



ENCO Laboratories

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Monday, January 30, 2017

Perma-Fix of Florida, Inc. (PE018)

Attn: Kurt Fogleman

1940 N.W. 67th Place

Gainesville, FL 32653

RE: Laboratory Results for

Project Number: [none], Project Name/Desc: DRAINAGE DITCH

ENCO Workorder(s): AA00429

Dear Kurt Fogleman,

Enclosed is a copy of your laboratory report for test samples received by our laboratory on Wednesday, January 18, 2017.

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.

The analytical results contained in this report are in compliance with NELAC standards, except as noted in the project narrative. 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. Unless otherwise noted, all analyses were performed at ENCO Orlando. 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,

Kaitlin Dylnicki For David Camacho

Project Manager

Enclosure(s)

SAMPLE SUMMARY/LABORATORY CHRONICLE

Client ID: Outfall # 3	Lab ID: AA00429-01	Sampled: 01/18/17 12:37	Received: 01/18/17 16:50
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<u>Parameter</u>	<u>Hold Date/Time(s)</u>		<u>Prep Date/Time(s)</u>		<u>Analysis Date/Time(s)</u>
EPA 6010C	07/17/17		01/25/17	09:14	01/26/17 10:44
EPA 6010C	07/17/17	07/24/17	01/25/17	09:19	01/26/17 11:28
EPA 7470A	02/15/17	02/20/17	01/23/17	12:28	01/24/17 10:25
EPA 7471B	02/15/17		01/19/17	13:46	01/20/17 09:30
EPA 8260B	02/01/17		01/26/17	00:00	01/26/17 19:18
EPA 8270D	02/01/17	03/04/17	01/23/17	15:33	01/25/17 17:36

Client ID: Outfall # 3	Lab ID: AA00429-01RE1	Sampled: 01/18/17 12:37	Received: 01/18/17 16:50
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<u>Parameter</u>	<u>Hold Date/Time(s)</u>		<u>Prep Date/Time(s)</u>		<u>Analysis Date/Time(s)</u>
EPA 8270D	02/01/17	03/04/17	01/23/17	15:33	01/26/17 17:19

Client ID: Upstream	Lab ID: AA00429-02	Sampled: 01/18/17 12:25	Received: 01/18/17 16:50
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<u>Parameter</u>	<u>Hold Date/Time(s)</u>		<u>Prep Date/Time(s)</u>		<u>Analysis Date/Time(s)</u>
EPA 6010C	07/17/17		01/24/17	09:08	01/25/17 12:09
EPA 6010C	07/17/17	07/24/17	01/25/17	09:19	01/26/17 11:33
EPA 7470A	02/15/17	02/20/17	01/23/17	12:28	01/24/17 10:28
EPA 7471B	02/15/17		01/19/17	13:46	01/20/17 09:43
EPA 8260B	02/01/17		01/26/17	00:00	01/26/17 19:48
EPA 8270D	02/01/17	03/04/17	01/23/17	15:33	01/25/17 18:07

Client ID: Upstream	Lab ID: AA00429-02RE1	Sampled: 01/18/17 12:25	Received: 01/18/17 16:50
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<u>Parameter</u>	<u>Hold Date/Time(s)</u>		<u>Prep Date/Time(s)</u>		<u>Analysis Date/Time(s)</u>
EPA 8270D	02/01/17	03/04/17	01/23/17	15:33	01/26/17 17:50

SAMPLE DETECTION SUMMARY

Client ID: Outfall # 3		Lab ID: AA00429-01					
Analyte	Results	Flag	MDL	PQL	Units	Method	Notes
Acetone	0.094		0.013	0.026	mg/kg dry	EPA 8260B	
Arsenic - Total	1.25		0.831	0.966	mg/kg dry	EPA 6010C	
Barium - Total	16.6		0.0850	0.966	mg/kg dry	EPA 6010C	
Barium - TCLP	0.166	IV	0.0132	0.250	mg/L	EPA 6010C	
Benzo(a)anthracene	1.4	I	0.83	2.1	mg/kg dry	EPA 8270D	R-01
Benzo(b)fluoranthene	2.9		0.70	2.1	mg/kg dry	EPA 8270D	R-01
Benzo(g,h,i)perylene	2.0	I	1.0	2.1	mg/kg dry	EPA 8270D	R-01
Benzo(k)fluoranthene	0.81	I	0.70	2.1	mg/kg dry	EPA 8270D	R-01
Cadmium - Total	0.386		0.0270	0.0966	mg/kg dry	EPA 6010C	
Chromium - Total	12.0		0.309	0.966	mg/kg dry	EPA 6010C	
Chrysene	1.9	I	0.83	2.1	mg/kg dry	EPA 8270D	R-01
Fluoranthene	2.4		0.70	2.1	mg/kg dry	EPA 8270D	R-01
Indeno(1,2,3-cd)pyrene	1.5	I	0.89	2.1	mg/kg dry	EPA 8270D	R-01
Lead - Total	24.6		0.444	0.966	mg/kg dry	EPA 6010C	
Mercury - Total	0.0420		0.00497	0.0128	mg/kg dry	EPA 7471B	
Pyrene	1.8	I	0.70	2.1	mg/kg dry	EPA 8270D	R-01
Silver - Total	0.188	I	0.0947	0.966	mg/kg dry	EPA 6010C	
Client ID: Outfall # 3		Lab ID: AA00429-01RE1					
Analyte	Results	Flag	MDL	PQL	Units	Method	Notes
Benzo(a)pyrene	1.8	I	0.50	2.1	mg/kg dry	EPA 8270D	
Client ID: Upstream		Lab ID: AA00429-02					
Analyte	Results	Flag	MDL	PQL	Units	Method	Notes
Acetone	0.052		0.013	0.026	mg/kg dry	EPA 8260B	
Arsenic - Total	2.80		0.714	0.830	mg/kg dry	EPA 6010C	
Arsenic - TCLP	0.260		0.200	0.250	mg/L	EPA 6010C	
Barium - Total	29.2		0.0730	0.830	mg/kg dry	EPA 6010C	
Barium - TCLP	0.135	IV	0.0132	0.250	mg/L	EPA 6010C	
Cadmium - Total	0.320		0.0232	0.0830	mg/kg dry	EPA 6010C	
Chromium - Total	14.4		0.266	0.830	mg/kg dry	EPA 6010C	
Lead - Total	15.9		0.382	0.830	mg/kg dry	EPA 6010C	
Mercury - Total	0.0438		0.00451	0.0116	mg/kg dry	EPA 7471B	
Client ID: Upstream		Lab ID: AA00429-02RE1					
Analyte	Results	Flag	MDL	PQL	Units	Method	Notes
Benzo(a)pyrene	0.65	I	0.51	2.2	mg/kg dry	EPA 8270D	
Benzo(b)fluoranthene	1.4	I	0.72	2.2	mg/kg dry	EPA 8270D	

ANALYTICAL RESULTS

Description: Outfall # 3

Lab Sample ID: AA00429-01

Received: 01/18/17 16:50

Matrix: Soil

Sampled: 01/18/17 12:37

Work Order: AA00429

Project: DRAINAGE DITCH

Sampled By: kurt Fogleman

% Solids: 78.43

Volatile Organic Compounds by GCMS

^ - ENCO Orlando certified analyte [NELAC E83182]

Analyte [CAS Number]	Results	Flag	Units	DF	MDL	PQL	Batch	Method	Analyzed	By	Notes
1,1,1,2-Tetrachloroethane [630-20-6]^	0.00057	U	mg/kg dry	1	0.00057	0.0013	7A26012	EPA 8260B	01/26/17 19:18	KKW	
1,1,1-Trichloroethane [71-55-6]^	0.00045	U	mg/kg dry	1	0.00045	0.0013	7A26012	EPA 8260B	01/26/17 19:18	KKW	
1,1,2,2-Tetrachloroethane [79-34-5]^	0.00059	U	mg/kg dry	1	0.00059	0.0013	7A26012	EPA 8260B	01/26/17 19:18	KKW	
1,1,2-Trichloroethane [79-00-5]^	0.00077	U	mg/kg dry	1	0.00077	0.0013	7A26012	EPA 8260B	01/26/17 19:18	KKW	
1,1-Dichloroethane [75-34-3]^	0.00073	U	mg/kg dry	1	0.00073	0.0013	7A26012	EPA 8260B	01/26/17 19:18	KKW	
1,1-Dichloroethene [75-35-4]^	0.00079	U	mg/kg dry	1	0.00079	0.0013	7A26012	EPA 8260B	01/26/17 19:18	KKW	
1,1-Dichloropropene [563-58-6]^	0.00069	U	mg/kg dry	1	0.00069	0.0013	7A26012	EPA 8260B	01/26/17 19:18	KKW	
1,2,3-Trichlorobenzene [87-61-6]^	0.0012	U	mg/kg dry	1	0.0012	0.0013	7A26012	EPA 8260B	01/26/17 19:18	KKW	
1,2,3-Trichloropropane [96-18-4]^	0.0048	U	mg/kg dry	1	0.0048	0.0064	7A26012	EPA 8260B	01/26/17 19:18	KKW	
1,2,4-Trichlorobenzene [120-82-1]^	0.0011	U	mg/kg dry	1	0.0011	0.0013	7A26012	EPA 8260B	01/26/17 19:18	KKW	
1,2,4-Trimethylbenzene [95-63-6]^	0.00087	U	mg/kg dry	1	0.00087	0.0013	7A26012	EPA 8260B	01/26/17 19:18	KKW	
1,2-Dibromo-3-chloropropane [96-12-8]^	0.0011	U	mg/kg dry	1	0.0011	0.0013	7A26012	EPA 8260B	01/26/17 19:18	KKW	
1,2-Dibromoethane [106-93-4]^	0.00085	U	mg/kg dry	1	0.00085	0.0013	7A26012	EPA 8260B	01/26/17 19:18	KKW	
1,2-Dichlorobenzene [95-50-1]^	0.00056	U	mg/kg dry	1	0.00056	0.0013	7A26012	EPA 8260B	01/26/17 19:18	KKW	
1,2-Dichloroethane [107-06-2]^	0.00068	U	mg/kg dry	1	0.00068	0.0013	7A26012	EPA 8260B	01/26/17 19:18	KKW	
1,2-Dichloropropane [78-87-5]^	0.00070	U	mg/kg dry	1	0.00070	0.0013	7A26012	EPA 8260B	01/26/17 19:18	KKW	
1,3,5-Trimethylbenzene [108-67-8]^	0.00075	U	mg/kg dry	1	0.00075	0.0013	7A26012	EPA 8260B	01/26/17 19:18	KKW	
1,3-Dichlorobenzene [541-73-1]^	0.00060	U	mg/kg dry	1	0.00060	0.0013	7A26012	EPA 8260B	01/26/17 19:18	KKW	
1,3-Dichloropropane [142-28-9]^	0.00064	U	mg/kg dry	1	0.00064	0.0013	7A26012	EPA 8260B	01/26/17 19:18	KKW	
1,4-Dichlorobenzene [106-46-7]^	0.00057	U	mg/kg dry	1	0.00057	0.0013	7A26012	EPA 8260B	01/26/17 19:18	KKW	
2,2-Dichloropropane [594-20-7]^	0.00051	U	mg/kg dry	1	0.00051	0.0013	7A26012	EPA 8260B	01/26/17 19:18	KKW	
2-Butanone [78-93-3]^	0.0026	U	mg/kg dry	1	0.0026	0.0064	7A26012	EPA 8260B	01/26/17 19:18	KKW	
2-Chloroethyl Vinyl Ether [110-75-8]^	0.0022	U	mg/kg dry	1	0.0022	0.0064	7A26012	EPA 8260B	01/26/17 19:18	KKW	
2-Chlorotoluene [95-49-8]^	0.00061	U	mg/kg dry	1	0.00061	0.0013	7A26012	EPA 8260B	01/26/17 19:18	KKW	
2-Hexanone [591-78-6]^	0.0043	U	mg/kg dry	1	0.0043	0.0064	7A26012	EPA 8260B	01/26/17 19:18	KKW	
4-Chlorotoluene [106-43-4]^	0.00078	U	mg/kg dry	1	0.00078	0.0013	7A26012	EPA 8260B	01/26/17 19:18	KKW	
4-Isopropyltoluene [99-87-6]^	0.00097	U	mg/kg dry	1	0.00097	0.0013	7A26012	EPA 8260B	01/26/17 19:18	KKW	
4-Methyl-2-pentanone [108-10-1]^	0.0046	U	mg/kg dry	1	0.0046	0.0064	7A26012	EPA 8260B	01/26/17 19:18	KKW	
Acetone [67-64-1]^	0.094		mg/kg dry	1	0.013	0.026	7A26012	EPA 8260B	01/26/17 19:18	KKW	
Benzene [71-43-2]^	0.00051	U	mg/kg dry	1	0.00051	0.0013	7A26012	EPA 8260B	01/26/17 19:18	KKW	
Bromobenzene [108-86-1]^	0.00051	U	mg/kg dry	1	0.00051	0.0013	7A26012	EPA 8260B	01/26/17 19:18	KKW	
Bromochloromethane [74-97-5]^	0.00096	U	mg/kg dry	1	0.00096	0.0013	7A26012	EPA 8260B	01/26/17 19:18	KKW	
Bromodichloromethane [75-27-4]^	0.00060	U	mg/kg dry	1	0.00060	0.0013	7A26012	EPA 8260B	01/26/17 19:18	KKW	
Bromoform [75-25-2]^	0.00065	U	mg/kg dry	1	0.00065	0.0013	7A26012	EPA 8260B	01/26/17 19:18	KKW	
Bromomethane [74-83-9]^	0.0011	U	mg/kg dry	1	0.0011	0.0013	7A26012	EPA 8260B	01/26/17 19:18	KKW	
Carbon disulfide [75-15-0]^	0.0027	U	mg/kg dry	1	0.0027	0.0064	7A26012	EPA 8260B	01/26/17 19:18	KKW	
Carbon Tetrachloride [56-23-5]^	0.00077	U	mg/kg dry	1	0.00077	0.0013	7A26012	EPA 8260B	01/26/17 19:18	KKW	
Chlorobenzene [108-90-7]^	0.00061	U	mg/kg dry	1	0.00061	0.0013	7A26012	EPA 8260B	01/26/17 19:18	KKW	
Chloroethane [75-00-3]^	0.00069	U	mg/kg dry	1	0.00069	0.0013	7A26012	EPA 8260B	01/26/17 19:18	KKW	
Chloroform [67-66-3]^	0.00055	U	mg/kg dry	1	0.00055	0.0013	7A26012	EPA 8260B	01/26/17 19:18	KKW	
Chloromethane [74-87-3]^	0.00083	U	mg/kg dry	1	0.00083	0.0013	7A26012	EPA 8260B	01/26/17 19:18	KKW	
cis-1,2-Dichloroethene [156-59-2]^	0.00068	U	mg/kg dry	1	0.00068	0.0013	7A26012	EPA 8260B	01/26/17 19:18	KKW	
cis-1,3-Dichloropropene [10061-01-5]^	0.00054	U	mg/kg dry	1	0.00054	0.0013	7A26012	EPA 8260B	01/26/17 19:18	KKW	
Dibromochloromethane [124-48-1]^	0.00066	U	mg/kg dry	1	0.00066	0.0013	7A26012	EPA 8260B	01/26/17 19:18	KKW	
Dibromomethane [74-95-3]^	0.0011	U	mg/kg dry	1	0.0011	0.0013	7A26012	EPA 8260B	01/26/17 19:18	KKW	
Dichlorodifluoromethane [75-71-8]^	0.00079	U	mg/kg dry	1	0.00079	0.0013	7A26012	EPA 8260B	01/26/17 19:18	KKW	
Ethylbenzene [100-41-4]^	0.00071	U	mg/kg dry	1	0.00071	0.0013	7A26012	EPA 8260B	01/26/17 19:18	KKW	

ANALYTICAL RESULTS

Description: Outfall # 3

Lab Sample ID: AA00429-01

Received: 01/18/17 16:50

Matrix: Soil

Sampled: 01/18/17 12:37

Work Order: AA00429

Project: DRAINAGE DITCH

Sampled By: kurt Fogleman

% Solids: 78.43

Volatile Organic Compounds by GCMS

^ - ENCO Orlando certified analyte [NELAC E83182]

Analyte [CAS Number]	Results	Flag	Units	DF	MDL	PQL	Batch	Method	Analyzed	By	Notes
Hexachlorobutadiene [87-68-3]^	0.0012	U	mg/kg dry	1	0.0012	0.0013	7A26012	EPA 8260B	01/26/17 19:18	KKW	
Isopropylbenzene [98-82-8]^	0.00069	U	mg/kg dry	1	0.00069	0.0013	7A26012	EPA 8260B	01/26/17 19:18	KKW	
m,p-Xylenes [108-38-3/106-42-3]^	0.0013	U	mg/kg dry	1	0.0013	0.0026	7A26012	EPA 8260B	01/26/17 19:18	KKW	
Methylene Chloride [75-09-2]^	0.0026	U	mg/kg dry	1	0.0026	0.0064	7A26012	EPA 8260B	01/26/17 19:18	KKW	
Methyl-tert-Butyl Ether [1634-04-4]^	0.00034	U	mg/kg dry	1	0.00034	0.0013	7A26012	EPA 8260B	01/26/17 19:18	KKW	
Naphthalene [91-20-3]^	0.00073	U	mg/kg dry	1	0.00073	0.0013	7A26012	EPA 8260B	01/26/17 19:18	KKW	
n-Butyl Benzene [104-51-8]^	0.0011	U	mg/kg dry	1	0.0011	0.0013	7A26012	EPA 8260B	01/26/17 19:18	KKW	
n-Propyl Benzene [103-65-1]^	0.00080	U	mg/kg dry	1	0.00080	0.0013	7A26012	EPA 8260B	01/26/17 19:18	KKW	
o-Xylene [95-47-6]^	0.00066	U	mg/kg dry	1	0.00066	0.0013	7A26012	EPA 8260B	01/26/17 19:18	KKW	
sec-Butylbenzene [135-98-8]^	0.00083	U	mg/kg dry	1	0.00083	0.0013	7A26012	EPA 8260B	01/26/17 19:18	KKW	
Styrene [100-42-5]^	0.00056	U	mg/kg dry	1	0.00056	0.0013	7A26012	EPA 8260B	01/26/17 19:18	KKW	
tert-Butylbenzene [98-06-6]^	0.00077	U	mg/kg dry	1	0.00077	0.0013	7A26012	EPA 8260B	01/26/17 19:18	KKW	
Tetrachloroethene [127-18-4]^	0.00062	U	mg/kg dry	1	0.00062	0.0013	7A26012	EPA 8260B	01/26/17 19:18	KKW	
Toluene [108-88-3]^	0.00059	U	mg/kg dry	1	0.00059	0.0013	7A26012	EPA 8260B	01/26/17 19:18	KKW	
trans-1,2-Dichloroethene [156-60-5]^	0.00088	U	mg/kg dry	1	0.00088	0.0013	7A26012	EPA 8260B	01/26/17 19:18	KKW	
trans-1,3-Dichloropropene [10061-02-6]^	0.00055	U	mg/kg dry	1	0.00055	0.0013	7A26012	EPA 8260B	01/26/17 19:18	KKW	
Trichloroethene [79-01-6]^	0.00064	U	mg/kg dry	1	0.00064	0.0013	7A26012	EPA 8260B	01/26/17 19:18	KKW	
Trichlorofluoromethane [75-69-4]^	0.00069	U	mg/kg dry	1	0.00069	0.0013	7A26012	EPA 8260B	01/26/17 19:18	KKW	
Vinyl chloride [75-01-4]^	0.00056	U	mg/kg dry	1	0.00056	0.0013	7A26012	EPA 8260B	01/26/17 19:18	KKW	
Xylenes (Total) [1330-20-7]^	0.0013	U	mg/kg dry	1	0.0013	0.0026	7A26012	EPA 8260B	01/26/17 19:18	KKW	

Surrogates	Results	DF	Spike Lvl	% Rec	% Rec Limits	Batch	Method	Analyzed	By	Notes
4-Bromofluorobenzene	0.068	1	0.0644	105 %	70-130	7A26012	EPA 8260B	01/26/17 19:18	KKW	
Dibromofluoromethane	0.061	1	0.0644	94 %	70-133	7A26012	EPA 8260B	01/26/17 19:18	KKW	
Toluene-d8	0.068	1	0.0644	106 %	70-130	7A26012	EPA 8260B	01/26/17 19:18	KKW	

Semivolatile Organic Compounds by GCMS

^ - ENCO Orlando certified analyte [NELAC E83182]

Analyte [CAS Number]	Results	Flag	Units	DF	MDL	PQL	Batch	Method	Analyzed	By	Notes
1,2,4-Trichlorobenzene [120-82-1]^	0.70	U	mg/kg dry	5	0.70	2.1	7A23035	EPA 8270D	01/25/17 17:36	jfi	R-01
1,2-Dichlorobenzene [95-50-1]^	0.77	U	mg/kg dry	5	0.77	2.1	7A23035	EPA 8270D	01/25/17 17:36	jfi	R-01
1,3-Dichlorobenzene [541-73-1]^	0.77	U	mg/kg dry	5	0.77	2.1	7A23035	EPA 8270D	01/25/17 17:36	jfi	R-01
1,4-Dichlorobenzene [106-46-7]^	0.64	U	mg/kg dry	5	0.64	2.1	7A23035	EPA 8270D	01/25/17 17:36	jfi	R-01
1-Methylnaphthalene [90-12-0]^	0.61	U	mg/kg dry	5	0.61	2.1	7A23035	EPA 8270D	01/25/17 17:36	jfi	R-01
2,4,5-Trichlorophenol [95-95-4]^	0.43	U	mg/kg dry	5	0.43	2.1	7A23035	EPA 8270D	01/25/17 17:36	jfi	R-01
2,4,6-Trichlorophenol [88-06-2]^	0.96	U	mg/kg dry	5	0.96	2.1	7A23035	EPA 8270D	01/25/17 17:36	jfi	R-01
2,4-Dichlorophenol [120-83-2]^	1.6	U	mg/kg dry	5	1.6	2.1	7A23035	EPA 8270D	01/25/17 17:36	jfi	R-01
2,4-Dimethylphenol [105-67-9]^	1.5	U	mg/kg dry	5	1.5	2.1	7A23035	EPA 8270D	01/25/17 17:36	jfi	R-01
2,4-Dinitrophenol [51-28-5]^	0.57	U	mg/kg dry	5	0.57	2.1	7A23035	EPA 8270D	01/25/17 17:36	jfi	R-01
2,4-Dinitrotoluene [121-14-2]^	1.0	U	mg/kg dry	5	1.0	2.1	7A23035	EPA 8270D	01/25/17 17:36	jfi	J-06, QV-01, R-01
2,6-Dinitrotoluene [606-20-2]^	1.1	U	mg/kg dry	5	1.1	2.1	7A23035	EPA 8270D	01/25/17 17:36	jfi	R-01
2-Chloronaphthalene [91-58-7]^	0.62	U	mg/kg dry	5	0.62	2.1	7A23035	EPA 8270D	01/25/17 17:36	jfi	R-01
2-Chlorophenol [95-57-8]^	1.5	U	mg/kg dry	5	1.5	2.1	7A23035	EPA 8270D	01/25/17 17:36	jfi	R-01
2-Methyl-4,6-dinitrophenol [534-52-1]^	1.8	U	mg/kg dry	5	1.8	2.1	7A23035	EPA 8270D	01/25/17 17:36	jfi	R-01
2-Methylnaphthalene [91-57-6]^	0.77	U	mg/kg dry	5	0.77	2.1	7A23035	EPA 8270D	01/25/17 17:36	jfi	R-01
2-Methylphenol [95-48-7]^	0.70	U	mg/kg dry	5	0.70	2.1	7A23035	EPA 8270D	01/25/17 17:36	jfi	R-01
2-Nitroaniline [88-74-4]^	0.54	U	mg/kg dry	5	0.54	2.1	7A23035	EPA 8270D	01/25/17 17:36	jfi	R-01

FINAL

This report relates only to the sample as received by the laboratory, and may only be reproduced in full.

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ANALYTICAL RESULTS

Description: Outfall # 3

Lab Sample ID: AA00429-01

Received: 01/18/17 16:50

Matrix: Soil

Sampled: 01/18/17 12:37

Work Order: AA00429

Project: DRAINAGE DITCH

Sampled By: kurt Fogleman

% Solids: 78.43

Semivolatile Organic Compounds by GCMS

^ - ENCO Orlando certified analyte [NELAC E83182]

Analyte [CAS Number]	Results	Flag	Units	DF	MDL	PQL	Batch	Method	Analyzed	By	Notes
2-Nitrophenol [88-75-5]^	1.7	U	mg/kg dry	5	1.7	2.1	7A23035	EPA 8270D	01/25/17 17:36	jfi	R-01
3 & 4-Methylphenol [108-39-4/106-44-5]^	1.6	U	mg/kg dry	5	1.6	2.1	7A23035	EPA 8270D	01/25/17 17:36	jfi	QV-01, R-01
3,3'-Dichlorobenzidine [91-94-1]^	1.3	U	mg/kg dry	5	1.3	2.1	7A23035	EPA 8270D	01/25/17 17:36	jfi	QV-01, R-01
3-Nitroaniline [99-09-2]^	0.51	U	mg/kg dry	5	0.51	2.1	7A23035	EPA 8270D	01/25/17 17:36	jfi	R-01
4-Bromophenyl-phenylether [101-55-3]^	0.83	U	mg/kg dry	5	0.83	2.1	7A23035	EPA 8270D	01/25/17 17:36	jfi	R-01
4-Chloro-3-methylphenol [59-50-7]^	1.8	U	mg/kg dry	5	1.8	2.1	7A23035	EPA 8270D	01/25/17 17:36	jfi	R-01
4-Chloroaniline [106-47-8]^	0.41	U	mg/kg dry	5	0.41	2.1	7A23035	EPA 8270D	01/25/17 17:36	jfi	R-01
4-Chlorophenyl-phenylether [7005-72-3]^	0.83	U	mg/kg dry	5	0.83	2.1	7A23035	EPA 8270D	01/25/17 17:36	jfi	QV-01, R-01
4-Nitroaniline [100-01-6]^	1.7	U	mg/kg dry	5	1.7	2.1	7A23035	EPA 8270D	01/25/17 17:36	jfi	QV-01, R-01
4-Nitrophenol [100-02-7]^	0.83	U	mg/kg dry	5	0.83	2.1	7A23035	EPA 8270D	01/25/17 17:36	jfi	QV-01, R-01
Acenaphthene [83-32-9]^	0.83	U	mg/kg dry	5	0.83	2.1	7A23035	EPA 8270D	01/25/17 17:36	jfi	R-01
Acenaphthylene [208-96-8]^	0.77	U	mg/kg dry	5	0.77	2.1	7A23035	EPA 8270D	01/25/17 17:36	jfi	R-01
Anthracene [120-12-7]^	0.96	U	mg/kg dry	5	0.96	2.1	7A23035	EPA 8270D	01/25/17 17:36	jfi	R-01
Benidine [92-87-5]^	0.55	U	mg/kg dry	5	0.55	2.1	7A23035	EPA 8270D	01/25/17 17:36	jfi	QV-01, R-01
Benzo(a)anthracene [56-55-3]^	1.4	I	mg/kg dry	5	0.83	2.1	7A23035	EPA 8270D	01/25/17 17:36	jfi	R-01
Benzo(a)pyrene [50-32-8]^	1.8	I	mg/kg dry	5	0.50	2.1	7A23035	EPA 8270D	01/26/17 17:19	jfi	
Benzo(b)fluoranthene [205-99-2]^	2.9		mg/kg dry	5	0.70	2.1	7A23035	EPA 8270D	01/25/17 17:36	jfi	R-01
Benzo(g,h,i)perylene [191-24-2]^	2.0	I	mg/kg dry	5	1.0	2.1	7A23035	EPA 8270D	01/25/17 17:36	jfi	R-01
Benzo(k)fluoranthene [207-08-9]^	0.81	I	mg/kg dry	5	0.70	2.1	7A23035	EPA 8270D	01/25/17 17:36	jfi	R-01
Benzoic acid [65-85-0]^	3.1	U	mg/kg dry	5	3.1	11	7A23035	EPA 8270D	01/25/17 17:36	jfi	R-01
Benzyl alcohol [100-51-6]^	1.0	U	mg/kg dry	5	1.0	2.1	7A23035	EPA 8270D	01/25/17 17:36	jfi	R-01
Bis(2-chloroethoxy)methane [111-91-1]^	0.96	U	mg/kg dry	5	0.96	2.1	7A23035	EPA 8270D	01/25/17 17:36	jfi	R-01
Bis(2-chloroethyl)ether [111-44-4]^	0.89	U	mg/kg dry	5	0.89	2.1	7A23035	EPA 8270D	01/25/17 17:36	jfi	R-01
Bis(2-chloroisopropyl)ether [108-60-1]^	0.63	U	mg/kg dry	5	0.63	2.1	7A23035	EPA 8270D	01/25/17 17:36	jfi	R-01
Bis(2-ethylhexyl)phthalate [117-81-7]^	0.83	U	mg/kg dry	5	0.83	2.1	7A23035	EPA 8270D	01/25/17 17:36	jfi	R-01
Butylbenzylphthalate [85-68-7]^	0.89	U	mg/kg dry	5	0.89	2.1	7A23035	EPA 8270D	01/25/17 17:36	jfi	QV-01, R-01
Chrysene [218-01-9]^	1.9	I	mg/kg dry	5	0.83	2.1	7A23035	EPA 8270D	01/25/17 17:36	jfi	R-01
Dibenzo(a,h)anthracene [53-70-3]^	0.89	U	mg/kg dry	5	0.89	2.1	7A23035	EPA 8270D	01/25/17 17:36	jfi	QV-01, R-01
Dibenzofuran [132-64-9]^	0.83	U	mg/kg dry	5	0.83	2.1	7A23035	EPA 8270D	01/25/17 17:36	jfi	R-01
Diethylphthalate [84-66-2]^	0.83	U	mg/kg dry	5	0.83	2.1	7A23035	EPA 8270D	01/25/17 17:36	jfi	R-01
Dimethylphthalate [131-11-3]^	0.83	U	mg/kg dry	5	0.83	2.1	7A23035	EPA 8270D	01/25/17 17:36	jfi	R-01
Di-n-butylphthalate [84-74-2]^	0.83	U	mg/kg dry	5	0.83	2.1	7A23035	EPA 8270D	01/25/17 17:36	jfi	R-01
Di-n-octylphthalate [117-84-0]^	0.83	U	mg/kg dry	5	0.83	2.1	7A23035	EPA 8270D	01/25/17 17:36	jfi	R-01
Fluoranthene [206-44-0]^	2.4		mg/kg dry	5	0.70	2.1	7A23035	EPA 8270D	01/25/17 17:36	jfi	R-01
Fluorene [86-73-7]^	0.89	U	mg/kg dry	5	0.89	2.1	7A23035	EPA 8270D	01/25/17 17:36	jfi	QV-01, R-01
Hexachlorobenzene [118-74-1]^	0.77	U	mg/kg dry	5	0.77	2.1	7A23035	EPA 8270D	01/25/17 17:36	jfi	R-01
Hexachlorobutadiene [87-68-3]^	0.83	U	mg/kg dry	5	0.83	2.1	7A23035	EPA 8270D	01/25/17 17:36	jfi	R-01
Hexachlorocyclopentadiene [77-47-4]^	0.96	U	mg/kg dry	5	0.96	2.1	7A23035	EPA 8270D	01/25/17 17:36	jfi	R-01
Hexachloroethane [67-72-1]^	0.64	U	mg/kg dry	5	0.64	2.1	7A23035	EPA 8270D	01/25/17 17:36	jfi	R-01
Indeno(1,2,3-cd)pyrene [193-39-5]^	1.5	I	mg/kg dry	5	0.89	2.1	7A23035	EPA 8270D	01/25/17 17:36	jfi	R-01
Isophorone [78-59-1]^	1.1	U	mg/kg dry	5	1.1	2.1	7A23035	EPA 8270D	01/25/17 17:36	jfi	R-01
Naphthalene [91-20-3]^	0.77	U	mg/kg dry	5	0.77	2.1	7A23035	EPA 8270D	01/25/17 17:36	jfi	R-01

ANALYTICAL RESULTS

Description: Outfall # 3

Lab Sample ID: AA00429-01

Received: 01/18/17 16:50

Matrix: Soil

Sampled: 01/18/17 12:37

Work Order: AA00429

Project: DRAINAGE DITCH

Sampled By: kurt Fogleman

% Solids: 78.43

Semivolatile Organic Compounds by GCMS

^ - ENCO Orlando certified analyte [NELAC E83182]

Analyte [CAS Number]	Results	Flag	Units	DF	MDL	PQL	Batch	Method	Analyzed	By	Notes
Nitrobenzene [98-95-3]^	0.96	U	mg/kg dry	5	0.96	2.1	7A23035	EPA 8270D	01/25/17 17:36	jfi	R-01
N-Nitrosodimethylamine [62-75-9]^	0.77	U	mg/kg dry	5	0.77	2.1	7A23035	EPA 8270D	01/25/17 17:36	jfi	R-01
N-Nitroso-di-n-propylamine [621-64-7]^	0.96	U	mg/kg dry	5	0.96	2.1	7A23035	EPA 8270D	01/25/17 17:36	jfi	QV-01, R-01
N-nitrosodiphenylamine/Diphenylamine [86-30-6/122-39-4]^	1.5	U	mg/kg dry	5	1.5	2.1	7A23035	EPA 8270D	01/25/17 17:36	jfi	QV-01, R-01
Pentachlorophenol [87-86-5]^	1.3	U	mg/kg dry	5	1.3	2.1	7A23035	EPA 8270D	01/25/17 17:36	jfi	R-01
Phenanthrene [85-01-8]^	0.83	U	mg/kg dry	5	0.83	2.1	7A23035	EPA 8270D	01/25/17 17:36	jfi	R-01
Phenol [108-95-2]^	0.63	U	mg/kg dry	5	0.63	2.1	7A23035	EPA 8270D	01/25/17 17:36	jfi	R-01
Pyrene [129-00-0]^	1.8	I	mg/kg dry	5	0.70	2.1	7A23035	EPA 8270D	01/25/17 17:36	jfi	R-01
Pyridine [110-86-1]^	0.96	U	mg/kg dry	5	0.96	2.1	7A23035	EPA 8270D	01/25/17 17:36	jfi	R-01

Surrogates	Results	DF	Spike Lvl	% Rec	% Rec Limits	Batch	Method	Analyzed	By	Notes
2,4,6-Tribromophenol	1.1	5	2.10	50 %	23-137	7A23035	EPA 8270D	01/25/17 17:36	jfi	R-01
2-Fluorobiphenyl	1.1	5	2.10	55 %	29-119	7A23035	EPA 8270D	01/25/17 17:36	jfi	R-01
2-Fluorophenol	0.98	5	2.10	47 %	20-124	7A23035	EPA 8270D	01/25/17 17:36	jfi	R-01
Nitrobenzene-d5	1.1	5	2.10	52 %	17-126	7A23035	EPA 8270D	01/25/17 17:36	jfi	R-01
Phenol-d5	1.0	5	2.10	49 %	15-131	7A23035	EPA 8270D	01/25/17 17:36	jfi	R-01
Terphenyl-d14	1.4	5	2.10	67 %	60-120	7A23035	EPA 8270D	01/25/17 17:36	jfi	R-01

Metals by EPA 6000/7000 Series Methods

^ - ENCO Orlando certified analyte [NELAC E83182]

Analyte [CAS Number]	Results	Flag	Units	DF	MDL	PQL	Batch	Method	Analyzed	By	Notes
Mercury [7439-97-6]^	0.0420		mg/kg dry	1	0.00497	0.0128	7A19025	EPA 7471B	01/20/17 09:30	JAY	

TCLP Metals by 6000/7000 Series Methods

^ - ENCO Orlando certified analyte [NELAC E83182]

Analyte [CAS Number]	Results	Flag	Units	DF	MDL	PQL	Batch	Method	Analyzed	By	Notes
Mercury [7439-97-6]^	0.000230	U	mg/L	1	0.000230	0.00200	7A18005	EPA 7470A	01/24/17 10:25	IR	

Metals by EPA 6000/7000 Series Methods

^ - ENCO Jacksonville certified analyte [NELAC E82277]

Analyte [CAS Number]	Results	Flag	Units	DF	MDL	PQL	Batch	Method	Analyzed	By	Notes
Arsenic [7440-38-2]^	1.25		mg/kg dry	1	0.831	0.966	7A25001	EPA 6010C	01/26/17 10:44	ACV	
Barium [7440-39-3]^	16.6		mg/kg dry	1	0.0850	0.966	7A25001	EPA 6010C	01/26/17 10:44	ACV	
Cadmium [7440-43-9]^	0.386		mg/kg dry	1	0.0270	0.0966	7A25001	EPA 6010C	01/26/17 10:44	ACV	
Chromium [7440-47-3]^	12.0		mg/kg dry	1	0.309	0.966	7A25001	EPA 6010C	01/26/17 10:44	ACV	
Lead [7439-92-1]^	24.6		mg/kg dry	1	0.444	0.966	7A25001	EPA 6010C	01/26/17 10:44	ACV	
Selenium [7782-49-2]^	1.12	U	mg/kg dry	1	1.12	3.86	7A25001	EPA 6010C	01/26/17 10:44	ACV	
Silver [7440-22-4]^	0.188	I	mg/kg dry	1	0.0947	0.966	7A25001	EPA 6010C	01/26/17 10:44	ACV	

ANALYTICAL RESULTS

Description: Outfall # 3

Lab Sample ID: AA00429-01

Received: 01/18/17 16:50

Matrix: Soil

Sampled: 01/18/17 12:37

Work Order: AA00429

Project: DRAINAGE DITCH

Sampled By: kurt Fogleman

% Solids: 78.43

TCLP Metals by 6000/7000 Series Methods

^ - ENCO Jacksonville certified analyte [NELAC E82277]

<u>Analyte [CAS Number]</u>	<u>Results</u>	<u>Flag</u>	<u>Units</u>	<u>DF</u>	<u>MDL</u>	<u>PQL</u>	<u>Batch</u>	<u>Method</u>	<u>Analyzed</u>	<u>By</u>	<u>Notes</u>
Arsenic [7440-38-2]^	0.200	U	mg/L	1	0.200	0.250	7A25002	EPA 6010C	01/26/17 11:28	ACV	
Barium [7440-39-3]^	0.166	IV	mg/L	1	0.0132	0.250	7A25002	EPA 6010C	01/26/17 11:28	ACV	
Cadmium [7440-43-9]^	0.0112	U	mg/L	1	0.0112	0.0250	7A25002	EPA 6010C	01/26/17 11:28	ACV	
Chromium [7440-47-3]^	0.0275	U	mg/L	1	0.0275	0.250	7A25002	EPA 6010C	01/26/17 11:28	ACV	
Lead [7439-92-1]^	0.0700	U	mg/L	1	0.0700	0.250	7A25002	EPA 6010C	01/26/17 11:28	ACV	
Selenium [7782-49-2]^	0.250	U	mg/L	1	0.250	1.00	7A25002	EPA 6010C	01/26/17 11:28	ACV	
Silver [7440-22-4]^	0.0185	U	mg/L	1	0.0185	0.250	7A25002	EPA 6010C	01/26/17 11:28	ACV	

ANALYTICAL RESULTS

Description: Upstream

Lab Sample ID: AA00429-02

Received: 01/18/17 16:50

Matrix: Soil

Sampled: 01/18/17 12:25

Work Order: AA00429

Project: DRAINAGE DITCH

Sampled By: kurt Fogleman

% Solids: 76.27

Volatile Organic Compounds by GCMS

^ - ENCO Orlando certified analyte [NELAC E83182]

Analyte [CAS Number]	Results	Flag	Units	DF	MDL	PQL	Batch	Method	Analyzed	By	Notes
1,1,1,2-Tetrachloroethane [630-20-6]^	0.00059	U	mg/kg dry	1	0.00059	0.0013	7A26012	EPA 8260B	01/26/17 19:48	KKW	
1,1,1-Trichloroethane [71-55-6]^	0.00046	U	mg/kg dry	1	0.00046	0.0013	7A26012	EPA 8260B	01/26/17 19:48	KKW	
1,1,2,2-Tetrachloroethane [79-34-5]^	0.00060	U	mg/kg dry	1	0.00060	0.0013	7A26012	EPA 8260B	01/26/17 19:48	KKW	
1,1,2-Trichloroethane [79-00-5]^	0.00079	U	mg/kg dry	1	0.00079	0.0013	7A26012	EPA 8260B	01/26/17 19:48	KKW	
1,1-Dichloroethane [75-34-3]^	0.00075	U	mg/kg dry	1	0.00075	0.0013	7A26012	EPA 8260B	01/26/17 19:48	KKW	
1,1-Dichloroethene [75-35-4]^	0.00081	U	mg/kg dry	1	0.00081	0.0013	7A26012	EPA 8260B	01/26/17 19:48	KKW	
1,1-Dichloropropene [563-58-6]^	0.00071	U	mg/kg dry	1	0.00071	0.0013	7A26012	EPA 8260B	01/26/17 19:48	KKW	
1,2,3-Trichlorobenzene [87-61-6]^	0.0012	U	mg/kg dry	1	0.0012	0.0013	7A26012	EPA 8260B	01/26/17 19:48	KKW	
1,2,3-Trichloropropane [96-18-4]^	0.0050	U	mg/kg dry	1	0.0050	0.0066	7A26012	EPA 8260B	01/26/17 19:48	KKW	
1,2,4-Trichlorobenzene [120-82-1]^	0.0011	U	mg/kg dry	1	0.0011	0.0013	7A26012	EPA 8260B	01/26/17 19:48	KKW	
1,2,4-Trimethylbenzene [95-63-6]^	0.00089	U	mg/kg dry	1	0.00089	0.0013	7A26012	EPA 8260B	01/26/17 19:48	KKW	
1,2-Dibromo-3-chloropropane [96-12-8]^	0.0011	U	mg/kg dry	1	0.0011	0.0013	7A26012	EPA 8260B	01/26/17 19:48	KKW	
1,2-Dibromoethane [106-93-4]^	0.00088	U	mg/kg dry	1	0.00088	0.0013	7A26012	EPA 8260B	01/26/17 19:48	KKW	
1,2-Dichlorobenzene [95-50-1]^	0.00058	U	mg/kg dry	1	0.00058	0.0013	7A26012	EPA 8260B	01/26/17 19:48	KKW	
1,2-Dichloroethane [107-06-2]^	0.00069	U	mg/kg dry	1	0.00069	0.0013	7A26012	EPA 8260B	01/26/17 19:48	KKW	
1,2-Dichloropropane [78-87-5]^	0.00072	U	mg/kg dry	1	0.00072	0.0013	7A26012	EPA 8260B	01/26/17 19:48	KKW	
1,3,5-Trimethylbenzene [108-67-8]^	0.00077	U	mg/kg dry	1	0.00077	0.0013	7A26012	EPA 8260B	01/26/17 19:48	KKW	
1,3-Dichlorobenzene [541-73-1]^	0.00062	U	mg/kg dry	1	0.00062	0.0013	7A26012	EPA 8260B	01/26/17 19:48	KKW	
1,3-Dichloropropane [142-28-9]^	0.00066	U	mg/kg dry	1	0.00066	0.0013	7A26012	EPA 8260B	01/26/17 19:48	KKW	
1,4-Dichlorobenzene [106-46-7]^	0.00059	U	mg/kg dry	1	0.00059	0.0013	7A26012	EPA 8260B	01/26/17 19:48	KKW	
2,2-Dichloropropane [594-20-7]^	0.00052	U	mg/kg dry	1	0.00052	0.0013	7A26012	EPA 8260B	01/26/17 19:48	KKW	
2-Butanone [78-93-3]^	0.0026	U	mg/kg dry	1	0.0026	0.0066	7A26012	EPA 8260B	01/26/17 19:48	KKW	
2-Chloroethyl Vinyl Ether [110-75-8]^	0.0022	U	mg/kg dry	1	0.0022	0.0066	7A26012	EPA 8260B	01/26/17 19:48	KKW	
2-Chlorotoluene [95-49-8]^	0.00063	U	mg/kg dry	1	0.00063	0.0013	7A26012	EPA 8260B	01/26/17 19:48	KKW	
2-Hexanone [591-78-6]^	0.0045	U	mg/kg dry	1	0.0045	0.0066	7A26012	EPA 8260B	01/26/17 19:48	KKW	
4-Chlorotoluene [106-43-4]^	0.00080	U	mg/kg dry	1	0.00080	0.0013	7A26012	EPA 8260B	01/26/17 19:48	KKW	
4-Isopropyltoluene [99-87-6]^	0.0010	U	mg/kg dry	1	0.0010	0.0013	7A26012	EPA 8260B	01/26/17 19:48	KKW	
4-Methyl-2-pentanone [108-10-1]^	0.0047	U	mg/kg dry	1	0.0047	0.0066	7A26012	EPA 8260B	01/26/17 19:48	KKW	
Acetone [67-64-1]^	0.052		mg/kg dry	1	0.013	0.026	7A26012	EPA 8260B	01/26/17 19:48	KKW	
Benzene [71-43-2]^	0.00052	U	mg/kg dry	1	0.00052	0.0013	7A26012	EPA 8260B	01/26/17 19:48	KKW	
Bromobenzene [108-86-1]^	0.00052	U	mg/kg dry	1	0.00052	0.0013	7A26012	EPA 8260B	01/26/17 19:48	KKW	
Bromochloromethane [74-97-5]^	0.00098	U	mg/kg dry	1	0.00098	0.0013	7A26012	EPA 8260B	01/26/17 19:48	KKW	
Bromodichloromethane [75-27-4]^	0.00062	U	mg/kg dry	1	0.00062	0.0013	7A26012	EPA 8260B	01/26/17 19:48	KKW	
Bromoform [75-25-2]^	0.00067	U	mg/kg dry	1	0.00067	0.0013	7A26012	EPA 8260B	01/26/17 19:48	KKW	
Bromomethane [74-83-9]^	0.0012	U	mg/kg dry	1	0.0012	0.0013	7A26012	EPA 8260B	01/26/17 19:48	KKW	
Carbon disulfide [75-15-0]^	0.0028	U	mg/kg dry	1	0.0028	0.0066	7A26012	EPA 8260B	01/26/17 19:48	KKW	
Carbon Tetrachloride [56-23-5]^	0.00079	U	mg/kg dry	1	0.00079	0.0013	7A26012	EPA 8260B	01/26/17 19:48	KKW	
Chlorobenzene [108-90-7]^	0.00063	U	mg/kg dry	1	0.00063	0.0013	7A26012	EPA 8260B	01/26/17 19:48	KKW	
Chloroethane [75-00-3]^	0.00071	U	mg/kg dry	1	0.00071	0.0013	7A26012	EPA 8260B	01/26/17 19:48	KKW	
Chloroform [67-66-3]^	0.00056	U	mg/kg dry	1	0.00056	0.0013	7A26012	EPA 8260B	01/26/17 19:48	KKW	
Chloromethane [74-87-3]^	0.00085	U	mg/kg dry	1	0.00085	0.0013	7A26012	EPA 8260B	01/26/17 19:48	KKW	
cis-1,2-Dichloroethene [156-59-2]^	0.00069	U	mg/kg dry	1	0.00069	0.0013	7A26012	EPA 8260B	01/26/17 19:48	KKW	
cis-1,3-Dichloropropene [10061-01-5]^	0.00055	U	mg/kg dry	1	0.00055	0.0013	7A26012	EPA 8260B	01/26/17 19:48	KKW	
Dibromochloromethane [124-48-1]^	0.00068	U	mg/kg dry	1	0.00068	0.0013	7A26012	EPA 8260B	01/26/17 19:48	KKW	
Dibromomethane [74-95-3]^	0.0011	U	mg/kg dry	1	0.0011	0.0013	7A26012	EPA 8260B	01/26/17 19:48	KKW	
Dichlorodifluoromethane [75-71-8]^	0.00081	U	mg/kg dry	1	0.00081	0.0013	7A26012	EPA 8260B	01/26/17 19:48	KKW	
Ethylbenzene [100-41-4]^	0.00073	U	mg/kg dry	1	0.00073	0.0013	7A26012	EPA 8260B	01/26/17 19:48	KKW	

ANALYTICAL RESULTS

Description: Upstream

Lab Sample ID: AA00429-02

Received: 01/18/17 16:50

Matrix: Soil

Sampled: 01/18/17 12:25

Work Order: AA00429

Project: DRAINAGE DITCH

Sampled By: kurt Fogleman

% Solids: 76.27

Volatile Organic Compounds by GCMS

^ - ENCO Orlando certified analyte [NELAC E83182]

Analyte [CAS Number]	Results	Flag	Units	DF	MDL	PQL	Batch	Method	Analyzed	By	Notes
Hexachlorobutadiene [87-68-3]^	0.0012	U	mg/kg dry	1	0.0012	0.0013	7A26012	EPA 8260B	01/26/17 19:48	KKW	
Isopropylbenzene [98-82-8]^	0.00071	U	mg/kg dry	1	0.00071	0.0013	7A26012	EPA 8260B	01/26/17 19:48	KKW	
m,p-Xylenes [108-38-3/106-42-3]^	0.0013	U	mg/kg dry	1	0.0013	0.0026	7A26012	EPA 8260B	01/26/17 19:48	KKW	
Methylene Chloride [75-09-2]^	0.0026	U	mg/kg dry	1	0.0026	0.0066	7A26012	EPA 8260B	01/26/17 19:48	KKW	
Methyl-tert-Butyl Ether [1634-04-4]^	0.00035	U	mg/kg dry	1	0.00035	0.0013	7A26012	EPA 8260B	01/26/17 19:48	KKW	
Naphthalene [91-20-3]^	0.00075	U	mg/kg dry	1	0.00075	0.0013	7A26012	EPA 8260B	01/26/17 19:48	KKW	
n-Butyl Benzene [104-51-8]^	0.0012	U	mg/kg dry	1	0.0012	0.0013	7A26012	EPA 8260B	01/26/17 19:48	KKW	
n-Propyl Benzene [103-65-1]^	0.00083	U	mg/kg dry	1	0.00083	0.0013	7A26012	EPA 8260B	01/26/17 19:48	KKW	
o-Xylene [95-47-6]^	0.00068	U	mg/kg dry	1	0.00068	0.0013	7A26012	EPA 8260B	01/26/17 19:48	KKW	
sec-Butylbenzene [135-98-8]^	0.00085	U	mg/kg dry	1	0.00085	0.0013	7A26012	EPA 8260B	01/26/17 19:48	KKW	
Styrene [100-42-5]^	0.00058	U	mg/kg dry	1	0.00058	0.0013	7A26012	EPA 8260B	01/26/17 19:48	KKW	
tert-Butylbenzene [98-06-6]^	0.00079	U	mg/kg dry	1	0.00079	0.0013	7A26012	EPA 8260B	01/26/17 19:48	KKW	
Tetrachloroethene [127-18-4]^	0.00064	U	mg/kg dry	1	0.00064	0.0013	7A26012	EPA 8260B	01/26/17 19:48	KKW	
Toluene [108-88-3]^	0.00060	U	mg/kg dry	1	0.00060	0.0013	7A26012	EPA 8260B	01/26/17 19:48	KKW	
trans-1,2-Dichloroethene [156-60-5]^	0.00090	U	mg/kg dry	1	0.00090	0.0013	7A26012	EPA 8260B	01/26/17 19:48	KKW	
trans-1,3-Dichloropropene [10061-02-6]^	0.00056	U	mg/kg dry	1	0.00056	0.0013	7A26012	EPA 8260B	01/26/17 19:48	KKW	
Trichloroethene [79-01-6]^	0.00066	U	mg/kg dry	1	0.00066	0.0013	7A26012	EPA 8260B	01/26/17 19:48	KKW	
Trichlorofluoromethane [75-69-4]^	0.00071	U	mg/kg dry	1	0.00071	0.0013	7A26012	EPA 8260B	01/26/17 19:48	KKW	
Vinyl chloride [75-01-4]^	0.00058	U	mg/kg dry	1	0.00058	0.0013	7A26012	EPA 8260B	01/26/17 19:48	KKW	
Xylenes (Total) [1330-20-7]^	0.0013	U	mg/kg dry	1	0.0013	0.0026	7A26012	EPA 8260B	01/26/17 19:48	KKW	

Surrogates	Results	DF	Spike Lvl	% Rec	% Rec Limits	Batch	Method	Analyzed	By	Notes
4-Bromofluorobenzene	0.074	1	0.0680	109 %	70-130	7A26012	EPA 8260B	01/26/17 19:48	KKW	
Dibromofluoromethane	0.059	1	0.0680	87 %	70-133	7A26012	EPA 8260B	01/26/17 19:48	KKW	
Toluene-d8	0.073	1	0.0680	108 %	70-130	7A26012	EPA 8260B	01/26/17 19:48	KKW	

Semivolatile Organic Compounds by GCMS

^ - ENCO Orlando certified analyte [NELAC E83182]

Analyte [CAS Number]	Results	Flag	Units	DF	MDL	PQL	Batch	Method	Analyzed	By	Notes
1,2,4-Trichlorobenzene [120-82-1]^	0.72	U	mg/kg dry	5	0.72	2.2	7A23035	EPA 8270D	01/25/17 18:07	jfi	R-01
1,2-Dichlorobenzene [95-50-1]^	0.79	U	mg/kg dry	5	0.79	2.2	7A23035	EPA 8270D	01/25/17 18:07	jfi	R-01
1,3-Dichlorobenzene [541-73-1]^	0.79	U	mg/kg dry	5	0.79	2.2	7A23035	EPA 8270D	01/25/17 18:07	jfi	R-01
1,4-Dichlorobenzene [106-46-7]^	0.66	U	mg/kg dry	5	0.66	2.2	7A23035	EPA 8270D	01/25/17 18:07	jfi	R-01
1-Methylnaphthalene [90-12-0]^	0.63	U	mg/kg dry	5	0.63	2.2	7A23035	EPA 8270D	01/25/17 18:07	jfi	R-01
2,4,5-Trichlorophenol [95-95-4]^	0.44	U	mg/kg dry	5	0.44	2.2	7A23035	EPA 8270D	01/25/17 18:07	jfi	R-01
2,4,6-Trichlorophenol [88-06-2]^	0.98	U	mg/kg dry	5	0.98	2.2	7A23035	EPA 8270D	01/25/17 18:07	jfi	R-01
2,4-Dichlorophenol [120-83-2]^	1.6	U	mg/kg dry	5	1.6	2.2	7A23035	EPA 8270D	01/25/17 18:07	jfi	R-01
2,4-Dimethylphenol [105-67-9]^	1.5	U	mg/kg dry	5	1.5	2.2	7A23035	EPA 8270D	01/25/17 18:07	jfi	R-01
2,4-Dinitrophenol [51-28-5]^	0.58	U	mg/kg dry	5	0.58	2.2	7A23035	EPA 8270D	01/25/17 18:07	jfi	R-01
2,4-Dinitrotoluene [121-14-2]^	1.0	U	mg/kg dry	5	1.0	2.2	7A23035	EPA 8270D	01/25/17 18:07	jfi	J-06, QV-01, R-01
2,6-Dinitrotoluene [606-20-2]^	1.2	U	mg/kg dry	5	1.2	2.2	7A23035	EPA 8270D	01/25/17 18:07	jfi	R-01
2-Chloronaphthalene [91-58-7]^	0.64	U	mg/kg dry	5	0.64	2.2	7A23035	EPA 8270D	01/25/17 18:07	jfi	R-01
2-Chlorophenol [95-57-8]^	1.5	U	mg/kg dry	5	1.5	2.2	7A23035	EPA 8270D	01/25/17 18:07	jfi	R-01
2-Methyl-4,6-dinitrophenol [534-52-1]^	1.8	U	mg/kg dry	5	1.8	2.2	7A23035	EPA 8270D	01/25/17 18:07	jfi	R-01
2-Methylnaphthalene [91-57-6]^	0.79	U	mg/kg dry	5	0.79	2.2	7A23035	EPA 8270D	01/25/17 18:07	jfi	R-01
2-Methylphenol [95-48-7]^	0.72	U	mg/kg dry	5	0.72	2.2	7A23035	EPA 8270D	01/25/17 18:07	jfi	R-01
2-Nitroaniline [88-74-4]^	0.56	U	mg/kg dry	5	0.56	2.2	7A23035	EPA 8270D	01/25/17 18:07	jfi	R-01

FINAL

This report relates only to the sample as received by the laboratory, and may only be reproduced in full.

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ANALYTICAL RESULTS

Description: Upstream

Lab Sample ID: AA00429-02

Received: 01/18/17 16:50

Matrix: Soil

Sampled: 01/18/17 12:25

Work Order: AA00429

Project: DRAINAGE DITCH

Sampled By: kurt Fogleman

% Solids: 76.27

Semivolatile Organic Compounds by GCMS

^ - ENCO Orlando certified analyte [NELAC E83182]

Analyte [CAS Number]	Results	Flag	Units	DF	MDL	PQL	Batch	Method	Analyzed	By	Notes
2-Nitrophenol [88-75-5]^	1.7	U	mg/kg dry	5	1.7	2.2	7A23035	EPA 8270D	01/25/17 18:07	jfi	R-01
3 & 4-Methylphenol [108-39-4/106-44-5]^	1.6	U	mg/kg dry	5	1.6	2.2	7A23035	EPA 8270D	01/25/17 18:07	jfi	QV-01, R-01
3,3'-Dichlorobenzidine [91-94-1]^	1.4	U	mg/kg dry	5	1.4	2.2	7A23035	EPA 8270D	01/25/17 18:07	jfi	QV-01, R-01
3-Nitroaniline [99-09-2]^	0.52	U	mg/kg dry	5	0.52	2.2	7A23035	EPA 8270D	01/25/17 18:07	jfi	R-01
4-Bromophenyl-phenylether [101-55-3]^	0.85	U	mg/kg dry	5	0.85	2.2	7A23035	EPA 8270D	01/25/17 18:07	jfi	R-01
4-Chloro-3-methylphenol [59-50-7]^	1.8	U	mg/kg dry	5	1.8	2.2	7A23035	EPA 8270D	01/25/17 18:07	jfi	R-01
4-Chloroaniline [106-47-8]^	0.43	U	mg/kg dry	5	0.43	2.2	7A23035	EPA 8270D	01/25/17 18:07	jfi	R-01
4-Chlorophenyl-phenylether [7005-72-3]^	0.85	U	mg/kg dry	5	0.85	2.2	7A23035	EPA 8270D	01/25/17 18:07	jfi	QV-01, R-01
4-Nitroaniline [100-01-6]^	1.7	U	mg/kg dry	5	1.7	2.2	7A23035	EPA 8270D	01/25/17 18:07	jfi	QV-01, R-01
4-Nitrophenol [100-02-7]^	0.85	U	mg/kg dry	5	0.85	2.2	7A23035	EPA 8270D	01/25/17 18:07	jfi	QV-01, R-01
Acenaphthene [83-32-9]^	0.85	U	mg/kg dry	5	0.85	2.2	7A23035	EPA 8270D	01/25/17 18:07	jfi	R-01
Acenaphthylene [208-96-8]^	0.79	U	mg/kg dry	5	0.79	2.2	7A23035	EPA 8270D	01/25/17 18:07	jfi	R-01
Anthracene [120-12-7]^	0.98	U	mg/kg dry	5	0.98	2.2	7A23035	EPA 8270D	01/25/17 18:07	jfi	R-01
Benidine [92-87-5]^	0.56	U	mg/kg dry	5	0.56	2.2	7A23035	EPA 8270D	01/25/17 18:07	jfi	QV-01, R-01
Benzo(a)anthracene [56-55-3]^	0.85	U	mg/kg dry	5	0.85	2.2	7A23035	EPA 8270D	01/25/17 18:07	jfi	R-01
Benzo(a)pyrene [50-32-8]^	0.65	I	mg/kg dry	5	0.51	2.2	7A23035	EPA 8270D	01/26/17 17:50	jfi	
Benzo(b)fluoranthene [205-99-2]^	1.4	I	mg/kg dry	5	0.72	2.2	7A23035	EPA 8270D	01/26/17 17:50	jfi	
Benzo(g,h,i)perylene [191-24-2]^	1.0	U	mg/kg dry	5	1.0	2.2	7A23035	EPA 8270D	01/25/17 18:07	jfi	R-01
Benzo(k)fluoranthene [207-08-9]^	0.72	U	mg/kg dry	5	0.72	2.2	7A23035	EPA 8270D	01/25/17 18:07	jfi	R-01
Benzoic acid [65-85-0]^	3.1	U	mg/kg dry	5	3.1	11	7A23035	EPA 8270D	01/25/17 18:07	jfi	R-01
Benzyl alcohol [100-51-6]^	1.0	U	mg/kg dry	5	1.0	2.2	7A23035	EPA 8270D	01/25/17 18:07	jfi	R-01
Bis(2-chloroethoxy)methane [111-91-1]^	0.98	U	mg/kg dry	5	0.98	2.2	7A23035	EPA 8270D	01/25/17 18:07	jfi	R-01
Bis(2-chloroethyl)ether [111-44-4]^	0.92	U	mg/kg dry	5	0.92	2.2	7A23035	EPA 8270D	01/25/17 18:07	jfi	R-01
Bis(2-chloroisopropyl)ether [108-60-1]^	0.65	U	mg/kg dry	5	0.65	2.2	7A23035	EPA 8270D	01/25/17 18:07	jfi	R-01
Bis(2-ethylhexyl)phthalate [117-81-7]^	0.85	U	mg/kg dry	5	0.85	2.2	7A23035	EPA 8270D	01/25/17 18:07	jfi	R-01
Butylbenzylphthalate [85-68-7]^	0.92	U	mg/kg dry	5	0.92	2.2	7A23035	EPA 8270D	01/25/17 18:07	jfi	QV-01, R-01
Chrysene [218-01-9]^	0.85	U	mg/kg dry	5	0.85	2.2	7A23035	EPA 8270D	01/25/17 18:07	jfi	R-01
Dibenzo(a,h)anthracene [53-70-3]^	0.92	U	mg/kg dry	5	0.92	2.2	7A23035	EPA 8270D	01/25/17 18:07	jfi	QV-01, R-01
Dibenzofuran [132-64-9]^	0.85	U	mg/kg dry	5	0.85	2.2	7A23035	EPA 8270D	01/25/17 18:07	jfi	R-01
Diethylphthalate [84-66-2]^	0.85	U	mg/kg dry	5	0.85	2.2	7A23035	EPA 8270D	01/25/17 18:07	jfi	R-01
Dimethylphthalate [131-11-3]^	0.85	U	mg/kg dry	5	0.85	2.2	7A23035	EPA 8270D	01/25/17 18:07	jfi	R-01
Di-n-butylphthalate [84-74-2]^	0.85	U	mg/kg dry	5	0.85	2.2	7A23035	EPA 8270D	01/25/17 18:07	jfi	R-01
Di-n-octylphthalate [117-84-0]^	0.85	U	mg/kg dry	5	0.85	2.2	7A23035	EPA 8270D	01/25/17 18:07	jfi	R-01
Fluoranthene [206-44-0]^	0.72	U	mg/kg dry	5	0.72	2.2	7A23035	EPA 8270D	01/25/17 18:07	jfi	R-01
Fluorene [86-73-7]^	0.92	U	mg/kg dry	5	0.92	2.2	7A23035	EPA 8270D	01/25/17 18:07	jfi	QV-01, R-01
Hexachlorobenzene [118-74-1]^	0.79	U	mg/kg dry	5	0.79	2.2	7A23035	EPA 8270D	01/25/17 18:07	jfi	R-01
Hexachlorobutadiene [87-68-3]^	0.85	U	mg/kg dry	5	0.85	2.2	7A23035	EPA 8270D	01/25/17 18:07	jfi	R-01
Hexachlorocyclopentadiene [77-47-4]^	0.98	U	mg/kg dry	5	0.98	2.2	7A23035	EPA 8270D	01/25/17 18:07	jfi	R-01
Hexachloroethane [67-72-1]^	0.66	U	mg/kg dry	5	0.66	2.2	7A23035	EPA 8270D	01/25/17 18:07	jfi	R-01
Indeno(1,2,3-cd)pyrene [193-39-5]^	0.92	U	mg/kg dry	5	0.92	2.2	7A23035	EPA 8270D	01/25/17 18:07	jfi	R-01
Isophorone [78-59-1]^	1.1	U	mg/kg dry	5	1.1	2.2	7A23035	EPA 8270D	01/25/17 18:07	jfi	R-01
Naphthalene [91-20-3]^	0.79	U	mg/kg dry	5	0.79	2.2	7A23035	EPA 8270D	01/25/17 18:07	jfi	R-01

ANALYTICAL RESULTS

Description: Upstream

Lab Sample ID: AA00429-02

Received: 01/18/17 16:50

Matrix: Soil

Sampled: 01/18/17 12:25

Work Order: AA00429

Project: DRAINAGE DITCH

Sampled By: kurt Fogleman

% Solids: 76.27

Semivolatile Organic Compounds by GCMS

^ - ENCO Orlando certified analyte [NELAC E83182]

Analyte [CAS Number]	Results	Flag	Units	DF	MDL	PQL	Batch	Method	Analyzed	By	Notes
Nitrobenzene [98-95-3]^	0.98	U	mg/kg dry	5	0.98	2.2	7A23035	EPA 8270D	01/25/17 18:07	jfi	R-01
N-Nitrosodimethylamine [62-75-9]^	0.79	U	mg/kg dry	5	0.79	2.2	7A23035	EPA 8270D	01/25/17 18:07	jfi	R-01
N-Nitroso-di-n-propylamine [621-64-7]^	0.98	U	mg/kg dry	5	0.98	2.2	7A23035	EPA 8270D	01/25/17 18:07	jfi	QV-01, R-01
N-nitrosodiphenylamine/Diphenylamine [86-30-6/122-39-4]^	1.5	U	mg/kg dry	5	1.5	2.2	7A23035	EPA 8270D	01/25/17 18:07	jfi	QV-01, R-01
Pentachlorophenol [87-86-5]^	1.4	U	mg/kg dry	5	1.4	2.2	7A23035	EPA 8270D	01/25/17 18:07	jfi	R-01
Phenanthrene [85-01-8]^	0.85	U	mg/kg dry	5	0.85	2.2	7A23035	EPA 8270D	01/25/17 18:07	jfi	R-01
Phenol [108-95-2]^	0.65	U	mg/kg dry	5	0.65	2.2	7A23035	EPA 8270D	01/25/17 18:07	jfi	R-01
Pyrene [129-00-0]^	0.72	U	mg/kg dry	5	0.72	2.2	7A23035	EPA 8270D	01/25/17 18:07	jfi	R-01
Pyridine [110-86-1]^	0.98	U	mg/kg dry	5	0.98	2.2	7A23035	EPA 8270D	01/25/17 18:07	jfi	R-01

Surrogates	Results	DF	Spike Lvl	% Rec	% Rec Limits	Batch	Method	Analyzed	By	Notes
2,4,6-Tribromophenol	1.1	5	2.16	53 %	23-137	7A23035	EPA 8270D	01/25/17 18:07	jfi	R-01
2-Fluorobiphenyl	1.2	5	2.16	57 %	29-119	7A23035	EPA 8270D	01/25/17 18:07	jfi	R-01
2-Fluorophenol	1.1	5	2.16	50 %	20-124	7A23035	EPA 8270D	01/25/17 18:07	jfi	R-01
Nitrobenzene-d5	1.2	5	2.16	54 %	17-126	7A23035	EPA 8270D	01/25/17 18:07	jfi	R-01
Phenol-d5	1.1	5	2.16	52 %	15-131	7A23035	EPA 8270D	01/25/17 18:07	jfi	R-01
Terphenyl-d14	1.5	5	2.16	69 %	60-120	7A23035	EPA 8270D	01/25/17 18:07	jfi	R-01

Metals by EPA 6000/7000 Series Methods

^ - ENCO Orlando certified analyte [NELAC E83182]

Analyte [CAS Number]	Results	Flag	Units	DF	MDL	PQL	Batch	Method	Analyzed	By	Notes
Mercury [7439-97-6]^	0.0438		mg/kg dry	1	0.00451	0.0116	7A19025	EPA 7471B	01/20/17 09:43	JAY	

TCLP Metals by 6000/7000 Series Methods

^ - ENCO Orlando certified analyte [NELAC E83182]

Analyte [CAS Number]	Results	Flag	Units	DF	MDL	PQL	Batch	Method	Analyzed	By	Notes
Mercury [7439-97-6]^	0.000230	U	mg/L	1	0.000230	0.00200	7A18005	EPA 7470A	01/24/17 10:28	IR	

Metals by EPA 6000/7000 Series Methods

^ - ENCO Jacksonville certified analyte [NELAC E82277]

Analyte [CAS Number]	Results	Flag	Units	DF	MDL	PQL	Batch	Method	Analyzed	By	Notes
Arsenic [7440-38-2]^	2.80		mg/kg dry	1	0.714	0.830	7A24001	EPA 6010C	01/25/17 12:09	ACV	
Barium [7440-39-3]^	29.2		mg/kg dry	1	0.0730	0.830	7A24001	EPA 6010C	01/25/17 12:09	ACV	
Cadmium [7440-43-9]^	0.320		mg/kg dry	1	0.0232	0.0830	7A24001	EPA 6010C	01/25/17 12:09	ACV	
Chromium [7440-47-3]^	14.4		mg/kg dry	1	0.266	0.830	7A24001	EPA 6010C	01/25/17 12:09	ACV	
Lead [7439-92-1]^	15.9		mg/kg dry	1	0.382	0.830	7A24001	EPA 6010C	01/25/17 12:09	ACV	
Selenium [7782-49-2]^	0.963	U	mg/kg dry	1	0.963	3.32	7A24001	EPA 6010C	01/25/17 12:09	ACV	
Silver [7440-22-4]^	0.0813	U	mg/kg dry	1	0.0813	0.830	7A24001	EPA 6010C	01/25/17 12:09	ACV	

ANALYTICAL RESULTS

Description: Upstream

Lab Sample ID: AA00429-02

Received: 01/18/17 16:50

Matrix: Soil

Sampled: 01/18/17 12:25

Work Order: AA00429

Project: DRAINAGE DITCH

Sampled By: kurt Fogleman

% Solids: 76.27

TCLP Metals by 6000/7000 Series Methods

^ - ENCO Jacksonville certified analyte [NELAC E82277]

<u>Analyte [CAS Number]</u>	<u>Results</u>	<u>Flag</u>	<u>Units</u>	<u>DF</u>	<u>MDL</u>	<u>PQL</u>	<u>Batch</u>	<u>Method</u>	<u>Analyzed</u>	<u>By</u>	<u>Notes</u>
Arsenic [7440-38-2]^	0.260		mg/L	1	0.200	0.250	7A25002	EPA 6010C	01/26/17 11:33	ACV	
Barium [7440-39-3]^	0.135	IV	mg/L	1	0.0132	0.250	7A25002	EPA 6010C	01/26/17 11:33	ACV	
Cadmium [7440-43-9]^	0.0112	U	mg/L	1	0.0112	0.0250	7A25002	EPA 6010C	01/26/17 11:33	ACV	
Chromium [7440-47-3]^	0.0275	U	mg/L	1	0.0275	0.250	7A25002	EPA 6010C	01/26/17 11:33	ACV	
Lead [7439-92-1]^	0.0700	U	mg/L	1	0.0700	0.250	7A25002	EPA 6010C	01/26/17 11:33	ACV	
Selenium [7782-49-2]^	0.250	U	mg/L	1	0.250	1.00	7A25002	EPA 6010C	01/26/17 11:33	ACV	
Silver [7440-22-4]^	0.0185	U	mg/L	1	0.0185	0.250	7A25002	EPA 6010C	01/26/17 11:33	ACV	

QUALITY CONTROL DATA

Volatile Organic Compounds by GCMS - Quality Control

Batch 7A26012 - EPA 5035_MS

Blank (7A26012-BLK1)

Prepared: 01/26/2017 00:00 Analyzed: 01/26/2017 13:25

Analyte	Result	Flag	PQL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
1,1,1,2-Tetrachloroethane	0.00045	U	0.0010	mg/kg wet							
1,1,1-Trichloroethane	0.00035	U	0.0010	mg/kg wet							
1,1,2,2-Tetrachloroethane	0.00046	U	0.0010	mg/kg wet							
1,1,2-Trichloroethane	0.00060	U	0.0010	mg/kg wet							
1,1-Dichloroethane	0.00057	U	0.0010	mg/kg wet							
1,1-Dichloroethene	0.00062	U	0.0010	mg/kg wet							
1,1-Dichloropropene	0.00054	U	0.0010	mg/kg wet							
1,2,3-Trichlorobenzene	0.00091	U	0.0010	mg/kg wet							
1,2,3-Trichloropropane	0.0038	U	0.0050	mg/kg wet							
1,2,4-Trichlorobenzene	0.00085	U	0.0010	mg/kg wet							
1,2,4-Trimethylbenzene	0.00068	U	0.0010	mg/kg wet							
1,2-Dibromo-3-chloropropane	0.00085	U	0.0010	mg/kg wet							
1,2-Dibromoethane	0.00067	U	0.0010	mg/kg wet							
1,2-Dichlorobenzene	0.00044	U	0.0010	mg/kg wet							
1,2-Dichloroethane	0.00053	U	0.0010	mg/kg wet							
1,2-Dichloropropane	0.00055	U	0.0010	mg/kg wet							
1,3,5-Trimethylbenzene	0.00059	U	0.0010	mg/kg wet							
1,3-Dichlorobenzene	0.00047	U	0.0010	mg/kg wet							
1,3-Dichloropropane	0.00050	U	0.0010	mg/kg wet							
1,4-Dichlorobenzene	0.00045	U	0.0010	mg/kg wet							
2,2-Dichloropropane	0.00040	U	0.0010	mg/kg wet							
2-Butanone	0.0020	U	0.0050	mg/kg wet							
2-Chloroethyl Vinyl Ether	0.0017	U	0.0050	mg/kg wet							
2-Chlorotoluene	0.00048	U	0.0010	mg/kg wet							
2-Hexanone	0.0034	U	0.0050	mg/kg wet							
4-Chlorotoluene	0.00061	U	0.0010	mg/kg wet							
4-Isopropyltoluene	0.00076	U	0.0010	mg/kg wet							
4-Methyl-2-pentanone	0.0036	U	0.0050	mg/kg wet							
Acetone	0.010	U	0.020	mg/kg wet							
Benzene	0.00040	U	0.0010	mg/kg wet							
Bromobenzene	0.00040	U	0.0010	mg/kg wet							
Bromochloromethane	0.00075	U	0.0010	mg/kg wet							
Bromodichloromethane	0.00047	U	0.0010	mg/kg wet							
Bromoform	0.00051	U	0.0010	mg/kg wet							
Bromomethane	0.00090	U	0.0010	mg/kg wet							
Carbon disulfide	0.0021	U	0.0050	mg/kg wet							
Carbon Tetrachloride	0.00060	U	0.0010	mg/kg wet							
Chlorobenzene	0.00048	U	0.0010	mg/kg wet							
Chloroethane	0.00054	U	0.0010	mg/kg wet							
Chloroform	0.00043	U	0.0010	mg/kg wet							
Chloromethane	0.00065	U	0.0010	mg/kg wet							
cis-1,2-Dichloroethene	0.00053	U	0.0010	mg/kg wet							
cis-1,3-Dichloropropene	0.00042	U	0.0010	mg/kg wet							
Dibromochloromethane	0.00052	U	0.0010	mg/kg wet							
Dibromomethane	0.00086	U	0.0010	mg/kg wet							
Dichlorodifluoromethane	0.00062	U	0.0010	mg/kg wet							
Ethylbenzene	0.00056	U	0.0010	mg/kg wet							
Hexachlorobutadiene	0.00091	U	0.0010	mg/kg wet							
Isopropylbenzene	0.00054	U	0.0010	mg/kg wet							

QUALITY CONTROL DATA

Volatile Organic Compounds by GCMS - Quality Control

Batch 7A26012 - EPA 5035_MS - Continued

Blank (7A26012-BLK1) Continued

Prepared: 01/26/2017 00:00 Analyzed: 01/26/2017 13:25

Analyte	Result	Flag	PQL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
m,p-Xylenes	0.00099	U	0.0020	mg/kg wet							
Methylene Chloride	0.0020	U	0.0050	mg/kg wet							
Methyl-tert-Butyl Ether	0.00027	U	0.0010	mg/kg wet							
Naphthalene	0.00057	U	0.0010	mg/kg wet							
n-Butyl Benzene	0.00090	U	0.0010	mg/kg wet							
n-Propyl Benzene	0.00063	U	0.0010	mg/kg wet							
o-Xylene	0.00052	U	0.0010	mg/kg wet							
sec-Butylbenzene	0.00065	U	0.0010	mg/kg wet							
Styrene	0.00044	U	0.0010	mg/kg wet							
tert-Butylbenzene	0.00060	U	0.0010	mg/kg wet							
Tetrachloroethene	0.00049	U	0.0010	mg/kg wet							
Toluene	0.00046	U	0.0010	mg/kg wet							
trans-1,2-Dichloroethene	0.00069	U	0.0010	mg/kg wet							
trans-1,3-Dichloropropene	0.00043	U	0.0010	mg/kg wet							
Trichloroethene	0.00050	U	0.0010	mg/kg wet							
Trichlorofluoromethane	0.00054	U	0.0010	mg/kg wet							
Vinyl chloride	0.00044	U	0.0010	mg/kg wet							
Xylenes (Total)	0.00099	U	0.0020	mg/kg wet							
4-Bromofluorobenzene	0.056			mg/kg wet	0.0500		112	70-130			
Dibromofluoromethane	0.047			mg/kg wet	0.0500		94	70-133			
Toluene-d8	0.053			mg/kg wet	0.0500		106	70-130			

LCS (7A26012-BS1)

Prepared: 01/26/2017 00:00 Analyzed: 01/26/2017 11:19

Analyte	Result	Flag	PQL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
1,1-Dichloroethene	0.018		0.0010	mg/kg wet	0.0200		88	22-166			
Benzene	0.018		0.0010	mg/kg wet	0.0200		90	49-142			
Chlorobenzene	0.019		0.0010	mg/kg wet	0.0200		97	45-147			
Toluene	0.019		0.0010	mg/kg wet	0.0200		94	55-136			
Trichloroethene	0.017		0.0010	mg/kg wet	0.0200		86	51-147			
4-Bromofluorobenzene	0.056			mg/kg wet	0.0500		113	70-130			
Dibromofluoromethane	0.045			mg/kg wet	0.0500		90	70-133			
Toluene-d8	0.055			mg/kg wet	0.0500		110	70-130			

LCS Dup (7A26012-BSD1)

Prepared: 01/26/2017 00:00 Analyzed: 01/26/2017 11:50

Analyte	Result	Flag	PQL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
1,1-Dichloroethene	0.017		0.0010	mg/kg wet	0.0200		83	22-166	5	23	
Benzene	0.017		0.0010	mg/kg wet	0.0200		86	49-142	5	19	
Chlorobenzene	0.019		0.0010	mg/kg wet	0.0200		93	45-147	4	18	
Toluene	0.019		0.0010	mg/kg wet	0.0200		97	55-136	4	21	
Trichloroethene	0.018		0.0010	mg/kg wet	0.0200		88	51-147	3	26	
4-Bromofluorobenzene	0.055			mg/kg wet	0.0500		109	70-130			
Dibromofluoromethane	0.044			mg/kg wet	0.0500		87	70-133			
Toluene-d8	0.050			mg/kg wet	0.0500		100	70-130			

Semivolatile Organic Compounds by GCMS - Quality Control

Batch 7A23035 - SOP EXSV-33

QUALITY CONTROL DATA

Semivolatile Organic Compounds by GCMS - Quality Control

Blank (7A23035-BLK1)

Prepared: 01/23/2017 15:33 Analyzed: 01/25/2017 10:27

Analyte	Result	Flag	POL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
1,2,4-Trichlorobenzene	0.11	U	0.33	mg/kg wet							
1,2-Dichlorobenzene	0.12	U	0.33	mg/kg wet							
1,3-Dichlorobenzene	0.12	U	0.33	mg/kg wet							
1,4-Dichlorobenzene	0.10	U	0.33	mg/kg wet							
1-Methylnaphthalene	0.096	U	0.33	mg/kg wet							
2,4,5-Trichlorophenol	0.067	U	0.33	mg/kg wet							
2,4,6-Trichlorophenol	0.15	U	0.33	mg/kg wet							
2,4-Dichlorophenol	0.25	U	0.33	mg/kg wet							
2,4-Dimethylphenol	0.23	U	0.33	mg/kg wet							
2,4-Dinitrophenol	0.089	U	0.33	mg/kg wet							
2,4-Dinitrotoluene	0.16	U	0.33	mg/kg wet							
2,6-Dinitrotoluene	0.18	U	0.33	mg/kg wet							
2-Chloronaphthalene	0.098	U	0.33	mg/kg wet							
2-Chlorophenol	0.23	U	0.33	mg/kg wet							
2-Methyl-4,6-dinitrophenol	0.28	U	0.33	mg/kg wet							
2-Methylnaphthalene	0.12	U	0.33	mg/kg wet							
2-Methylphenol	0.11	U	0.33	mg/kg wet							
2-Nitroaniline	0.085	U	0.33	mg/kg wet							
2-Nitrophenol	0.26	U	0.33	mg/kg wet							
3 & 4-Methylphenol	0.25	U	0.33	mg/kg wet							
3,3'-Dichlorobenzidine	0.21	U	0.33	mg/kg wet							
3-Nitroaniline	0.080	U	0.33	mg/kg wet							
4-Bromophenyl-phenylether	0.13	U	0.33	mg/kg wet							
4-Chloro-3-methylphenol	0.28	U	0.33	mg/kg wet							
4-Chloroaniline	0.065	U	0.33	mg/kg wet							
4-Chlorophenyl-phenylether	0.13	U	0.33	mg/kg wet							
4-Nitroaniline	0.26	U	0.33	mg/kg wet							
4-Nitrophenol	0.13	U	0.33	mg/kg wet							
Acenaphthene	0.13	U	0.33	mg/kg wet							
Acenaphthylene	0.12	U	0.33	mg/kg wet							
Anthracene	0.15	U	0.33	mg/kg wet							
Benzidine	0.086	U	0.33	mg/kg wet							
Benzo(a)anthracene	0.13	U	0.33	mg/kg wet							
Benzo(a)pyrene	0.078	U	0.33	mg/kg wet							
Benzo(b)fluoranthene	0.11	U	0.33	mg/kg wet							
Benzo(g,h,i)perylene	0.16	U	0.33	mg/kg wet							
Benzo(k)fluoranthene	0.11	U	0.33	mg/kg wet							
Benzoic acid	0.48	U	1.7	mg/kg wet							
Benzyl alcohol	0.16	U	0.33	mg/kg wet							
Bis(2-chloroethoxy)methane	0.15	U	0.33	mg/kg wet							
Bis(2-chloroethyl)ether	0.14	U	0.33	mg/kg wet							
Bis(2-chloroisopropyl)ether	0.099	U	0.33	mg/kg wet							
Bis(2-ethylhexyl)phthalate	0.13	U	0.33	mg/kg wet							
Butylbenzylphthalate	0.14	U	0.33	mg/kg wet							
Chrysene	0.13	U	0.33	mg/kg wet							
Dibenzo(a,h)anthracene	0.14	U	0.33	mg/kg wet							
Dibenzofuran	0.13	U	0.33	mg/kg wet							
Diethylphthalate	0.13	U	0.33	mg/kg wet							
Dimethylphthalate	0.13	U	0.33	mg/kg wet							
Di-n-butylphthalate	0.13	U	0.33	mg/kg wet							
Di-n-octylphthalate	0.13	U	0.33	mg/kg wet							

QUALITY CONTROL DATA

Semivolatile Organic Compounds by GCMS - Quality Control

Batch 7A23035 - SOP EXSV-33 - Continued

Blank (7A23035-BLK1) Continued

Prepared: 01/23/2017 15:33 Analyzed: 01/25/2017 10:27

Analyte	Result	Flag	POL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Fluoranthene	0.11	U	0.33	mg/kg wet							
Fluorene	0.14	U	0.33	mg/kg wet							
Hexachlorobenzene	0.12	U	0.33	mg/kg wet							
Hexachlorobutadiene	0.13	U	0.33	mg/kg wet							
Hexachlorocyclopentadiene	0.15	U	0.33	mg/kg wet							
Hexachloroethane	0.10	U	0.33	mg/kg wet							
Indeno(1,2,3-cd)pyrene	0.14	U	0.33	mg/kg wet							
Isophorone	0.17	U	0.33	mg/kg wet							
Naphthalene	0.12	U	0.33	mg/kg wet							
Nitrobenzene	0.15	U	0.33	mg/kg wet							
N-Nitrosodimethylamine	0.12	U	0.33	mg/kg wet							
N-Nitroso-di-n-propylamine	0.15	U	0.33	mg/kg wet							
N-nitrosodiphenylamine/Diphenylamine	0.23	U	0.33	mg/kg wet							
Pentachlorophenol	0.21	U	0.33	mg/kg wet							
Phenanthrene	0.13	U	0.33	mg/kg wet							
Phenol	0.099	U	0.33	mg/kg wet							
Pyrene	0.11	U	0.33	mg/kg wet							
Pyridine	0.15	U	0.33	mg/kg wet							
2,4,6-Tribromophenol	1.1			mg/kg wet	1.67		65	23-137			
2-Fluorobiphenyl	1.3			mg/kg wet	1.67		79	29-119			
2-Fluorophenol	1.2			mg/kg wet	1.67		74	20-124			
Nitrobenzene-d5	1.2			mg/kg wet	1.67		72	17-126			
Phenol-d5	1.3			mg/kg wet	1.67		75	15-131			
Terphenyl-d14	1.4			mg/kg wet	1.67		87	60-120			

LCS (7A23035-BS1)

Prepared: 01/23/2017 15:33 Analyzed: 01/25/2017 13:31

Analyte	Result	Flag	POL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
1,2,4-Trichlorobenzene	1.1		0.33	mg/kg wet	1.67		67	35-123			
1,4-Dichlorobenzene	1.1		0.33	mg/kg wet	1.67		68	34-120			
2,4-Dinitrotoluene	1.0		0.33	mg/kg wet	1.67		63	74-147			J-06
2-Chlorophenol	1.1		0.33	mg/kg wet	1.67		65	35-125			
4-Chloro-3-methylphenol	1.1		0.33	mg/kg wet	1.67		68	43-146			
4-Nitrophenol	1.7		0.33	mg/kg wet	1.67		101	24-212			
Acenaphthene	1.4		0.33	mg/kg wet	1.67		85	52-131			
N-Nitroso-di-n-propylamine	1.3		0.33	mg/kg wet	1.67		75	43-150			
Pentachlorophenol	0.77		0.33	mg/kg wet	1.67		46	26-153			
Phenol	1.0		0.33	mg/kg wet	1.67		62	36-126			
Pyrene	1.5		0.33	mg/kg wet	1.67		91	61-157			
2,4,6-Tribromophenol	0.97			mg/kg wet	1.67		58	23-137			
2-Fluorobiphenyl	1.2			mg/kg wet	1.67		71	29-119			
2-Fluorophenol	0.94			mg/kg wet	1.67		57	20-124			
Nitrobenzene-d5	1.2			mg/kg wet	1.67		71	17-126			
Phenol-d5	0.95			mg/kg wet	1.67		57	15-131			
Terphenyl-d14	1.6			mg/kg wet	1.67		94	60-120			

QUALITY CONTROL DATA

Semivolatile Organic Compounds by GCMS - Quality Control

Batch 7A23035 - SOP EXSV-33 - Continued

Matrix Spike (7A23035-MS1)

Prepared: 01/23/2017 15:33 Analyzed: 01/25/2017 11:28

Source: AA00444-01

Analyte	Result	Flag	POL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
1,2,4-Trichlorobenzene	1.5		0.35	mg/kg dry	1.75	0.12 U	83	35-123			
1,4-Dichlorobenzene	1.5		0.35	mg/kg dry	1.75	0.11 U	84	34-120			
2,4-Dinitrotoluene	1.4		0.35	mg/kg dry	1.75	0.17 U	79	74-147			
2-Chlorophenol	1.5		0.35	mg/kg dry	1.75	0.24 U	84	35-125			
4-Chloro-3-methylphenol	1.6		0.35	mg/kg dry	1.75	0.30 U	89	43-146			
4-Nitrophenol	2.5		0.35	mg/kg dry	1.75	0.14 U	141	24-212			
Acenaphthene	1.9		0.35	mg/kg dry	1.75	0.14 U	107	52-131			
N-Nitroso-di-n-propylamine	1.7		0.35	mg/kg dry	1.75	0.16 U	98	43-150			
Pentachlorophenol	1.3		0.35	mg/kg dry	1.75	0.22 U	75	26-153			
Phenol	1.4		0.35	mg/kg dry	1.75	0.10 U	81	36-126			
Pyrene	2.1		0.35	mg/kg dry	1.75	0.12 U	119	61-157			
2,4,6-Tribromophenol	1.4			mg/kg dry	1.75		81	23-137			
2-Fluorobiphenyl	1.5			mg/kg dry	1.75		86	29-119			
2-Fluorophenol	1.3			mg/kg dry	1.75		73	20-124			
Nitrobenzene-d5	1.5			mg/kg dry	1.75		86	17-126			
Phenol-d5	1.3			mg/kg dry	1.75		73	15-131			
Terphenyl-d14	2.2			mg/kg dry	1.75		126	60-120			QS-03

Matrix Spike Dup (7A23035-MSD1)

Prepared: 01/23/2017 15:33 Analyzed: 01/25/2017 11:59

Source: AA00444-01

Analyte	Result	Flag	POL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
1,2,4-Trichlorobenzene	1.3		0.35	mg/kg dry	1.75	0.12 U	73	35-123	13	32	
1,4-Dichlorobenzene	1.3		0.35	mg/kg dry	1.75	0.11 U	75	34-120	12	34	
2,4-Dinitrotoluene	1.1		0.35	mg/kg dry	1.75	0.17 U	65	74-147	20	23	QM-19
2-Chlorophenol	1.3		0.35	mg/kg dry	1.75	0.24 U	74	35-125	13	27	
4-Chloro-3-methylphenol	1.2		0.35	mg/kg dry	1.75	0.30 U	71	43-146	23	28	
4-Nitrophenol	1.8		0.35	mg/kg dry	1.75	0.14 U	103	24-212	32	35	
Acenaphthene	1.5		0.35	mg/kg dry	1.75	0.14 U	87	52-131	21	27	
N-Nitroso-di-n-propylamine	1.5		0.35	mg/kg dry	1.75	0.16 U	85	43-150	14	24	
Pentachlorophenol	0.91		0.35	mg/kg dry	1.75	0.22 U	52	26-153	36	26	QM-11
Phenol	1.2		0.35	mg/kg dry	1.75	0.10 U	69	36-126	16	32	
Pyrene	1.6		0.35	mg/kg dry	1.75	0.12 U	93	61-157	25	28	
2,4,6-Tribromophenol	1.1			mg/kg dry	1.75		61	23-137			
2-Fluorobiphenyl	1.3			mg/kg dry	1.75		73	29-119			
2-Fluorophenol	1.1			mg/kg dry	1.75		64	20-124			
Nitrobenzene-d5	1.3			mg/kg dry	1.75		76	17-126			
Phenol-d5	1.1			mg/kg dry	1.75		64	15-131			
Terphenyl-d14	1.7			mg/kg dry	1.75		94	60-120			

Metals by EPA 6000/7000 Series Methods - Quality Control

Batch 7A19025 - EPA 7471B

Blank (7A19025-BLK1)

Prepared: 01/19/2017 13:46 Analyzed: 01/20/2017 09:12

Analyte	Result	Flag	POL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Mercury	0.00390	U	0.0100	mg/kg wet							

QUALITY CONTROL DATA

Metals by EPA 6000/7000 Series Methods - Quality Control

Batch 7A19025 - EPA 7471B - Continued

LCS (7A19025-BS1)

Prepared: 01/19/2017 13:46 Analyzed: 01/20/2017 09:15

Analyte	Result	Flag	POL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Mercury	0.620		0.0100	mg/kg wet	0.600		103	80-120			

Matrix Spike (7A19025-MS1)

Prepared: 01/19/2017 13:46 Analyzed: 01/20/2017 09:23

Source: AA00443-01

Analyte	Result	Flag	POL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Mercury	0.798		0.0101	mg/kg dry	0.607	0.144	108	80-120			

Matrix Spike Dup (7A19025-MSD1)

Prepared: 01/19/2017 13:46 Analyzed: 01/20/2017 09:26

Source: AA00443-01

Analyte	Result	Flag	POL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Mercury	0.793		0.0104	mg/kg dry	0.625	0.144	104	80-120	0.6	20	

TCLP Metals by 6000/7000 Series Methods - Quality Control

Batch 7A18005 - EPA 7470A

Blank (7A18005-BLK1)

Prepared: 01/23/2017 12:28 Analyzed: 01/24/2017 07:24

Analyte	Result	Flag	POL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Mercury	2.30E-5	U	0.000200	mg/L							

Blank (7A18005-BLK2)

Prepared: 01/23/2017 12:28 Analyzed: 01/24/2017 07:27

Analyte	Result	Flag	POL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Mercury	0.000230	U	0.00200	mg/L							

Blank (7A18005-BLK3)

Prepared: 01/23/2017 12:28 Analyzed: 01/24/2017 07:30

Analyte	Result	Flag	POL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Mercury	0.000230	U	0.00200	mg/L							

LCS (7A18005-BS1)

Prepared: 01/23/2017 12:28 Analyzed: 01/24/2017 07:33

Analyte	Result	Flag	POL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Mercury	0.00478		0.000200	mg/L	0.00500		96	80-120			

Matrix Spike (7A18005-MS1)

Prepared: 01/23/2017 12:28 Analyzed: 01/24/2017 07:39

Source: AA00250-08

Analyte	Result	Flag	POL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Mercury	0.00386		0.000200	mg/L	0.00500	2.30E-5 U	77	75-125			

Matrix Spike Dup (7A18005-MSD1)

Prepared: 01/23/2017 12:28 Analyzed: 01/24/2017 07:48

Source: AA00250-08

Analyte	Result	Flag	POL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Mercury	0.00379		0.000200	mg/L	0.00500	2.30E-5 U	76	75-125	2	20	

QUALITY CONTROL DATA

TCLP Metals by 6000/7000 Series Methods - Quality Control

Batch 7A18005 - EPA 7470A - Continued

Post Spike (7A18005-PS1)

Prepared: 01/24/2017 06:00 Analyzed: 01/24/2017 07:52

Source: AA00250-08

Analyte	Result	Flag	PQL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Mercury	5.01		0.200	ug/L	5.61	-0.00892	89	80-120			

Metals by EPA 6000/7000 Series Methods - Quality Control

Batch 7A24001 - EPA 3050B

Blank (7A24001-BLK1)

Prepared: 01/24/2017 09:08 Analyzed: 01/25/2017 11:43

Analyte	Result	Flag	PQL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Arsenic	0.642	U	0.746	mg/kg wet							
Barium	0.0657	U	0.746	mg/kg wet							
Cadmium	0.0209	U	0.0746	mg/kg wet							
Chromium	0.239	U	0.746	mg/kg wet							
Lead	0.343	U	0.746	mg/kg wet							
Selenium	0.866	U	2.99	mg/kg wet							
Silver	0.0731	U	0.746	mg/kg wet							

LCS (7A24001-BS1)

Prepared: 01/24/2017 09:08 Analyzed: 01/25/2017 11:44

Analyte	Result	Flag	PQL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Arsenic	38.9		0.769	mg/kg wet	38.5		101	80-120			
Barium	39.5		0.769	mg/kg wet	38.5		103	80-120			
Cadmium	3.92		0.0769	mg/kg wet	3.85		102	80-120			
Chromium	39.6		0.769	mg/kg wet	38.5		103	80-120			
Lead	39.6		0.769	mg/kg wet	38.5		103	80-120			
Selenium	39.0		3.08	mg/kg wet	38.5		102	80-120			
Silver	7.75		0.769	mg/kg wet	7.69		101	80-120			

Matrix Spike (7A24001-MS1)

Prepared: 01/24/2017 09:08 Analyzed: 01/25/2017 11:46

Source: BA00328-01

Analyte	Result	Flag	PQL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Arsenic	45.8		0.882	mg/kg dry	44.1	3.00	97	75-125			
Barium	50.9		0.882	mg/kg dry	44.1	13.6	84	75-125			
Cadmium	4.28		0.0882	mg/kg dry	4.41	0.0625	96	75-125			
Chromium	48.4		0.882	mg/kg dry	44.1	7.84	92	75-125			
Lead	44.5		0.882	mg/kg dry	44.1	2.59	95	75-125			
Selenium	44.2		3.53	mg/kg dry	44.1	1.02 U	100	75-125			
Silver	9.14		0.882	mg/kg dry	8.82	0.188	102	75-125			

Matrix Spike Dup (7A24001-MSD1)

Prepared: 01/24/2017 09:08 Analyzed: 01/25/2017 11:47

Source: BA00328-01

Analyte	Result	Flag	PQL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Arsenic	46.4		0.913	mg/kg dry	45.6	3.00	95	75-125	1	30	
Barium	51.8		0.913	mg/kg dry	45.6	13.6	83	75-125	2	30	
Cadmium	4.50		0.0913	mg/kg dry	4.56	0.0625	97	75-125	5	30	
Chromium	49.3		0.913	mg/kg dry	45.6	7.84	91	75-125	2	30	
Lead	46.0		0.913	mg/kg dry	45.6	2.59	95	75-125	3	30	
Selenium	46.1		3.65	mg/kg dry	45.6	1.06 U	101	75-125	4	30	
Silver	9.39		0.913	mg/kg dry	9.13	0.188	101	75-125	3	30	

QUALITY CONTROL DATA

Metals by EPA 6000/7000 Series Methods - Quality Control

Batch 7A25001 - EPA 3050B

Blank (7A25001-BLK1)

Prepared: 01/25/2017 09:14 Analyzed: 01/26/2017 10:38

Analyte	Result	Flaq	PQL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Arsenic	0.652	U	0.758	mg/kg wet							
Barium	0.0667	U	0.758	mg/kg wet							
Cadmium	0.0212	U	0.0758	mg/kg wet							
Chromium	0.242	U	0.758	mg/kg wet							
Lead	0.348	U	0.758	mg/kg wet							
Selenium	0.879	U	3.03	mg/kg wet							
Silver	0.0742	U	0.758	mg/kg wet							

LCS (7A25001-BS1)

Prepared: 01/25/2017 09:14 Analyzed: 01/26/2017 10:40

Analyte	Result	Flaq	PQL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Arsenic	44.5		0.893	mg/kg wet	44.6		100	80-120			
Barium	46.0		0.893	mg/kg wet	44.6		103	80-120			
Cadmium	4.57		0.0893	mg/kg wet	4.46		102	80-120			
Chromium	45.7		0.893	mg/kg wet	44.6		102	80-120			
Lead	46.6		0.893	mg/kg wet	44.6		104	80-120			
Selenium	45.2		3.57	mg/kg wet	44.6		101	80-120			
Silver	9.06		0.893	mg/kg wet	8.93		101	80-120			

Matrix Spike (7A25001-MS1)

Prepared: 01/25/2017 09:14 Analyzed: 01/26/2017 10:41

Source: BA00364-01

Analyte	Result	Flaq	PQL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Arsenic	45.0		0.897	mg/kg dry	44.9	0.772 U	100	75-125			
Barium	47.2		0.897	mg/kg dry	44.9	0.650	104	75-125			
Cadmium	4.61		0.0897	mg/kg dry	4.49	0.0251 U	103	75-125			
Chromium	46.2		0.897	mg/kg dry	44.9	0.378	102	75-125			
Lead	47.2		0.897	mg/kg dry	44.9	0.413 U	105	75-125			
Selenium	45.4		3.59	mg/kg dry	44.9	1.04 U	101	75-125			
Silver	9.10		0.897	mg/kg dry	8.97	0.0879 U	101	75-125			

Matrix Spike Dup (7A25001-MSD1)

Prepared: 01/25/2017 09:14 Analyzed: 01/26/2017 10:43

Source: BA00364-01

Analyte	Result	Flaq	PQL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Arsenic	45.5		0.929	mg/kg dry	46.5	0.799 U	98	75-125	1	30	
Barium	48.4		0.929	mg/kg dry	46.5	0.650	103	75-125	2	30	
Cadmium	4.74		0.0929	mg/kg dry	4.65	0.0260 U	102	75-125	3	30	
Chromium	47.4		0.929	mg/kg dry	46.5	0.378	101	75-125	3	30	
Lead	48.8		0.929	mg/kg dry	46.5	0.428 U	105	75-125	3	30	
Selenium	46.2		3.72	mg/kg dry	46.5	1.08 U	99	75-125	2	30	
Silver	9.32		0.929	mg/kg dry	9.29	0.0911 U	100	75-125	2	30	

TCLP Metals by 6000/7000 Series Methods - Quality Control

Batch 7A25002 - EPA 3010A

Blank (7A25002-BLK1)

Prepared: 01/25/2017 09:19 Analyzed: 01/26/2017 11:16

Analyte	Result	Flaq	PQL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Arsenic	0.200	U	0.250	mg/L							

QUALITY CONTROL DATA

TCLP Metals by 6000/7000 Series Methods - Quality Control

Batch 7A25002 - EPA 3010A - Continued

Blank (7A25002-BLK1) Continued

Prepared: 01/25/2017 09:19 Analyzed: 01/26/2017 11:16

Analyte	Result	Flaq	POL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Barium	0.0175	I	0.250	mg/L							
Cadmium	0.0112	U	0.0250	mg/L							
Chromium	0.0275	U	0.250	mg/L							
Lead	0.0700	U	0.250	mg/L							
Selenium	0.250	U	1.00	mg/L							
Silver	0.0185	U	0.250	mg/L							

Blank (7A25002-BLK2)

Prepared: 01/25/2017 09:19 Analyzed: 01/26/2017 11:16

Analyte	Result	Flaq	POL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Arsenic	0.200	U	0.250	mg/L							
Barium	0.0393	I	0.250	mg/L							
Cadmium	0.0112	U	0.0250	mg/L							
Chromium	0.0275	U	0.250	mg/L							
Lead	0.0700	U	0.250	mg/L							
Selenium	0.250	U	1.00	mg/L							
Silver	0.0185	U	0.250	mg/L							

Blank (7A25002-BLK3)

Prepared: 01/25/2017 09:19 Analyzed: 01/26/2017 11:19

Analyte	Result	Flaq	POL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Arsenic	0.200	U	0.250	mg/L							
Barium	0.0132	U	0.250	mg/L							
Cadmium	0.0112	U	0.0250	mg/L							
Chromium	0.0275	U	0.250	mg/L							
Lead	0.0700	U	0.250	mg/L							
Selenium	0.250	U	1.00	mg/L							
Silver	0.0185	U	0.250	mg/L							

LCS (7A25002-BS1)

Prepared: 01/25/2017 09:19 Analyzed: 01/26/2017 11:21

Analyte	Result	Flaq	POL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Arsenic	12.4		0.250	mg/L	12.5		99	80-120			
Barium	12.6		0.250	mg/L	12.5		101	80-120			
Cadmium	1.27		0.0250	mg/L	1.25		101	80-120			
Chromium	12.6		0.250	mg/L	12.5		101	80-120			
Lead	12.6		0.250	mg/L	12.5		101	80-120			
Selenium	12.7		1.00	mg/L	12.5		101	80-120			
Silver	2.52		0.250	mg/L	2.50		101	80-120			

Matrix Spike (7A25002-MS1)

Prepared: 01/25/2017 09:19 Analyzed: 01/26/2017 11:22

Source: AA00429-01

Analyte	Result	Flaq	POL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Arsenic	12.7		0.250	mg/L	12.5	0.200 U	102	75-125			
Barium	12.9		0.250	mg/L	12.5	0.166	102	75-125			
Cadmium	1.28		0.0250	mg/L	1.25	0.0112 U	102	75-125			
Chromium	12.6		0.250	mg/L	12.5	0.0275 U	101	75-125			
Lead	12.9		0.250	mg/L	12.5	0.0700 U	103	75-125			

QUALITY CONTROL DATA

TCLP Metals by 6000/7000 Series Methods - Quality Control

Batch 7A25002 - EPA 3010A - Continued

Matrix Spike (7A25002-MS1) Continued

Prepared: 01/25/2017 09:19 Analyzed: 01/26/2017 11:22

Source: AA00429-01

Analyte	Result	Flag	POL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Selenium	12.9		1.00	mg/L	12.5	0.250 U	103	75-125			
Silver	2.54		0.250	mg/L	2.50	0.0185 U	102	75-125			

Matrix Spike Dup (7A25002-MSD1)

Prepared: 01/25/2017 09:19 Analyzed: 01/26/2017 11:24

Source: AA00429-01

Analyte	Result	Flag	POL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Arsenic	12.6		0.250	mg/L	12.5	0.200 U	101	75-125	0.5	20	
Barium	12.9		0.250	mg/L	12.5	0.166	102	75-125	0.2	20	
Cadmium	1.28		0.0250	mg/L	1.25	0.0112 U	102	75-125	0.2	20	
Chromium	12.6		0.250	mg/L	12.5	0.0275 U	101	75-125	0.002	20	
Lead	12.8		0.250	mg/L	12.5	0.0700 U	102	75-125	0.6	20	
Selenium	12.8		1.00	mg/L	12.5	0.250 U	102	75-125	1	20	
Silver	2.54		0.250	mg/L	2.50	0.0185 U	102	75-125	0.1	20	

FLAGS/NOTES AND DEFINITIONS

PQL	PQL: Practical Quantitation Limit.
B	Results are based upon membrane filter colony counts that are outside the method indicated ideal range.
I	The reported value is between the laboratory method detection limit (MDL) and the practical quantitation limit (PQL).
J	Estimated value.
K	Off-scale low; Actual value is known to be less than the value given.
L	Off-scale high; Actual value is known to be greater than value given.
M	Presence of analyte is verified but not quantified; the actual value is less than the MRL but greater than the MDL.
N	Presumptive evidence of presence of material.
O	Sampled, but analysis lost or not performed.
Q	Sample exceeded the accepted holding time.
T	Value reported is less than the laboratory method detection limit. The value is reported for informational purposes only and shall not be used in statistical analysis.
U	Indicates that the compound was analyzed for but not detected.
V	Indicates that the analyte was detected in both the sample and the associated method blank.
Y	The laboratory analysis was from an improperly preserved sample. The data may not be accurate.
Z	Too many colonies were present (TNTC); the numeric value represents the filtration volume.
?	Data are rejected and should not be used. Some or all of the quality control data for the analyte were outside criteria, and the presence or absence of the analyte cannot be determined from the data.
*	Not reported due to interference.
J-06	The associated laboratory control sample exhibited low bias; the reported result should be considered to be a minimum estimate.
QM-11	Precision between duplicate matrix spikes of the same sample was outside acceptance limits.
QM-19	The spike recovery was outside acceptance limits for the MS and/or MSD.
QS-03	Surrogate recovery outside acceptance limits
QV-01	The associated continuing calibration verification standard exhibited high bias; since the result is ND, there is no impact.
R-01	The Reporting Limit for this analyte has been raised to account for matrix interference.

ENVIRONMENTAL CONSERVATION LABORATORIES CHAIN-OF-CUSTODY RECORD

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102-A Woodwinds Industrial Court
Cary, NC 27511
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Page of

Client Name Perma-Fix of Florida		Project Number	Requested Analyses								Requested Turnaround Times	
Address 1940 NW 67th Place		Project Name/Desc Drainage Ditch	RCRA Metals (Totals)	RCRA Metals (TCLP)	SVOA	VOA					Note : Rush requests subject to acceptance by the facility	
City/ST/Zip Gainesville, FL 32653		PO # / Billing Info										
Tel (352) 395-1356	Fax	Reporting Contact Kurt Fogleman										Standard
Sampler(s) Name, Affiliation (Print) Kurt Fogleman		Billing Contact Kurt Fogleman										Expedited
Sampler(s) Signature		Facility # (if required)										Due ___ / ___ / ___
Lab Workorder												

[illegible]

Sample Kit Prepared By	Date/Time	Signature of Deliverer	Date/Time	Received By	Date/Time
		KURT FOGLEMAN / 	1/18/17 12:53		1/18/17 1:05
Comments			Date/Time	Received By	Date/Time
			Date/Time	Received By	Date/Time
Cooler #'s & Temps on Receipt				Condition Upon Receipt	
SC-3 @ -0.9 °C				☒ Acceptable ☐ Unacceptable	

Matrix : GW-Groundwater SO-Soil SE-Sediment SW-Surface Water WW-Wastewater A-Air O-Other (detail in comments)

Preservation: F-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.