

Jones Ecosystem Management

Ms. Shannon Camp
FDEP Southwest District
13051 North Telecon Parkway
Temple Terrace, Florida 33860

Dept. Of Environmental Protection

MAR 24 2015

Southwest District

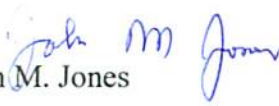
March 13, 2015

Dear Ms. Camp:

Per our previous correspondence, Raider has completed the actions and modifications to the facility requested by the Department. Attached are photographs of the concrete placed under oil transfer piping and the secondary containment around the off-loading stations (per the Tank Section guidance). Also included is an analysis of the sludge from the filters and strainers, confirming that the materials do not meet the definition of hazardous waste. Raider will also place temporary containment (similar to a "kiddie pool") under the filling area of the rail cars when transferring oil to the car.

Raider believes that the issues of concern of the Department have been addressed. Please let me know if you need any additional information.

Very Truly Yours,


John M. Jones

cc: Bob Mulholland
Steve Obst

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FDEP Southwest District
13051 North Telecon Parkway
Temple Terrace, Florida 33860

March 13, 2015

Dear Ms. Camp:

Per our previous correspondence, Raider has completed the actions and modifications to the facility requested by the Department. Attached are photographs of the concrete placed under oil transfer piping and the secondary containment around the off-loading stations (per the Tank Section guidance). Also included is an analysis of the sludge from the filters and strainers, confirming that the materials do not meet the definition of hazardous waste. Raider will also place temporary containment (similar to a "kiddie pool") under the filling area of the rail cars when transferring oil to the car.

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John M. Jones

cc: Bob Mulholland
Steve Obst





NELAP Certificate No E84880



1910 Harden Boulevard
Suite 101
Lakeland, FL 33803
(863) 686-4271 Phone
(863) 686-4389 Fax

Bob Mulholland
Raider Environmental Services
4103 NW 132nd Street
Opa Locka, FL 33054

29 January 2015
Lab Work Order (COC): 1501170

RE: **Raider**
Project Location: **Raider Sludge**
Project Number: **2-15**

Dear Bob Mulholland:

This report details the analytical results of samples collected at the above-referenced project location as well as the results of any associated quality control samples. These samples were taken into custody by Lakeland Laboratories at 21-Jan-15 15:55.

The work detailed herein has been conducted in accordance with generally accepted professional standards using recognized testing methodologies and quality control measures. It must be noted that the results detailed within this final report apply only to those samples submitted for analysis and reported here. When the NELAP logo is affixed to this report, these test results meet all requirements of the National Environmental Laboratory Accreditation Conference (NELAC).

Your samples will be retained by Lakeland Laboratories for a period of at least 30 days following sample receipt or until the longest of the preparation and/or analytical hold times expires, whichever is shorter. After that time, they will be properly disposed without further notice, unless there exists an explicit contractual agreement to the contrary. We reserve the right to return any unused samples, extracts, or related materials or solutions to you if we consider it necessary. Examples might include those samples identified as hazardous wastes, submissions where the sample sizes significantly exceed those required for analysis, samples containing controlled substances, etc.

The validity and integrity of this report will remain intact as long as it is accompanied by this letter and reproduced in full. We will maintain a copy of this report, electronic or otherwise, in our files for at least five years, after which time it may be destroyed without further notice, unless there exists an explicit contractual agreement to the contrary.

We thank you for selecting Lakeland Laboratories to serve your analytical needs. Should you have any questions or require additional information regarding any of the information in this report, please feel free to contact us at any time. We appreciate the opportunity to be of service.

Sincerely,

Technical Director
Jim Crawford For Mark Alessandrone



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Raider Environmental Services
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Opa Locka, FL 33054

Project Name: Raider
Project Number: 2-15
Project Location: Raider Sludge
Project Manager: Bob Mulholland

Reported:
29-Jan-15 10:21
Lab Work Order (COC): 1501170

ANALYTICAL REPORT FOR SAMPLES

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
12115-2	1501170-01	Sludge	21-Jan-15 15:15	21-Jan-15 15:55
12115-3	1501170-02	Sludge	21-Jan-15 15:15	21-Jan-15 15:55



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Project Location: Raider Sludge
Project Manager: Bob Mulholland

Reported:
29-Jan-15 10:21
Lab Work Order (COC): 1501170

12115-2
1501170-01 (Sludge)

Analyte	Result	PQL	MDL	Units	Dilution	%Rec	%Rec Limits	Qualifiers
Prepared: 27-Jan-15 03:49								
Analyzed: 27-Jan-15 03:49								
Batch: B501174								
EPA Methods 1311-8260C - TCLP Volatiles								
1,1-Dichloroethene	0.0295 U	0.200	0.0295	mg/L	100			
1,2-Dichloroethane	0.0284 U	0.200	0.0284	mg/L	100			
Benzene	0.0216 U	0.100	0.0216	mg/L	100			
1,4-Dichlorobenzene	0.0324 U	0.200	0.0324	mg/L	100			
2-Butanone (MEK)	0.500 U	2.00	0.500	mg/L	100			
Carbon Tetrachloride	0.0196 U	0.200	0.0196	mg/L	100			
Chlorobenzene	0.0336 U	0.200	0.0336	mg/L	100			
Chloroform	0.0834	0.200	0.0306	mg/L	100			I
Hexachlorobutadiene	0.0963 U	0.100	0.0963	mg/L	100			
Tetrachloroethene (PCE)	0.0215 U	0.200	0.0215	mg/L	100			
Trichloroethene (TCE)	0.0364 U	0.200	0.0364	mg/L	100			
Vinyl Chloride	0.0441 U	0.100	0.0441	mg/L	100			
Surrogate: 1,2-Dichloroethane-d4	55.0			ug/L		110 %	85-123	
Surrogate: Toluene-d8	45.6			ug/L		91 %	90-106	
Prepared: 26-Jan-15 13:10								
Analyzed: 27-Jan-15 23:02								
Batch: B501149								
EPA Methods 1311-8270D - TCLP BNAs								
1,4-Dichlorobenzene	0.00110 U	0.00500	0.00110	mg/L	1			
2,4,5-Trichlorophenol	0.00130 U	0.00500	0.00130	mg/L	1			
2,4,6-Trichlorophenol	0.00180 U	0.00500	0.00180	mg/L	1			
2,4-Dinitrotoluene	0.000910 U	0.00500	0.000910	mg/L	1			
2-Methylphenol	0.000530 U	0.00500	0.000530	mg/L	1			
3/4-Methylphenol	0.00180 U	0.00500	0.00180	mg/L	1			
Hexachlorobenzene	0.00110 U	0.00150	0.00110	mg/L	1			
Hexachlorobutadiene	0.00100 U	0.00500	0.00100	mg/L	1			
Hexachloroethane	0.00150 U	0.00500	0.00150	mg/L	1			
Nitrobenzene	0.000750 U	0.00350	0.000750	mg/L	1			
Pentachlorophenol	0.00170 U	0.0200	0.00170	mg/L	1			
Pyridine	0.000690 U	0.00500	0.000690	mg/L	1			
Surrogate: 2,4,6-Tribromophenol	0.0121			mg/L		24 %	15-122	
Surrogate: 2-Fluorobiphenyl	0.00768			mg/L		31 %	49-100	J2, J3



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Prepared: 26-Jan-15 13:10								
EPA Methods 1311-8270D - TCLP BNAs								
Analyzed: 27-Jan-15 23:02 Batch: B501149								
Surrogate: 2-Fluorophenol	0.00448			mg/L		9 %	1-100	
Surrogate: Nitrobenzene-d5	0.00651			mg/L		26 %	47-106	J2, J3
Surrogate: Phenol-d5	0.00248			mg/L		5 %	2-100	
Surrogate: Terphenyl-d14	0.00832			mg/L		33 %	56-108	J2, J3
Prepared: 26-Jan-15 13:12								
EPA Methods 1311-8081A - TCLP Pesticides								
Analyzed: 27-Jan-15 06:02 Batch: B501150								
gamma-BHC	0.0165 U	0.100	0.0165	ug/L	1			
Heptachlor	0.0140 U	0.0500	0.0140	ug/L	1			
Heptachlor Epoxide	0.0112 U	0.0800	0.0112	ug/L	1			
Endrin	0.0120 U	0.200	0.0120	ug/L	1			
Methoxychlor	0.0146 U	0.200	0.0146	ug/L	1			
Chlordane	0.273 U	1.00	0.273	ug/L	1			
Toxaphene	0.104 U	1.00	0.104	ug/L	1			
Surrogate: TCMX	0.0100			ug/L		40 %	39-100	
Surrogate: Decachlorobiphenyl	0.0170			ug/L		68 %	52-101	
Prepared: 23-Jan-15 09:35								
EPA Methods 1311-6010C - TCLP Metals								
Analyzed: 23-Jan-15 12:47 Batch: B501132								
Arsenic	0.0400 U	0.100	0.0400	mg/L	10			
Barium	0.0300 U	0.250	0.0300	mg/L	10			
Cadmium	0.0100 U	0.0500	0.0100	mg/L	10			
Chromium	0.0400 U	0.100	0.0400	mg/L	10			
Lead	0.0400 U	0.100	0.0400	mg/L	10			
Selenium	0.0400 U	0.100	0.0400	mg/L	10			
Silver	0.0800 U	0.250	0.0800	mg/L	10			



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12115-2
1501170-01 (Sludge)

Analyte	Result	PQL	MDL	Units	Dilution	%Rec	%Rec Limits	Qualifiers
				Prepared: 23-Jan-15 13:07				
EPA Methods 1311-7470A - TCLP Mercury				Analyzed: 23-Jan-15 14:00		Batch: B501138		
Mercury	0.00220 U	0.0100	0.00220	mg/L	10			



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Project Location: Raider Sludge
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Reported:
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Lab Work Order (COC): 1501170

12115-3
1501170-02 (Sludge)

Analyte	Result	PQL	MDL	Units	Dilution	%Rec	%Rec Limits	Qualifiers
Prepared: 27-Jan-15 04:18								
Analyzed: 27-Jan-15 04:18					Batch: B501174			
EPA Methods 1311-8260C - TCLP Volatiles								
1,1-Dichloroethene	0.0295 U	0.200	0.0295	mg/L	100			
1,2-Dichloroethane	0.0284 U	0.200	0.0284	mg/L	100			
Benzene	0.0216 U	0.100	0.0216	mg/L	100			
1,4-Dichlorobenzene	0.0324 U	0.200	0.0324	mg/L	100			
2-Butanone (MEK)	0.500 U	2.00	0.500	mg/L	100			
Carbon Tetrachloride	0.0196 U	0.200	0.0196	mg/L	100			
Chlorobenzene	0.0336 U	0.200	0.0336	mg/L	100			
Chloroform	0.0732	0.200	0.0306	mg/L	100			I
Hexachlorobutadiene	0.0963 U	0.100	0.0963	mg/L	100			
Tetrachloroethene (PCE)	0.0215 U	0.200	0.0215	mg/L	100			
Trichloroethene (TCE)	0.0364 U	0.200	0.0364	mg/L	100			
Vinyl Chloride	0.0441 U	0.100	0.0441	mg/L	100			
Surrogate: 1,2-Dichloroethane-d4	55.7			ug/L		111 %	85-123	
Surrogate: Toluene-d8	44.8			ug/L		90 %	90-106	
Prepared: 26-Jan-15 13:10								
Analyzed: 27-Jan-15 23:38					Batch: B501149			
EPA Methods 1311-8270D - TCLP BNAs								
1,4-Dichlorobenzene	0.00110 U	0.00500	0.00110	mg/L	1			
2,4,5-Trichlorophenol	0.00130 U	0.00500	0.00130	mg/L	1			
2,4,6-Trichlorophenol	0.00180 U	0.00500	0.00180	mg/L	1			
2,4-Dinitrotoluene	0.000910 U	0.00500	0.000910	mg/L	1			
2-Methylphenol	0.000530 U	0.00500	0.000530	mg/L	1			
3/4-Methylphenol	0.00180 U	0.00500	0.00180	mg/L	1			
Hexachlorobenzene	0.00110 U	0.00150	0.00110	mg/L	1			
Hexachlorobutadiene	0.00100 U	0.00500	0.00100	mg/L	1			
Hexachloroethane	0.00150 U	0.00500	0.00150	mg/L	1			
Nitrobenzene	0.000750 U	0.00350	0.000750	mg/L	1			
Pentachlorophenol	0.00170 U	0.0200	0.00170	mg/L	1			
Pyndine	0.000690 U	0.00500	0.000690	mg/L	1			
Surrogate: 2,4,6-Tribromophenol	0.0257			mg/L		51 %	15-122	
Surrogate: 2-Fluorobiphenyl	0.0153			mg/L		61 %	49-100	



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Project Manager: Bob Mulholland

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Lab Work Order (COC) 1501170

12115-3
1501170-02 (Sludge)

Analyte	Result	PQL	MDL	Units	Dilution	%Rec	%Rec Limits	Qualifiers
Prepared: 26-Jan-15 13:10								
Analyzed: 27-Jan-15 23:38 Batch: B501149								
EPA Methods 1311-8270D - TCLP BNAs								
Surrogate: 2-Fluorophenol	0.0103			mg/L		21 %	1-100	
Surrogate: Nitrobenzene-d5	0.0129			mg/L		52 %	47-106	
Surrogate: Phenol-d5	0.00615			mg/L		12 %	2-100	
Surrogate: Terphenyl-d14	0.0181			mg/L		72 %	56-108	
Prepared: 26-Jan-15 13:12								
Analyzed: 27-Jan-15 06:36 Batch: B501150								
EPA Methods 1311-8081A - TCLP Pesticides								
gamma-BHC	0.0230	0.100	0.0165	ug/L	1			I
Heptachlor	0.0140 U	0.0500	0.0140	ug/L	1			
Heptachlor Epoxide	0.0112 U	0.0800	0.0112	ug/L	1			
Endrin	0.0120 U	0.200	0.0120	ug/L	1			
Methoxychlor	0.0146 U	0.200	0.0146	ug/L	1			
Chlordane	0.273 U	1.00	0.273	ug/L	1			
Toxaphene	0.104 U	1.00	0.104	ug/L	1			
Surrogate: TCMX	0.0180			ug/L		72 %	39-100	
Surrogate: Decachlorobiphenyl	0.0240			ug/L		96 %	52-101	
Prepared: 23-Jan-15 09:35								
Analyzed: 23-Jan-15 12:51 Batch: B501132								
EPA Methods 1311-6010C - TCLP Metals								
Arsenic	0.0400 U	0.100	0.0400	mg/L	10			
Barium	0.0300 U	0.250	0.0300	mg/L	10			
Cadmium	0.0100 U	0.0500	0.0100	mg/L	10			
Chromium	0.0400 U	0.100	0.0400	mg/L	10			
Lead	0.0400 U	0.100	0.0400	mg/L	10			
Selenium	0.0400 U	0.100	0.0400	mg/L	10			
Silver	0.0800 U	0.250	0.0800	mg/L	10			

Analyte	Result	POL	MDL	Units	Dilution	%Rec	Limits	Qualifiers
Mercury	0.00220 U	0.0100	0.00220	mg/L	10			
EPA Methods 1311-7470A - TCLP Mercury								
Prepared: 23-Jan-15 13:07								
Analyzed: 23-Jan-15 14:00								
Batch: B501138								

12115-3
1501170-02 (Sludge)

Raider Environmental Services
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NELAP Certificate No. E84880



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Project Name: Raider
Project Number: 2-15
Project Location: Raider Sludge
Project Manager: Bob Mulholland

Reported:
29-Jan-15 10:21
Lab Work Order (COC): 1501170



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EPA Methods 1311-8260C - TCLP Volatiles - Quality Control

Lakeland Laboratories, LLC

Analyte	Result	PQL	MDL	Units	Spike Level	Source Result	%Rec	%Rec Limits	RPD	RPD Limit	Qualifiers
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Batch: B501174 - Prep Method: 5030B

Blank (B501174-BLK1)

Prepared: 27-Jan-15 03:20

Analyzed: 27-Jan-15 03:20

1,1-Dichloroethene	0.0295 U	0.200	0.0295	mg/L
1,2-Dichloroethane	0.0284 U	0.200	0.0284	mg/L
Benzene	0.0216 U	0.100	0.0216	mg/L
1,4-Dichlorobenzene	0.0324 U	0.200	0.0324	mg/L
2-Butanone (MEK)	0.500 U	2.00	0.500	mg/L
Carbon Tetrachloride	0.0196 U	0.200	0.0196	mg/L
Chlorobenzene	0.0336 U	0.200	0.0336	mg/L
Chloroform	0.0306 U	0.200	0.0306	mg/L
Hexachlorobutadiene	0.0963 U	0.100	0.0963	mg/L
Tetrachloroethene (PCE)	0.0215 U	0.200	0.0215	mg/L
Trichloroethene (TCE)	0.0364 U	0.200	0.0364	mg/L
Vinyl Chloride	0.0441 U	0.100	0.0441	mg/L

Surrogate: 1,2-Dichloroethane-d4

54.4

ug/L 50.0

109 85-123

Surrogate: Toluene-d8

46.1

ug/L 50.0

92 90-106

LCS (B501174-BS1)

Prepared: 27-Jan-15 01:00

Analyzed: 27-Jan-15 01:00

1,1-Dichloroethene	0.0418	0.00200	0.000295	mg/L	0.0400	105	68-125
1,2-Dichloroethane	0.0380	0.00200	0.000284	mg/L	0.0400	95	72-121
Benzene	0.0412	0.00100	0.000216	mg/L	0.0400	103	77-119
1,4-Dichlorobenzene	0.0374	0.00200	0.000324	mg/L	0.0400	94	74-105
2-Butanone (MEK)	0.0869	0.0200	0.00500	mg/L	0.100	87	57-139
Carbon Tetrachloride	0.0398	0.00200	0.000196	mg/L	0.0400	99	68-135
Chlorobenzene	0.0380	0.00200	0.000336	mg/L	0.0400	95	75-114
Chloroform	0.0389	0.00200	0.000306	mg/L	0.0400	97	63-122
Hexachlorobutadiene	0.0392	0.00100	0.000963	mg/L	0.0400	98	66-110
Tetrachloroethene (PCE)	0.0416	0.00200	0.000215	mg/L	0.0400	104	48-156
Trichloroethene (TCE)	0.0391	0.00200	0.000364	mg/L	0.0400	98	74-121
Vinyl Chloride	0.0406	0.00100	0.000441	mg/L	0.0400	102	75-120

Surrogate: 1,2-Dichloroethane-d4

49.5

ug/L 50.0

99 85-123

Surrogate: Toluene-d8

51.5

ug/L 50.0

103 90-106



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EPA Methods 1311-8260C - TCLP Volatiles - Quality Control

Lakeland Laboratories, LLC

Analyte	Result	PQL	MDL	Units	Spike Level	Source Result	%Rec	%Rec Limits	RPD RPD Limit	Qualifiers
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Batch: B501174 - Prep Method: 5030B

Matrix Spike (B501174-MS1)	Source: 1501170-01			Prepared: 27-Jan-15 04:47		Analyzed: 27-Jan-15 04:47				
1,1-Dichloroethene	4.16	0.200	0.0295	mg/L	4.00	0.0295 U	104	74-128		
1,2-Dichloroethane	3.91	0.200	0.0284	mg/L	4.00	0.0284 U	98	70-124		
Benzene	4.13	0.100	0.0216	mg/L	4.00	0.0216 U	103	83-118		
1,4-Dichlorobenzene	3.72	0.200	0.0324	mg/L	4.00	0.0324 U	93	79-108		
2-Butanone (MEK)	8.44	2.00	0.500	mg/L	10.0	0.500 U	84	48-142		
Carbon Tetrachloride	4.07	0.200	0.0196	mg/L	4.00	0.0196 U	102	81-130		
Chlorobenzene	3.82	0.200	0.0336	mg/L	4.00	0.0336 U	95	82-112		
Chloroform	4.02	0.200	0.0306	mg/L	4.00	0.0834	99	73-116		
Hexachlorobutadiene	3.71	0.100	0.0963	mg/L	4.00	0.0963 U	93	73-120		
Tetrachloroethene (PCE)	3.97	0.200	0.0215	mg/L	4.00	0.0215 U	99	56-140		
Trichloroethene (TCE)	3.80	0.200	0.0364	mg/L	4.00	0.0364 U	95	84-117		
Vinyl Chloride	4.14	0.100	0.0441	mg/L	4.00	0.0441 U	104	75-123		
Surrogate: 1,2-Dichloroethane-d4	50.9			ug/L	50.0		102	85-123		
Surrogate: Toluene-d8	51.9			ug/L	50.0		104	90-106		

Matrix Spike Dup (B501174-MSD1)	Source: 1501170-01			Prepared: 27-Jan-15 05:15		Analyzed: 27-Jan-15 05:15				
1,1-Dichloroethene	4.40	0.200	0.0295	mg/L	4.00	0.0295 U	110	74-128	6	20
1,2-Dichloroethane	4.12	0.200	0.0284	mg/L	4.00	0.0284 U	103	70-124	5	20
Benzene	4.40	0.100	0.0216	mg/L	4.00	0.0216 U	110	83-118	6	20
1,4-Dichlorobenzene	4.01	0.200	0.0324	mg/L	4.00	0.0324 U	100	79-108	7	20
2-Butanone (MEK)	9.34	2.00	0.500	mg/L	10.0	0.500 U	93	48-142	10	20
Carbon Tetrachloride	4.32	0.200	0.0196	mg/L	4.00	0.0196 U	108	81-130	6	20
Chlorobenzene	4.10	0.200	0.0336	mg/L	4.00	0.0336 U	102	82-112	7	20
Chloroform	4.26	0.200	0.0306	mg/L	4.00	0.0834	104	73-116	6	20
Hexachlorobutadiene	4.39	0.100	0.0963	mg/L	4.00	0.0963 U	110	73-120	17	20
Tetrachloroethene (PCE)	4.18	0.200	0.0215	mg/L	4.00	0.0215 U	105	56-140	5	20
Trichloroethene (TCE)	4.10	0.200	0.0364	mg/L	4.00	0.0364 U	102	84-117	8	20
Vinyl Chloride	4.43	0.100	0.0441	mg/L	4.00	0.0441 U	111	75-123	7	20
Surrogate: 1,2-Dichloroethane-d4	49.9			ug/L	50.0		100	85-123		
Surrogate: Toluene-d8	51.6			ug/L	50.0		103	90-106		



NELAP Certificate No E84880



1910 Harden Boulevard
Suite 101
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(863) 686-4271 Phone
(863) 686-4389 Fax

Raider Environmental Services
4103 NW 132nd Street
Opa Locka, FL 33054

Project Name: Raider
Project Number: 2-15
Project Location: Raider Sludge
Project Manager: Bob Mulholland

Reported:
29-Jan-15 10:21
Lab Work Order (COC): 1501170

EPA Methods 1311-8270D - TCLP BNAs - Quality Control

Lakeland Laboratories, LLC

Analyte	Result	PQL	MDL	Units	Spike Level	Source Result	%Rec	%Rec Limits	RPD	RPD Limit	Qualifiers
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Batch: B501149 - Prep Method: 3510C

Blank (B501149-BLK1) Prepared: 26-Jan-15 13:10 Analyzed: 27-Jan-15 15:17

1,4-Dichlorobenzene	0.00110 U	0.00500	0.00110	mg/L							
2,4,5-Trichlorophenol	0.00130 U	0.00500	0.00130	mg/L							
2,4,6-Trichlorophenol	0.00180 U	0.00500	0.00180	mg/L							
2,4-Dinitrotoluene	0.000910 U	0.00500	0.000910	mg/L							
2-Methylphenol	0.000530 U	0.00500	0.000530	mg/L							
3/4-Methylphenol	0.00180 U	0.00500	0.00180	mg/L							
Hexachlorobenzene	0.00110 U	0.00150	0.00110	mg/L							
Hexachlorobutadiene	0.00100 U	0.00500	0.00100	mg/L							
Hexachloroethane	0.00150 U	0.00500	0.00150	mg/L							
Nitrobenzene	0.000750 U	0.00350	0.000750	mg/L							
Pentachlorophenol	0.00170 U	0.0200	0.00170	mg/L							
Pyridine	0.000690 U	0.00500	0.000690	mg/L							
Surrogate: 2,4,6-Tribromophenol	0.0315			mg/L	0.0500		63	15-122			
Surrogate: 2-Fluorobiphenyl	0.0183			mg/L	0.0250		73	49-100			
Surrogate: 2-Fluorophenol	0.0132			mg/L	0.0500		26	1-100			
Surrogate: Nitrobenzene-d5	0.0151			mg/L	0.0250		61	47-106			
Surrogate: Phenol-d5	0.00756			mg/L	0.0500		15	2-100			
Surrogate: Terphenyl-d14	0.0210			mg/L	0.0250		84	56-108			

LCS (B501149-BS1) Prepared: 26-Jan-15 13:10 Analyzed: 27-Jan-15 15:53

1,4-Dichlorobenzene	0.0794	0.00500	0.00110	mg/L	0.100		79	53-100			
2,4-Dinitrotoluene	0.0718	0.00500	0.000910	mg/L	0.100		72	47-109			
Pentachlorophenol	0.108	0.0200	0.00170	mg/L	0.150		72	39-103			
Surrogate: 2,4,6-Tribromophenol	0.0314			mg/L	0.0500		63	15-122			
Surrogate: 2-Fluorobiphenyl	0.0185			mg/L	0.0250		74	49-100			
Surrogate: 2-Fluorophenol	0.0148			mg/L	0.0500		30	1-100			
Surrogate: Nitrobenzene-d5	0.0159			mg/L	0.0250		63	47-106			
Surrogate: Phenol-d5	0.00879			mg/L	0.0500		18	2-100			
Surrogate: Terphenyl-d14	0.0208			mg/L	0.0250		83	56-108			



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Raider Environmental Services
4103 NW 132nd Street
Opa Locka, FL 33054

Project Name: Raider
Project Number: 2-15
Project Location: Raider Sludge
Project Manager: Bob Mulholland

Reported:
29-Jan-15 10:21
Lab Work Order (COC): 1501170

EPA Methods 1311-8270D - TCLP BNAs - Quality Control
Lakeland Laboratories, LLC

Analyte	Result	PQL	MDL	Units	Spike Level	Source Result	%Rec	%Rec Limits	RPD	RPD Limit	Qualifiers
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Batch: B501149 - Prep Method: 3510C

LCS Dup (B501149-BS01)					Prepared: 26-Jan-15 13:10		Analyzed: 27-Jan-15 16:29			
1,4-Dichlorobenzene	0.0742	0.00500	0.00110	mg/L	0.100	74	53-100	7	25	
2,4-Dinitrotoluene	0.0685	0.00500	0.000910	mg/L	0.100	69	47-109	5	25	
Pentachlorophenol	0.102	0.0200	0.00170	mg/L	0.150	68	39-103	5	25	
Surrogate: 2,4,6-Tribromophenol	0.0307			mg/L	0.0500	61	15-122			
Surrogate: 2-Fluorobiphenyl	0.0180			mg/L	0.0250	72	49-100			
Surrogate: 2-Fluorophenol	0.0140			mg/L	0.0500	28	1-100			
Surrogate: Nitrobenzene-d5	0.0154			mg/L	0.0250	61	47-106			
Surrogate: Phenol-d5	0.00841			mg/L	0.0500	17	2-100			
Surrogate: Terphenyl-d14	0.0204			mg/L	0.0250	82	56-108			



NELAP Certificate No. E84880



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Raider Environmental Services
4103 NW 132nd Street
Opa Locka, FL 33054

Project Name: Raider
Project Number: 2-15
Project Location: Raider Sludge
Project Manager: Bob Mulholland

Reported:
29-Jan-15 10:21
Lab Work Order (COC): 1501170

EPA Methods 1311-8081A - TCLP Pesticides - Quality Control

Lakeland Laboratories, LLC

Analyte	Result	PQL	MDL	Units	Spike Level	Source Result	%Rec	%Rec Limits	RPD	RPD Limit	Qualifiers
Batch: B501150 - Prep Method: 3510C											
Blank (B501150-BLK1)					Prepared: 26-Jan-15 13:12		Analyzed: 26-Jan-15 21:39				
gamma-BHC	0.0165 U	0.100	0.0165	ug/L							
Heptachlor	0.0140 U	0.0500	0.0140	ug/L							
Heptachlor Epoxide	0.0112 U	0.0800	0.0112	ug/L							
Endrin	0.0120 U	0.200	0.0120	ug/L							
Methoxychlor	0.0146 U	0.200	0.0146	ug/L							
Chlordane	0.273 U	1.00	0.273	ug/L							
Toxaphene	0.104 U	1.00	0.104	ug/L							
Surrogate: TCMX	0.0180			ug/L	0.0250		72	39-100			
Surrogate: Decachlorobiphenyl	0.0250			ug/L	0.0250		100	52-101			
LCS (B501150-BS1)					Prepared: 26-Jan-15 13:12		Analyzed: 26-Jan-15 22:12				
gamma-BHC	0.0460	0.100	0.0165	ug/L	0.0500		92	53-119			
Heptachlor	0.0380	0.0500	0.0140	ug/L	0.0500		76	41-126			
Heptachlor Epoxide	0.0360	0.0800	0.0112	ug/L	0.0500		72	56-116			
Endrin	0.0390	0.200	0.0120	ug/L	0.0500		78	57-125			
Methoxychlor	0.0510	0.200	0.0146	ug/L	0.0500		102	53-137			
Surrogate: TCMX	0.0170			ug/L	0.0250		68	39-100			
Surrogate: Decachlorobiphenyl	0.0230			ug/L	0.0250		92	52-101			
LCS Dup (B501150-BSD1)					Prepared: 26-Jan-15 13:12		Analyzed: 26-Jan-15 22:46				
gamma-BHC	0.0400	0.100	0.0165	ug/L	0.0500		80	53-119	14	25	
Heptachlor	0.0320	0.0500	0.0140	ug/L	0.0500		64	41-126	17	25	
Heptachlor Epoxide	0.0320	0.0800	0.0112	ug/L	0.0500		64	56-116	12	25	
Endrin	0.0340	0.200	0.0120	ug/L	0.0500		68	57-125	14	25	
Methoxychlor	0.0450	0.200	0.0146	ug/L	0.0500		90	53-137	12	25	
Surrogate: TCMX	0.0160			ug/L	0.0250		64	39-100			
Surrogate: Decachlorobiphenyl	0.0210			ug/L	0.0250		84	52-101			



NELAP Certificate No E84880



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Raider Environmental Services
4103 NW 132nd Street
Opa Locka, FL 33054

Project Name: Raider
Project Number: 2-15
Project Location: Raider Sludge
Project Manager: Bob Mulholland

Reported:
29-Jan-15 10:21
Lab Work Order (COC) 1501170

EPA Methods 1311-6010C - TCLP Metals - Quality Control

Lakeland Laboratories, LLC

Analyte	Result	PQL	MDL	Units	Spike Level	Source Result	%Rec	%Rec Limits	RPD	RPD Limit	Qualifiers
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Batch: B501132 - Prop Method: 3010A

Matrix Spike Dup (B501132-MSD1)	Source: 1501170-01				Prepared: 23-Jan-15 09:35			Analyzed: 23-Jan-15 12:31			
Arsenic	5.36	0.100	0.0400	mg/L	5.00	0.0400 U	107	75-125	0.09	20	
Barium	5.36	0.250	0.0300	mg/L	5.00	0.0300 U	107	75-125	0.7	20	
Cadmium	5.28	0.0500	0.0100	mg/L	5.00	0.0100 U	106	75-125	0.2	20	
Chromium	4.92	0.100	0.0400	mg/L	5.00	0.0400 U	98	75-125	0.6	20	
Lead	5.22	0.100	0.0400	mg/L	5.00	0.0400 U	104	75-125	0.7	20	
Selenium	5.66	0.100	0.0400	mg/L	5.00	0.0400 U	113	75-125	0.5	20	
Silver	5.03	0.250	0.0800	mg/L	5.00	0.0800 U	101	75-125	1	20	

Batch: B501138 - Prep Method: 7470A									
Blank (B501138-BLK1)	Prepared: 23-Jan-15 13:07	Analyzed: 23-Jan-15 14:00							
Mercury	0.00220 U	0.0100	0.00220	mg/L					
LCS (B501138-BS1)	Prepared: 23-Jan-15 13:07	Analyzed: 23-Jan-15 14:00							
Mercury	0.0518	0.0100	0.00220	mg/L	0.0500	104	85-115		
LCS Dup (B501138-BSD1)	Prepared: 23-Jan-15 13:07	Analyzed: 23-Jan-15 14:00							
Mercury	0.0468	0.0100	0.00220	mg/L	0.0500	94	85-115	10	25
Matrix Spike (B501138-MS1)	Source: 1501011-01	Prepared: 23-Jan-15 13:07	Analyzed: 23-Jan-15 14:00						
Mercury	0.0498	0.0100	0.00220	mg/L	0.0500	100	85-115		
Matrix Spike Dup (B501138-MSD1)	Source: 1501011-01	Prepared: 23-Jan-15 13:07	Analyzed: 23-Jan-15 14:00						
Mercury	0.0498	0.0100	0.00220	mg/L	0.0500	100	85-115	0	25

Analyte	Result	PQL	MDL	Units	Spike Level	Source Result	%Rec	Limits	RPD	RPD Limit	Qualifiers
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EPA Methods 1311-7470A - TCLP Mercury - Quality Control
Lakeland Laboratories, LLC

Project Name: Raider
Project Number: 2-15
Project Location: Raider Sludge
Project Manager: Bob Mulholland
Reported: 29-Jan-15 10:21
Lab Work Order (COC) 1501170



NELAP Accredited Laboratory
Certificate No. E84880



LAKELAND LABORATORIES

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NELAP Certificate No E84880



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Raider Environmental Services
4103 NW 132nd Street
Opa Locka, FL 33054

Project Name: Raider
Project Number: 2-15
Project Location: Raider Sludge
Project Manager: Bob Mulholland

Reported:
29-Jan-15 10 21
Lab Work Order (COC) 1501170

Notes and Definitions

- J3 The sample matrix interfered with the ability to make any accurate determination.
- J2 The reported value failed to meet the established quality control criteria for precision and/or accuracy.
- I Result is between LOQ/PQL and LOD/MDL.
- DET Analyte DETECTED
- U Analyte NOT DETECTED at or above the MDL
- NR Not Reported
- dry Sample results reported on a dry weight basis
- RPD Relative Percent Difference
- PQL Practical Quantitation Limit
- MDL Method Detection Limit
- MRL Method Reporting Limit
- Results of liquid samples are reported on a wet-weight basis unless otherwise indicated. Results of solid samples are reported on a dry-weight basis unless otherwise indicated.



Report To:
Mark Alessandroni
Lakeland Laboratories
1910 Harden Boulevard Suite 101
Lakeland FL. 33803-1829

Page 1 of 5

Report Printed: 2/5/2015
Work Order # 15A0779
Project:
Raider

1501170

Lab ID: 15A0779-01
Client Sample ID: 1501170-01 (12115-2)
Matrix: Solid

Collection Date: 01/21/15 15:15
Received Date: 01/30/15 14:05
Collected By: Bob Mulholland

Laboratory Analysis Report

Parameter	Result	QC	Units	Dil	MDL	PQL	Method	Date Ext.	Date Analy.	Analyst
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TCLP Chlorinated Herbicides by EPA Method 1311/8151A

2,4,5-T	ND	U	ug/L.	2	0.0104	0.0312	EPA 8151	02/02/09 48	02/03/20 05	AC
2,4,5-TP (Silvex)	ND	U	ug/L.	2	0.00960	0.0288	EPA 8151	02/02/09 48	02/03/20 05	AC
2,4-D	ND	U	ug/L.	2	0.0212	0.0636	EPA 8151	02/02/09 48	02/03/20 05	AC
2,4-DB	ND	U	ug/L.	2	0.275	0.826	EPA 8151	02/02/09 48	02/03/20 05	AC
3,5-Dichlorobenzoic acid	ND	U	ug/L.	2	0.0278	0.0834	EPA 8151	02/02/09 48	02/03/20 05	AC
4-Nitrophenol~	ND	U	ug/L.	2	0.116	0.347	EPA 8151	02/02/09 48	02/03/20 05	AC
Acifluorfen	ND	U	ug/L.	2	0.0184	0.0552	EPA 8151	02/02/09 48	02/03/20 05	AC
Bentazon	ND	U	ug/L.	2	0.377	1.13	EPA 8151	02/02/09 48	02/03/20 05	AC
Chloramben	ND	J-2, U	ug/L.	2	0.0172	0.0516	EPA 8151	02/02/09 48	02/03/20 05	AC
Dalapon	ND	U	ug/L.	2	0.0320	0.0960	EPA 8151	02/02/09 48	02/03/20 05	AC
DCPA	ND	U	ug/L.	2	0.0146	0.0438	EPA 8151	02/02/09 48	02/03/20 05	AC
Dicamba	ND	U	ug/L.	2	0.0326	0.0978	EPA 8151	02/02/09 48	02/03/20 05	AC
Dichloroprop	ND	U	ug/L.	2	0.0524	0.157	EPA 8151	02/02/09 48	02/03/20 05	AC
Dinoseb	ND	U	ug/L.	2	0.0220	0.0660	EPA 8151	02/02/09 48	02/03/20 05	AC
MCPA	ND	U	ug/L.	2	5.45	16.4	EPA 8151	02/02/09 48	02/03/20 05	AC
MCPP	ND	U	ug/L.	2	4.53	13.6	EPA 8151	02/02/09 48	02/03/20 05	AC
Pentachlorophenol~	ND	U	ug/L.	2	0.0114	0.0342	EPA 8151	02/02/09 48	02/03/20 05	AC
Picloram	ND	U	ug/L.	2	0.0342	0.103	EPA 8151	02/02/09 48	02/03/20 05	AC

Florida-Spectrum Environmental Services, Inc.
1460 W. McNab Road, Fort Lauderdale, FL 33309

Pembroke Laboratory
528 Gooch Rd
Fort Mead, FL 33841

Big Lake Laboratory
610 Parrot Ave N
Okeechobee, FL 34972

Spectrum Laboratories
630 Indian St
Savannah, GA 31401



Report To:
Mark Alessandroni
Lakeland Laboratories
1910 Harden Boulevard Suite 101
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Page 2 of 5

Report Printed: 2/5/2015
Work Order # 15A0779
Project:
Raider

1501170

Lab ID: 15A0779-02
Client Sample ID: 1501170-02 (12115-3)
Matrix: Solid

Collection Date: 01/21/15 15:15
Received Date: 01/30/15 14:05
Collected By: Bob Mulholland

Laboratory Analysis Report

Parameter	Result	QC	Units	Dil	MDL	PQL	Method	Date Ext.	Date Analy.	Analyst
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TCLP Chlorinated Herbicides by EPA Method 1311/8151A

2,4,5-T	ND	U	ug/L	2	0.0104	0.0312	EPA 8151	02/02 09:48	02/03 20:40	AC
2,4,5-TP (Silvex)	ND	U	ug/L	2	0.00960	0.0288	EPA 8151	02/02 09:48	02/03 20:40	AC
2,4-D	ND	U	ug/L	2	0.0212	0.0636	EPA 8151	02/02 09:48	02/03 20:40	AC
2,4-DB	ND	U	ug/L	2	0.275	0.826	EPA 8151	02/02 09:48	02/03 20:40	AC
3,5-Dichlorobenzoic acid	ND	U	ug/L	2	0.0278	0.0834	EPA 8151	02/02 09:48	02/03 20:40	AC
4-Nitrophenol-	ND	U	ug/L	2	0.116	0.347	EPA 8151	02/02 09:48	02/03 20:40	AC
Acifluorfen	ND	U	ug/L	2	0.0184	0.0552	EPA 8151	02/02 09:48	02/03 20:40	AC
Bentazon	ND	U	ug/L	2	0.377	1.13	EPA 8151	02/02 09:48	02/03 20:40	AC
Chloramben	ND	J-2, U	ug/L	2	0.0172	0.0516	EPA 8151	02/02 09:48	02/03 20:40	AC
Dalapon	ND	U	ug/L	2	0.0320	0.0960	EPA 8151	02/02 09:48	02/03 20:40	AC
DCPA	ND	U	ug/L	2	0.0146	0.0438	EPA 8151	02/02 09:48	02/03 20:40	AC
Dicamba	ND	U	ug/L	2	0.0326	0.0978	EPA 8151	02/02 09:48	02/03 20:40	AC
Dichloroprop	ND	U	ug/L	2	0.0524	0.157	EPA 8151	02/02 09:48	02/03 20:40	AC
Duoseb	ND	U	ug/L	2	0.0220	0.0660	EPA 8151	02/02 09:48	02/03 20:40	AC
MCPA	ND	U	ug/L	2	5.45	16.4	EPA 8151	02/02 09:48	02/03 20:40	AC
MCPP	ND	U	ug/L	2	4.53	13.6	EPA 8151	02/02 09:48	02/03 20:40	AC
Pentachlorophenol-	ND	U	ug/L	2	0.0114	0.0342	EPA 8151	02/02 09:48	02/03 20:40	AC
Picloram	ND	U	ug/L	2	0.0342	0.103	EPA 8151	02/02 09:48	02/03 20:40	AC

Florida-Spectrum Environmental Services, Inc
1460 W McNab Road, Fort Lauderdale, FL 33309

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Report To:
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Page 3 of 5

Report Printed: 2/5/2015
Work Order # 15A0779
Project:
Raider

1501170

TCLP Chlorinated Herbicides by EPA Method 1311/8151A - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 1502009 - EPA 3510										
Blank (1502009-BL.K1)										
Prepared 02/02/2015 Analyzed 02/03/2015										
2,4,5-T	ND	0.0156	ug/L							1
2,4,5-TP (Silvex)	ND	0.0144	"							1
2,4-D	ND	0.0318	"							1
2,4-DB	ND	0.413	"							1
3,5-Dichlorobenzoic acid	ND	0.0417	"							1
4-Nitrophenol	ND	0.173	"							1
Acifluorfen	ND	0.0276	"							1
Bentazon	ND	0.566	"							1
Chloramben	ND	0.0258	"							1
Dalapon	ND	0.0480	"							1
DCPA	ND	0.0219	"							1
Dicamba	ND	0.0489	"							1
Dichloroprop	ND	0.0786	"							1
Dimoseb	ND	0.0330	"							1
MCPA	ND	8.18	"							1
MICPP	ND	6.79	"							1
Pentachlorophenol	ND	0.0171	"							1
Picloram	ND	0.0513	"							1
LCS (1502009-BS1)										
Prepared 02/02/2015 Analyzed 02/03/2015										
2,4,5-T	1.27	0.0156	ug/L	1.000		127	40-140			
2,4,5-TP (Silvex)	1.19	0.0144	"	1.000		119	40-140			
2,4-D	1.15	0.0318	"	1.000		115	40-140			
2,4-DB	0.869	0.413	"	1.000		86.9	40-140			
3,5-Dichlorobenzoic acid	1.12	0.0417	"	1.000		112	40-140			
4-Nitrophenol	0.743	0.173	"	1.000		74.3	40-140			
Acifluorfen	1.03	0.0276	"	1.000		103	40-140			
Bentazon	0.586	0.566	"	1.000		58.6	40-140			
Chloramben	0.327	0.0258	"	1.000		32.7	40-140			J-2
Dalapon	0.612	0.0480	"	1.000		61.2	40-140			
DCPA	0.662	0.0219	"	1.000		66.2	40-140			
Dicamba	0.861	0.0489	"	1.000		86.1	40-140			

Florida-Spectrum Environmental Services, Inc.
1460 W. McNab Road, Fort Lauderdale, FL 33309

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Fort Mead, FL 33841

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610 Parrot Ave. N
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Spectrum Laboratories
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Report To:
Mark Alessandrini
Lakeland Laboratories
1910 Harden Boulevard Suite 101
Lakeland FL, 33803-1829

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1501170

TCLP Chlorinated Herbicides by EPA Method 1311/8151A - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 1502009 - EPA 3510										
LCS (1502009-B51)										
				Prepared 02/02/2015 Analyzed 02/03/2015						
Dichloroprop	1.14	0.0786	ug/L	1.000		114	40-140			
Dinoseb	0.526	0.0330	-	1.000		52.6	40-140			
MCPA	108	8.18	-	100.0		108	40-140			
MCPP	139	6.79	-	100.0		139	40-140			
Pentachlorophenol	109	0.0171	-	1.000		109	40-140			
Picloram	0.910	0.0513	-	1.000		91.0	40-140			
Blank (1502009-BLK1)										
				Prepared 02/02/2015 Analyzed 02/03/2015						
Surrogate 2,4-Dichlorophenylacetic acid	4.19		ug/L	10.000		41.9	77-164			J-1
LCS (1502009-B51)										
				Prepared 02/02/2015 Analyzed 02/03/2015						
Surrogate 2,4-Dichlorophenylacetic acid	2.83		ug/L	2.000		142	77-164			

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1501170

Notes and Definitions

- U Indicated that the compound was analyzed for but not detected. This shall be used to indicate that the specific component was not detected. The value associated with the qualifier shall be the laboratory method detection limit.
- J-2 The laboratory control sample recovery exceeded method acceptance limits.
- J-1 Surrogate recovery limits have been exceeded.
- DET Analyte DETECTED
- ND Analyte NOT DETECTED at or above the detection limit.
- NR Not Reported
- dry Sample results reported on a dry weight basis.
- RPD Relative Percent Difference
- V Indicated that the analyte was detected in both the sample and the associated method blank.
- I The reported value is between the laboratory method detection limit and the laboratory practical quantitation limit.
- Z Too many colonies were present for accurate counting.

QC Qualifier Codes as defined by DEP 62-160

Unless indicated, soil results are reported on actual (wet) weight basis.

Work performed by outside (subcontracted) labs denoted by SUB in Analyst Field.

Results relate only to this sample.

Suresh (Bobby) Supan - CSM

Authorized CSM Signature (954) 978-6400
Florida-Spectrum Environmental Services, Inc.
Certification# E86006

All NELAP certified analysis are performed in accordance with Chapter 64E-1 Florida Administrative code, which has been determined to be equivalent to NELAP standards. Analysis certified by programs other than NELAP are designated with a " ".

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SUBCONTRACT ORDER

SENDING LABORATORY:

Lakeland Laboratories, LLC
1910 Harden Boulevard, Suite 101
Lakeland, FL 33803
Phone: 863-686-4271
Fax: 863-686-4389
Project Manager: Mark Alessandroni

RECEIVING LABORATORY:

FSES - Ft Lauderdale
1460 West McNab Road
Fort Lauderdale, FL 33309
Phone: (954) 978-6400
Fax: (954) 978-2233

Project Name: Raider

Project Number: 1501170

Sample ID: 1501170-01

Matrix: Sludge

Sampled: 21-Jan-15 15:15

Sample Name: 12115-2

Analysis:

Sub - HERBICIDES, TCLP (8151A)

Comments:

15A0779-01

Sample ID: 1501170-02

Matrix: Sludge

Sampled: 21-Jan-15 15:15

Sample Name: 12115-3

Analysis:

Sub - HERBICIDES, TCLP (8151A)

Comments:

15A0779-02

Both samples Leachate.
1-20-15 @ 10⁰⁰ AM
1/24/15

ADAPT files NOT needed

Released By

Feder

Received By

Re, 1/30/15 1405

Date / Time

1-29-15 @ 1530

