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Division Waste Management

Section Superfund

Program IHS (IHS)

DocCat Facility



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

Beverly Eaves Perdue
Governor

Dexter R. Matthews
Director

Dee Freeman
Secretary

May 24, 2011

Glenn & Susan Riggan
3841 DRAPER RD
CHASE CITY VA 23924

Re: Well-Water Sampling at Well 2, (PIN: 2968-84-8159, 48.94 acres)
North of Dog Thompson Rd, Macon, NC 27551
Macon Dump closed landfill: NONCD0000617

Dear Mr. & Mrs. Riggan:

This letter is to inform you that the scheduled date for your water well sampling is June 1, 2011. The sample will be collected by a contractor, Schnabel, Inc., that has been hired by the State. The sample will be obtained as close to the well head as possible and before passing through any treatment system you may have. You do not have to be present when the sample is collected.

If you have any questions or concerns, please do not hesitate to call me at (919) 508-8437 or email me at zi-qiang.chen@ncdenr.gov.

Sincerely,

Zi-Qiang Chen, PhD, Environmental Engineer
Pre-Regulatory Landfill Unit
Inactive Hazardous Sites Branch
Superfund Section



North Carolina Department of Environment and Natural Resources

Division of Waste Management

Dexter R. Matthews

Director

Beverly Eaves Perdue
Governor

Dee Freeman
Secretary

May 24, 2011

Ms. Misti S Benchabbat, Project Scientist
Schnabel Engineering South, PC
11A Oak Branch Drive
Greensboro, NC 27402

Re: Approval of Task Order 0617WS
State Contract No. N10004S
Proposal and Budget Estimate Approval
Macon Dump NONCD0000617

Dear Ms. Benchabbat:

The Unit has reviewed Schnabel's Cost Proposal for Task Order 0617WS dated May 18, 2011 under State contract N10004S. The Task Order is for well water sampling adjacent to the Macon Dump in Macon, Warren County. Based on that review, I approve and authorize the task order in the amount of \$3,062.35, including laboratory services.

Field work is scheduled for May 31, 2011. I look forward receiving the sampling report by July 8, 2011. If you have any questions or concerns, please contact me at 919-508-8473 or email me at: zi-qiang.chen@ncdenr.gov.

Sincerely,

Zi-Qiang Chen, PhD, Environmental Engineer
Pre-Regulatory Landfill Unit
Inactive Hazardous Sites Branch
Superfund Section

Enclosures



North Carolina Department of Environment and Natural Resources

Division of Waste Management

Beverly Eaves Perdue
Governor

Dexter R. Matthews
Director

Dee Freeman
Secretary

May 13, 2011

Ms. Misti S Benchabbat, Project Scientist
Schnabel Engineering South, PC
11A Oak Branch Drive
Greensboro, NC 27402

Re: Request for Cost Proposal
Sample Site Vicinity Water Supply Wells
Macon Dump Landfill
North of Doc Thompson Rd, Macon, Warren County, NC
Task Order: 0617-WS
ID: NONCD0000671

Dear Ben and Misti:

Please submit a cost estimate and proposed schedule to perform water supply well sampling and reporting activities associated with the **Macon Dump** Landfill site located in **Warren** County, North Carolina. The activities to be performed in this task order must be in accordance with State Contract No. **0617WS**.

Scope of Work: Sampling activities should be in accordance with the previously approved Sampling and Analysis Plan, **Schnabel Engineering South, PC, dated October 29, 2010**. Collect water-well sample(s) and analyze for VOCs by method 8260B, SVOCs by 8270, fifteen (15) metals-- Sb, As, Be, Cd, Cr, Cu, Fe, Pb, Mn, Hg, Ni, Se, Ag, Tl, and Zn by SW-846 methods: you may use method 200.8/200.7 for analyzing the metals, and/or Method 6020A for thallium (Tl), and Methods 7470A or 245.1 for mercury (Hg); ammonia by Method 350.2, sulfate by Method 9056A, and nitrate by Method 353.2. Any alternate method should be analyzed by the U.S. EPA method having the lowest detection limit that achieves the detections equivalent to the North Carolina 15A NCAC 2L Standards or applicable MCL.

The site is located at **North of Doc Thompson Rd, Macon, Warren County, NC**. Enclosed please find the site-vicinity and well-location maps, as well as well-sampling permission info.

Two (2) properties are located within a 500 foot radius of the site that contain water supply wells. Both the owners, **Mr. Stallings and Mr. Riggan**, have given permission to sample their wells:

Well #1 –Mr. Stallings, (Parcel# 2968-85-2352), Dog Thompson Rd, Macon, NC 27551

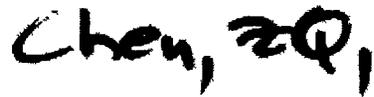
Well #2 –Mr. Riggan (Parcel# 2968-84-8159), Dog Thompson Rd, Macon, NC 27551

(Page 2)

Please inform the Unit in advance of the sample schedule so the residents can be notified in writing. The cost proposal and proposed schedule should be provided no later than May 25, 2011.

If you have any questions concerning the contents of this letter, please feel free to contact me at 919-508-8473.

Sincerely,

A handwritten signature in black ink that reads "Chen, ZQ,".

Zi-Qiang Chen, PhD, Environmental Engineer,
Pre-Regulatory Landfill Unit
Inactive Hazardous Sites Branch
Superfund Section



North Carolina Department of Environment and Natural Resources

Division of Waste Management

Beverly Eaves Perdue
Governor

Dexter R. Matthews
Director

Dee Freeman
Secretary

May 4, 2011

CERTIFIED MAIL

Return Receipt Requested

MR. STALLINGS, WILLIAM KENNETH HEIR
3841 DRAPER RD
CHASE CITY VA 23924

Re: Request to Sample Well, **Well #1** (see map attached)
Macon Dump Landfill, ID# **NONCD0000671**
North of Doc Thompson Rd, Macon, Warren County, NC

Dear **Mr. Stallings**:

The Pre-Regulatory Landfill Unit (Unit) has been tasked with assessing potential human health hazards and remedying imminent hazards at pre-1983 landfills. As part of those assessment activities, water supply wells located within 500 feet of those landfills are sampled to determine if the wells have been impacted by the landfill.

It appears that your well at the above referenced address is within 500 feet of the "**Macon Dump** closed landfill, ID# **NONCD0000671**). The Unit would like to sample your water using a contractor (**Schnabel**) that has been hired by the State. **This sampling will be performed at no cost to you.**

A sample will be collected as close to the well head as possible and before passing through any treatment system you may have. Usually, the sample can be collected from an outside water tap so you do not have to be present when the sample is collected.

The sample will be analyzed for chemicals and metals that could indicate contamination by a landfill. The sample will not be tested for waterborne bacteria or other contaminants that are not usually associated with a landfill. You will be provided with a copy of the sampling results. Advice on consumption and other use will also be provided if there are any concerns. The Unit does not regulate or prevent private consumption of privately owned wells.

Please allow the Unit the opportunity to sample your well by completing and signing the enclosed water well information and sampling permission form and return it in the enclosed stamped envelope. Please respond with your permission (either verbally or in writing) **within SEVEN DAYS of receiving this letter.**

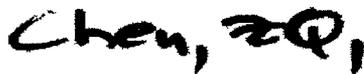
The water well information and sampling permission form should be returned to:

Unit Project Manager Mr. Zi-Qiang Chen
Pre-Regulatory Landfill Unit
Inactive Hazardous Sites Branch, NC Superfund Section
401 Oberlin Road – Suite 150
Raleigh, NC 27605-1350
e-Mail: zi-qiang.chen@ncdenr.gov
Phone#: (919)-508-8473

You will be contacted prior to sampling and notified of the scheduled sampling date.

If you have any questions or concerns, please do not hesitate to call me at (919) 508-8473. Your cooperation is greatly appreciated.

Sincerely,



Zi-Qiang Chen, PhD, Environmental Engineer
Pre-Regulatory Landfill Unit
Inactive Hazardous Sites Branch
Superfund Section

ENCLOSURES

Well Permission Form
Map of the Closed Landfill
Stamped Return Envelope



Schnabel
ENGINEERING

June 23, 2011

Mr. Zi-Qiang Chen, PhD
NCDENR, Division of Waste Management
1646 Mail Service Center
Raleigh, NC 27699-1646

SUBJECT: State Contract No.: N10004S; Task Order 0617-WS
Macon Dump Landfill, Macon, Warren County, NC
Letter Report

Dear Mr. Chen:

On June 2, 2011 Schnabel personnel travelled to Macon Dump Landfill to collect a water supply well sample from two wells (Well #1 and Well #2) each off of Doc Thompson Road. Unfortunately, the wells could not be sampled for the following reasons:

Well #1: Mr. Stallings (Parcel # 2968-85-2352), Doc Thompson Road

The well is not in use and did not have power. Densely growing vines were around a concrete cinder block structure where the well is located. Large cut timbers were lying across the cinder block structure and could not be removed by hand so the interior of structure could not be accessed. A photo log is attached.

Well #2: Mr. Riggan (Parcel # 2968-84-8159), Doc Thompson Road

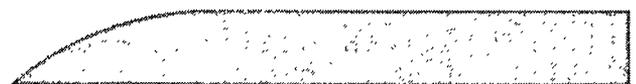
A partially collapsed mobile home is located on the property, and no well was observed during a search of the property.

Please let me know if you have any questions in regards to this attempted sampling event.

Sincerely,
SCHNABEL ENGINEERING SOUTH, PC


Misti S. Benchabbat
Project Scientist

Attachment: Photo Log
MB/BB/GR





PHOTOGRAPH No.: 1

Photo Taken: 06-02-11

LOCATION:

Macon Dump Landfill—Well #1

COMMENTS:

Photo of vines surrounding cinder block structure.



PHOTOGRAPH No.: 2

Photo Taken: 01-21-10

LOCATION:

Well #1

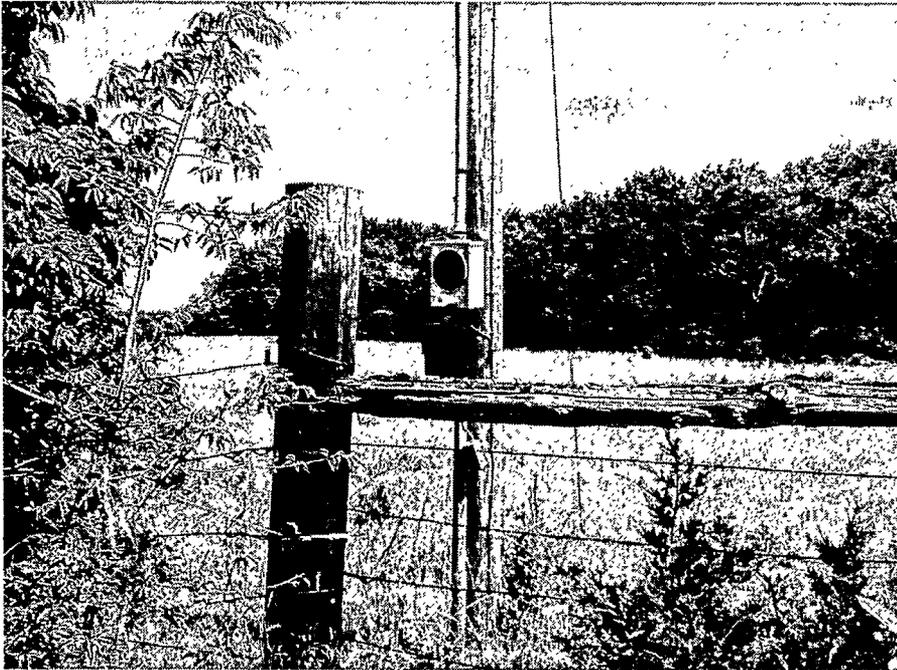
COMMENTS:

View of vines and trees growing around Well #1.



**Macon Dump Landfill
NONCD0000617
Macon, North Carolina**

DATE: 06/02/2011



PHOTOGRAPH No.: 3

Photo Taken: 06-02-11

LOCATION:

Well #1

COMMENTS:

Photo of former power supply for well.



PHOTOGRAPH No.: 4

Photo Taken: 01-21-10

LOCATION:

Well #1

COMMENTS:

View of timbers placed on top of Well #1.



**Macon Dump Landfill
NONCD0000617
Macon, North Carolina**

DATE: 06/02/2011



PHOTOGRAPH No.: 5

Photo Taken: 06-02-11

LOCATION:

Well #2

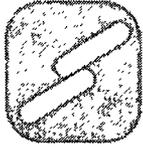
COMMENTS:

Photo of former mobile home.



**Macon Dump Landfill
NONCD0000617
Macon, North Carolina**

DATE 06/02/2011



Schnabel
ENGINEERING

July 21, 2011

Mr. Zi-Qiang Chen, PhD
NCDENR, Division of Waste Management
1646 Mail Service Center
Raleigh, NC 27699-1646

SUBJECT: State Contract No.: N10004S; Task Order 0617WS
Macon Dump, Macon, Warren County, NC
NONCD0000617
Invoice

Dear Dr. Chen:

Enclosed is the invoice for water supply well sampling in Warren County.

Task 0617WS was authorized in your letter of May 24, 2011 with a budget of \$3,062.35. The invoiced amount for Task 0617WS is \$1,396.65.

The letter report and photo log documenting the field conditions and inability to sample either of the two water supply wells was sent under separate cover.

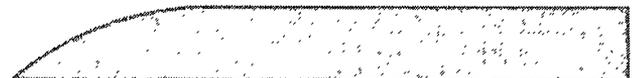
If you need additional information or have any questions, please call.

Sincerely,

Misti S. Benchabbat
Project Scientist

MB/BB

Attachments: Invoice 0617WS



Site ID # : NONCD 0000617
State Contract # : N10004S

REVISED INVOICE: Task Order 0617WS
Macon Dump
Macon, NC

Well Sampling
July 21, 2011

Please remit payment to:

Name
Address
City, State,Zip

Schnabel Engineering South, PC
PO Box 60530
Charlotte, NC 28260

Federal ID# 20-1543090
Invoice #: 2004813
Task: 0617WS

Subtask A - Water Supply Well Sampling

Labor

Project	\$85 /hr x	2.0 hrs =	\$170.00
Staff	\$75 /hr x	6.0 hrs =	\$450.00
Technician	\$60 /hr x	5.0 hrs =	\$300.00

Reimbursables & Expendables

Mileage	\$0.55 /mile x	329.0 units =	\$180.95
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Subtotal - Task A

\$1,100.95

Subtask B - Reporting

Labor

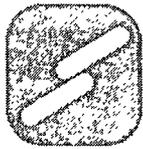
Senior	\$101 /hr x	0.7 hrs =	\$70.70
Staff	\$75 /hr x	3.0 hrs =	\$225.00

Subtotal - Task B

\$295.70

Invoice Total:

\$1,396.65



Schnabel
ENGINEERING

May 18, 2011

Mr. Zi-Qiang Chen, PhD
NCDENR, Division of Waste Management
1646 Mail Service Center
Raleigh, NC 27699-1646

SUBJECT: State Contract No.: N10004S; Task Order 0617-WS
Macon Dump Landfill, Macon, Warren County, NC
Proposal for Water Supply Well Sampling and Reporting

Dear Mr. Chen:

We are pleased to submit this cost estimate, scope, and proposed schedule for water well sampling at Macon Dump Landfill (NONCD0000617) in Warren County, North Carolina.

BACKGROUND

NCDENR has requested service for water supply well sampling at residences which have drinking wells near Macon Dump Landfill. The objective of this water supply well sampling will be to sample the selected wells, analyze for specific chemical parameters, and prepare a report.

Well #1: Mr. Stallings (Parcel # 2968-85-2352), Doc Thompson Road
Well #2: Mr. Riggan (Parcel # 2968-84-8159), Doc Thompson Road

SCOPE OF SERVICES

The scope of services for this assignment is as follows:

Task A – Water Supply Well Sampling

Water samples will be obtained at an outdoor faucet or the well house valve, whichever is available and closest to the source. Sampling will be performed in general accordance with the approved *Schnabel Engineering Standard Operating Procedures (SOPs)* dated October 29, 2010.

We estimate that well sampling will require about one hour each. We anticipate that time will be required when owners are present during the sampling due to the questions that will need to be addressed. We propose a two person sampling team for logistical and safety reasons, and to facilitate addressing owner's concerns without delaying the sampling process.



The collected water well samples will be analyzed at the laboratory for the following:

Water Well ID	Analysis Required	Method
Well # 1 and 2	Volatile Organic Compounds with TICs	SW-846 Method 8260
	Semi Volatile Compounds with TICs	SW-846 Method 8270
	Metals (total concentrations)	SW-846 Method 6020/7470
	Ammonia	SM 4500-NH3
	Sulfate	SW-846 Method 9056
	Nitrate	SW-846 Method 9056

Task B – Reporting

Schnabel Engineering will prepare a report that presents analytical results, a discussion of our field sampling, sampling forms, sample locations, and an area map.

PROPOSED SCHEDULE

We anticipate sampling the two wells during the week of May 30, 2011 and anticipate completing the report for this site within 45 days of receipt of the notice to proceed. If any conditions develop or delays are encountered during the project that might affect the schedule, we will inform you during the course of the project.

LABORATORY FEES

Schnabel Engineering will use Xenco Analytical Laboratory for the sampling analyses. The fees, including the contractually authorized 10% markup on direct costs, are as follows:

Volatiles w/ TICs by Method 8260	\$70.00 per sample
Semi Volatiles w/ TICs by Method 8270	\$150.00 per sample
Total Metals (15) by Method 6020	\$80.00 per sample
Ammonia by Method SM 4500-NH3	\$10.00 per sample
Sulfate by Method 9056	\$10.00 per sample
Nitrate by Method 9056	\$10.00 per sample

Total: \$330.00 per well
2 wells

Total Lab Cost + 10% Markup: \$726.00

COST

We propose to complete the water supply well sampling at Macon Dump Landfill for a fee of \$3,062.35, as detailed on the attached cost estimate.

If you need additional information or have any questions, please call.

Sincerely,



Misti S. Benchabbat
Project Scientist

MB/GK

Attachments: Task Order 0617-WS Cost Estimate



North Carolina Department of Environment and Natural Resources

Division of Waste Management

Beverly Eaves Perdue
Governor

Dexter R. Matthews
Director

Dee Freeman
Secretary

June 15, 2010

Mr. Glenn Riggan
P.O. Box 73
Macon, NC 27589

Re: Macon Dump
Doc Thompson Road
Macon, Warren County, NC
ID # NONCD0000671

Dear Mr. Riggan:

On April 6, 2010 your property (tax PIN 2968-65-8834) was inspected by a State contractor (Marshall Miller & Associates, Inc.) to determine if it had previously been used as a landfill and to identify any potential hazards if a landfill was present. That inspection confirmed the presence of a landfill.

A report was submitted to the North Carolina Division of Waste Management by the contractor identifying the property's past use as a landfill and included general information about the property and vicinity. A copy of the report is enclosure per your request. No immediate hazard was observed associated with the landfill area. The property will remain as part of the Division's inventory of pre-regulatory landfills and continue to be part of public record.

To address properties such as yours, the General Assembly of North Carolina ratified Senate Bill 1492 that creates a program whereby the State will assess and remedy the environmental hazards at these old pre-regulatory landfills. Under Senate Bill 1492, as long as owners fully cooperate with the State in its performance of this work and monies are available, the owner will not have to conduct the work at their expense. A state-wide disposal tax was established by Senate Bill 1492. Fifty percent of the proceeds go to conducting this work. Cooperation with assessment and implementation of control and mitigation measures may include, but are not limited to, granting access to the site, allowing installation of various monitoring wells (groundwater) and probes (landfill gas), allowing installation and maintenance of improvements to the landfill cap, allowing installation of security measures, agreeing to record and implement land-use restrictions, and providing access to any records regarding the old landfill.

Prior to the passage of this law, owners and operators of the landfill property and other responsible parties were obligated to fund any required assessment and cleanup work to address the public health and environmental hazards posed by these properties.

Your cooperation for assessment and remediation activities will be appreciated.

Thank you for your cooperation in allowing access to this property. We ask that our office be notified prior to any redevelopment plans so that public health or the environment is not adversely affected. If you have any questions, please call me at (919) 508-8463.

Sincerely,

A handwritten signature in black ink that reads "Bruce E. Lefler, Jr." with a stylized flourish at the end.

Bruce E. Lefler, Jr., Hydrogeologist
Pre-Regulatory Landfill Unit
Inactive Hazardous Sites Branch
Superfund Section

Enclosure

Cc Mr. Andy Smith, Director, Warren County Health Department
Ms. Linda Worth, County Manager, Warren County