JPM 12/16/06

THE COLINAS GROUP, INC.

HYDROGEOLOGISTS & ENGINEERS

December 11, 2006

Dept. of Environmental Protection
DEC 18 2006
Southwest District

Mr. John Morris, P.G.
Florida Department of Environmental Protection
Southwest District
13051 N. Telecom Parkway
Temple Terrace, FL 33637

Sub: Sumter County Closed Landfill
Resample MW-4 for Gross Alpha
TCG Project No. P-331

Dear Mr. Morris:

The Colinas Group, Inc. (TCG) prepared and submitted the Quarter III 2006 Groundwater Monitoring Report on behalf of Sumter County on October 9, 2006. The reported noted an exceedance for Gross Alpha in monitoring well MW-4 at 17.0 ±1.7 pCi/L. Well MW-4 was resampled by TCG on October 17, 2006 and the collected sample submitted to Environmental Conservation Laboratories, Inc. (ENCO) for analysis for Gross Alpha.

The laboratory reported Gross Alpha in the MW-4 resampling at 6.2±1.5 pCi/L, below the Chapter 62-550, F.A.C. regulatory level of 15 pCi/L. The laboratory report, provided by ENCO's radiological subcontract laboratory, Florida Radiochemistry Services, Inc., is attached together with TCG's field log for the resample event.

Please let me know if you have any questions concerning this matter.

Very truly yours,
THE COLINAS GROUP, INC.

12/11/06

Richard L. Potts, Jr., P.G.
Principal Consultant
FL P.G. Reg. No.1113

cc: Carly Kozel (Kessler Consulting, Inc.) w/o attachments

509 N. VIRGINIA AVENUE, WINTER PARK, FL 32789 • (407) 622-8176 • FAX: (407) 622-8196

MW-4 RESAMP 10/17/06 FOR GROSS ALPHA

Environmental Conservatio .aboratories, Inc.
10775 Central Port Drive
Orlando FL, 32824
Phone: 407.826.5314 FAX: 407.850.6945

www.encolabs.com

Friday, November 10, 2006

The Colinas Group (CO016)

Attn: Rick Potts

509 N. Virginia Ave.

Winter Park, FL 32789

RE: Project Number: [none], Project Name/Desc: Sumter County Landfill
ENCO Workorder: A605143

Dear Rick Potts,

Enclosed is a copy of your laboratory report for test samples received by our laboratory on Wednesday, October 18, 2006.

Unless otherwise noted in an attached project narrative, all samples were received in acceptable condition and processed in accordance with the referenced methods/procedures. Results for these procedures apply only to the samples as submitted.

This data has been produced in accordance with NELAC standards (June, 2003). This report shall not be reproduced except in full, without the written approval of the Laboratory.

This report contains only those analyses performed by Environmental Conservation Laboratories. Data from outside organizations will be reported under separate cover.

If you have any questions or require further information, please do not hesitate to contact me.

Sincerely,

David M. Camacho

David Camacho For Ronald Wambles

Project Manager

Enclosure(s)

Florida Radiochemistry Services, Inc.

Contact: Michael J. Naumann
5456 Hoffner Ave., Suite 201 Orlando, FL 32812
Phone: (407) 382-7733 Fax: (407)382-7744
Certification I. D. # E83033

Work Order #: 0610188
Report Date: 11/02/06

Report to:

Enco
10775 Central Port Dr.
Orlando, FL 32824
Attention: Ronnie Wambles

I do hereby affirm that this record contains no willful misrepresentations and that this information given by me is true to the best of my knowledge and belief. I further certify that the methods and quality control measures used to produce these laboratory results were implemented in accordance with the requirements of this laboratory's certification and NELAC Standards.

Signed Michael J. Naumann
Michael J. Naumann - President

Date 11-2-06

Florida Radiochemistry Services, Inc.

Sample Login

Client:	**Enco - Orlando**	**Date / Time Received**	**Work order #**
		10/19/06 09:05	**0610188**
Client Contact:	**Ronnie Wambles**		
Client P.O.			
Project I.D.	**A605143**		

Lab Sample I.D.	Client Sample I.D.	Sample Date/Time	Analysis Requested
0610188-01	MW-4	10/17/06 11:41	Gross Alpha

Analysis Results

Gross Alpha	**6.2**
Error +/-	**1.5**
MDL	**1.2**
EPA Method	**900.0**
Prep Date	**10/30/06**
Analysis Date	**10/31/06**
Analyst Initials	**MJN**
Units	**pCi/l**

Florida Radiochemistry Services, Inc.

QA Page

Analyte	Sample #	Date Analyzed	Sample Result	Amount Spiked	Spike Result	Spike /Dup Result	Spike % Rec.	Spike Dup % Rpd
Gross Alpha	0610189-03	10/31/06	<1.9	10.2	10.4	10.4	102	0.0

	Quality Control Limits	
	% RPD	% Rec.
Gross Alpha	22.1	61-117

SUBCONTRACT ORDER

ENCO Orlando

A605143

SENDING LABORATORY:

ENCO Orlando
10775 Central Port Drive
Orlando, FL 32824
Phone: 407.826.5314
Fax: 407.850.6945
Project Manager: Ronald Wambles

RECEIVING LABORATORY:

FL Rad-Chem
5456 Hoffner Ave, Suite 201
Orlando, FL 32812
Phone :(407) 382-7733
Fax: 999
Project State of Origin: FL

Analysis	Due	Expires	Laboratory ID	Comments
MW-4 Ground Water	**17-Oct-06 11:41**			
Gross Alpha	25-Oct-06 15:00	17-Oct-06 11:41		
Containers Supplied:				
1LP (A)				

Released By	Date	Received By	Date
[signature]	10/18/06	[signature]	10/19/06 9:05
Released By	Date	Received By	Date

DEP-SOP-001/01
Form FD 9000-24

GROUNDWATER SAMPLING LOG

SITE NAME: Sumter County Landfill		SITE LOCATION: Sumterville, FL	
WELL NO: MW-4	SAMPLE ID: MW-4		DATE: 10/17/06

PURGING DATA

WELL DIAMETER (inches): 2" PVC	TUBING DIAMETER (inches): 3/8"	WELL SCREEN INTERVAL DEPTH: feet to feet	STATIC DEPTH TO WATER (feet): 27.64	PURGE PUMP TYPE OR BAILER: ESP

WELL VOLUME PURGE: 1 WELL VOLUME = (TOTAL WELL DEPTH − STATIC DEPTH TO WATER) X WELL CAPACITY
(only fill out if applicable)

(WellVol = (36.35' feet − 27.64' feet) X .16 gallons/foot = 1.3936 gallons

EQUIPMENT VOLUME PURGE: 1 EQUIPMENT VOL. = PUMP VOLUME + (TUBING CAPACITY X TUBING LENGTH) + FLOW CELL VOLUME
(only fill out if applicable)

~~1 Equip Vol = .02 gallons + (.006 gallons/foot X 38' feet) + .125 gallons = .375 gallons~~

INITIAL PUMP OR TUBING DEPTH IN WELL (feet): ~29'	FINAL PUMP OR TUBING DEPTH IN WELL (feet):	PURGING INITIATED AT:	PURGING ENDED AT:	TOTAL VOLUME PURGED (gallons):

TIME	VOLUME PURGED (gallons)	CUMUL VOLUME PURGED (gallons)	PURGE RATE (gpm)	DEPTH TO WATER (feet)	pH (standard units)	TEMP. (°C)	COND. (mS/cm)	DISSOLVED OXYGEN (mg/L)	TURBIDITY (NTUs)	COLOR (describe)	ODOR (describe)
1130	1.5	1.5	.125	28.04	7.00	22.46	.696	.50	7.37	Clear	None
1132	0.25	1.75	.125	28.03	6.99	22.45	.690	.41	6.40	Clear	None
1134	.25	2	.125	28.03	7.00	22.42	.692	.36	5.55	Clear	None
								No Sheen			

WELL CAPACITY (Gallons Per Foot): 0.75" = 0.02; 1" = 0.04; 1.25" = 0.06; 2" = 0.16; 3" = 0.37; 4" = 0.65; 5" = 1.02; 6" = 1.47; 12" = 5.88
TUBING INSIDE DIA. CAPACITY (Gal./Ft.): 1/8" = 0.0006; 3/16" = 0.0014; 1/4" = 0.0026; 5/16" = 0.004; 3/8" = 0.006; 1/2" = 0.010; 5/8" = 0.016

SAMPLING DATA

SAMPLED BY (PRINT) / AFFILIATION: H. L. Claytor, Envirotech, LLC	SAMPLER(S) SIGNATURES:	SAMPLING INITIATED AT: 1138	SAMPLING ENDED AT: 1141
PUMP OR TUBING DEPTH IN WELL (feet): ~29'	SAMPLE PUMP FLOW RATE (mL per minute): < 250 mL	TUBING MATERIAL CODE: PE	
FIELD DECONTAMINATION: (Y) N	FIELD-FILTERED: Y (N) FILTER SIZE: ____ um Filtration Equipment Type:	DUPLICATE: Y (N)	

SAMPLE CONTAINER SPECIFICATION				SAMPLE PRESERVATION				
SAMPLE ID CODE	# CONTAINERS	MATERIAL CODE	VOLUME	PRESERVATIVE USED	TOTAL VOL ADDED IN FIELD (mL)	FINAL pH	INTENDED ANALYSIS AND/OR METHOD	SAMPLING EQUIPMENT CODE
MW-4	2	PE	1 Ltr	HN03	None	---	GrossAlpha, RA226RA228	ESP
"	1	PE	250 mL	H2S04	None	---	Ammonia	ESP
"	1	PE	250 mL	HN03	None	---	Al,Fe,Mn,Hg,Na	ESP
"	1	PE	500 mL	None	None	---	Chloride,Fluoride, Nitrate, TDS	ESP

REMARKS:

1118: Inserted SS ESP and new 3/8" PE tubing to ~29' btoc and began purging @ .125 gpm.

1123: WL 28.04' @ .125 gpm, GW is turbid @ 63 NTUs. Will purge until clear.

1126: WL 28.04' @ .125 gpm, drawdown is stable. Turbidity is dropping, is 25 NTU's.

Notes: 1) Used a graduated 5 gallon bucket and timed to measure purge volumes
2) Packed samples on ice immediately upon collection

MATERIAL CODES: AG = Amber Glass; CG = Clear Glass; PE = Polyethylene; PP = Polypropylene; S = Silicone; T = Teflon; O = Other (Specify)

SAMPLING/PURGING EQUIPMENT CODES: APP = After Peristaltic Pump; B = Bailer; BP = Bladder Pump; ESP = Electric Submersible Pump; PP = Peristaltic Pump; RFPP = Reverse Flow Peristaltic Pump; SM = Straw Method (Tubing Gravity Drain); VT = Vacuum Trap; O = Other (Specify)y

Notes: 1. The above do not constitute all the information required by Chapter 62-160, F.A.C.
2. STABILIZATION CRITERIA FOR RANGE VARIATION OF LAST THREE CONSECUTIVE READINGS (SEE FS 2212, SECTION 3)H: ± 0.2 units; Temperature: ± 0.2 degrees C; Specific Conductance: ± 5%; Dissolved Oxygen: all readings ≤ 20% saturation (see Table FS 2200-2), optionally, ± .02 mg/L or ± 10% (whichever is greater) Turbidity: all readings ≤ 20 NTU, optionally ± 5 NTU or ± 10% (whichever is greater)

Field Instrument Calibration Records

INSTRUMENT (MAKE/MODEL#) **YSI 566/Lamotte 2020** **INSTRUMENT #** _____

PARAMETERS:

☒ TEMPERATURE ☒ CONDUCTIVITY ☐ SALINITY ☒ pH ☐ ORP
☒ TURBIDITY ☐ RESIDUAL CL ☒ DO ☐ OTHER _____

STANDARDS: *[Specify the type(s) of standards used for calibration, the origin of the standards, the standard values, and the date the standards were prepared or purchased]*

Standard A Calitech Autocal Solution Exp 4/11/08
Standard B Oakton pH Standard 10
Standard C Oakton conductivity Standard .084 ms/cm
Standard D Lamotte 2020 Standard 1 NTU
Standard E Lamotte 2020 Standard 10 NTU's

DATE (yy/mm/dd)	TIME (hr:min)	STD (A, B, C)	STD VALUE	INSTRUMENT RESPONSE	% DEV	CALIBRATED (YES, NO)	TYPE (INIT, CONT)	SAMPLER INITIALS	
10/12/06	1103	A	4.00	4.00		Yes	Init	[illegible]	pH
		B	10.00	10.00					pH
		C	.084	.084					Cond
		A	4.49	4.49					Cond
			—	8.67					DO
			—	22.67					Temp
		D	1	1.00					Turb
		E	10	9.99					Turb
									pH
									pH
									Cond
									Cond
									DO
									Temp
									Turb
									Turb
									pH
									pH
									Cond
									Cond
									DO
									Temp
									Turb
									Turb

ENCO

ENVIRONMENTAL CONSERVATION LABORATORIES CHAIN-OF-CUSTODY RECORD

10775 Central Port Dr, Orlando, FL 32824, (407) 826-5314 Fax (407) 850-6945
4810 Executive Park Court, Suite 211, Jacksonville, FL 32216-6069, (904) 296-3007 Fax (904) 296-6210
1015 Passport Way, Cary, NC 27513, (919) 677-1669 Fax (919) 677-9846

Page 1 of 1

Client Name: Fisher's Group	Project Number:
Address: 500 N. Virginia Ave	Project Name/Desc: Sumter County Landfill
City/ST/Zip: Winter Park, FL 32789	PO # / Billing Info:
Tel: 407-622-5136 / Fax: 407-622-5136	Reporting Contact: Rick Potter
Sampler(s) Name, Affiliation (Print): Dale Clayton	Billing Contact:
Sampler(s) Signature: [signature]	Facility # (if required):

Requested Analyses: Gross Alpha

Requested Turnaround Times
Note: Rush requests subject to acceptance by the facility
X Standard
___ Expedited
Due ___/___/___
Lab Workorder

Preservation (See Codes) (Combine as necessary)

Item #	Sample ID (Field Identification)	Collection Date	Collection Time	Comp / Grab	Matrix (see codes)	Total # of Containers	I / N										Sample Comments
1	MW-4	10/17/06	1141	G	GW	1	X										

<-- Total # of Containers

Sample Kit Prepared By	Date/Time	Relinquished By	Date/Time	Received By	Date/Time
		[signature]	10/18/06 0900		
Comments		Relinquished By	Date/Time	Received By	Date/Time
		Relinquished By	Date/Time	Received By: [signature]	Date/Time: 10/18/06 0900
		Cooler #'s & Temps on Receipt		Condition Upon Receipt: ___ Acceptable ___ Unacceptable	

Matrix: GW-Groundwater SO-Soil SE-Sediment SW-Surface Water WW-Wastewater A-Air O-Other (detail in comments)
Preservation: I-Ice H-HCl N-HNO3 S-H2SO4 NO-NaOH O-Other (detail in comments)

Note: All samples submitted to ENCO Labs are in accordance with the terms and conditions listed on the reverse of this form, unless prior written agreements exist.