Biffle Property

13410 NE Fourth Plain Blvd

Vancouver, WA 98682

8/20/17

March 2017 Addendum to sampling plan and results

As per discussions with Eugene Radcliff, based on test results obtained for northern 2 lots for the Biffle property, specifically samples ww6, ww7 and ww8 and ww1, the north eastern corner of the lot had elevated levels of PAH's. The source of these PAH's is totally unknown, since this piece of the property has never been developed and has been raw dirt since the past 100 plus years. The only possibility we can come up with for the PAH's is if someone used contaminated dirt as a depository during road construction for the apartment complex across the street. This is ONLY a guess.

The 2 parcels in question have been sold and are currently under contract, which is about to come upon a closure date. We have been seeking a "No Further Action" for the 2 northern (sold) parcels. Waste Watch has assisted Mrs Biffle with sampling at various spots on parcels 1 and 2 based on mutually agreed upon locations between Mrs. Biffle, Waste Watch and DOE.

According to Mr. Radcliff, based on test results that were submitted, the parcels warranted a "No Further Action" letter with the exception of the Northeastern corner, where we discovered PAH's slightly above MTCA clean up standards. This was a surprise to all of us, since nothing has ever been done with this section of the property. Waste Watch, Mrs Biffle and Mr. Radcliff discussed options as to how to handle this northeastern corner.

Option 1 was to cover the area with additional rock to insure that wind and dust would not spread the PAH's involved. This would require monitoring over the years and would not give s a "No Further Action" letter

Option 2 was to remove the soil / rock from this area and send to a permitted landfill, test the soil in the excavated area to insure removal of the PAH's to meet MTCA standards, then put clean backfill in the excavated area. By doing this, Mrs Biffle could get a "No Further Action" letter from the state.

Mrs. Biffle and Waste Watch elected option 2. In March of 2017, Waste Watch hired a contractor to remove approximately 100 yards of soil in the northeastern corner of the northern lot. We obtained 5 samples of soil from the excavated area and tested for PAH levels. Based on test results, we removed the PAH's from the area and should now be accepted as meeting MTCA standards

We have included test results for the March 2017 excavated area and we are now requesting a "No Further Action" from Department of Ecology.

Tim Ferrick, Waste Watch Inc

Apex Labs

12232 S.W. Garden Place
Tigard, OR 97223
503-718-2323 Phone
503-718-0333 Fax

Wednesday, March 22, 2017

Tim Ferrick
Waste Watch,Inc.
P.O. Box 430
Troutdate, OR 97606

RE: Biffle Property / [none]

Enclosed are the results of analyses for work order A7C0490, which was received by the laboratory on 3/15/2017 at 11:45:00AM.

Thank you for using Apex Labs. We appreciate your business and strive to provide the highest quality services to the environmental industry.

If you have any questions concerning this report or the services we offer, please feel free to contact me by email at: DAuvil@apex-labs.com, or by phone at 503-718-2323.

Apex Labs

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503-718-2323 Phone
503-718-0333 Fax

Waste Watch,Inc.	Project: **Biffle Property**	
P.O. Box 430	Project Number: [none]	**Reported:**
Troutdate, OR 97606	Project Manager: Tim Ferrick	03/22/17 15:13

ANALYTICAL REPORT FOR SAMPLES

SAMPLE INFORMATION

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
NE	A7C0490-01	Soil	03/14/17 14:00	03/15/17 11:45
SE	A7C0490-02	Soil	03/14/17 13:40	03/15/17 11:45
NW	A7C0490-03	Soil	03/14/17 13:40	03/15/17 11:45
SW	A7C0490-04	Soil	03/14/17 13:30	03/15/17 11:45
L	A7C0490-05	Soil	03/14/17 13:45	03/15/17 11:45

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Darrell Auvil, Project Manager

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Tigard, OR 97223
503-718-2323 Phone
503-718-0333 Fax

Waste Watch,Inc.	Project: **Biffle Property**	
P.O. Box 430	Project Number: [none]	**Reported:**
Troutdate, OR 97606	Project Manager: Tim Ferrick	03/22/17 15:13

ANALYTICAL SAMPLE RESULTS

Polyaromatic Hydrocarbons (PAHs) by EPA 8270D SIM

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Date Analyzed	Method	Notes
NE (A7C0490-01)			**Matrix: Soil**		**Batch: 7030727**			
Acenaphthene	ND	---	11.9	ug/kg dry	1	03/17/17 18:03	EPA 8270D (SIM)	
Acenaphthylene	ND	---	11.9	"	"	"	"	
Anthracene	ND	---	11.9	"	"	"	"	
Benz(a)anthracene	ND	---	11.9	"	"	"	"	
Benzo(a)pyrene	ND	---	11.9	"	"	"	"	
Benzo(b)fluoranthene	ND	---	11.9	"	"	"	"	
Benzo(k)fluoranthene	ND	---	11.9	"	"	"	"	
Benzo(g,h,i)perylene	ND	---	11.9	"	"	"	"	
Chrysene	ND	---	11.9	"	"	"	"	
Dibenz(a,h)anthracene	ND	---	11.9	"	"	"	"	
Fluoranthene	ND	---	11.9	"	"	"	"	
Fluorene	ND	---	11.9	"	"	"	"	
Indeno(1,2,3-cd)pyrene	ND	---	11.9	"	"	"	"	
1-Methylnaphthalene	ND	---	11.9	"	"	"	"	
2-Methylnaphthalene	ND	---	11.9	"	"	"	"	
Naphthalene	ND	---	11.9	"	"	"	"	
Phenanthrene	ND	---	11.9	"	"	"	"	
Pyrene	ND	---	11.9	"	"	"	"	
Surrogate: 2-Fluorobiphenyl (Surr)			*Recovery: 70 %*	*Limits: 44-120 %*	"	"	"	
p-Terphenyl-d14 (Surr)			*88 %*	*Limits: 54-127 %*	"	"	"	

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Waste Watch,Inc.	Project: **Biffle Property**	
P.O. Box 430	Project Number: [none]	**Reported:**
Troutdate, OR 97606	Project Manager: Tim Ferrick	03/22/17 15:13

ANALYTICAL SAMPLE RESULTS

Polyaromatic Hydrocarbons (PAHs) by EPA 8270D SIM

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Date Analyzed	Method	Notes
SE (A7C0490-02)			**Matrix: Soil**		**Batch: 7030727**			
Acenaphthene	ND	---	11.5	ug/kg dry	1	03/17/17 18:29	EPA 8270D (SIM)	
Acenaphthylene	ND	---	11.5	"	"	"	"	
Anthracene	ND	---	11.5	"	"	"	"	
Benz(a)anthracene	ND	---	11.5	"	"	"	"	
Benzo(a)pyrene	ND	---	11.5	"	"	"	"	
Benzo(b)fluoranthene	ND	---	11.5	"	"	"	"	
Benzo(k)fluoranthene	ND	---	11.5	"	"	"	"	
Benzo(g,h,i)perylene	ND	---	11.5	"	"	"	"	
Chrysene	ND	---	11.5	"	"	"	"	
Dibenz(a,h)anthracene	ND	---	11.5	"	"	"	"	
Fluoranthene	ND	---	11.5	"	"	"	"	
Fluorene	ND	---	11.5	"	"	"	"	
Indeno(1,2,3-cd)pyrene	ND	---	11.5	"	"	"	"	
1-Methylnaphthalene	ND	---	11.5	"	"	"	"	
2-Methylnaphthalene	ND	---	11.5	"	"	"	"	
Naphthalene	ND	---	11.5	"	"	"	"	
Phenanthrene	ND	---	11.5	"	"	"	"	
Pyrene	ND	---	11.5	"	"	"	"	
Surrogate: 2-Fluorobiphenyl (Surr)			*Recovery: 73 %*	*Limits: 44-120 %*	"	"	"	
p-Terphenyl-d14 (Surr)			*86 %*	*Limits: 54-127 %*	"	"	"	

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Waste Watch,Inc.	Project: **Biffle Property**	
P.O. Box 430	Project Number: [none]	**Reported:**
Troutdate, OR 97606	Project Manager: Tim Ferrick	03/22/17 15:13

ANALYTICAL SAMPLE RESULTS

Polyaromatic Hydrocarbons (PAHs) by EPA 8270D SIM

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Date Analyzed	Method	Notes
NW (A7C0490-03)			**Matrix: Soil**		**Batch: 7030727**			
Acenaphthene	ND	---	11.7	ug/kg dry	1	03/17/17 18:55	EPA 8270D (SIM)	
Acenaphthylene	ND	---	11.7	"	"	"	"	
Anthracene	ND	---	11.7	"	"	"	"	
Benz(a)anthracene	ND	---	11.7	"	"	"	"	
Benzo(a)pyrene	ND	---	11.7	"	"	"	"	
Benzo(b)fluoranthene	ND	---	11.7	"	"	"	"	
Benzo(k)fluoranthene	ND	---	11.7	"	"	"	"	
Benzo(g,h,i)perylene	ND	---	11.7	"	"	"	"	
Chrysene	ND	---	11.7	"	"	"	"	
Dibenz(a,h)anthracene	ND	---	11.7	"	"	"	"	
Fluoranthene	ND	---	11.7	"	"	"	"	
Fluorene	ND	---	11.7	"	"	"	"	
Indeno(1,2,3-cd)pyrene	ND	---	11.7	"	"	"	"	
1-Methylnaphthalene	ND	---	11.7	"	"	"	"	
2-Methylnaphthalene	ND	---	11.7	"	"	"	"	
Naphthalene	ND	---	11.7	"	"	"	"	
Phenanthrene	ND	---	11.7	"	"	"	"	
Pyrene	ND	---	11.7	"	"	"	"	
Surrogate: 2-Fluorobiphenyl (Surr)			*Recovery: 56 %*	*Limits: 44-120 %*	"	"	"	
p-Terphenyl-d14 (Surr)			*84 %*	*Limits: 54-127 %*	"	"	"	

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Waste Watch,Inc.	Project: **Biffle Property**	
P.O. Box 430	Project Number: [none]	**Reported:**
Troutdate, OR 97606	Project Manager: Tim Ferrick	03/22/17 15:13

ANALYTICAL SAMPLE RESULTS

Polyaromatic Hydrocarbons (PAHs) by EPA 8270D SIM

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Date Analyzed	Method	Notes
SW (A7C0490-04)			**Matrix: Soil**		**Batch: 7030727**			
Acenaphthene	ND	---	114	ug/kg dry	10	03/17/17 19:21	EPA 8270D (SIM)	
Acenaphthylene	ND	---	114	"	"	"	"	
Anthracene	ND	---	114	"	"	"	"	
Benz(a)anthracene	**138**	---	114	"	"	"	"	M-02
Benzo(a)pyrene	**167**	---	114	"	"	"	"	
Benzo(b)fluoranthene	**192**	---	114	"	"	"	"	M-02
Benzo(k)fluoranthene	ND	---	114	"	"	"	"	
Benzo(g,h,i)perylene	ND	---	114	"	"	"	"	
Chrysene	**168**	---	114	"	"	"	"	M-02
Dibenz(a,h)anthracene	ND	---	114	"	"	"	"	
Fluoranthene	**187**	---	114	"	"	"	"	
Fluorene	ND	---	114	"	"	"	"	
Indeno(1,2,3-cd)pyrene	**128**	---	114	"	"	"	"	
1-Methylnaphthalene	ND	---	114	"	"	"	"	
2-Methylnaphthalene	ND	---	114	"	"	"	"	
Naphthalene	ND	---	114	"	"	"	"	
Phenanthrene	ND	---	114	"	"	"	"	
Pyrene	**231**	---	114	"	"	"	"	
Surrogate: 2-Fluorobiphenyl (Surr)			*Recovery: 82 %*	*Limits: 44-120 %*	"	"	"	
p-Terphenyl-d14 (Surr)			*98 %*	*Limits: 54-127 %*	"	"	"	

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Waste Watch,Inc.	Project: **Biffle Property**	
P.O. Box 430	Project Number: [none]	**Reported:**
Troutdate, OR 97606	Project Manager: Tim Ferrick	03/22/17 15:13

ANALYTICAL SAMPLE RESULTS

Polyaromatic Hydrocarbons (PAHs) by EPA 8270D SIM

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Date Analyzed	Method	Notes
L (A7C0490-05)			**Matrix: Soil**		**Batch: 7030727**			
Acenaphthene	ND	---	13.3	ug/kg dry	1	03/17/17 19:48	EPA 8270D (SIM)	
Acenaphthylene	ND	---	13.3	"	"	"	"	
Anthracene	ND	---	13.3	"	"	"	"	
Benz(a)anthracene	ND	---	13.3	"	"	"	"	
Benzo(a)pyrene	ND	---	13.3	"	"	"	"	
Benzo(b)fluoranthene	ND	---	13.3	"	"	"	"	
Benzo(k)fluoranthene	ND	---	13.3	"	"	"	"	
Benzo(g,h,i)perylene	ND	---	13.3	"	"	"	"	
Chrysene	ND	---	13.3	"	"	"	"	
Dibenz(a,h)anthracene	ND	---	13.3	"	"	"	"	
Fluoranthene	ND	---	13.3	"	"	"	"	
Fluorene	ND	---	13.3	"	"	"	"	
Indeno(1,2,3-cd)pyrene	ND	---	13.3	"	"	"	"	
1-Methylnaphthalene	ND	---	13.3	"	"	"	"	
2-Methylnaphthalene	ND	---	13.3	"	"	"	"	
Naphthalene	ND	---	13.3	"	"	"	"	
Phenanthrene	ND	---	13.3	"	"	"	"	
Pyrene	ND	---	13.3	"	"	"	"	
Surrogate: 2-Fluorobiphenyl (Surr)			*Recovery: 65 %*	*Limits: 44-120 %*	"	"	"	
p-Terphenyl-d14 (Surr)			*86 %*	*Limits: 54-127 %*	"	"	"	

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Waste Watch,Inc.	Project: **Biffle Property**	
P.O. Box 430	Project Number: [none]	**Reported:**
Troutdate, OR 97606	Project Manager: Tim Ferrick	03/22/17 15:13

ANALYTICAL SAMPLE RESULTS

Percent Dry Weight

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Date Analyzed	Method	Notes
NE (A7C0490-01)			**Matrix: Soil**		**Batch: 7030687**			
% Solids	**79.5**	---	1.00	% by Weight	1	03/17/17 06:59	EPA 8000C	
SE (A7C0490-02)			**Matrix: Soil**		**Batch: 7030687**			
% Solids	**80.7**	---	1.00	% by Weight	1	03/17/17 06:59	EPA 8000C	
NW (A7C0490-03)			**Matrix: Soil**		**Batch: 7030687**			
% Solids	**76.7**	---	1.00	% by Weight	1	03/17/17 06:59	EPA 8000C	
SW (A7C0490-04)			**Matrix: Soil**		**Batch: 7030687**			
% Solids	**74.3**	---	1.00	% by Weight	1	03/17/17 06:59	EPA 8000C	
L (A7C0490-05)			**Matrix: Soil**		**Batch: 7030687**			
% Solids	**72.2**	---	1.00	% by Weight	1	03/17/17 06:59	EPA 8000C	

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Waste Watch,Inc.	Project: **Biffle Property**	
P.O. Box 430	Project Number: [none]	**Reported:**
Troutdate, OR 97606	Project Manager: Tim Ferrick	03/22/17 15:13

QUALITY CONTROL (QC) SAMPLE RESULTS

Polyaromatic Hydrocarbons (PAHs) by EPA 8270D SIM

Analyte	Result	MDL	Reporting Limit	Units	Dil.	Spike Amount	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 7030727 - EPA 3546							Soil					
Blank (7030727-BLK1)					Prepared: 03/17/17 07:30 Analyzed: 03/17/17 13:12							
EPA 8270D (SIM)												
Acenaphthene	ND	---	2.50	ug/kg wet	1	---	---	---	---	---	---	
Acenaphthylene	ND	---	2.50	"	"	---	---	---	---	---	---	
Anthracene	ND	---	2.50	"	"	---	---	---	---	---	---	
Benz(a)anthracene	ND	---	2.50	"	"	---	---	---	---	---	---	
Benzo(a)pyrene	ND	---	2.50	"	"	---	---	---	---	---	---	
Benzo(b)fluoranthene	ND	---	2.50	"	"	---	---	---	---	---	---	
Benzo(k)fluoranthene	ND	---	2.50	"	"	---	---	---	---	---	---	
Benzo(g,h,i)perylene	ND	---	2.50	"	"	---	---	---	---	---	---	
Chrysene	ND	---	2.50	"	"	---	---	---	---	---	---	
Dibenz(a,h)anthracene	ND	---	2.50	"	"	---	---	---	---	---	---	
Dibenzofuran	ND	---	2.50	"	"	---	---	---	---	---	---	
Fluoranthene	ND	---	2.50	"	"	---	---	---	---	---	---	
Fluorene	ND	---	2.50	"	"	---	---	---	---	---	---	
Indeno(1,2,3-cd)pyrene	ND	---	2.50	"	"	---	---	---	---	---	---	
1-Methylnaphthalene	ND	---	2.50	"	"	---	---	---	---	---	---	
2-Methylnaphthalene	ND	---	2.50	"	"	---	---	---	---	---	---	
Naphthalene	ND	---	2.50	"	"	---	---	---	---	---	---	
Phenanthrene	ND	---	2.50	"	"	---	---	---	---	---	---	
Pyrene	ND	---	2.50	"	"	---	---	---	---	---	---	
Surr: 2-Fluorobiphenyl (Surr)			*Recovery: 64 %*	*Limits: 44-120 %*			*Dilution: 1x*					
p-Terphenyl-d14 (Surr)			*109 %*	*54-127 %*			*"*					
LCS (7030727-BS1)					Prepared: 03/17/17 07:30 Analyzed: 03/17/17 13:39							
EPA 8270D (SIM)												
Acenaphthene	632	---	4.00	ug/kg wet	1	800	---	79	40-122%	---	---	
Acenaphthylene	628	---	4.00	"	"	"	---	78	32-132%	---	---	
Anthracene	706	---	4.00	"	"	"	---	88	47-123%	---	---	
Benz(a)anthracene	702	---	4.00	"	"	"	---	88	49-126%	---	---	
Benzo(a)pyrene	713	---	4.00	"	"	"	---	89	45-129%	---	---	
Benzo(b)fluoranthene	690	---	4.00	"	"	"	---	86	45-132%	---	---	
Benzo(k)fluoranthene	742	---	4.00	"	"	"	---	93	47-132%	---	---	
Benzo(g,h,i)perylene	718	---	4.00	"	"	"	---	90	43-134%	---	---	
Chrysene	692	---	4.00	"	"	"	---	87	50-124%	---	---	
Dibenz(a,h)anthracene	743	---	4.00	"	"	"	---	93	45-134%	---	---	
Dibenzofuran	626	---	4.00	"	"	"	---	78	44-120%	---	---	

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Waste Watch,Inc.	Project: **Biffle Property**	
P.O. Box 430	Project Number: [none]	**Reported:**
Troutdate, OR 97606	Project Manager: Tim Ferrick	03/22/17 15:13

QUALITY CONTROL (QC) SAMPLE RESULTS

Polyaromatic Hydrocarbons (PAHs) by EPA 8270D SIM

Analyte	Result	MDL	Reporting Limit	Units	Dil.	Spike Amount	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 7030727 - EPA 3546								**Soil**				
LCS (7030727-BS1)					Prepared: 03/17/17 07:30 Analyzed: 03/17/17 13:39							
EPA 8270D (SIM)												
Fluoranthene	690	---	4.00	ug/kg wet	"	"	---	86	50-127%	---	---	
Fluorene	653	---	4.00	"	"	"	---	82	43-125%	---	---	
Indeno(1,2,3-cd)pyrene	698	---	4.00	"	"	"	---	87	45-133%	---	---	
1-Methylnaphthalene	563	---	4.00	"	"	"	---	70	40-120%	---	---	
2-Methylnaphthalene	566	---	4.00	"	"	"	---	71	38-122%	---	---	
Naphthalene	539	---	4.00	"	"	"	---	67	35-123%	---	---	
Phenanthrene	652	---	4.00	"	"	"	---	81	50-121%	---	---	
Pyrene	688	---	4.00	"	"	"	---	86	47-127%	---	---	
Surr: 2-Fluorobiphenyl (Surr)			*Recovery: 68 %*		*Limits: 44-120 %*				*Dilution: 1x*			
p-Terphenyl-d14 (Surr)			*98 %*		*54-127 %*				*"*			

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P.O. Box 430	Project Number: [none]	**Reported:**
Troutdate, OR 97606	Project Manager: Tim Ferrick	03/22/17 15:13

QUALITY CONTROL (QC) SAMPLE RESULTS

Percent Dry Weight

Analyte	Result	MDL	Reporting Limit	Units	Dil.	Spike Amount	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 7030687 - Total Solids (Dry Weight)												**Soil**

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Waste Watch,Inc.	Project: **Biffle Property**	
P.O. Box 430	Project Number: [none]	**Reported:**
Troutdate, OR 97606	Project Manager: Tim Ferrick	03/22/17 15:13

SAMPLE PREPARATION INFORMATION

Polyaromatic Hydrocarbons (PAHs) by EPA 8270D SIM

Prep: EPA 3546

Lab Number	Matrix	Method	Sampled	Prepared	Sample Initial/Final	Default Initial/Final	RL Prep Factor
Batch: 7030727							
A7C0490-01	Soil	EPA 8270D (SIM)	03/14/17 14:00	03/17/17 07:30	10.56g/5mL	10g/5mL	0.95
A7C0490-02	Soil	EPA 8270D (SIM)	03/14/17 13:40	03/17/17 07:30	10.73g/5mL	10g/5mL	0.93
A7C0490-03	Soil	EPA 8270D (SIM)	03/14/17 13:40	03/17/17 07:30	11.12g/5mL	10g/5mL	0.90
A7C0490-04	Soil	EPA 8270D (SIM)	03/14/17 13:30	03/17/17 07:30	11.78g/5mL	10g/5mL	0.85
A7C0490-05	Soil	EPA 8270D (SIM)	03/14/17 13:45	03/17/17 07:30	10.41g/5mL	10g/5mL	0.96

Percent Dry Weight

Prep: Total Solids (Dry Weight)

Lab Number	Matrix	Method	Sampled	Prepared	Sample Initial/Final	Default Initial/Final	RL Prep Factor
Batch: 7030687							
A7C0490-01	Soil	EPA 8000C	03/14/17 14:00	03/16/17 15:58	1N/A/1N/A	1N/A/1N/A	NA
A7C0490-02	Soil	EPA 8000C	03/14/17 13:40	03/16/17 15:58	1N/A/1N/A	1N/A/1N/A	NA
A7C0490-03	Soil	EPA 8000C	03/14/17 13:40	03/16/17 15:58	1N/A/1N/A	1N/A/1N/A	NA
A7C0490-04	Soil	EPA 8000C	03/14/17 13:30	03/16/17 15:58	1N/A/1N/A	1N/A/1N/A	NA
A7C0490-05	Soil	EPA 8000C	03/14/17 13:45	03/16/17 15:58	1N/A/1N/A	1N/A/1N/A	NA

Apex Laboratories

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Darrell Auvil, Project Manager

Apex Labs

12232 S.W. Garden Place
Tigard, OR 97223
503-718-2323 Phone
503-718-0333 Fax

Waste Watch,Inc.	Project: **Biffle Property**	
P.O. Box 430	Project Number: [none]	**Reported:**
Troutdate, OR 97606	Project Manager: Tim Ferrick	03/22/17 15:13

Notes and Definitions

Qualifiers:

M-02	Due to matrix interference, this analyte cannot be accurately quantified. The reported result is estimated.

Notes and Conventions:

DET	Analyte DETECTED
ND	Analyte NOT DETECTED at or above the reporting limit
NR	Not Reported
dry	Sample results reported on a dry weight basis. Results listed as 'wet' or without 'dry'designation are not dry weight corrected.
RPD	Relative Percent Difference
MDL	If MDL is not listed, data has been evaluated to the Method Reporting Limit only.
WMSC	Water Miscible Solvent Correction has been applied to Results and MRLs for volatiles soil samples per EPA 8000C.
Batch QC	Unless specifically requested, this report contains only results for Batch QC derived from client samples included in this report. All analyses were performed with the appropriate Batch QC (including Sample Duplicates, Matrix Spikes and/or Matrix Spike Duplicates) in order to meet or exceed method and regulatory requirements. Any exceptions to this will be qualified in this report. Complete Batch QC results are available upon request. In cases where there is insufficient sample provided for Sample Duplicates and/or Matrix Spikes, a Lab Control Sample Duplicate (LCS Dup) is analyzed to demonstrate accuracy and precision of the extraction and analysis.
Blank Policy	Apex assesses blank data for potential high bias down to a level equal to ½ the method reporting limit (MRL), except for conventional chemistry and HCID analyses which are assessed only to the MRL. Sample results flagged with a B or B-02 qualifier are potentially biased high if they are less than ten times the level found in the blank for inorganic analyses or less than five times the level found in the blank for organic analyses. For accurate comparison of volatile results to the level found in the blank; water sample results should be divided by the dilution factor, and soil sample results should be divided by 1/50 of the sample dilution to account for the sample prep factor. Results qualified as reported below the MRL may include a potential high bias if associated with a B or B-02 qualified blank. B and B-02 qualifications are not applied to J qualified results reported below the MRL.
---	QC results are not applicable. For example, % Recoveries for Blanks and Duplicates, % RPD for Blanks, Blank Spikes and Matrix Spikes, etc.
***	Used to indicate a possible discrepancy with the Sample and Sample Duplicate results when the %RPD is not available. In this case, either the Sample or the Sample Duplicate has a reportable result for this analyte, while the other is Non Detect (ND).

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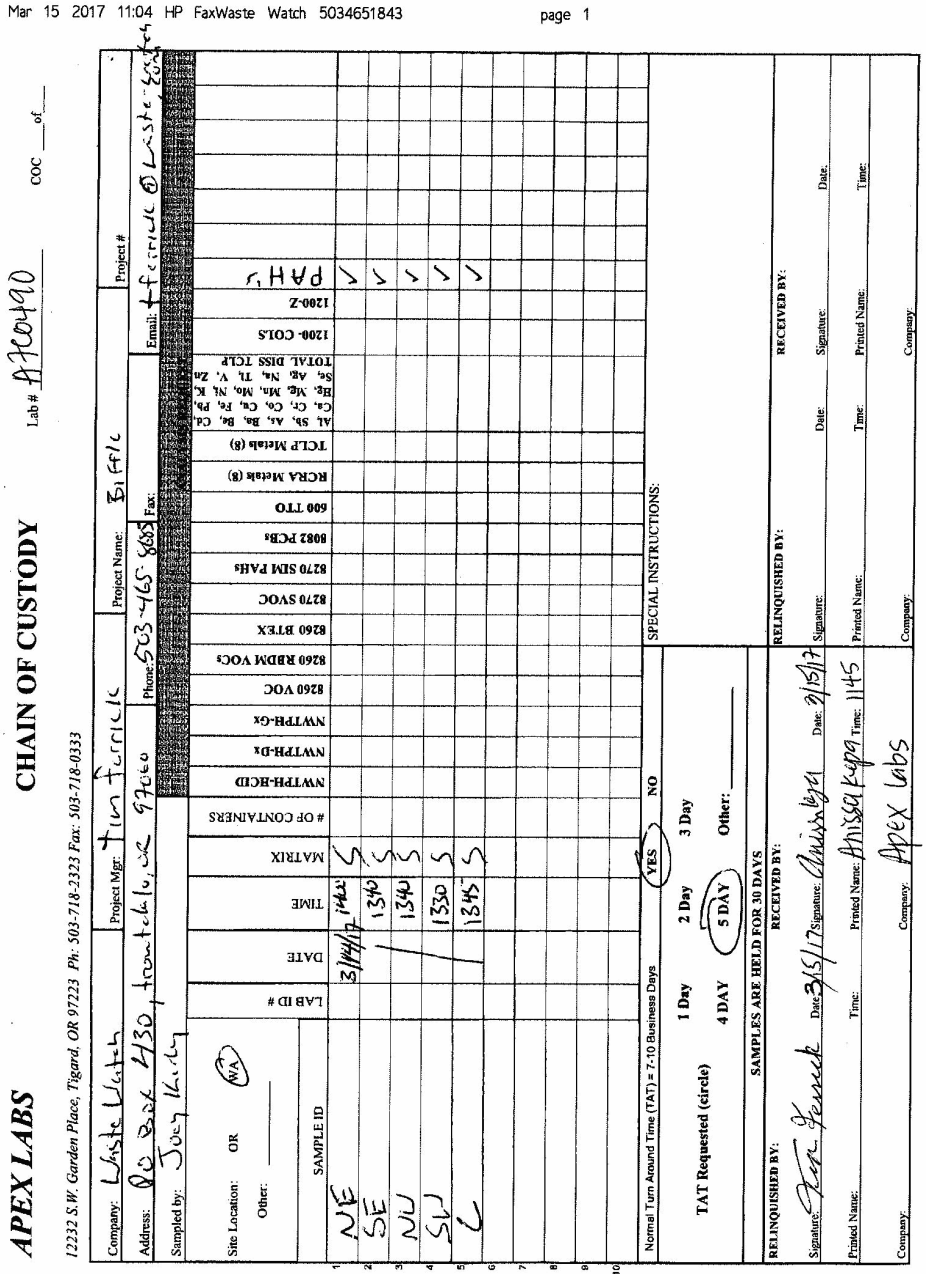
Waste Watch,Inc.	Project: **Biffle Property**	
P.O. Box 430	Project Number: [none]	**Reported:**
Troutdale, OR 97606	Project Manager: Tim Ferrick	03/22/17 15:13



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APEX LABS — **CHAIN OF CUSTODY** — Lab # AJ60490 — COC ___ of ___

12232 S.W. Garden Place, Tigard, OR 97223 Ph: 503-718-2323 Fax: 503-718-0333

Company: Waste Watch — Project Mgr: Tim Ferrick — Project Name: Biffle — Project #

Address: PO Box 1430, Troutdale, OR 97060 — Phone: 503-465-9889 — Fax: — Email: tferrick@wastewatch.com

Sampled by: Joey Hurley

Site Location: OR (WA) — Other: ____

#	SAMPLE ID	LAB ID #	DATE	TIME	MATRIX	# OF CONTAINERS	NWTPH-HCID	NWTPH-Dx	NWTPH-Gx	8260 VOC	8260 RBDM VOCs	8260 BTEX	8270 SVOC	8270 SIM PAHs	8082 PCBs	608 TTO	RCRA Metals (8)	TCLP Metals (8)	Al, Sb, As, Ba, Be, Cd, Ca, Cr, Co, Cu, Fe, Pb, Hg, Mg, Mn, Mo, Ni, K, Se, Ag, Na, Tl, V, Zn TOTAL DISS TCLP	1200- COLS	1200-Z	PAH's
1	NE		3/14/17	1400	S																
2	SE			1340	S																✓
3	NW			1340	S																✓
4	SW			1330	S																✓
5	C			1345	S																✓
6																					
7																					
8																					
9																					
10																					

Normal Turn Around Time (TAT) = 7-10 Business Days — SPECIAL INSTRUCTIONS: — YES / NO

TAT Requested (circle): 1 Day — 2 Day — 3 Day — 4 DAY — 5 DAY — Other: ____

SAMPLES ARE HELD FOR 30 DAYS

RELINQUISHED BY: — RECEIVED BY:

Signature: — Date: 3/15/17 — Signature: — Date: 3/15/17

Printed Name: — Time: — Printed Name: — Time: 1145

Company: — Company: Apex Labs

RELINQUISHED BY: — RECEIVED BY:

Signature: — Date: — Signature: — Date:

Printed Name: — Time: — Printed Name: — Time:

Company: — Company:

Apex Laboratories

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Darrell Auvil, Project Manager

Apex Labs

12232 S.W. Garden Place
Tigard, OR 97223
503-718-2323 Phone
503-718-0333 Fax

Waste Watch,Inc.	Project: **Biffle Property**	
P.O. Box 430	Project Number: [none]	**Reported:**
Troutdate, OR 97606	Project Manager: Tim Ferrick	03/22/17 15:13

APEX LABS COOLER RECEIPT FORM

Client: Wastewatch Element WO#: A7 C0490

Project/Project #: Biffle

Delivery info:

Date/Time Received: 3/15/17 @ 1145 By: AKK

Delivered by: Apex___ Client X ESS___ FedEx___ UPS___ Swift___ Senvoy___ SDS___ Other_____

Cooler Inspection Inspected by: AKK : 3/15/17 @ 1148

Chain of Custody Included? Yes X No___ Custody Seals? Yes_____ No X

Signed/Dated by Client? Yes X No___

Signed/Dated by Apex? Yes X No___

	Cooler #1	Cooler #2	Cooler #3	Cooler #4	Cooler #5	Cooler #6	Cooler #7
Temperature (deg. C)	17.9						
Received on Ice? (Y/N)							
Temp. Blanks? (Y/N)							
Ice Type: (Gel/Real/Other)	none						
Condition:	n/g						

Cooler out of temp? (Y/N) Possible reason why: no ice

If some coolers are in temp and some out, were green dot applied to out of temperature samples? Yes/No/NA

Samples Inspection: Inspected by: AKK : 3/16/17 @ 1025

All Samples Intact? Yes X No___ Comments:_____

Bottle Labels/COCs agree? Yes___ No X Comments: IDs read NW#1, 2 SE, & NW4

Containers/Volumes Received Appropriate for Analysis? Yes X No___ Comments:

Do VOA Vials have Visible Headspace? Yes___ No___ NA X

Comments

Water Samples: pH Checked and Appropriate (except VOAs): Yes___No___NA Y

Comments:

Additional Information:

Labeled by: AKK Witness: WS Cooler Inspected by: AKK See Project Contact Form: Y