W. Z. Baumgartner & Associates, Inc.

ENVIRONMENTAL ENGINEERS AND CONSULTANTS

P.O. BOX 680369 • FRANKLIN, TN 37068-0369
1113 MURFREESBORO RD., SUITE 310 • FRANKLIN, TN 37064
615-595-0025 • FAX 615-595-1595

W. Z. BAUMGARTNER, JR., P.E., DEE, CHMM, REM
MICHAEL E. TANT, P.E.
J. CLAIBORNE THORNTON, III, P.E.

GRAHAM P. McREDMOND, P.E.
W.C. BARRON
BRANDON WALSH

orig sent for Hard file

August 6, 2007

F. Thomas Lubozynski, P.E.
Waste Program Administrator
Florida Department of Environmental Protection
Central District
3319 Maguire Boulevard, Suite 232
Orlando, florida 32803-3767

RECEIVED
AUG 10 2007
DEP Central Dist.

RE: 419 Metal and Auto Recycling Center, Inc.
Interim Source Removal Report

Dear Mr. Lubozynski

As directed in your letter dated May 18, 2007, an additional groundwater sample has been collected from the target area previously identified at the 419 Metal and Auto Recycling Center, Inc. The sample was collected from MW-2, which was installed at the area of interest on 7/11/07 and developed 7/13/2007. The collected sample was analyzed for arsenic and dissolved arsenic by Method 3010/6010B.

The arsenic concentrations were found to be below the detection level of 0.0038 mg/l.

Please call if you have any questions.

Sincerely,

W. Z. BAUMGARTNER & ASSOCIATES, INC.

W. Z. Baumgartner Jr., P. E.
President

cc: Mr. Bart Phillips

Enclosures

WZB/ps/25022

COMPLETED AUG 13 2007

I O ROYA

8/10/07

USBIOSYSTEMS

ANALYTICAL RESULTS

Printed: 07/19/07 05:44pm

TOM DALEY
DALEY ENVIRONMENTAL
696 MILLWHEEL DRIVE
MERRITT ISLAND, FL 32952

Regarding:

DALEY ENVIRONMENTAL
696 MILLWHEEL DRIVE
MERRITT ISLAND, FL 32952

Project No: 003011, DALEY ENVIRONMENTAL
Job Name: 419 METALS
Job Id:

Inv. No: 193857

Collected by: Customer Sampled

Laboratory Sample #	Client Sample #
L232172-1	MW-2

All analyses were performed using EPA, ASTM, NIOSH, USGS, or Standard Methods and certified to meet NELAC requirements.
Flags: ND or U-below MDL; IL-meets internal lab limits;MI-matrix interference; NA-not applicable.
Flags: CFR-Pb/Cu rule; NFL-no free liquids; DRY = dry wt; ASIS = wet wt; C(#) See attached USB code
FLDEP Flags: J(#)-estimated 1:surr. fail 2:no known QC req. 3:QC fail %R or %RPD; 4:matrix int. 5:improper fld. protocol; L-exceeds calibration; Q-holding time exceeded;
FLDEP Flags: T-value<MDL; V-present in blank; Y-improper preservation; B-colonies exceed range;I-estimated value;between the MDL and PQL;
Lab certification IDs: FLDOH/NELAC E86240; NC 444; SC 96031001; IL/NELAC 200020; VA 00395; KS/NELAC E-10360; TN 02985; GA 917;NJ FL014;PA 68-03756;
Lab IDs: ADEM 40850; USDA Soil Permit# S-35240; The above results relate only to the samples.

US Biosystems 3231 NW 7th Avenue Boca Raton, FL 33431 (888)862-5227

Serial Number: 650870

Respectfully submitted,

Maria Pacheco

Maria Pacheco
Project Manager
For: Mike Kimmel

ANALYTICAL RESULTS
Printed: 07/19/07 05:44pm

Project No: 003011, DALEY ENVIRONMENTAL
Job Name: 419 METALS
Job Id:

Inv. No: 193857

Sample Number: L232172-1
Sample Description: MW-2
Samp. Date/Time/Temp: 07/13/07 11:01am NA C
Receive Date: 07/14/07
Sampled by: Customer Sampled
Received Temp: 3 C Iced (Y/N): Y

Parameter	Method	Result		DIL	MDL	PQL	Prep Date	Test Date, Analyst	
Metals Analysis									
ARSENIC	3010/6010B	U	mg/l	1	0.0038	0.010	07/16/07	07/18/07	JG
ARSENIC DISSOLVED	3010/6010B	U	mg/l	1	0.0038	0.010	07/16/07	07/18/07	JG

Serial Number: 650870

CHAIN OF CUSTODY RECORD

USBIOSYSTEMS
3231 NW 7th Ave. Boca Raton, FL 33431
www.usbioeystems.com

Log# 372172 T#S 4 Quote:_____ Page___of___

Co: Daley Env. Svcs PO#
Address: 696 Millwheel Dr
City: Merritt Isl. State: FL Zip: 32952
Attn: Tom Daley Fax: 321-454-4319
email: daleyenviro@aol.com
Project Name: 419 Metals Proj #
Sampler Signature: [signature] Phone#: 321-454-6899
Matrix Code*

	4								
	1								
	2	2							
	B	A							
	Arsenic, Total	Arsenic, Dissolved							

1

1	MW-2	7/13/7	1101	GW	Y	2	P	P						79655
2														
3														
4														
5														
6														
7														
8														
9														
0														

Container Type Codes

AG	Amber Vial	SB	Sterile Sampler
CV	Clear Vial	PPV	Preserved Vial
P	Plastic	PLC	Plastic container
A...	Amber Liter	P...J	Plastic Jar
C...	Clear Liter	Ziploc	Ziploc bag
AP	Amber Plastic	TEDLAR B	Tedlar bag
AG	Amber Glass	WHRL P	Whirl pak
SJ	Soil Jar	G	Gallon Jug
Other			

Size(s): 2oz, 4oz, 8oz, 16oz, 32oz or 1L 40ml other
Example: 4ozP = 4oz Plastic, 8ozSJ= 8oz Soil Jar

Matrix Codes*

SO	Solid Waste	WW	Waste Water
SO	Soil	AFW	Analyte Free Water
SE	Sediment	DW	Drinking Water
OL	Oil	SU	Surface Water
PE	Petroleum	AQ	Aqueous
NA	Nonaqueous	SW	Source Water
ML	Misc. Liquid	O	Other
GW	Ground Water		(Please Specify)
EFF	Effluent		
INF	Influent		

Pres Codes

A. None	E. HCL	I. Ice
B. HNO3	F. MeOH	J. MCAA
C. H2SO4	G. Na2S2O3	K. Zn Acetate
D. NaOH	H. NaHSO4	O. Other

REMARKS

ORIGINAL

	Date Received								
	22	DE	7/13/7	1600	Courier	FEDEX	7/13/07	1600
						4398	7/14/07	10:07

Y ___ N ✓ None ___ 1 ___ 2 ___ 3 ___ Other ___

Y ✓ N

Lab Use Only

	Yes	No	N/A
Sample INTACT upon arrival?	✓		
Received on Wet Ice? Temp 2°C	✓		
Proper Preservatives Indicated?	✓		
Received within holding time?	✓		
Custody seals Intact?	✓		
Volatile rec'd without headspace?			✓
Proper Containers Used?	✓		

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

WELL CONSTRUCTION AND DEVELOPMENT LOG

WELL CONSTRUCTION DATA

Well Number:	Site Name:	FDEP Facility I.D. Number:	Well Install Date(s):
MW-2	419 METALS		7/11/2007

Well Location and Type(check appropriate boxes):	Well Purpose:	Well Install Method:
☒ On-Site ☐ Right-of-Way ☐ Off-Site Private Property ☐ Above Grade (AG) ☐ Flush-to-Grade If AG, list feet of riser above land surface:	☐ Perched Monitoring ☐ Shallow (Water-Table) Monitoring ☐ Intermediate or Deep Monitoring ☐ Remediation or Other (describe)	HS Surface Casing Install Method:

Borehole Depth (feet):	Well Depth (feet):	Borehole Diameter (inches):	Manhole Diameter (inches):	Well Pad Size:
15	15	10.25	N/A	____ feet by ____ feet

Riser Diameter and Material:	Riser/Screen Connections:	Riser Length:
PVC 2"	☒ Flush-Threaded ☐ Other (describe)	5 feet from 0 feet to -5 feet

Screen Diameter and Material:	Screen Slot Size:	Screen Length:
2" PVC	0.010	10 feet from -5 feet to -15 feet

1st Surface Casing Material: PVC also check: ☐ Permanent ☐ Temporary	1st Surface Casing I.D. (inches):	1st Surface Casing Length: ____ feet from 0 feet to ____ feet
2nd Surface Casing Material: also check: ☐ Permanent ☐ Temporary	2nd Surface Casing I.D. (inches):	2nd Surface Casing Length: ____ feet from 0 feet to ____ feet
3rd Surface Casing Material: also check: ☐ Permanent ☐ Temporary	3rd Surface Casing I.D. (inches):	3rd Surface Casing Length: ____ feet from 0 feet to ____ feet

Filter Pack Material and Size:	Prepacked Filter Around Screen (check one):	Filter Pack Length:
SILICA 20/30	☐ Yes ☒ No	____ feet from -3 feet to -15 feet

Filter Pack Seal Material and Size:	Filter Pack Seal Length:
SILICA 30/65	2 feet from -1 feet to -3 feet

Surface Seal Material:	Surface Seal Length:
NATIVE SOIL	1 feet from 0 feet to -1 feet

WELL DEVELOPMENT DATA

Well Development Date:	Well Development Method (check one):
07/12/07	☐ Surge/Pump ☒ Pump ☐ Compressed Air ☐ Other (describe)

Development Pump Type (check):	Depth to Groundwater (before developing in feet):
☐ Centrifugal ☒ Peristaltic ☐ Submersible ☐ Other (describe)	8

Pumping Rate (gallons per minute)	Maximum Drawdown of Groundwater During Development (feet):	Well Purged Dry (check one)
1.5	~0.5	☐ Yes ☒ No

Pumping Condition (check one):	Total Development Water Removed (gallons):	Development Duration (minutes):	Development Water Drummed (check one):
☐ Continuous ☐ Intermittent	30	20	☐ Yes ☐ No

Water Appearance (color and odor) At Start of Development:	Water Appearance (color and odor) At End of Development:
TAN / NONE	CLOUDY / NONE

WELL CONSTRUCTION OR DEVELOPMENT REMARKS

GROUNDWATER SAMPLING LOG

SITE NAME:	419 METALS	SITE LOCATION:	WINTER SPRINGS, FLORIDA
WELL NO:	MW-2	SAMPLE ID:	79655
DATE:	7/13/2007		

PURGING DATA

WELL DIAMETER: (in.)	TUBING DIAMETER: (in.)	WELL SCREEN INTERVAL DEPTH	STATIC DEPTH TO WATER (ft.):	PURGE PUMP TYPE:
2	0.17	4.8 feet to 14.8 feet	8.88	PERISTALTIC

WELL VOLUME PURGE (if applicable): 1 WELL VOLUME = (TOTAL WELL DEPTH – STATIC DEPTH TO WATER) X WELL CAPACITY

= (14.8 feet – 8.88 feet) X 0.16 gallons/foot = 0.9 gallons

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

= gallons + (gallons/foot X feet) + gallons = gallons

= 0 gallons + (gallons/foot X feet) + gallons = Gallons

INITIAL TUBING DEPTH IN WELL (ft.):	FINAL TUBING DEPTH IN WELL (ft.):	PURGING INITIATED AT:	PURGING ENDED AT:	TOTAL VOLUME PURGED (gallons):
14.5	10	1037	1100	4.5

TIME	VOLUME PURGED (gallons)	CUMUL. VOLUME PURGED (gallons)	PURGE RATE (gpm)	DEPTH TO WATER (feet)	pH (standard units)	TEMP. (°C)	COND. (µS/cm)	DISSOLVED OXYGEN (mg/L)	TURBIDITY (NTUs)	COLOR (describe)	ODOR (describe)
1042	0.9	0.9	0.2	9.6	5.85	25.9	308	0.76	>1000	TAN	NONE
1046	0.9	1.8	0.2	9.6	5.79	25.8	303	0.85	605	TAN	NONE
1051	0.9	2.7	0.2	9.65	5.77	25.8	302	0.36	460	TAN	NONE
1055	0.9	3.6	0.2	9.7	5.79	25.8	299	0.35	386	TAN	NONE
1100	0.9	4.5	0.2	9.7	5.76	25.8	298	0.29	527	TAN	NONE

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:	SAMPLER(S) SIGNATURES:	SAMPLING INITIATED AT:	SAMPLING ENDED AT:
TOM DALEY / DES	Thomas L Daley	1101	1105

TUBING DEPTH IN WELL (feet.):	SAMPLE PUMP FLOW RATE (ml/min.):	TUBING MATERIAL CODE:
11	100	PE

FIELD DECONTAMINATION:	FIELD-FILTERED:	FILTER SIZE:	DUPLICATE:
No	YES Filtration Equipment Type: in-line	0.1 m.	No

SAMPLE CONTAINER SPECIFICATION				SAMPLE PRESERVATION			INTENDED ANALYSIS AND/OR METHOD	SAMPLING EQUIPMENT CODE
SAMPLE ID CODE	# CONTAINERS	MATERIAL CODE	VOLUME	PRESERVATIVE USED	TOTAL VOL ADDED IN FIELD (mL)	FINAL pH		
	1	HDPE	250 ml	HNO3	-	-	As	PP
	1	HDPE	250 ml	-	-	-	As	PP

REMARKS: SAMPLED FOR TOTAL AND DISSOLVED METALS
STICKUP = 0.9

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)

NOTES: 1. The above do not constitute all of the information required by Chapter 62-160, F.A.C.

2. STABILIZATION CRITERIA FOR RANGE OF VARIATION OF LAST THREE CONSECUTIVE READINGS (SEE FS 2212, SECTION 3)

pH: ± 0.2 units **Temperature:** ± 0.2 °C **Specific Conductance:** ± 5% **Dissolved Oxygen:** all readings ≤ 20% saturation (see Table FS 2200-2); optionally, ± 0.2 mg/L or ± 10% (whichever is greater) **Turbidity:** all readings ≤ 20 NTU; optionally ± 5 NTU or ± 10% (whichever is greater)

DEP-SOP-001/01: Form FD 9000-8 (June 20, 2001)

Field Instrument Calibration Records

INSTRUMENT (MAKE/MODEL#) YSI-55 DO **INSTRUMENT #** 04C4779_____

PARAMETER: *[check only one]*

x TEMPERATURE ☐ CONDUCTIVITY ☐ SALINITY ☐ pH ☐ ORP

☐ TURBIDITY ☐ RESIDUAL CL x 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 N/A

Standard B _____

Standard C _____

DATE (yy/mm/dd)	TIME (hr:min)	STD (A, B, C)	STD VALUE	INSTRUMENT RESPONSE	% DEV	CALIBRATED (YES, NO)	TYPE (INIT, CONT)	SAMPLER INITIALS
7/11/07	1000	—	—	N/A	—	Y	I	JLD
7/13/07	1030	—	—	N/A	—	Y	I	JLD

DEP-SOP-001/01: Form FD 9000-8 (June 20, 2001)

Field Instrument Calibration Records

INSTRUMENT (MAKE/MODEL#) Oakton PC 10 **INSTRUMENT #** 230579_____

PARAMETER: *[check only one]*

x TEMPERATURE x CONDUCTIVITY ☐ SALINITY x 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 Oakton 4.0 pH 3/2007

Standard B Oakton 7.0 pH 3/2007

Standard C Oakton 10.0 pH 3/2007

Standard D Oakton 1413 umhos 3/2007

Standard E Oakton 446 umhos 3/2007

DATE (d/m/y)	TIME (hr:min)	STD (A, B, C)	STD VALUE	INSTRUMENT RESPONSE	% DEV	CALIBRATED (YES, NO)	TYPE (INIT, CONT)	SAMPLER INITIALS
7/9/07	0910	A	4.0					
↓	↓	B	7.0	6.96	<1	Y	C	JHP
		C	10.0					
		D	1413	1417	<1	Y	C	JHP
		E	447					
7/11/07	1000	A	4.0					
		B	7.0	6.97	<1	Y	I	JHP
		C	10.0					
		D	1413	1420	<1	Y	I	JHP
		E	447					
7/13/07	1030	A	4.0					
		B	7.0	6.99	<1	Y	I	JHP
		C	10.0					
		D	1413					
		E	447	446	<1	Y	I	JHP
		A	4.0					
		B	7.0					
		C	10.0					
		D	1413					
		E	447					
		A	4.0					
		B	7.0					
		C	10.0					
		D	1413					
		E	447					

DEP-SOP-001/01: Form FD 9000-8 (June 20, 2001)

Field Instrument Calibration Records

INSTRUMENT (MAKE/MODEL#) LaMotte 2020 **INSTRUMENT #** 4473-2803_____

PARAMETER: *[check only one]*

☐ TEMPERATURE ☐ CONDUCTIVITY ☐ SALINITY ☐ pH ☐ ORP

x 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 *LaMotte 1.0 January 2007*

Standard B *LaMotte 10.0 January 2007*

DATE (yy/mm/dd)	TIME (hr:min)	STD (A, B, C)	STD VALUE	INSTRUMENT RESPONSE	% DEV	CALIBRATED (YES, NO)	TYPE (INIT, CONT)	SAMPLER INITIALS
7/10/7	0940	A	1.0	1.01	<1	Y	I	JH
"	"	B	10.0	10.00	—	"	"	
6/12/7	1130	A	1.0	1.00	—	"	I	JH
"	"	B	10.00	10.00	—	"	"	
6/15/7	1010	A	1.0	1.00	—	Y	I	JH
"	"	B	10.0	10.01	<1	"	"	
6/27/07	0750	A	1.0	1.02	<1	Y	I	JH
"	"	B	10.0	10.04	<1	"	"	
7/9/07	0450	A	1.0	0.99	<1	Y	I	JH
"	"	B	10.0	9.92	"	"	"	
7/9/07	0910	A	1.0	1.0	—	Y	C	JH
"	"	B	10.0	10.0	—	"	"	
7/11/07	1000	A	1.0	0.99	<1	Y	I	JH
"	"	B	10.0	9.98	"	"	"	
7/13/07	1030	A	1.0	1.00	—	Y	I	JH
"	"	B	10.0	9.99	<1	"	"	
		A	1.0					
		B	10.0					
		A	1.0					
		B	10.0					
		A	1.0					
		B	10.0					
		A	1.0					
		B	10.0					
		A	1.0					
		B	10.0					