UNDERGROUND STORAGE TANK CLOSURE REPORT

FOR

NCDOT STATE PROJECT: R-2303A WBS ELEMENT: 34416.1.1 DESCRIPTION: NC 24 FROM WEST OF SR 1006 (MAXWELL RD./CLINTON RD.) IN CUMBERLAND COUNTY TO SR 1853 (JOHN NUNNERY RD.)

PARCEL #78 JEFFERY W. SMITH PROPERTY 6809 CLINTON ROAD STEDMAN, CUMBERLAND COUNTY, NORTH CAROLINA 28391

MARCH 19, 2012

PREPARED FOR:



NCDOT GEOTECHNICAL ENGINEERING UNIT-GEOENVIRONMENTAL SECTION 1589 MAIL SERVICE CENTER RALEIGH, NORTH CAROLINA 27699-1589

PREPARED BY:

CATLIN ENGINEERS AND SCIENTISTS P.O. BOX 10279 WILMINGTON, NORTH CAROLINA 28404-0279 (910) 452-5861

CATLIN PROJECT NO. 212004

CORPORATE GEOLOGY LICENSE CERTIFICATION NO. C-118 CORPORATE LICENSURE NO. FOR ENGINEERING SERVICES C-0585

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MARCH 19, 2012

A. GENERAL INFORMATION

1. SITE INFORMATION

1.1 Site Name

NCDOT Proposed Right-of-Way (ROW) Parcel 78 Jeffery W. Smith Property Stedman Hair Care (Current Occupant)

1.2 Facility I.D. Number

Unknown

1.3 Site address, telephone number and county

6809 Clinton Road Stedman, Cumberland County, North Carolina 28391 Telephone: 910-303-1411 (See Figures 1 and 2) Longitude -78.70924° W Latitude 35.01756° N

2. CONTACTS INFORMATION

2.1 Name, address, and telephone number of UST owner and operator

Orphan

2.2 Name, address, telephone number and job title of primary contact person

Mr. Terry Fox, LG NCDOT GeoEnvironmental Section 1589 MSC Raleigh, North Carolina 27699-1589 Telephone: 919-707-6850

2.3 Name, address and telephone number of closure contractor(s)

Mr. Tony Disher EVO Corporation 1703 Vargrave Street Winston-Salem, North Carolina 27107 Telephone: 336-725-5944

2.4 Name, address and telephone number of primary consultant

CATLIN Engineers and Scientists (CATLIN) Attn: G. Richard Garrett, P.G. P.O. Box 10279 Wilmington, North Carolina 28404-0279 Telephone: 910-452-5861

2.5 Name, address and telephone number of soil disposal contractor

ES&J Enterprises, Incorporated 1555 Holland Road Autryville, North Carolina 28318 Telephone: 919-567-6138 NCDENR Permit #: SR0600035

2.6 Name, address, telephone number, and State Certification number of laboratory

SGS North America, Inc. 5500 Business Drive Wilmington, North Carolina 28405 Telephone: 910-350-1903 North Carolina State Certification No. 481

B. SITE HISTORY AND CHARACTERIZATION

Currently this site operates as a hair care salon. Historically the site operated as a gas station. The site is located on the north side of Clinton Road approximately 180 feet west of Blake Road (see Figure 1 for project location). According to the North Carolina Department of Environment and Natural Resource's Underground Storage Tank (NCDENR's UST) Section registry there are no known Facility IDs or Groundwater Incidents associated with this site. The known site history is summarized on Tables 1 and 2.

Acquisition of the right-of-way is necessary for NC 24 roadway construction (above referenced State Project R-2303A) and specifically at the above referenced parcel. A site investigation was conducted by CATLIN in late 2010 resulting in a Preliminary Site Assessment (PSA) Report dated January 7, 2011 (Revised January 12, 2011). Underground storage tanks and contaminated soil in the proposed right-of-way and/or easement were identified at the site.

Three (3) probable USTs were identified during the geophysical survey. Additionally, one possible UST was identified during geophysical data postprocessing. According to the geophysical report, the UST Number 1 is about 550-gallon capacity, is approximately two (2) to three (3) feet below land surface (BLS) and located near the southeast corner of the building. A vent pipe was also identified on the east side of the southeast building corner. The UST Number 2 is about 560-gallon capacity, is approximately two (2) feet BLS and located south of the Stedman Hair Care building. The UST Number 3 is about 270-gallon capacity, is approximately two (2) feet BLS and located east of UST Number 2. A fill port filled with concrete was also located in the UST Number 3 location. Possible UST Number 4 is about 550-gallon capacity, approximately three (3) to four (4) feet BLS, and is located east of UST Number 1.

The facility UST information is summarized on Table 1 (NCDENR Table B-1). The UST owner and operator information is summarized on Table 2 (NCDENR Table B-2).

Eleven (11) borings were advanced during the previous PSA investigation. One (1) sample was collected from each boring for total petroleum hydrocarbon (TPH) diesel and gasoline range organics (DRO and GRO) laboratory analysis. Borings were advanced near the suspected USTs and the former dispenser island. Seven (7) of 11 soil samples revealed detectable TPH concentrations.

According the NCDOT Request for Proposal (RFP) dated January 5, 2012, the current scope of work at the site included excavating and properly disposing of soils necessary for removing the known UST system (including tank contents, associated piping and dispenser material). No over-excavation of petroleum impacted soils was requested.

C. CLOSURE PROCEDURES

1. **PREPARATIONS**

CATLIN was contracted by NCDOT to facilitate roadway construction by removing the UST system at the site (and in the right-of-way). CATLIN performed all field work in accordance with the site *Health and Safety Plan* (available for review at the CATLIN Wilmington Office).

A Notice of Intent (UST-3 form) was submitted to the NCDENR Fayetteville Regional Office February 3, 2012 (see Appendix A). The Cumberland County Emergency Services was notified and a permit was obtained through the Cumberland County Fire Marshal by EVO.

CATLIN and subcontractor EVO personnel mobilized to the site on February 14, 2012.

2. CLOSURE PROCEDURES

The site layout is illustrated on Figure 2. As indicated on Table 1, four (4) tanks and associated dispenser piping were located at the site.

Residual material was pumped from the lines and each UST by a vacuum truck. Each tank was then pressure washed with potable water and pumped dry again. Dry ice was placed in each tank to displace any potentially flammable vapors. EVO personnel measured the inside of the tank for acceptable oxygen and explosive vapor readings prior to removal. The Cumberland County Fire Marshal granted permission to remove the tanks.

The top of the tanks were approximately two (2) feet BLS. Sufficient soils were removed from the tops and sides of the USTs allowing them to be lifted from the excavation. The tanks were constructed of steel. The tanks were previously numbered during the geophysical investigation as 1, 2, 3, and 4 (see Table 1 and Figure 2). All piping was disconnected from the tanks and removed from the site.

All the USTs except UST #4 were found in poor condition with severe rusting, pitting and some broken welds and through holes. There were no broken welds or through holes observed in UST #4.

Excavated soils were loaded directly into dump trucks for off-site disposal. Soils were only removed to facilitate UST system closure. A *Site Investigation Report for Permanent Closure or Change-in-Service of UST (UST-2)* form is included in Appendix B.

3. RESIDUAL MATERIAL AND DISPOSAL

The residual fuel in the fuel lines and tanks removed by the vacuum truck was properly disposed of at a permitted facility. According to the Certificates of Disposal in Appendix C, 730 gallons of product and water were disposed of. As indicated on the Tanks Disposal Certificate in Appendix C, the tanks were transported to Autry Mills Recycling in Roseboro, North Carolina for proper disposal and recycling.

4. SOIL EXCAVATION ACTIVITIES

The top of USTs were approximately two (2) feet BLS. The bottoms of the USTs were approximately six (6) feet BLS. Groundwater was not encountered during tank removal activities. The USTs #1 and #4 were located end to end in the same tank basin. The USTs #2 and #3 were located side by side in the same tank basin. The UST basin excavation limits are illustrated on Figure 2. Excavation activity photographs are provided in Appendix D.

Sandy/clayey soils were encountered surrounding the tanks. Soils from the UST excavation were transported off-site for proper disposal. Soils were only removed as necessary to facility UST system closure. Clean sands from an offsite borrow source were used to backfill the excavation within eight (8) inches of original ground surface. The excavation was backfilled to the surface with at least eight (8) inches of aggregate-coarsebase (ABC) stone. All backfill was emplaced and tamp with the excavator bucket.

D. SITE INVESTIGATION

1. FIELD-SCREENING

Soil screening with a photo-ionization detector was not conducted during this UST closure.

2. SOIL SAMPLING

UST closure soil samples were collected in accordance with NCDENR guidance documents. Grab samples were taken from the excavation floor beneath the tanks at approximately six (6) feet BLS. Samples were identified by UST number, north, south, east, west orientation, and depth [sample identification example = UST#1-W (6'). Soil sample locations are illustrated on Figure 2. Sample material was obtained by the excavator bucket from beneath the former tank locations. Soil samples were packed into the appropriate laboratory provided glassware immediately following collection.

Seven (7) soil samples were submitted to the laboratory for TPH DRO and GRO analysis per Environmental Protection Agency (EPA) Method 8015C. Sample identifications, depths, and times are provided on the Chain-of-Custody in Appendix E.

3. GROUNDWATER SAMPLING

No groundwater samples were collected during this investigation.

4. QUALITY CONTROL MEASURES

Clean disposable nitrile gloves were used for each sampling event. Soil samples were collected by hand from undisturbed material obtained by the excavator bucket and packed directly into new laboratory provided glassware.

All samples were placed into appropriate sample jars with Teflon[®] lid liners, labeled with the site location, date, time, initials of person collecting

sample, sample identification number, depth of sample, and tests required. Samples were then placed on ice in a cooler and maintained at approximately 4° Celsius during storage and transport to the laboratory. A temperature blank and trip blank were preserved in the cooler along with the site samples. A Chain-of-Custody form was maintained from the point of sampling until delivery to the laboratory.

No duplicate samples were submitted for laboratory analysis. According to the attached laboratory report (see Appendix E), the sample results are certified to meet the requirements of the National Environmental Laboratory Accreditation Conference Standards and analytical quality control data is available upon request.

5. **RESULTS**

Photographs of UST removal and backfilling activities are provided in Appendix D. No detectable TPH concentrations were revealed in any UST closure soil samples taken beneath UST #3 and UST #4. The UST closure soil sample collected beneath UST #1 and UST #2 revealed TPH DRO and GRO concentrations above NCDENR Action Level of 10 milligrams per kilogram (mg/kg). The TPH DRO concentrations ranged from a low of 11.7 mg/kg in the UST #1-W (6') to a high of 98.1 mg/kg in the UST #2-S (6') soil sample. The TPH GRO concentrations ranged from a low of 30.5 mg/kg in the UST #1-W (6') sample to a high of 663 mg/kg in the UST #2-S (6') soil sample. Summarized UST system closure results are provided on Table 3 and illustrated on Figure 2.

The complete laboratory analytical report is provided in Appendix E. No groundwater samples were collected during this investigation. Photographs of the final site conditions are provided in Appendix D.

E. SOIL DISPOSAL

The excavated soils were transported to ES&J Enterprises, Inc. in Autryville, North Carolina for proper disposal. According to the documentation provided in Appendix E, 38.44 tons of soils were accepted for disposal/treatment at the facility.

F. SUMMARY, CONCLUSIONS AND RECOMMENDATIONS

The UST closure was completed in general accordance with applicable State and Federal Guidelines to facilitate NCDOT related construction activities. Based on the results of this investigation, residual petroleum impacted soils remain beneath the former UST #1 UST #2 locations. Based on the previous investigation results, TPH impacted also remain around the former UST #3 location. No TPH impacted soil have been revealed during this investigation or the previous investigation around the former UST #4 location.

CATLIN recommends forwarding a copy of this report to the NCDENR Fayetteville Regional Office UST Section with a cover letter indicating the presence of TPH impacted soils above the NCDENR Action Level. Additionally, it is recommended that any utility or roadway construction contractor should be notified of these findings and be advised to be prepared to handle petroleum impacted soils near former USTs #1, #2, and #3 (as identified on Figure 2). In the event a cut is required for roadway construction or utility installation, any soil samples revealing detectable TPH concentrations will be considered petroleum impacted for handling and disposal purposes.

G. LIMITATIONS

This report is based on the agreed work scope and a review of available data from limited sampling. It is possible that this investigation may have failed to reveal the presence of contamination on the subject site where such contamination may exist. Although CATLIN has used accepted methods appropriate for UST closure and contaminated soil removal sampling, CATLIN cannot guarantee that additional soil and/or groundwater contamination does not exist.

H. SIGNATURES



G. Richard Garrett, P.G. Senior Project Manager

Bein SAM

Benjamin J. Ashba Project Manager

TABLES

TABLE 1 SITE HISTORY – UST SYSTEM AND OTHER RELEASE INFORMATION

Incident Number and Name: Pending - Jeffery W. Smith Property 6809 Clinton Rd. Stedman, NC 28391 Facility ID: Unknown

UST ID Number	Current/ Last Contents	Previous Contents	Capacity (gallons)	Construction Details	Tank Dimensions	Description of Associated Piping and Pumps	Date Tank Installed	Status of UST	Was release associated with the UST System?
1	Gasoline (assumed)	Unknown	550	Steel	6.65'x3.75'	Steel	Unknown	Removed Feb. 2012	Yes (assumed)
2	Gasoline (assumed)	Unknown	575	Steel	7.75'x3.55'	Steel	Unknown	Removed Feb. 2012	Yes (assumed)
3	#2 Fuel Oil (assumed)	Unknown	275	Steel	3.25'x3.8'	Steel	Unknown	Removed Feb. 2012	No
4	Gasoline (assumed)	Unknown	1,000	Steel	10'x4.25'	Steel	Unknown	Removed Feb. 2012	No

TABLE 2 SITE HISTORY - UST OWNER AND OPERATOR INFORMATION

Number and Name: Pending-Jeffery W. Smith Prop. 6809 Clinton Rd. Stedman, NC 28391

UST ID Numbers	1, 2, 3, and 4	Facility ID	D Nümber Unknown
Name of Owner		Dates of	Operation
Orphan		Unknown	
Street Address			
City	State	Zip	Telephone Number
Name of Operator		Dates of	Operation
Unknown		Unknown	1
Street Address (Si	te Address)		
6809 Clinton Road	(NC 24)		
City	State	Zip	Telephone Nűmber
Stedman	NC	28391	Stedman Hair Care: 910-483-7386
Incident Number	Pending		
Name of Other Re	sponsible Party	Dates*of	Release(s)
None		Unknown)
Street Address			
City	State	Zip	Telephone Number

NCDOT; Table B-1 & B-2.docx CATLIN Project No. 212004

CATLIN Engineers and Scientists March 2012

TABLE 3 SUMMARY OF SOIL LABORATORY RESULTS - EPA METHOD 8015C

Sample ID	Contai of Co	minant ncern►	e Organics	Эде
Sample in	Date Collected	Sample Depth (ft. BLS)	Diesel Range (DRO)	Gasoline Raı Organics (GRO)
UST#1-W (6ft)	2/14/2012	6	11.7	30.5
UST#1-E (6ft)	2/14/2012	6	21.2	45.4
UST#2-N (6ft)	2/14/2012	6	15.8	78.0
UST#2-S (6ft)	2/14/2012	6	98.1	663
UST#3 (6ft)	2/14/2012	6	<7.15	<3.31
UST#4-W (6ft)	2/14/2012	6	<7.17	<3.43
UST#4-E (6ft)	2/14/2012	6	<7.52	<3.79
NCDENR A	ction Level		10	10

Incident Number and Name: <u>Pending – Jeffery W. Smith Property 6809 Clinton</u> <u>Road Stedman, Cumberland County, NC</u> Facility ID: <u>Unknown</u>

All results in milligrams per kilogram (mg/kg).

ft. BLS = Feet Below Land Surface

NCDENR = North Carolina Department of Environment and Natural Resources

Results in bold exceed the NCDENR Action Level.

< = Less than method detection limit

FIGURES





Sample ID	Contar of Co	ninant ncern►	Organics	nge Organics
	Date Collected	Sample Depth (ft. BLS)	Diesel Range (DRO)	Gasoline Rar (GRO)
JST#1-W (6ft)	2/14/2012	6	11.7	30.5
UST#1-E (6ft)	2/14/2012	6	21.2	45.4
UST#2-N (6ft)	2/14/2012	6	15.8	78.0
UST#2-S (6ft)	2/14/2012	6	98.1	663
UST#3 (6ft)	2/14/2012	6	<7.15	<3.31
JST#4-W (6ft)	2/14/2012	6	<7.17	<3.43
UST#4-E (6ft)	2/14/2012	6	<7.52	<3.79
NCDENR A	ction Level		10	10

APPENDIX A UST-3 FORM

Return complete The DWM Region the status of the t	eted form to: nal Office located in the tank may be changed to	area where the facility is locate "PERMANENTLY CLOSED" a	d. Send a c nd your tan	opy to the fee accou	Central Office In <u>F</u> nt can be closed o	l <u>aleigh</u> so that but.	STATE USE ONLY
SEE MAP ON TH	HE BACK OF THIS FOR	INSTRUCTIO	NS (READ	THIS FIF	DRESSES.		Date Received
Complete and ret	turn at least thirty (30)	dave prior to closure or change	In-service a	othuitles if	Professional En		a Licensed Coolegist /L.C.
provides supervisidays notice is ac	sion for closure or char ceptable.	nge-In-service site assessment	activities ar	id signs ar	id seals all closur	e reports then	at least a five (5) workin
Completed UST of Waste Manage Office In Raleigh	closure or change-In-se ement (DWM) Regional so that the status of the	rvice site assessment reports, a I Office withIn thirty (30) days fo a tanks may be changed to perm	liong with a blowing clos nanently clos	copy of the ure activitie ed and you	UST-2 form, shou as. The UST-2 for ur tank fee account	uld be submitted rm should also t can be closed	I to the appropriate Divisio be submitted to the Centra out.
UST closure and Guidelines for Ta	I change-in-service site ank Closure can be obta	assessments must be completing at www.wastenotnc.org.	ted in accor	dance with	the latest version	n of the <i>Guideli</i>	nes for Tank Closure. Th
You must make a taken for disposa disposed of illega could be held res	sure that USTs remove al. Usually, USTs are c ally in fields or other dur ponsible for the cleanu	d from your property are dispos leaned and cut up for scrap met npsites can leak petroleum prod p of any environmental damage	sed of prope tal. This is o lucts and slu that occurs.	rly. When langerous dge into th	choosing a closu work and must be e environment. If	re contractor, as performed by a your tanks are	sk where the tank(s) will bu qualifled company. Tank disposed of improperly, you
	I. OWNERSHIP	OF TANKS	-		II.	LOCATION	
Owner Name (Co	propration, Individual, P	ublic Agency, or Other Entity)	Faci	ity Name o	r Company		****
Street Address	nall cale /	orphan	Eaci		III Hall Ca	are	
6809 Cli	inton Rd.			Jnknow	n - Orpha	in	
City		County	Stre	et Address	18-0246		AND CAN
<u>Stedman</u>		Cumberland Zip Code	City	5809 Cli	nton Rd.	Country	7in Onda
NC		28391	City	Stedma	an	Cumber1	and 28391
Phone Number	7206		Pho	ne Number			<u>unu</u> 20072
910-483	-/386		TACT DED	910-4	83-7386		C. The New York and the State of the
Name:	10	Company Name:	IACI PER	Job Titl	e:		Phone Number:
Terry	W. Fox, LG	NCDOT			Project	Manager	919-707-6870
	and the second second	TANK HEMUVAL, GLUS	URE IN PL	ACE, CH	ANGE-IN SERV		
2Plan entire c	a fire marshal. closure event.	5. Provide a ske soil sampling 6. Submit a clo	ocations. locations. osure report	in the fo	nks and a as irmat of an	P.E. or L.G sessment repo d seal of the P.	., with all closure site rts bearing the signature E. or L.G. If a release has
A If removing	e Soli Assessment. tanke or closing in plac	UST-12 (inclu	uding the fo	orm UST-2) within no	t occurred, the al of a P.E. or L	 supervision, signature o G. is not required.
	ation 2015 Cleaning I	Petroleum investigation.	days to	owing th	e sne 8. Ke	eo closure reco	rds for three (3) years.
Storage Ta	anks and 1604 Rem	oval and 7. If a release fro	om the tanks	has occur	red, the		
Storage Tar	iks.	site assessme	ent portion o	of the tank	closure		
ale i ana aler e	The second s	Wabic T					
Contractor Name	n an		Contractor	Company	Name:		
	Tony Disher	c in the second s			E	vo	
Address:			State:		Zip Code:	Pho	ne No:
Primary Consulta	o vargrave s	L.	INU Insultant Cou	Doany Nan	2/10/	33	6-725-5844
	Rick Ga	arrett CA	TLIN	indany nan		9	L0-452-5861
Hat 1 Ten aver all the	VI.	TANKS SCHEDULED FO	RELOSU	E OR CH	ANGE IN-SER	/ICE	
			P		Pi	oposed Activity	Obasas la Osadas
Tank ID No.	Size in Gallons	Last Contents		Removal	Abandonment in	Place *	New Contents Stored
1	560	Unknown		x			
2	550	Unknown		ĸ			
3	270	Unknown		X			
4	550	Unknown		X	14		
t Dries written an							
Phor whiten app	proval to abandon a tan	K IN PLACE MUST DE received from	n a DWM Re	gional Offic	CO. DRESENTATIV		
and the province of the second second	I can be held responsit	le for environmental damage re	sulting from	the improp	er disposal of mul		
understand that			amon A non	and unbiob	or arapusar or my		
l understand that		hand Commett T	a	T T 1 P		OED -	
I understand that Print name and o	fficial title: G. Ric	hard Garrett, L.	G.,CAI	LIN P	ROJECT MANA	GER Ag	ent for NCDO

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APPENDIX B

UST-2 Site Investigation Report for Permanent Closure or Change-in-Service of UST

STATE USE ONLY:

Return completed form to:	
The DWM Regional Office located in the area where the facility is located. Send a copy to the Central Office in <u>Raleigh</u> so that	I.D. #
the status of the tank may be changed to "PERMANENTLY CLOSED" and your tank fee account can be closed out.	
SEE MAP ON THE BACK OF THIS FORM FOR THE CENTRAL AND REGIONAL OFFICE ADDRESSES.	Date
INSTRUCTIONS (READ THIS FIRST)	11. 法称

Date Received

For more than five UST systems you may attach additional forms as needed.

Permanent closure - For permanent closure, complete all sections of this form.

Change-in-service - For change-in-service where UST systems will be converted from containing a regulated substance to storing a non-regulated substance, complete sections I, II, III, IV, and VIII

Effective February 1, 1995, all UST closure/change-in-service reports must be submitted in the format provided in the UST-12 form. UST closure and change-in-services must be completed in accordance with the latest version of the *Guidelines for Tank Closure*. A copy of the UST-12 form and the *Guidelines for Tank Closure* can be obtained at www.wastenotnc.org.

You must make sure that USTs removed from your property are disposed of properly. When choosing a closure contractor, ask where the tank(s) will be taken for disposal. Usually, USTs are cleaned and cut up for scrap metal. This is dangerous work and must be performed by a qualified company. Tanks disposed of illegally in fields or other dumpsites can leak petroleum products and sludge into the environment. If your tanks are disposed of improperly, you could be held responsible for the cleanup of any environmental damage that occurs.

NOTE: If a release from the tank(s) has occurred, the site assessment portion of the tank closure must be conducted under the supervision of a P.E. or L.G., with all closure site assessment reports bearing the signature and seal of the P.E. or L.G.

王正成祖族主义	This we will be not	I. OWNERSH	HIP OF TANK	S				OCATIO	N OF TA	NKS	学生的研究的自然	
Owner N Orphan	ame (Corpo	ration, Individua	I, Public Agenc	y, or Other E	intity)	Facility Name or Jeffery W. Smith,	Company Stedman	Haircare -	Proposed	I NCDO	TROW	
Street Ad	ldress					Facility ID # (If kn Unknown	iown)					
City			Count	у		Street Address 6809 Clinton Boa	d					
State			Zip Co	ode		City Stedman			County	and	Zip Code 28391	1000
Phone N	umber	- 18				Phone Number						
And Carls Sale			1		CONTACT	PERSONNEL	Sand Socks	14 S. F. G.	The Least	CONT OF		
Contact	for Facility:					Job Title:	in analysis an other			F	Phone. No:	
Closure	x, LG Contractor N	ame.	Closure C	Contractor Co	mnanv:	Address	DEnvironm	ental Proj.	Mgr.	9	219-707-6869 2505 No:	
Tony Dis	her		EVO		inpany.	1703 Vargra	ve St. Win	ston-Sale	m, NC	3	336-725-5844	
Primary Rick Gar	Consultant N rett, P.G.	lame:	Primary C CATLIN E	Consultant Co Engineers & S	mpany: Scientists	Address: 220 Old Dai	ry Rd. Wilr	nington, N	С	F	Phone. No: 10-452-5861	
	IV. UST	INFORMATI	ON FOR REG	ISTERED	UST SYSTE	MS		V. EX	CAVATIO	DN CO	NDITION	
Tank ID No.	Size in Gallons	Tank Dimensions	Last Contents	Last Use Date	Permanen Close Dat	nt Change-in- e Service	Wat excav	er in vation	Fr pro	ee duct	Notable od soil conta	or or visible mination
						Date	165		Tes		103	
1	550	6.65'x3.75'	Gasoline, Ga	Unknown	2/14/12							
2	575	7.75'x3.55"	Gasoline, Ga	Unknown	2/14/12							
3	275	3.25'x3.8'	Unknown	Unknown	2/14/12			\boxtimes				
4	1000	10'x4.25'	Gasoline, Ga	Unknown	2/14/12			\square				\boxtimes
Marriel (M	VI. UST I	NFORMATIO	N FOR UNRE	GISTERED	DUST SYST	EMS		VII. E)	CAVATI	ON CO	NDITION	
Tank ID No.	Size in Gallons	Tank Dimensions	Last Contents	Last Use Date	Permanent Close Date	Tank Owner Name *	Wat excav	er in vation	Fr pro	ee duct	Notable od soil conta	or or visible
					<u> </u>							
					· · · · · · · · ·							
* If the ta	ink owner ad	Idress is differen	nt from the one	listed in Sect	tion I., then en	ter the street add	ess, city, s	tate, zip c	ode and te	elephone	e no. below:	
VIII. CE	HTIFICAT	ION				a di San (1972), italia	New March		Real Particular		and the second second	
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Print nar G. Richar	ne and officiand Garrett, P.C	al title of owner G.: CATLIN agen	or owner's auth t for NCDOT	orized repres	sentative	Signature	lana	4			Date Signe 3/14/2012	d

UST-2 Rev 11/2006

APPENDIX C

CERTIFICATES OF DISPOSAL AND WASTE MATERIAL MANIFESTS



1703 Vargrave Street Winston-Salem, NC 27107 ph 336-725-5844 fax 336-725-6244

TANK DISPOSAL CERTIFICATE

Tank Owner: NCDOT/Stedman Hair Care

Site Address: 6809 Clinton Road Stedman, NC

Description of Tanks:

Tank Number	Size of Tank	<u>Contents</u>
1	550 gallons	Gasoline
2	575 gallons	Gasoline
3	275 gallons	#2 Fuel Oil
4	1,000 gallons	Gasoline

Transporter: Evo Corporation

EC Project #: 021206

Disposal Certification:

Evo Corporation does hereby certify that the above named storage tanks were transported to Autry Mills Recycling in Roseboro, NC for proper disposal and recycling.

K. Hamet

Signature

Thomas W. Hammett CEO Evo Corporation

www.evocorp.net THE NEXT LEVEL.



www.evocorp.net THE NEXT LEVEL.

1703 Vargrave Street Winston-Salem, NC 27107 ph 336-725-5844 fax 336-725-6244

CERTIFICATE OF DISPOSAL

Evo Corporation does hereby certify that 38.44 tons of non-hazardous contaminated material received on 02/14/2012 from:

Generator:

NCDOT/Stedman Hair Care

Originating at:

6809 Clinton Rd. Stedman, NC

EC Waste ID #: 021206

has been disposed of by Evo Corporation in a manner approved by the North Carolina Department of Environment and Natural Resources.

now W. Hames

Signature

Thomas W. Hammett CEO Evo Corporation



1703 Vargrave Street Winston-Salem, NC 27107 ph 336-725-5844 fax 336-725-6244

CERTIFICATE OF DISPOSAL

Evo Corporation does hereby certify that 730 gallons of non-hazardous contaminated water received on 02/14/2012 from:

Generator:

NCDOT/Stedman Hair Care

Originating at:

6809 Clinton Rd. Stedman, NC

EC Waste ID #: 021206

has been disposed of by Evo Corporation in a manner approved by the North Carolina Department of Environment and Natural Resources.

W. Hannes

Signature

Thomas W. Hammett CEO Evo Corporation

www.evocorp.net THE NEXT LEVEL.

WASTE MANIFEST									
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7. Transporter 2 Company Nan	ne					U.S. EPA I) Number		
Designated Facility Name an	nd Site Address						Mumber		
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acility's Phone: (910) 5	87-6138					harmon		-	
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4. 3. Special Handling Instruction: A. GENERATOR'S/OFFEROR' marked and labeled/placarde enerator's/Offeror's Printed/Type i. International Shipments ansporter Signature (for export . Transporter Acknowledgmen ansporter 1 Printed/Typed Nan . Discrepancy a. Discrepancy a. Discrepancy b. Alternate Facility (or General cility's Phone: 2. Signature of Alternate Facilit	s and Additional Information S CERTIFICATION: I hereby declare d, and are in all respects in proper co red Name Import to U.S. s only: of Receipt of Materials re C_A re Quantity or) r (or Generator)	that the contents of this notition for transport according Type	consignment are f ording to applicable Signa	fully and accurately des e international and nati- ture . Port of er Date lear ture . Port of er Date lear ture	scribed above I lonal governme ntry/exit: ving U.S.: Vineen	by the proper ship antal regulations. 202 Partial Rej U.S. EPA ID I	pping name, . 13/6 ection Number	and are classifie Month	d, package Day Day Day Full Reject	
4. 3. Special Handling Instruction: b. GENERATOR'S/OFFEROR' marked and labeled/placarde enerator's/Offeror's Printed/Type i. International Shipments ansporter Signature (for export i. Transporter Acknowledgmen ansporter 1 Printed/Typed Nan International Shipments ansporter 2 Printed/Typed Nan Discrepancy a. Discrepancy b. Alternate Facility (or General cility's Phone: c. Signature of Alternate Facilit Designated Facility Owner or	s and Additional Information S CERTIFICATION: I hereby declare d, and are in all respects in proper co red Name Import to U.S. s only): of Receipt of Materials re C-4 re Quantity or) (or Generator) Derator: Certification of receipt of materials	that the contents of this notition for transport according Type	consignment are f ording to applicabl Signe DExport from U.S. Signa Signa	fully and accurately des e international and nati- ture Port of er Date lear ture Residue Manifest Reference I Nanifest Reference I	scribed above I lonal governme ntry/exit: ving U.S.: Vineen	by the proper ship antal regulations. 202 Deartial Rej U.S. EPA ID I	pping name, . 13/6 ection Number	and are classifie Month	d, package Day Day Day Full Reject	

TRANSPORTER #1



EVO COF 1703 Vargrave Street www. NON-HAZARDOUS	RPORATION , Winston-Salem, NC 27107 evocorp.net MATERIALS MANIFEST
Load #	Manifest No. 73593
GENERATO	RINFORMATION
Generator:NCDOT/Stedman HairSite Address:6809 Clinton RoadCity/State:Stedman, NC 28391	Care Phone: 919-707-6870 Contact. Contact.
MATERIAL DESCRIPT	ION / QUANTITY / WEIGHT
Gross Weight (lbs):	aterial: Water
Empty Weight (lbs):	Gas/Diesel/Heating Oil
Net Weight (lbs):	
Quantity 730 To	ns Drums Pails Sacs Yards Other: <u>64/</u>
TRANSPORT	ER INFORMATION
Transporter: Evo Corporation	Phone: 336-725-5844
Truck #:402	Contact Ony Disher
As the transporter, I certify that the materials dea materials manifest are properly classified, packaged, in commerce under the applicable regulations gover delivery to the facility designate.	scribed above being shipped under this non-hazardous labeled, secured and are in proper condition for transport rning transportation, and I hereby receive this material for Date: 2//4//2
FACILITY	INFORMATION
EVO CORPORATION 1703 Vargrave Street Winston-Salem, NC 27107	021206 Evo Project #: Phone: (336) 725-5844 Contact: Tony Disher
I certify that the carrier has delivered the materials material for treatment and/or disposal in a manner that	described above to this facility, and I hereby accept this at has been authorized by the State of North Carolina.
Facility Signature:	Date: 02/14/12
White/Facility Canary/Invoice	Goldenrod/Generator Pink/Carrier
Evo Corporation, 2008	

E 1703 Va	/O CORPORA rgrave Street, Winston-S www.evocorp.net	ATION alem, NC 27107
Load #		Manifest No. 73593
Generator: <u>NCDOT/Sted</u> Site Address: <u>6809 Clinton</u> City/State: <u>Stedman, WC</u>	man Hair Care Road 28391	Phone: 919-707-6870 Contact:
MATERIA	AL DESCRIPTION / QUAN	ITITY / WEIGHT
Gross Weight (lbs):	Material:	Y a Water Yang Angelan
Empty Weight (Ibs):	Contaminant:	Gas/Diesel/Heating Oil
Net Weight (lbs): Quantity 730	Tons Drums	Pails Sacs Yards Other:
	TRANSPORTER INFORM	ATION
Transporter: Evo Corporat	ion	336-725-5844 Phone:
Truck #:		Contact. Tony Disher
As the transporter, I certify that the materials manifest are properly classi in commerce under the applicable redelivery to the facility designate.	e materials described above fied, packaged, labeled, seco gulations governing transpor	being shipped under this non-hazardous ured and are in proper condition for transport tation, and I hereby receive this material for Date:
	FACILITY INFORMATI	ON
	E	vo Project #:
EVO CORPORATION 1703 Vargrave Street	P	hone: (336) 725-5844
Winston-Salem, NC 27107	C	Contact: <u>Tony Disher</u>
I certify that the carrier has delivered material for treatment and/or disposal	the materials described ab in a manner that has been a	ove to this facility, and I hereby accept this uthorized by the State of North Carolina.
Facility Signature:	~	Date: 02/14/12
White/FacilityCanaEvo Corporation, 2008	ary/Invoice G	oldenrod/Generator Pink/Carrier

APPENDIX D

PHOTOGRAPHS

NCDOT; R2303A_Parcel78_UST.docx CATLIN Project No. 212004 CATLIN Engineers and Scientists March 2012

Parcel 78 – Jeffery W. Smith Property 6809 Clinton Road – Stedman, NC February 14, 2012



Looking West, UST #1 in background, UST #4 being removed.



Looking Northeast, UST #3 on far right, UST #2 being removed.

Parcel 78 – Jeffery W. Smith Property 6809 Clinton Road – Stedman, NC February 14, 2012



State Project: R-2303A WBS Element: 34416.1.1

Parcel 78 – Jeffery W. Smith Property 6809 Clinton Road – Stedman, NC February 14, 2012



Looking Northeast across backfilled UST #2 and UST #3 former locations.

APPENDIX E

LABORATORY ANALYTICAL REPORTS AND CHAIN-OF-CUSTODY DOCUMENTATION



Laboratory Report of Analysis

To: Ben Ashba RICHARD CATLIN & ASSOCIATES P.O. Box 10279 Wilmington, NC 28404

Report Number: 31200396

Client Project: NCDOT Stedman Hair Care

Dear Ben Ashba,

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 Barbara A. Hager 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.

Bailara S. Hager

Barbara A. Hager 2012.02.22 15:07:33 -05'00'

Date

Barbara A. Hager Project Manager barbara.hager@sgs.com

Print Date: 02/22/2012

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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 в Analyte was detected in the Lab Method Blank at a level above the LOQ U Undetected (Reported as ND or < DL) ν Recovery is below quality control limit. The data has been validated based on a favorable signal-to-noise and detection limit Α Amount detected is less than the Lower Method Calibration Limit J Estimated Concentration. 0 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 Ε 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) L 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 ĸ Result is estimated due to ion ratio failure in High Resolution PCB Analysis Ρ RPD > 40% between results of dual columns D Spike or surrogate was diluted out in order to achieve a parameter result within instrument calibration rande 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 M2 Software did not integrate peak M3 Incorrect baseline construction (i.e. not all of peak included; two peaks integrated as one) Pattern integration required (i.e. DRO, GRO, PCB, Toxaphene and Technical Chlordane) M4 M5 Other - Explained in case narrative Results pages that include a value for "Solids (%)" have been adjusted for moisture content. Note

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		Sample Summary		
Client Sample ID	Lab Sample ID	<u>Collected</u>	Received	Matrix
UST#1-W (6ft)	31200396001	02/14/2012 14:45	02/15/2012 12:20	Soil-Solid as dry weight
UST#1-E (6ft)	31200396002	02/14/2012 14:50	02/15/2012 12:20	Soil-Solid as dry weight
UST#2-N (6ft)	31200396003	02/14/2012 14:30	02/15/2012 12:20	Soil-Solid as dry weight
UST#2-S (6ft)	31200396004	02/14/2012 14:35	02/15/2012 12:20	Soil-Solid as dry weight
UST#3 (6ft)	31200396005	02/14/2012 14:40	02/15/2012 12:20	Soil-Solid as dry weight
UST#4-W (6ft)	31200396006	02/14/2012 14:55	02/15/2012 12:20	Soil-Solid as dry weight
UST#4-E (6ft)	31200396007	02/14/2012 15:00	02/15/2012 12:20	Soil-Solid as dry weight

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Results of UST#1-W (6ft)

Client Sample ID: UST#1-W (6ft) Client Project ID: NCDOT Stedman Halr Care Lab Sample ID: 31200396001-A Lab Project ID: 31200396 Collection Date: 02/14/2012 14:45 Received Date: 02/15/2012 12:20 Matrix: Soil-Solid as dry weight Solids (%): 83.90

Results by SW-846 8015C GRO

Result	Qual	DL	LOQ/CL	<u>Units</u>	DF	Date Analyzed
30.5		3.38	3.38	mg/kg	1	02/16/2012 20:35
107			70.0-130	%	o 1	02/16/2012 20:35
		F	rep Batch: VXX2	783		
ic gro		F	rep Method: SW	-846 5035		
		F	rep Date/Time: 0	2/16/2012 1	0:25	
		F	rep Initial Wt./Vol	.: 7.06 g		
2 20:35		P	rep Extract Vol:	5 mL		
	Result 30.5 107 5C GRO 2 20:35	Result Qual 30.5 107 50 GRO 2 20:35	Result Qual DL 30.5 3.38 107 5C GRO P P 2 20:35 P	ResultQualDLLOQ/CL30.53.383.3810770.0-1305C GROPrep Batch: VXX2Prep Method:SWPrep Date/Time:0Prep Initial Wt./VolPrep Extract Vol:2 20:35Prep Extract Vol:	Result Qual DL LOQ/CL Units 30.5 3.38 3.38 mg/kg 107 70.0-130 % Prep Batch: VXX2783 Prep Method: SW-846 5035 Prep Date/Time: 02/16/2012 Prep Initial Wt./Vol.: 7.06 g Prep Extract Vol: 5 mL	ResultQualDLLOQ/CLUnitsDF30.53.383.38mg/kg110770.0-130%1Prep Batch: VXX2783 Prep Method: SW-846 5035 Prep Date/Time: 02/16/2012 10:25 Prep Initial Wt./Vol.: 7.06 g2 20:35Prep Extract Vol: 5 mL

Print Date: 02/22/2012

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Results of UST#1-W (6ft)

Client Sample ID: UST#1-W (6ft) Client Project ID: NCDOT Stedman Hair Care Lab Sample ID: 31200396001-C Lab Project ID: 31200396 Collection Date: 02/14/2012 14:45 Received Date: 02/15/2012 12:20 Matrix: Soil-Solid as dry weight Solids (%): 83.90

Results by SW-846 8015C DRO

<u>Parameter</u> Diesel Range Organics (DRO)	<u>Result</u> 11.7	Qual	<u>DL</u> 7.02	<u>LOQ/CL</u> 7.02	<u>Units</u> mg/kg	DF 1	Date Analyzed 02/16/2012 20:14
Surrogates							
o-Terphenyl	82.6			40.0-140	%	s 1 == 8	02/16/2012 20:14
Batch Information							
Analytical Batch: XGC1923				Prep Batch: XXX2	241		
Analytical Method: SW-846 80	15C DRO			Prep Method: SW-	-846 3541		
Instrument: GC6				Prep Date/Time: 0	2/16/2012	10:16	
Analyst: DTF				Prep Initial Wt./Vol	. 33.97 g		
Analytical Date/Time: 02/16/20	12 20:14			Prep Extract Vol:	10 mL		

Print Date: 02/22/2012

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Results of UST#1-E (6ft)

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Client Sample ID: UST#1-E (6ft) Client Project ID: NCDOT Stedman Hair Care Lab Sample ID: 31200396002-A Lab Project ID: 31200396 Collection Date: 02/14/2012 14:50 Received Date: 02/15/2012 12:20 Matrix: Soil-Solid as dry weight Solids (%): 84.60

Results by SW-846 8015C GRO

Lagrant and the second s	And in case of the local division of the loc	and the second se					
Parameter	<u>Result</u>	Qual	DL	LOQ/CL	<u>Units</u>	DF	Date Analyzed
Gasoline Range Organics (GRO)	45.4		13.3	13.3	mg/kg	4	02/20/2012 12:56
Surrogates							
4-Bromofluorobenzene	100			70.0-130	%	4	02/20/2012 12:56
Batch Information							
Analytical Batch: VGC1686				Prep Batch: VXX2	797		
Analytical Method: SW-846 8015C	GRO			Prep Method: SW	-846 5035		
Instrument: GC7				Prep Date/Time: 0	2/20/2012	08:55	
Analyst: MDY				Prep Initial Wt./Vol	. 7.13 g		
Analytical Date/Time: 02/20/2012	12:56			Prep Extract Vol:	5 mL		

Print Date: 02/22/2012

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Results of UST#1-E (6ft)

Client Sample ID: UST#1-E (6ft) Client Project ID: NCDOT Stedman Hair Care Lab Sample ID: 31200396002-C Lab Project ID: 31200396 Collection Date: 02/14/2012 14:50 Received Date: 02/15/2012 12:20 Matrix: Soil-Solid as dry weight Solids (%): 84.60

Results by SW-846 8015C DRO

the second se							
Parameter	<u>Result</u>	Qual	DL	LOQ/CL	<u>Units</u>	DE	Date Analyzed
Diesel Range Organics (DRO)	21.2		6.99	6.99	mg/kg	1	02/16/2012 20:42
Surrogates							
o-Terphenyl	77.6			40.0-140	%	1	02/16/2012 20:42
Batch Information	2.153.16		S				
Analytical Batch: XGC1923			P	rep Batch: XXX2	241		
Analytical Method: SW-846 80	15C DRO		P	rep Method: SW	-846 3541		
Instrument: GC6			P	rep Date/Time: (2/16/2012 1	0:16	
Analyst: DTF			P	rep Initial Wt./Vol	: 33.79 g		
Analytical Date/Time: 02/16/20	12 20:42		P	rep Extract Vol:	10 mL		
		11 11 11					

Print Date: 02/22/2012

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Results of UST#2-N (6ft)

SGS

Client Sample ID: UST#2-N (6ft) Client Project ID: NCDOT Stedman Hair Care Lab Sample ID: 31200396003-A Lab Project ID: 31200396 Collection Date: 02/14/2012 14:30 Received Date: 02/15/2012 12:20 Matrix: Soil-Solid as dry weight Solids (%): 81.90

Results by SW-846 8015C GRO

Recard by one of ore offer one		in the second se					
Parameter	<u>Result</u>	Qual	DL	LOQ/CL	<u>Units</u>	DF	Date Analyzed
Gasoline Range Organics (GRO)	78.0		17.4	17.4	mg/kg	5	02/20/2012 12:30
Surrogates							
4-Bromofluorobenzene	102			70.0-130	%	5	02/20/2012 12:30
Batch Information							
Analytical Batch: VGC1686			F	Prep Batch: VXX2	797		
Analytical Method: SW-846 801	5C GRO		F	Prep Method: SW	-846 5035		
Instrument: GC7			F	Prep Date/Time: 0	02/20/2012 0	8:56	
Analyst: MDY			F	Prep Initial Wt./Vol	.: 7.03 g		
Analytical Date/Time: 02/20/201	2 12:30		F	Prep Extract Vol:	5 mL		

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Results of UST#2-N (6ft)

Client Sample ID: UST#2-N (6ft) Client Project ID: NCDOT Stedman Hair Care Lab Sample ID: 31200396003-C Lab Project ID: 31200396 Collection Date: 02/14/2012 14:30 Received Date: 02/15/2012 12:20 Matrix: Soil-Solid as dry weight Solids (%): 81.90

Results by SW-846 8015C DRO

<u>Parameter</u> Diesel Range Organics (DRO)	<u>Result</u> 15.8	Qual	<u>DL</u> 7.52	LOQ/CL 7.52	<u>Units</u> mg/kg	DF 1	Date Analyzed 02/16/2012 21:10
Surrogates							
o-Terphenyl	70.0			40.0-140	%	1	02/16/2012 21:10
Batch Information							
Analytical Batch: XGC1923				Prep Batch: XXX2	241		
Analytical Method: SW-846 80	15C DRO			Prep Method: SW-	-846 3541		
Instrument: GC6				Prep Date/Time: 0	2/16/2012	10:16	
Analyst: DTF				Prep Initial Wt./Vol	: 32.45 g		
Analytical Date/Time: 02/16/20	12 21:10			Prep Extract Vol:	10 mL		

Print Date: 02/22/2012

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Results of UST#2-S (6ft)

SGS

Client Sample ID: UST#2-S (6ft) Client Project ID: NCDOT Stedman Hair Care Lab Sample ID: 31200396004-A Lab Project ID: 31200396 Collection Date: 02/14/2012 14:35 Received Date: 02/15/2012 12:20 Matrix: Soil-Solid as dry weight Solids (%): 87.90

Results by SW-846 8015C GRO

	and the second se						
Parameter	Result	Qual	DL	LOQ/CL	Units	DE	Date Analyzed
Gasoline Range Organics (GRO)	663		119	119	mg/kg	40	02/20/2012 12:04
Surrogates							
4-Bromofluorobenzene	103			70.0-130	%	40	02/20/2012 12:04
Batch Information	-1				-		
Analytical Batch: VGC1686				Prep Batch: VXX2	2797		
Analytical Method: SW-846 801	5C GRO		1	Prep Method: SW	-846 5035		
Instrument: GC7				Prep Date/Time: 0	02/20/2012 (08:56	
Analyst: MDY				Prep Initial Wt./Vo	l.: 7.67 g		
Analytical Date/Time: 02/20/201	12 12:04			Prep Extract Vol:	5 mL		

Print Date: 02/22/2012

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Results of UST#2-S (6ft)

Client Sample ID: UST#2-S (6ft) Client Project ID: NCDOT Stedman Hair Care Lab Sample ID: 31200396004-C Lab Project ID: 31200396 Collection Date: 02/14/2012 14:35 Received Date: 02/15/2012 12:20 Matrix: Soil-Solid as dry weight Solids (%): 87.90

Results by SW-846 8015C DRO

the second secon							
Parameter	Result	Qual	DL	LOQ/CL	<u>Units</u>	DF	Date Analyzed
Diesel Range Organics (DRO)	98.1		6.92	6.92	mg/kg	1	02/16/2012 21:38
Surrogates							
o-Terphenyl	79.5			40.0-140	%	1	02/16/2012 21:38
Batch Information							
Analytical Batch: XGC1923				Prep Batch: XXX2	241		
Analytical Method: SW-846 80	15C DRO			Prep Method: SW	-846 3541		
Instrument: GC6				Prep Date/Time: 0	2/16/2012 1	0:16	
Analyst: DTF				Prep Initial Wt./Vol	.: 32.86 g		
Analytical Date/Time: 02/16/20	12 21:38			Prep Extract Vol:	10 mL		

Print Date: 02/22/2012

SGS North America Inc.

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Results of UST#3 (6ft)

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Client Sample ID: UST#3 (6ft) Client Project ID: NCDOT Stedman Hair Care Lab Sample ID: 31200396005-A Lab Project ID: 31200396 Collection Date: 02/14/2012 14:40 Received Date: 02/15/2012 12:20 Matrix: Soil-Solid as dry weight Solids (%): 87.20

Results by SW-846 8015C GRO

Parameter	Result	Qual	DL	LOQ/CL	Units	DF	Date Analyzed
Gasoline Range Organics (GRO)	ND	U	3.31	3.31	mg/kg	1	02/20/2012 13:22
Surrogates							
4-Bromofluorobenzene	102			70.0-130	%	1	02/20/2012 13:22
Batch Information							
Analytical Batch: VGC1686				Prep Batch: VXX2	797		
Analytical Method: SW-846 801	5C GRO			Prep Method: SW	-846 5035		
Instrument: GC7				Prep Date/Time: 0	2/20/2012 0	8:56	
Analyst: MDY				Prep Initial Wt./Vol	.: 6.93 g		
Analytical Date/Time: 02/20/201	2 13:22			Prep Extract Vol:	5 mL		

Print Date: 02/22/2012

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Results of UST#3 (6ft)

SGS

Client Sample ID: UST#3 (6ft) Client Project ID: NCDOT Stedman Hair Care Lab Sample ID: 31200396005-C Lab Project ID: 31200396 Collection Date: 02/14/2012 14:40 Received Date: 02/15/2012 12:20 Matrix: Soil-Solid as dry weight Solids (%): 87.20

Results by SW-846 8015C DRO

Parameter Dissel Bange Organice (DBO)	Result	<u>Qual</u>	<u>DL</u>	LOQ/CL 7.15	<u>Units</u>	DF 1	Date Analyzed
Diesel Range Organics (DRO)	ND	U	7.15	7,15	mg/kg		02/10/2012 22:07
Surrogates							
o-Terphenyl	78.1			40.0-140	%	1	02/16/2012 22:07
Batch Information							
Analytical Batch: XGC1923			Р	rep Batch: XXX2	2241		
Analytical Method: SW-846 80	15C DRO		P	rep Method: SW	-846 3541		
Instrument: GC6			P	rep Date/Time: (02/16/2012 ·	10:16	
Analyst: DTF			P	rep Initial Wt./Vo	l.: 32.09 g		
Analytical Date/Time: 02/16/20	012 22:07		P	rep Extract Vol:	10 mL		

Print Date: 02/22/2012

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Results of UST#4-W (6ft)

Client Sample ID: UST#4-W (6ft) Client Project ID: NCDOT Stedman Hair Care Lab Sample ID: 31200396006-A Lab Project ID: 31200396 Collection Date: 02/14/2012 14:55 Received Date: 02/15/2012 12:20 Matrix: Soil-Solid as dry weight Solids (%): 84.20

Results by SW-846 8015C GRO

have been a second s							
Parameter	Result	Qual	DL	LOQ/CL	<u>Units</u>	DF	Date Analyzed
Gasoline Range Organics (GRO)	ND	U	3.43	3.43	mg/kg	1	02/20/2012 13:49
Surrogates							
4-Bromofluorobenzene	104			70.0-130	%	1	02/20/2012 13:49
Batch Information							
Analytical Batch: VGC1686			Р	rep Batch: VXX2	2797		
Analytical Method: SW-846 8015C GRO			P	rep Method: SW			
Instrument: GC7			Р	rep Date/Time: (02/20/2012 0	8:57	
Analyst: MDY			P	rep Initial Wt./Vo	l.: 6.93 g		
Analytical Date/Time: 02/20/201	2 13:49		P	rep Extract Vol:	5 mL		

Print Date: 02/22/2012

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Results of UST#4-W (6ft)

Client Sample ID: UST#4-W (6ft) Client Project ID: NCDOT Stedman Hair Care Lab Sample ID: 31200396006-C Lab Project ID: 31200396 Collection Date: 02/14/2012 14:55 Received Date: 02/15/2012 12:20 Matrix: Soil-Solid as dry weight Solids (%): 84.20

Results by SW-846 8015C DRO

Parameter	Result	Qual	DL	LOQ/CL	<u>Units</u>	DF	Date Analyzed
Diesel Range Organics (DRO)	ND	U	7.17	7.17	mg/kg	1	02/16/2012 22:35
Surrogates							
o-Terphenyl	80.8			40.0-140	%	1	02/16/2012 22:35
Batch Information							
Analytical Batch: XGC1923				Prep Batch: XXX2	241		
Analytical Method: SW-846 80	15C DRO			Prep Method: SW	-846 3541		
Instrument: GC6				Prep Date/Time: 0	2/16/2012 1	0:16	
Analyst: DTF				Prep Initial Wt./Vol	33.13 g		
Analytical Date/Time: 02/16/20	12 22:35			Prep Extract Vol:	10 mL		

Print Date: 02/22/2012

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Results of UST#4-E (6ft)

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Client Sample ID: UST#4-E (6ft) Client Project ID: NCDOT Stedman Hair Care Lab Sample ID: 31200396007-A Lab Project ID: 31200396 Collection Date: 02/14/2012 15:00 Received Date: 02/15/2012 12:20 Matrix: Soil-Solid as dry weight Solids (%): 79.20

Results by SW-846 8015C GRO

	the second se						
Parameter	Result	Qual	DL	LOQ/CL	<u>Units</u>	DF	Date Analyzed
Gasoline Range Organics (GRO)	ND	U	3.79	3.79	mg/kg	1	02/20/2012 14:14
Surrogates							
4-Bromofluorobenzene	102			70.0-130	%	1	02/20/2012 14:14
Batch Information						_	
Analytical Batch: VGC1686			F	Prep Batch: VXX2	2797		
Analytical Method: SW-846 801	5C GRO		F	Prep Method: SW	-846 5035		
Instrument: GC7			F	Prep Date/Time: (02/20/2012 0	8:57	
Analyst: MDY			F	Prep Initial Wt./Vo	l.: 6.67 g		
Analytical Date/Time: 02/20/201	2 14:14		F	Prep Extract Vol:	5 mL		

Print Date: 02/22/2012

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Results of UST#4-E (6ft)

Client Sample ID: UST#4-E (6ft) Client Project ID: NCDOT Stedman Hair Care Lab Sample ID: 31200396007-C Lab Project ID: 31200396 Collection Date: 02/14/2012 15:00 Received Date: 02/15/2012 12:20 Matrix: Soil-Solid as dry weight Solids (%): 79.20

Results by SW-846 8015C DRO

<u>Parameter</u> Diesel Range Organics (DRO)	<u>Result</u> ND	<u>Qual</u> U	<u>DL</u> 7.52	LOQ/CL 7.52	<u>Units</u> mg/kg	<u>DF</u> 1	Date Analyzed 02/16/2012 23:03
Surrogates							
o-Terphenyl	76.9			40.0-140	%	g 1 = 6 - 6	02/16/2012 23:03
Batch Information							
Analytical Batch: XGC1923			_	Prep Batch: XXX2	241		
Analytical Method: SW-846 80	15C DRO		1	Prep Method: SW	-846 3541		
Instrument: GC6			- 1	Prep Date/Time: (02/16/2012 1	0:16	
Analyst: DTF			15.51	Prep Initial Wt./Vo	.: 33.59 g		
Applicational Data (Times, 02/40/00	12 23.03			Pren Extract Vol	10 ml		

Print Date: 02/22/2012

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	CONTACT: BUT ASHD& CCARUN PHONE NO: (9/0) 952-5861				61				
	PROJECT: NCDOT Stedmin Hair Cale SITE/PWSID#: Pirce H78					ROCAY	No	SAMPLE TYPE	E Used NOV 100
	REPORTS TO:		her.g.ch	bal cotto	nusa Lon	1	C	~	Required / / / / / /
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ſ	INVOICE TO:		QUOTE #	· NCOOT	, besEn	iro	Á	G≕ GRAB	
	NCOOT	beo thviro		34416.1. TIP: R	-2303A		N E		
Ĭ	LAB NO.	SAMPLE IDENTIFIC	CATION	DATE	TIME	MATRIX	R. S		
		UST#1-W(6'))	2.14.12	1445	Soil	3	G	V V All samples
		UST#1-E16)	<u> </u>	1450			Ĩ	111 Inter Hor
		UST#Z-N(6))		1430				
		UST#2-5(6))		1435				
		UST#3(6')	-		1440				
		UST#4-W(6	<u>')</u>		1455				
		UST#4- E(6	<u>, ()</u>	Y_	1500	X	V	Y	
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(5				\cup					
Ĭ	Collected/Relin	quished By:(1)	Date	Time	Received B	iy:	2	$\overline{}$	Shipping Carrier: Samples Received Cold? (Circle) YES NO
	KIMA	5/h	215/2	1220		X	5	\sum	Shipping Ticket No: Temperature °C:
	Relinguished B	iy". (2)	Date	Time (Received B	ly:			Special Deliverable Requirements: Chain of Custody Seal: (Circle)
									SUMMARY EDP INTACT BROKEN ABSENT
	Relinquished B	iy: (3)	Date	Time	Received B	y:			Special Instructions:
	Deline deline del								
	Reinquished B	y: (4)	Date	Time	Received B	y:			Requested Turnaround Time:
									Date Needed
2.5			Constraint of the local distance of the loca			1		1000	

D 200 W. Potter Drive Anchorage, AK 99518 Tel: (907) 562-2343 Fax: (907) 561-5301 \$5500 Business Drive Wilmington, NC 28405 Tel: (910) 350-1903 Fax: (910) 350-1557

SGS North America Inc.

Sample Receipt Checklist (SRC)

Client:	NCDOT-Catlin	Work Order No.:	31200396
1.	Shipped x Hand Delivered	Notes:	
2.	x COC Present on Receipt No COC Additional Transmittal Forms		
3.	Custody Tape on Container No Custody Tape		
4.	x Samples Intact		
5.	x Chilled on Receipt Actual Temp.(s) in °C: Ambient on Receipt Walk-in on Ice; Coming down to temp. Received Outside of Temperature Specification	1.7 	
6.	x Sufficient Sample Submitted		
7.	Chlorine absent HNO3 < 2 HCL < 2 Additional Preservatives verified (see notes)	NA	
8.	Received Within Holding Time Not Received Within Holding Time		
9.	x No Discrepancies Noted Discrepancies Noted NCDENR notified of Descrepancies*		,
10.	No Headspace present in VOC vials Headspace present in VOC vials >6mm		
Comments: _			
		and the second	
-		-	
	Inspe	cted and Logged in by: <u>TP</u> Date: <u>V</u>	Ved-2/15/12 00:00

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