North Carolina Department of Environment and Natural Resources
Division of Waste Management

Beverly Eaves Perdue
Governor

Dexter R. Matthews
Director

Dee Freeman
Secretary

October 3, 2012

Mr. Fred Stancil
Stancil Builders, Inc.
466 Stancil Road
Angier, NC 27501

Re: Review of Initial Abatement Action Report
Stancil Builders
540 Richlands, Highway, Jacksonville
Onslow County
Incident Number: 94140
Risk Classification: Low

Dear Mr. Stancil:

The Wilmington Regional Office UST Section has reviewed the Initial AssessmentReport received on September 12, 2012. The report will be maintained in the regional office and will also be referred to the Inactive Hazardous Waste Branch for their review of the laboratory samples for metals.

The UST Section recommends the excavation of contaminated soils as proposed extending the excavation into the area of SB-3. Because groundwater contamination does exceed the standards, please extend the assessment to define the extent of the plume and the direction of groundwater flow. Contamination at sites that is not from underground storage tanks must be cleaned up to the standards in 15A NCAC 2L .202. Laboratory analyses for future groundwater sampling should be EPA 602 and 625 and MADEP VPH and EPH. If you have any questions, please do not hesitate to contact me at (910) 796-7263.

Sincerely,

Deborah Mayo

Deborah Mayo
Hydrogeologist
Wilmington Regional Office

Cc: ARM
WiRO

127 Cardinal Drive Ext., Wilmington, North Carolina 28405
Phone: 910-796-7215\ FAX: 910-350-2004 \ Internet: www.wastenotnc.org

Environmental,
Geothermal & Well Drilling

September 19, 2012

NCDENR, DWM
UST Section
Attn.: Ms. Deborah Mayo
127 Cardinal Drive Extension
Wilmington, North Carolina 28405

Re.: Chromium Background Soil Sampling Results
Stancil Property
540 Richlands Highways
Jacksonville, North Carolina
Onslow County

Dear Ms. Mayo,

The following information is provided for review:

Table 1 Soil Sample Results Summary

Figure 1 Site Vicinity Map
Figure 2 Aerial Photo With Soil And Groundwater Sampling Locations

Appendix A Soil Borings
Appendix B Laboratory Results

Soil Sampling Activities

As per recommendations provided within the recently submitted Site Assessment Report, chromium background soil sampling activities were conducted at the referenced site. The purpose of the additional sampling was to determine if chromium concentrations found at all previous sampling locations shown on Table 1 were the results of contaminant release(s), or if the chromium was naturally occurring at the site. Figure 1 is a Site Vicinity Map showing the project location. On September 9, 2012, two soil borings identified as BG-1 and BG-2 were advanced greater than 250 feet to the north and northwest of the identified contaminant areas as depicted on Figure 2. Boring logs are provided in Appendix A. Soil samples were collected from each boring at approximately two to three feet below ground surface and immediately above the groundwater table. The soil samples were submitted for laboratory analysis per EPA Method 6010C for chromium.

Applied Resource Management, PC
P. O. Box 882, 257 Transfer Station Road, Hampstead, NC 28443 910.270.2919 Fax 910.270.2988

September 19, 2012

Soil Sample Results

Based on laboratory results, both BG-1 and BG-2 were found to contain chromium concentrations above the Soil-to Groundwater Maximum Contaminant Concentration currently at 5.4 ppm. BG-1 revealed chromium at 12.2 ppm. BG-2 revealed chromium at 9.48 ppm. As shown on Table 1, these concentrations are similar to the previous soil sampling results for chromium. Laboratory results are provided in Appendix B.

Conclusions and Recommendations

Recent chromium background soil sampling activities were conducted at the site. Findings revealed chromium to be present within the undisturbed woodland areas to the north and northwest of the hydraulic lift area. The chromium concentrations were found to be similar to previous soil sample results. Based on these findings, it is concluded that the chromium identified at the site is naturally occurring. It is recommended that chromium be omitted from future soil abatement or other sampling activities.

If you have questions or require further information, do not hesitate to call.

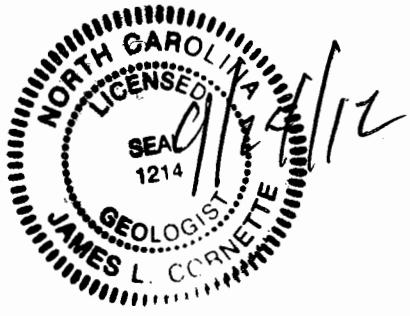
Sincerely,

Joseph L. Zuncich
Project Manager/ Environmental Geologist

James L. Cornette, P.G.
Project Manager

encs.

cc: Mr. Fred Stancil, President
Stancil Builders, Inc.
466 Stancil Road
Angier, North Carolina 27501



TABLE

TABLE 1 (page 1 of 2)
SOIL SAMPLE RESULTS SUMMARY
STANCIL PROPERTY
540 RICHLANDS HIGHWAY, JACKSONVILLE, NORTH CAROLINA
SAMPLED ON 5/24/12 & 8/2-3/12

ANALYTE	SOIL-TO-GROUNDWATER MAXIMUM CONTAMINANT CONCENTRATION	RESIDENTIAL SOIL CLEANUP LEVEL	B-1 (2') 5/24/12	B-2 (2') 5/24/12	B-3 (2') 5/24/12	B-4 (2') 5/24/12	B-5 (3.5') 5/24/12	B-6 (2-4') 5/24/12	B-7 (2-4') 5/24/12	SB-1 (2.5-3.5') 8/3/12	SB-2 (2.5-3.5') 8/2/12	SB-3 (2.5-3.5') 8/3/12	SB-4 (2.5-3.5') 8/3/12	SB-5 (2.5-3.5') 8/2/12	SB-6 (2.5-3.5') 8/2/12	SB-7 (2.5-3.5') 8/2/12	SB-8 (2.5-3.5') 8/2/12
EPA METHOD 8260B (concentrations in ppm)																	
ACETONE	24	14,000	0.0074	1.3	0.48	0.0088	0.0056	0.036	0.026	0.0205 J	0.0126 J	ND	0.0849	0.0557	0.0751	0.0373 J	0.0139 J
METHYLENE CHLORIDE	0.02	85	0.00073 J	0.68	0.25	0.00098 J	0.00066	0.00070	0.00075	0.00250 J	0.00141 J	ND	0.00385 J	0.00266 J	0.00240 J	0.00155 J	0.00127 J
1,2,4-TRIMETHYLBENZENE	8.5	782	0.00017	110	67	0.00015	0.00015	0.00016	0.00017	ND	ND	0.0304 J	0.00705	ND	ND	ND	ND
1,3,5-TRIMETHYLBENZENE	8.3	782	0.00020	35	6.5	0.00018	0.00018	0.00019	0.00021	ND	ND	0.0183 J	0.00172 J	ND	ND	ND	ND
2-BUTANONE	16	9,385	0.00078	0.73	0.27	0.00069	0.00070	0.00075	0.00080	ND	ND	ND	0.0101 J	ND	ND	ND	ND
4-ISOPROPYLTOLUENE	0.12	100	0.00016	3.6	4.4	0.00014	0.00014	0.00015	0.00016	ND	ND	0.0201J	ND	ND	ND	ND	ND
BENZENE	0.0056	18	0.00017	0.16	0.059	0.00015	0.00015	0.00016	0.00017	ND	ND	ND	0.01080	ND	ND	ND	ND
ETHYLBENZENE	4.9	1,560	0.00020	15	16	0.00018	0.00018	0.00019	0.00021	ND	ND	ND	0.0233	ND	ND	ND	ND
TOLUENE	4.3	1,200	0.00024	0.22	0.083	0.00021	0.00022	0.00023	0.00025	ND	ND	ND	0.0150	ND	0.00166 J	ND	ND
ISOPROPYLBENZENE	1.7	1,564	0.00015	5.3	6.2	0.00039 J	0.00014	0.00014	0.00015	ND	ND	0.00989 J	0.00170 J	ND	ND	ND	ND
NAPHTHALENE	0.16	313	0.00027	19	20	0.00024	0.00024	0.00026	0.00028	ND	ND	0.0121 J	ND	ND	ND	ND	ND
N-BUTYLBENZENE	4.3	626	0.00013	9.6	12	0.00012	0.00012	0.00012	0.00013	ND	ND	ND	ND	ND	ND	ND	ND
N-PROPYLBENZENE	1.7	626	0.00018	15	18	0.00060 J	0.00016	0.00017	0.00018	ND	ND	0.0132 J	0.00531	ND	ND	ND	ND
SEC-BUTYLBENZENE	3.3	626	0.00096	0.88	3.3	0.00084	0.00086	0.00091	0.00098	ND	ND	ND	ND	ND	ND	ND	ND
CIS-1,2-DICHLOROETHENE	0.35	156	0.00023	0.21	0.079	0.00020	0.00021	0.00022	0.00024	ND	ND	0.0179 J	ND	ND	ND	ND	ND
XYLENES	4.6	3,129	0.00056	19	12	0.00050	0.00051	0.00054	0.00057	ND	ND	ND	0.0489	ND	ND	ND	ND
ALL OTHER COMPOUNDS	Varies	Varies	BSAL	BSAL	BSAL	BSAL	BSAL	BSAL	BSAL	ND	ND	ND	ND	ND	ND	ND	ND
EPA METHOD 8270 D (concentrations in ppm)																	
NAPHTHALENE	0.16	313	0.033	2.7	3.0	0.068 J	2.8	0.033	0.033	ND	ND	ND	ND	ND	ND	ND	ND
Bis(2-Ethylhexyl)phthalate	6.6	46	0.042	0.040	0.041	0.042	0.042	0.041	0.041	ND	ND	ND	ND	ND	ND	ND	ND
1-METHYLNAPHTHALENE	NE	NE	0.032	2.5	2.4	0.095 J	1.9	0.031	0.032	ND	ND	ND	ND	ND	ND	ND	ND
2-METHYLNAPHTHALENE	3.6	63	0.033	4.7	4.7	0.12 J	3.7	0.033	0.033	ND	ND	ND	ND	ND	ND	ND	ND
4-CHLOROANILINE	NE	NE	0.11	0.11	0.11	0.11	0.11	0.11	0.11	ND	ND	ND	0.0293 J	ND	ND	ND	ND
BENZO(a)ANTHRACENE	0.35	0.88	0.033	0.032	0.033	0.034	0.034	0.033	0.033	ND	ND	ND	0.117 J	ND	ND	ND	ND
BENZO(a) PYRENE	0.096	0.088	0.039	0.038	0.039	0.040	0.039	0.038	0.039	ND	ND	ND	0.143 J	ND	ND	ND	ND
BENZO(b)FLOURANTHENE	1.2	0.88	0.021	0.021	0.021	0.022	0.022	0.021	0.021	ND	ND	ND	0.201 J	ND	ND	ND	ND
BENZO(g,h,i)PERYLENE	6,400	469	0.056	0.054	0.056	0.056	0.056	0.055	0.055	ND	ND	ND	0.106 J	ND	ND	ND	ND
BENZO(k)FLOURANTHENE	12	9	0.039	0.038	0.039	0.040	0.039	0.038	0.039	ND	ND	ND	0.0842 J	ND	ND	ND	ND
CHRYSENE	39	88	0.036	0.034	0.035	0.036	0.036	0.035	0.035	ND	ND	ND	0.168 J	ND	ND	ND	ND
FLOURANTHENE	290	620	0.043	0.041	0.043	0.043	0.043	0.042	0.042	ND	ND	ND	0.223 J	ND	ND	ND	ND
INDENO(1,2,3-cd)PYRENE	3.4	0.88	0.056	0.054	0.056	0.056	0.056	0.055	0.055	ND	ND	ND	0.0879 J	ND	ND	ND	ND
PHENANTHRENE	56	469	0.032	0.031	0.032	0.032	0.032	0.031	0.032	ND	ND	ND	0.0549 J	ND	ND	ND	ND
PYRENE	270	469	0.045	0.044	0.045	0.046	0.045	0.044	0.045	ND	ND	ND	0.187 J	ND	ND	ND	ND
ALL OTHER COMPOUNDS	Varies	Varies	BSAL	BSAL	BSAL	BSAL	BSAL	BSAL	BSAL	ND	ND	ND	ND	ND	ND	ND	ND

Shaded areas present non-compliant hydrocarbon concentrations. ppm = parts per million NE= Not Established J= Estimated value BSAL = Below State Action Limit NA = Not analyzed

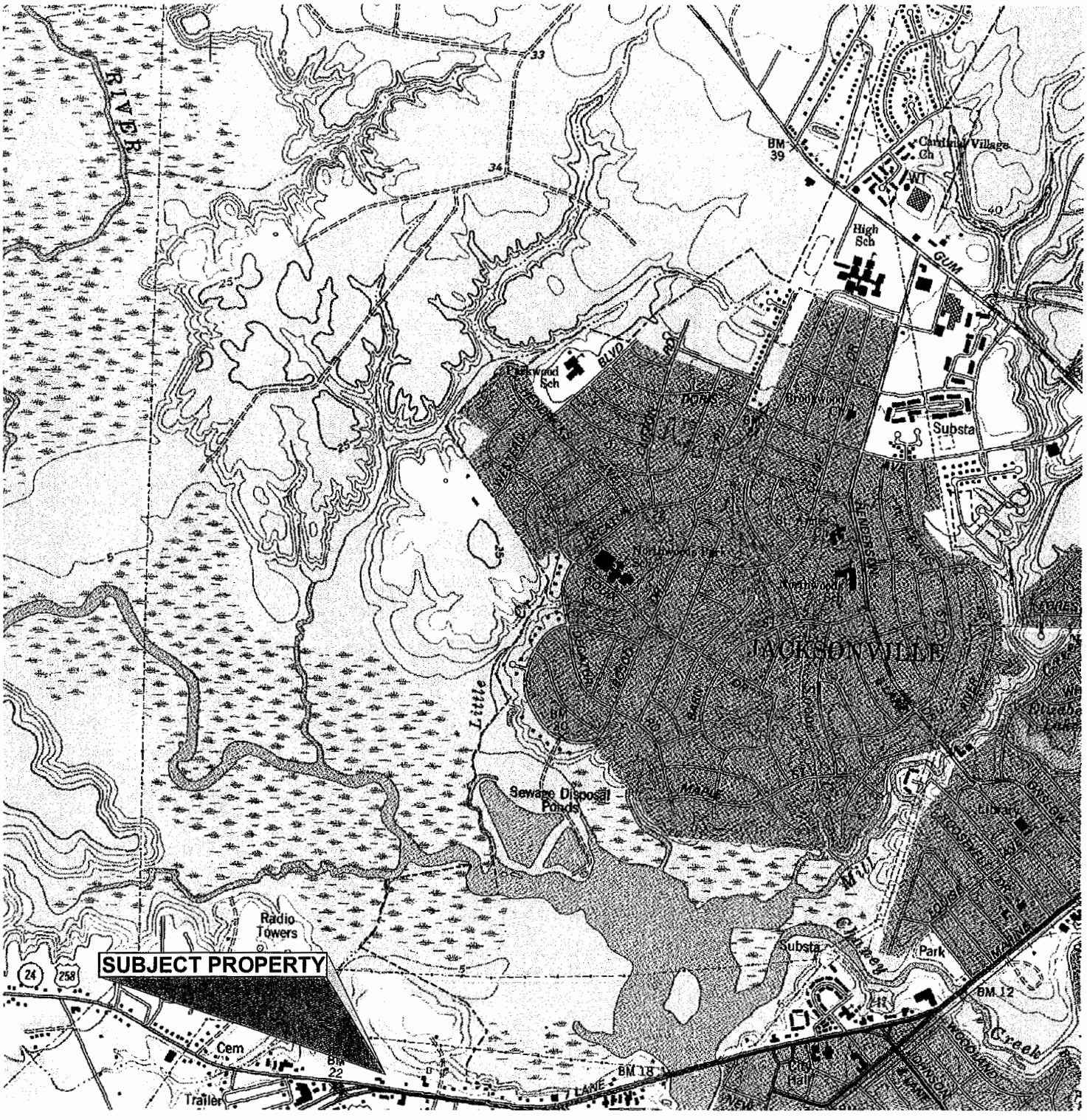
Note: Soil borings B-1 through B-7 advanced and sampled by Geologix, Inc. Soil Borings SB-1 through SB-8 advanced and sampled by ARM.

TABLE 1 (page 2 of 2)
SOIL SAMPLE RESULTS SUMMARY
STANCIL PROPERTY
540 RICHLANDS HIGHWAY, JACKSONVILLE, NORTH CAROLINA

ANALYTE	SOIL-TO-GROUNDWATER MAXIMUM CONTAMINANT CONCENTRATION	RESIDENTIAL SOIL CLEANUP LEVEL	B-1 (2') 5/24/12	B-2 (2') 5/24/12	B-3 (2') 5/24/12	B-4 (2') 5/24/12	B-5 (3.5') 5/24/12	B-6 (2-4') 5/24/12	B-7 (2-4') 5/24/12	SB-1 (2.5-3.5') 8/3/12	SB-2 (2.5-3.5') 8/2/12	SB-3 (2.5-3.5') 8/3/12	SB-4 (2.5-3.5') 8/3/12	SB-5 (2.5-3.5') 8/2/12	SB-6 (2.5-3.5') 8/2/12	SB-7 (2.5-3.5') 8/2/12	SB-8 (2.5-3.5') 8/2/12	BG-1 (2-3') 9/11/12	BG-2 (2-3') 9/11/12
EPA METHOD 6010 C (concentrations in ppm)																			
CADMIUM	NE	NE	0.0114	0.0113	0.0112	0.0114	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
LEAD	270	400	5.00	11.5	8.91	12.3	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
CHROMIUM (TOTAL)	5.4	47	5.14	6.00	5.93	4.87	NA	NA	NA	8.68	9.89	12.10	9.14	7.51	7.55	7.62	9.55	12.2	9.48

Shaded areas represent non-compliant hydrocarbon concentrations.
NA = Not analyzed
BG-1 and BG-2 collected as background soil samples.

FIGURES



N

Adapted from USGS Topographic Map "Jacksonville, North, N.C.," 1979, Contour Interval = 5 Feet

Applied Resource Management, P. C.
Hampstead, NC 28443

TITLE: SITE VICINITY MAP				FIGURE: 1
JOB: 12098	SCALE: 1"= 2,000'	DATE: 7/09/12	DRAWN BY: KLC	

Previous GeoLogix Soil and Groundwater Sample Locations

Type II Monitoring Well (AMW-1) Installed By ARM

Delineation Soil Boring/Sample Location

Delineation Soil Boring With Strong Hydrocarbon Odor

Background Soil Boring/Sample Location

Note: Adapted from the Onslow County On-line GIS.

N

Applied Resource Management, P. C.
Hampstead, NC 28443

TITLE: AERIAL PHOTO WITH SOIL AND GROUNDWATER SAMPLING LOCATIONS				FIGURE:
JOB: 12098	SCALE: Approx: 1" = 70'	DATE: 9/19/2012	DRAWN BY: KLC/JLZ	2

APPENDIX A

Stancil Property
540 Richlands Highway
Jacksonville, NC

BG-1

Drilled By: Applied Resource Management
Logged By: J. Zuncich
Date: 09/11/2012

Depth (ft.)	Description	Water Content	Blow Count
0 - 0.5'	Dark gray, silty to very fine grained sand with organic matter. No hydrocarbon odor present.	Low	HA
0.5 - 3'	Medium brown with orange mottles, silty sandy clay, clayey sand mixture. No hydrocarbon odor present. Very moist at 3.0' deep.	Low to very moist	HA

HA = Hand auger

Stancil Property
540 Richlands Highway
Jacksonville, NC

BG-1

Drilled By: Applied Resource Management
Logged By: J. Zuncich
Date: 09/11/2012

Depth (ft.)	Description	Water Content	Blow Count
0 - 0.5'	Dark gray, silty to very fine grained sand with organic matter. No hydrocarbon odor present.	Low	HA
0.5 - 3'	Medium brown with orange mottles, silty sandy clay, clayey sand mixture. No hydrocarbon odor present. Very moist at 3.0' deep.	Low to very moist	HA

HA = Hand auger

APPENDIX B

SGS ANALYTICAL PERSPECTIVES

Laboratory Report of Analysis

To: Joe Zuncich
APPLIED RESOURCE MANAGEMENT
P.O. Box 882
Hampstead, NC 28443

Report Number: **31202886**

Client Project: **Stancil Property**

Dear Joe Zuncich,

Enclosed are the results of the analytical services performed under the referenced project for the received samples and associated QC as applicable. The samples are certified to meet the requirements of the National Environmental Laboratory Accreditation Conference Standards. Copies of this report and supporting data will be retained in our files for a period of five years in the event they are required for future reference. All results are intended to be used in their entirety and SGS is not responsible for use of less than the complete report. Any samples submitted to our laboratory will be retained for a maximum of thirty (30) days from the date of this report unless other arrangements are requested.

If there are any questions about the report or services performed during this project, please call Michael D. Page at (910) 350-1903. We will be happy to answer any questions or concerns which you may have.

Thank you for using SGS North America Inc. for your analytical services. We look forward to working with you again on any additional analytical needs.

Sincerely,
SGS North America Inc.

Digitally signed by: Michael Page
Date: 2012.09.13 15:03:52 -04'00'

Michael D. Page Date

Print Date: 09/13/2012 N.C. Certification # 481

ANALYTICAL PERSPECTIVES IS NOW PART OF SGS, THE WORLD'S LEADING INSPECTION, VERIFICATION, TESTING AND CERTIFICATION COMPANY.

Laboratory Qualifiers

Report Definitions

DL	Method, Instrument, or Estimated Detection Limit per Analytical Method
CL	Control Limits for the recovery result of a parameter
LOQ	Reporting Limit
DF	Dilution Factor
RPD	Relative Percent Difference
LCS(D)	Laboratory Control Spike (Duplicate)
MS(D)	Matrix Spike (Duplicate)
MB	Method Blank

Qualifier Definitions

*	Recovery or RPD outside of control limits
B	Analyte was detected in the Lab Method Blank at a level above the LOQ
U	Undetected (Reported as ND or < DL)
V	Recovery is below quality control limit. The data has been validated based on a favorable signal-to-noise and detection limit
A	Amount detected is less than the Lower Method Calibration Limit
J	Estimated Concentration.
O	The recovery of this analyte in the OPR is above the Method QC Limits and the reported concentration in the sample may be biased high
E	Amount detected is greater than the Upper Calibration Limit
S	The amount of analyte present has saturated the detector. This situation results in an underestimation of the affected analyte(s)
Q	Indicates the presence of a quantitative interference. This situation may result in an underestimation of the affected analyte(s)
I	Indicates the presence of a qualitative interference that could cause a false positive or an overestimation of the affected analyte(s)
DPE	Indicates the presence of a peak in the polychlorinated diphenylether channel that could cause a false positive or an overestimation of the affected analyte(s)
TIC	Tentatively Identified Compound
EMPC	Estimated Maximum possible Concentration due to ion ratio failure
ND	Not Detected
K	Result is estimated due to ion ratio failure in High Resolution PCB Analysis
P	RPD > 40% between results of dual columns
D	Spike or surrogate was diluted out in order to achieve a parameter result within instrument calibration range

Samples requiring manual integrations for various congeners and/or standards are marked and dated by the analyst. A code definition is provided below:

M1	Mis-identified peak

Note Results pages that include a value for "Solids (%)" have been adjusted for moisture content.

Print Date: 09/13/2012

N.C. Certification # 481

Sample Summary

Client Sample ID	Lab Sample ID	Collected	Received	Matrix
BG-1	31202886001	09/11/2012 14:55	09/11/2012 16:50	Soil-Solid as dry weight
BG-2	31202886002	09/11/2012 15:40	09/11/2012 16:50	Soil-Solid as dry weight

Print Date: 09/13/2012

N.C. Certification # 481

SGS ANALYTICAL PERSPECTIVES

Results of **BG-1**

Client Sample ID: **BG-1**
Client Project ID: **Stancil Property**
Lab Sample ID: 31202886001-A
Lab Project ID: 31202886

Collection Date: 09/11/2012 14:55
Received Date: 09/11/2012 16:50
Matrix: Soil-Solid as dry weight
Solids (%): 82.70

Results by **SW-846 6010C**

Parameter	Result	Qual	DL	LOQ/CL	Units	DF	Date Analyzed
Chromium	**12.2**		0.171	1.19	mg/kg	1	09/12/2012 14:50

Batch Information

Analytical Batch: **MIP1723**
Analytical Method: **SW-846 6010C**
Instrument: **ICP1**
Analyst: **PSW**

Prep Batch: **MXX2296**
Prep Method: **SW-846 3050B**
Prep Date/Time: **09/12/2012 09:45**
Prep Initial Wt./Vol.: **.51 g**
Prep Extract Vol: **50 mL**

Print Date: 09/13/2012

N.C. Certification # 481

SGS ANALYTICAL PERSPECTIVES

Results of **BG-2**

Client Sample ID: **BG-2**
Client Project ID: **Stancil Property**
Lab Sample ID: 31202886002-A
Lab Project ID: 31202886

Collection Date: 09/11/2012 15:40
Received Date: 09/11/2012 16:50
Matrix: Soil-Solid as dry weight
Solids (%): 82.00

Results by **SW-846 6010C**

Parameter	Result	Qual	DL	LOQ/CL	Units	DF	Date Analyzed
Chromium	**9.48**		0.176	1.22	mg/kg	1	09/12/2012 15:01

Batch Information

Analytical Batch: **MIP1723**
Analytical Method: **SW-846 6010C**
Instrument: **ICP1**
Analyst: **PSW**

Prep Batch: **MXX2296**
Prep Method: **SW-846 3050B**
Prep Date/Time: **09/12/2012 09:45**
Prep Initial Wt./Vol.: **.5 g**
Prep Extract Vol: **50 mL**

Print Date: 09/13/2012

N.C. Certification # 481

CHAIN OF CUSTODY

SGS ANALYTICAL PERSPECTIVES
5500 Business Drive
Wilmington, NC 28405
+1 910 350 1903
WWW.SGS.COM

CLIENT:	ARM
CONTACT:	Joe Zuncki **PHONE NO: ( )**
PROJECT:	Stancil Property **SITE / PWSID / WBS #:**
REPORTS TO:	
EMAIL:	ARM
INVOICE TO:	ARM **QUOTE #** **P.O. NUMBER**

SGS Reference #: 312028876

PAGE 1 **OF** 1

LAB NO.	SAMPLE IDENTIFICATION	DATE	TIME	MATRIX	# CONTAINERS	SAMPLE TYPE (C= COMP, G= GRAB)	PRESERVATIVES USED	ANALYSIS REQUIRED: Chromium	REMARKS
	BG-1	9-11-12	1455	Soil	2	G	—	X	
	BG-2	9-11-12	1540	Soil	2	G	—	X	

COLLECTED/RELINQUISHED BY: (1)	**DATE**	**TIME**	**RECEIVED BY:**	**REPORT LEVEL:** ☐ Level I ☐ Level II ☐ Level IV	**REQUESTED TURNAROUND TIME:** ☑ Rush: 48 hr ☐ Standard
	9-11-12	1650			
Relinquished By: (2)	Date	Time	Received By:	**SPECIAL DELIVERABLES:** State of Origin: ☐ Trust Fund	
				☐ DoD ☐ EDD: Other:	
Relinquished By: (3)	Date	Time	Received By:	**SPECIAL INSTRUCTIONS:**	
Received For Laboratory By:	Date	Time	CoC Seal: INTACT BROKEN ABSENT	Shipping Carrier:	Notes:
	9/11/12	1650	Sample Receipt Temp: C 12.7 °C	Shipping Ticket No:	

On ice coming down to Tony

SGS-00055 (06/12)

ANALYTICAL PERSPECTIVES IS NOW PART OF SGS, THE WORLD'S LEADING INSPECTION, VERIFICATION, TESTING AND CERTIFICATION COMPANY.

White - Retained by Lab
Yellow - Retained by Client

SGS North America Inc.

Sample Receipt Checklist (SRC)

Client: **Applied Resource Management** Work Order No.: **31202886**

1. ___ Shipped
   X Hand Delivered

2. X COC Present on Receipt
   ___ No COC
   ___ Additional Transmittal Forms

3. ___ Custody Tape on Container
   X No Custody Tape

4. X Samples Intact
   ___ Samples Broken / Leaking

5. X Chilled on Receipt Actual Temp.(s) in °C: 12.7
   ___ Ambient on Receipt
   X Walk-in on Ice; Coming down to temp.
   ___ Received Outside of Temperature Specifications

6. X Sufficient Sample Submitted
   ___ Insufficient Sample Submitted

7. ___ Chlorine absent
   ___ HNO3 < 2
   ___ HCL < 2
   ___ Additional Preservatives verified (see notes)

8. X Received Within Holding Time
   ___ Not Received Within Holding Time

9. X No Discrepancies Noted
   ___ Discrepancies Noted
   ___ NCDENR notified of Discrepancies*

10. ___ No Headspace present in VOC vials
    ___ Headspace present in VOC vials >6mm

Notes:

Comments:

Inspected and Logged in by: JJ

Date: Wed-9/12/12 00:00

*NCDENR must be notified when collection, holding time or preservation requirements are not met. MI_11.6

Environmental,
Geothermal & Well Drilling

September 12, 2012

NCDENR, DWM
UST Section
Attn.: Ms. Deborah Mayo
127 Cardinal Drive Extension
Wilmington, North Carolina 28405

Re.: Initial Site Assessment Report
Stancil Property
540 Richlands Highways
Jacksonville, North Carolina
Onslow County

Dear Ms. Mayo,

Enclosed please find a copy of the Initial Site Assessment Report for the referenced property. Reportedly, petroleum contamination and heavy metals lead and chromium were initially identified in the soil and groundwater at the site by GeoLogix, Inc. Petroleum constituents were confirmed in soil and groundwater by ARM. Chromium was also confirmed in the soil, although it is believed at this point to be naturally occurring. Heavy metals lead and chromium were found to be compliant in groundwater as confirmed by ARM's testing.

Based on the findings of this investigation, the following recommendations are made:

1. Collect two background soil samples at greater than 250 feet to the north and west of the identified contaminant areas. Analyze soil samples for total chromium and compare results with the State action level and the comprehensive data collected to determine if the chromium is naturally occurring. It should be noted that the confirmation sampling is currently in progress and laboratory results will submitted to the Division upon receipt.

2. Conduct soil abatement activities within and immediately surrounding the hydraulic lift area, and also in the immediate vicinity of B-5, located approximately 100' northwest of the hydraulic lift (See Figure 3). Based on calculations, it is estimated that approximately 2,150 tons of petroleum contaminated soil will require removal or on-site treatment.

3. After excavation activities are complete, collect RBCA confirmation soil

samples from the sidewalls of the excavation areas immediately above the groundwater table. Sample results will be compared with Soil-to-Groundwater Maximum Contaminant Concentration limits for a clean-up goal. Also, upon backfill completion, three monitoring wells should be installed within the excavated areas to determine if residual groundwater contamination remains.

- In the event confirmation soil and groundwater samples are found to be compliant, No Further Action will be requested.

- In the event residual contamination remains, it will be recommended that a Notice of Contaminated Site be filed with the Register of Deeds and a monitoring program be implemented to allow for natural attenuation.

If you have questions or require further information, do not hesitate to call.

Sincerely,

Joseph L. Zuncich
Project Manager/ Environmental Geologist

encs.
cc: Mr. Fred Stancil, President
Stancil Builders, Inc.
466 Stancil Road
Angier, North Carolina 27501