2-4-5-SB-SB11		G	4/11/12	1645	SO	6		X	X	X		~~002~~ 009
PCY-AOC2-4-5-SB-SB33		G	4/11/12	1658	SO	6		X	X	X		~~003~~ 010
PCY-0098-4-6-SB-SS1		G	4/12/12	0958	SO	6		X	X	X		~~004~~ 011
PCY-0098-4-6-SB-SS2		G	4/12/12	1000	SO	6		X	X	X		~~005~~ 012
PCY-0098-4-6-SB-SS3		G	4/12/12	1007	SO	6		X	X	X		~~006~~ 013
PCY-0098-4-6-SB-SS4		G	4/12/12	1020	SO	6		X	X	X		~~007~~ 014
PCY-0098-4-6-SB-SS5		G	4/12/12	1032	SO	6		X	X	X		~~008~~ 015
												DCL 4-13-12

Matrix Code: WW = wastewater SW = surface water GW = ground water DW = drinking water O = oil A = air SO = soil SL = sludge **Preservation Code:** I = ice H=(HCl) S = (H2SO4) N = (HNO3) T = (Sodium Thiosulfate)

Received on Ice ☒ Yes ☐ No ☒ Temp taken from sample ☐ Temp from blank ☐ Where required, pH checked Temperature when received 2 (in degrees celcius)

Form revised 2/8/08 Device used for measuring Temp by unique identifier (circle IR temp gun used) J: 9A Q: LT-1 LT-2 T: 10A A: 3A

	Relinquished by:	Date	Time	Received by:	Date	Time
1	Edward Glinski	4/12/12	1340	Carolyn R. Tuttle	4/12/12	1340
2	Carolyn R. Tuttle	4/12/12	1750	[illegible]		
3	[illegible]	4/13/12	10:00	[illegible]	4/13/12	10:00
4						

FOR DRINKING WATER USE:
(When PWS Information not otherwise supplied) PWS ID:
Contact Person: Phone :
Supplier of Water:
Site-Address: