

# Summit Scientific

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741 Corporate Circle – Suite I ♦ Golden, Colorado 80401

303.277.9310 - laboratory ♦ 303.277.9531 - fax

April 29, 2010

Brian Dodek  
LT Environmental, Inc.  
4600 West 60th Avenue  
Arvada, CO 80003  
RE: PDC - Law 34, 44-12

Enclosed are the results of analyses for samples received by Summit Scientific on 04/28/10 16:30. If you have any questions concerning this report, please feel free to contact me.

Sincerely,

A handwritten signature in blue ink, appearing to be 'PS' followed by a long horizontal stroke.

Paul Shrewsbury For Ben Shrewsbury  
President / Laboratory Director



LT Environmental, Inc.  
4600 West 60th Avenue  
Arvada CO, 80003

Project: PDC - Law 34, 44-12

Project Number: PDC  
Project Manager: Brian Dodek

**Reported:**  
04/29/10 14:27

### ANALYTICAL REPORT FOR SAMPLES

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
SS01	R004151-01	Soil	04/28/10 10:00	04/28/10 16:30
SS02	R004151-02	Soil	04/28/10 10:05	04/28/10 16:30
SS03	R004151-03	Soil	04/28/10 10:10	04/28/10 16:30
SS04	R004151-04	Soil	04/28/10 10:15	04/28/10 16:30
SS05	R004151-05	Soil	04/28/10 10:20	04/28/10 16:30

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LT Environmental, Inc.  
4600 West 60th Avenue  
Arvada CO, 80003

Project: PDC - Law 34, 44-12

Project Number: PDC  
Project Manager: Brian Dodek

**Reported:**  
04/29/10 14:27

Summit Scientific 2004151

52

741 Corporate Circle Suite I ♦ Golden, Colorado 80401  
303-277-9310 ♦ 303-277-9531 Fax

Page / of

Client: LT Environmental, Inc.

Address: 4600 West 60th Avenue

City/State/Zip: Arvada, CO 80003

Phone: (303) 433-9788

Sampler Name: Daily

**Project Manager:**

E-Mail:

Project Name: C

Project Number:

Drak

odek (a)

342

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Sample Description	Date Sampled	Time Sampled	Number of Containers	Preservative						Matrix			Analyze For:							Special Instructions
				HCl	HNO <sub>3</sub>	None	Other (Specify)	Groundwater	Soil	Air - Canister Serial #	Other (Specify)	DRO	GRTX	BTEX	Table 9.10 Full	Table 9.10 Short	PH / EC	SAR		
SS01	4-28-10	1000	1		X					X										
SS02	I	1005	I		I					I										
SS03	I	1010	I		I					I										
SS04	I	1015	I		I					I										
SS05	I	1020	I		I					I										
Relinquished by:	Date/Time:				Received by:	Date/Time:	Turn Around Time (Check) Same Day <input checked="" type="checkbox"/> 72 Hours <input type="checkbox"/> 24 Hours <input type="checkbox"/> 48 Hours <input type="checkbox"/>			Notes: Need results morning of 4-29-10.										
Relinquished by:	Date/Time:				Received by:	Date/Time:	Sample Integrity: Temperature Upon Receipt: <u>45</u> Intact: <u>No</u>													
Relinquished by:	Date/Time:				Received by:	Date/Time:	Received in Lab by: <u>[Signature]</u> <u>4-28-10</u>													

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LT Environmental, Inc.  
4600 West 60th Avenue  
Arvada CO, 80003

Project: PDC - Law 34, 44-12

Project Number: PDC  
Project Manager: Brian Dodek

**Reported:**  
04/29/10 14:27

**SS01**  
**R004151-01 (Soil)**

**Summit Scientific**

**Total Petroleum Hydrocarbons by 8015**

Date Sampled: **04/28/10 10:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
C10-C28 (DRO)	ND	50	mg/kg	1	0042808	04/28/10	04/28/10	8015 DRO	

Date Sampled: **04/28/10 10:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: o-Terphenyl		103 %	88.8-124		"	"	"	"	

**Volatile Organic Compounds by EPA Method 8260B**

Date Sampled: **04/28/10 10:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Benzene	ND	0.0050	mg/kg	1	0042807	04/28/10	04/28/10	EPA 8260B	
Toluene	ND	0.0050	"	"	"	"	"	"	
Ethylbenzene	ND	0.0050	"	"	"	"	"	"	
Xylenes (total)	ND	0.0050	"	"	"	"	"	"	
Gasoline Range Hydrocarbons	ND	0.50	"	"	"	"	"	"	

Date Sampled: **04/28/10 10:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: 1,2-Dichloroethane-d4		90.8 %	74-135		"	"	"	"	
Surrogate: Toluene-d8		95.0 %	84.3-112		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		106 %	79.6-120		"	"	"	"	

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Project Manager: Brian Dodek

**Reported:**  
04/29/10 14:27

**SS02**  
**R004151-02 (Soil)**

**Summit Scientific**

**Total Petroleum Hydrocarbons by 8015**

Date Sampled: **04/28/10 10:05**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
C10-C28 (DRO)	ND	50	mg/kg	1	0042808	04/28/10	04/29/10	8015 DRO	

Date Sampled: **04/28/10 10:05**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: o-Terphenyl		110 %	88.8-124		"	"	"	"	

**Volatile Organic Compounds by EPA Method 8260B**

Date Sampled: **04/28/10 10:05**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Benzene	ND	0.0050	mg/kg	1	0042807	04/28/10	04/28/10	EPA 8260B	
Toluene	ND	0.0050	"	"	"	"	"	"	
Ethylbenzene	ND	0.0050	"	"	"	"	"	"	
Xylenes (total)	ND	0.0050	"	"	"	"	"	"	
Gasoline Range Hydrocarbons	ND	0.50	"	"	"	"	"	"	

Date Sampled: **04/28/10 10:05**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: 1,2-Dichloroethane-d4		101 %	74-135		"	"	"	"	
Surrogate: Toluene-d8		95.8 %	84.3-112		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		105 %	79.6-120		"	"	"	"	

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Project Number: PDC  
Project Manager: Brian Dodek

**Reported:**  
04/29/10 14:27

**SS03**  
**R004151-03 (Soil)**

**Summit Scientific**

**Total Petroleum Hydrocarbons by 8015**

Date Sampled: **04/28/10 10:10**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
C10-C28 (DRO)	ND	50	mg/kg	1	0042808	04/28/10	04/29/10	8015 DRO	

Date Sampled: **04/28/10 10:10**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: <i>o</i> -Terphenyl		103 %	88.8-124		"	"	"	"	

**Volatile Organic Compounds by EPA Method 8260B**

Date Sampled: **04/28/10 10:10**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Benzene	ND	0.0050	mg/kg	1	0042807	04/28/10	04/28/10	EPA 8260B	
Toluene	ND	0.0050	"	"	"	"	"	"	
Ethylbenzene	ND	0.0050	"	"	"	"	"	"	
Xylenes (total)	ND	0.0050	"	"	"	"	"	"	
Gasoline Range Hydrocarbons	ND	0.50	"	"	"	"	"	"	

Date Sampled: **04/28/10 10:10**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: 1,2-Dichloroethane-d4		101 %	74-135		"	"	"	"	
Surrogate: Toluene-d8		97.1 %	84.3-112		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		101 %	79.6-120		"	"	"	"	

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**Reported:**  
04/29/10 14:27

**SS04**  
**R004151-04 (Soil)**

**Summit Scientific**

**Total Petroleum Hydrocarbons by 8015**

Date Sampled: **04/28/10 10:15**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
C10-C28 (DRO)	ND	50	mg/kg	1	0042808	04/28/10	04/29/10	8015 DRO	

Date Sampled: **04/28/10 10:15**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: o-Terphenyl		102 %	88.8-124		"	"	"	"	

**Volatile Organic Compounds by EPA Method 8260B**

Date Sampled: **04/28/10 10:15**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Benzene	ND	0.0050	mg/kg	1	0042807	04/28/10	04/28/10	EPA 8260B	
Toluene	ND	0.0050	"	"	"	"	"	"	
Ethylbenzene	ND	0.0050	"	"	"	"	"	"	
Xylenes (total)	ND	0.0050	"	"	"	"	"	"	
Gasoline Range Hydrocarbons	ND	0.50	"	"	"	"	"	"	

Date Sampled: **04/28/10 10:15**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: 1,2-Dichloroethane-d4		106 %	74-135		"	"	"	"	
Surrogate: Toluene-d8		95.4 %	84.3-112		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		104 %	79.6-120		"	"	"	"	

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**Reported:**  
04/29/10 14:27

**SS05**  
**R004151-05 (Soil)**

**Summit Scientific**

**Total Petroleum Hydrocarbons by 8015**

Date Sampled: **04/28/10 10:20**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
C10-C28 (DRO)	ND	50	mg/kg	1	0042808	04/28/10	04/29/10	8015 DRO	

Date Sampled: **04/28/10 10:20**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: <i>o</i> -Terphenyl		103 %	88.8-124		"	"	"	"	

**Volatile Organic Compounds by EPA Method 8260B**

Date Sampled: **04/28/10 10:20**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Benzene	ND	0.0050	mg/kg	1	0042807	04/28/10	04/28/10	EPA 8260B	
Toluene	ND	0.0050	"	"	"	"	"	"	
Ethylbenzene	ND	0.0050	"	"	"	"	"	"	
Xylenes (total)	ND	0.0050	"	"	"	"	"	"	
Gasoline Range Hydrocarbons	ND	0.50	"	"	"	"	"	"	

Date Sampled: **04/28/10 10:20**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: 1,2-Dichloroethane-d4		112 %	74-135		"	"	"	"	
Surrogate: Toluene-d8		95.2 %	84.3-112		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		110 %	79.6-120		"	"	"	"	

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**Reported:**  
04/29/10 14:27

**Total Petroleum Hydrocarbons by 8015 - Quality Control**  
**Summit Scientific**

Analyte	Reporting			Spike	Source	%REC		RPD		
	Result	Limit	Units	Level	Result	%REC	Limits	RPD	Limit	Notes

**Batch 0042808 - EPA 3550A**

**Blank (0042808-BLK1)**

Prepared: 04/28/10 Analyzed: 04/29/10

C10-C28 (DRO) ND 50 mg/kg

*Surrogate: o-Terphenyl*

13.1 " 12.5 105 88.8-124

**LCS (0042808-BS1)**

Prepared: 04/28/10 Analyzed: 04/29/10

C10-C28 (DRO) 443 50 mg/kg 500 88.5 81.4-129 9.26

**LCS (0042808-BS2)**

Prepared: 04/28/10 Analyzed: 04/29/10

C10-C28 (DRO) 438 50 mg/kg 500 87.6 81.4-129 9.26

**LCS Dup (0042808-BSD1)**

Prepared: 04/28/10 Analyzed: 04/29/10

C10-C28 (DRO) 453 50 mg/kg 500 90.7 81.4-129 2.41 9.26

**LCS Dup (0042808-BSD2)**

Prepared: 04/28/10 Analyzed: 04/29/10

C10-C28 (DRO) 445 50 mg/kg 500 88.9 81.4-129 1.57 9.26

**Matrix Spike (0042808-MS1)**

**Source: R004151-01**

Prepared: 04/28/10 Analyzed: 04/29/10

C10-C28 (DRO) 462 50 mg/kg 500 ND 92.5 77.8-133 8.48

**Matrix Spike (0042808-MS2)**

**Source: R004151-01**

Prepared: 04/28/10 Analyzed: 04/29/10

C10-C28 (DRO) 468 50 mg/kg 500 ND 93.6 77.8-133 8.48

**Matrix Spike Dup (0042808-MSD1)**

**Source: R004151-01**

Prepared: 04/28/10 Analyzed: 04/29/10

C10-C28 (DRO) 481 50 mg/kg 500 ND 96.2 77.8-133 3.99 8.48

**Matrix Spike Dup (0042808-MSD2)**

**Source: R004151-01**

Prepared: 04/28/10 Analyzed: 04/29/10

C10-C28 (DRO) 485 50 mg/kg 500 ND 97.1 77.8-133 3.65 8.48

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**Reported:**  
04/29/10 14:27

**Volatile Organic Compounds by EPA Method 8260B - Quality Control**  
**Summit Scientific**

Analyte	Reporting			Spike	Source		%REC		RPD	
	Result	Limit	Units	Level	Result	%REC	Limits	RPD	Limit	Notes

**Batch 0042807 - EPA 5030 Soil MS**

**Blank (0042807-BLK1)**

Prepared: 04/28/10 Analyzed: 04/29/10

Benzene	ND	0.0050	mg/kg							
Toluene	ND	0.0050	"							
Ethylbenzene	ND	0.0050	"							
Xylenes (total)	ND	0.0050	"							
Gasoline Range Hydrocarbons	ND	0.50	"							
Surrogate: 1,2-Dichloroethane-d4	0.0403		"	0.0400		101	74-135			
Surrogate: Toluene-d8	0.0382		"	0.0400		95.6	84.3-112			
Surrogate: 4-Bromofluorobenzene	0.0415		"	0.0400		104	79.6-120			

**LCS (0042807-BS1)**

Prepared & Analyzed: 04/28/10

Benzene	0.119	0.0050	mg/kg	0.100		119	70.2-125		11.1	
Toluene	0.121	0.0050	"	0.100		121	74-123		10.9	
Ethylbenzene	0.116	0.0050	"	0.100		116	70-130		20	
m,p-Xylene	0.215	0.010	"	0.200		107	70-130		20	
o-Xylene	0.116	0.0050	"	0.100		116	70-130		20	
Surrogate: 1,2-Dichloroethane-d4	0.0431		"	0.0400		108	74-135			
Surrogate: Toluene-d8	0.0398		"	0.0400		99.5	84.3-112			
Surrogate: 4-Bromofluorobenzene	0.0395		"	0.0400		98.7	79.6-120			

**LCS (0042807-BS2)**

Prepared & Analyzed: 04/28/10

Benzene	0.118	0.0050	mg/kg	0.100		118	70.2-125		11.1	
Toluene	0.119	0.0050	"	0.100		119	74-123		10.9	
Ethylbenzene	0.116	0.0050	"	0.100		116	70-130		20	
m,p-Xylene	0.230	0.010	"	0.200		115	70-130		20	
o-Xylene	0.110	0.0050	"	0.100		110	70-130		20	
Surrogate: 1,2-Dichloroethane-d4	0.0414		"	0.0400		103	74-135			
Surrogate: Toluene-d8	0.0392		"	0.0400		98.0	84.3-112			
Surrogate: 4-Bromofluorobenzene	0.0388		"	0.0400		97.0	79.6-120			

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Project Manager: Brian Dodek

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04/29/10 14:27

**Volatile Organic Compounds by EPA Method 8260B - Quality Control**  
**Summit Scientific**

Analyte	Reporting			Spike	Source		%REC		RPD	
	Result	Limit	Units	Level	Result	%REC	Limits	RPD	Limit	Notes

**Batch 0042807 - EPA 5030 Soil MS**

**LCS Dup (0042807-BSD1)**

Prepared & Analyzed: 04/28/10

Benzene	0.113	0.0050	mg/kg	0.100	113	70.2-125	5.27	11.1	
Toluene	0.114	0.0050	"	0.100	114	74-123	5.76	10.9	
Ethylbenzene	0.109	0.0050	"	0.100	109	70-130	6.11	20	
m,p-Xylene	0.218	0.010	"	0.200	109	70-130	1.68	20	
o-Xylene	0.102	0.0050	"	0.100	102	70-130	13.6	20	
Surrogate: 1,2-Dichloroethane-d4	0.0418		"	0.0400	105	74-135			
Surrogate: Toluene-d8	0.0398		"	0.0400	99.5	84.3-112			
Surrogate: 4-Bromofluorobenzene	0.0396		"	0.0400	98.9	79.6-120			

**LCS Dup (0042807-BSD2)**

Prepared: 04/28/10 Analyzed: 04/29/10

Benzene	0.116	0.0050	mg/kg	0.100	116	70.2-125	2.11	11.1	
Toluene	0.114	0.0050	"	0.100	114	74-123	4.27	10.9	
Ethylbenzene	0.114	0.0050	"	0.100	114	70-130	2.22	20	
m,p-Xylene	0.225	0.010	"	0.200	113	70-130	1.87	20	
o-Xylene	0.109	0.0050	"	0.100	109	70-130	1.48	20	
Surrogate: 1,2-Dichloroethane-d4	0.0419		"	0.0400	105	74-135			
Surrogate: Toluene-d8	0.0398		"	0.0400	99.5	84.3-112			
Surrogate: 4-Bromofluorobenzene	0.0379		"	0.0400	94.7	79.6-120			

**Matrix Spike (0042807-MS1)**

Source: R004151-01

Prepared: 04/28/10 Analyzed: 04/29/10

Benzene	0.121	0.0050	mg/kg	0.100	ND	121	67.1-125	17.9	
Toluene	0.117	0.0050	"	0.100	ND	117	68.6-124	11.9	
Ethylbenzene	0.117	0.0050	"	0.100	ND	117	70-130	20	
m,p-Xylene	0.230	0.010	"	0.200	ND	115	70-130	20	
o-Xylene	0.113	0.0050	"	0.100	ND	113	70-130	20	
Surrogate: 1,2-Dichloroethane-d4	0.0482		"	0.0400	120	74-135			
Surrogate: Toluene-d8	0.0399		"	0.0400	99.8	84.3-112			
Surrogate: 4-Bromofluorobenzene	0.0387		"	0.0400	96.8	79.6-120			

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Project Manager: Brian Dodek

**Reported:**  
04/29/10 14:27

**Volatile Organic Compounds by EPA Method 8260B - Quality Control**  
**Summit Scientific**

Analyte	Reporting			Spike	Source		%REC		RPD	
	Result	Limit	Units	Level	Result	%REC	Limits	RPD	Limit	Notes

**Batch 0042807 - EPA 5030 Soil MS**

**Matrix Spike (0042807-MS2)**

Source: R004151-01

Prepared: 04/28/10 Analyzed: 04/29/10

Benzene	0.107	0.0050	mg/kg	0.100	ND	107	67.1-125		17.9	
Toluene	0.107	0.0050	"	0.100	ND	107	68.6-124		11.9	
Ethylbenzene	0.103	0.0050	"	0.100	ND	103	70-130		20	
m,p-Xylene	0.202	0.010	"	0.200	ND	101	70-130		20	
o-Xylene	0.0979	0.0050	"	0.100	ND	97.9	70-130		20	
Surrogate: 1,2-Dichloroethane-d4	0.0434		"	0.0400		108	74-135			
Surrogate: Toluene-d8	0.0395		"	0.0400		98.8	84.3-112			
Surrogate: 4-Bromofluorobenzene	0.0397		"	0.0400		99.2	79.6-120			

**Matrix Spike Dup (0042807-MSD1)**

Source: R004151-01

Prepared: 04/28/10 Analyzed: 04/29/10

Benzene	0.119	0.0050	mg/kg	0.100	ND	119	67.1-125	1.48	17.9	
Toluene	0.114	0.0050	"	0.100	ND	114	68.6-124	1.84	11.9	
Ethylbenzene	0.113	0.0050	"	0.100	ND	113	70-130	3.26	20	
m,p-Xylene	0.223	0.010	"	0.200	ND	112	70-130	3.17	20	
o-Xylene	0.110	0.0050	"	0.100	ND	110	70-130	3.04	20	
Surrogate: 1,2-Dichloroethane-d4	0.0469		"	0.0400		117	74-135			
Surrogate: Toluene-d8	0.0399		"	0.0400		99.7	84.3-112			
Surrogate: 4-Bromofluorobenzene	0.0394		"	0.0400		98.6	79.6-120			

**Matrix Spike Dup (0042807-MSD2)**

Source: R004151-01

Prepared: 04/28/10 Analyzed: 04/29/10

Benzene	0.0992	0.0050	mg/kg	0.100	ND	99.2	67.1-125	7.51	17.9	
Toluene	0.0991	0.0050	"	0.100	ND	99.1	68.6-124	7.40	11.9	
Ethylbenzene	0.0949	0.0050	"	0.100	ND	94.9	70-130	7.69	20	
m,p-Xylene	0.188	0.010	"	0.200	ND	94.0	70-130	7.15	20	
o-Xylene	0.0925	0.0050	"	0.100	ND	92.5	70-130	5.64	20	
Surrogate: 1,2-Dichloroethane-d4	0.0445		"	0.0400		111	74-135			
Surrogate: Toluene-d8	0.0393		"	0.0400		98.3	84.3-112			
Surrogate: 4-Bromofluorobenzene	0.0401		"	0.0400		100	79.6-120			

Summit Scientific

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.



LT Environmental, Inc.  
4600 West 60th Avenue  
Arvada CO, 80003

Project: PDC - Law 34, 44-12

Project Number: PDC  
Project Manager: Brian Dodek

**Reported:**  
04/29/10 14:27

### Notes and Definitions

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  
RPD Relative Percent Difference

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Summit Scientific

A handwritten signature in black ink, appearing to be 'JD' or similar, with a long horizontal stroke extending to the right.

*The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.*