



18 November 2015

Dudek & Associates, Inc.  
Attn: Patrick Rentz  
605 Third Street  
Encinitas, CA 92024

**EMA Log #: 15K0171**

**Project Name: Jacumba Park Monitoring Well**

Enclosed are the results of analyses for samples received by the laboratory on 11/05/15 12:30. Samples were analyzed pursuant to client request utilizing EPA or other ELAP approved methodologies. I certify that this data is in compliance both technically and for completeness.

A handwritten signature in black ink, appearing to read 'Dan Verdon', is written over a light gray grid background.

**Dan Verdon**  
**Laboratory Director**

CA ELAP Certification #: 2564

Client Name: Dudek & Associates, Inc.  
Project Name: Jacumba Park Monitoring Well

EMA Log #: 15K0171

**ANALYTICAL REPORT FOR SAMPLES**

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
Park Monitoring Well	15K0171-01	Water	11/05/15 11:00	11/05/15 12:30

*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.*

EnviroMatrix Analytical, Inc.



Client Name: Dudek & Associates, Inc.  
 Project Name: Jacumba Park Monitoring Well

EMA Log #: 15K0171

### Volatile Organic Compounds by EPA Method 8260B

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
<b>Park Monitoring Well (15K0171-01) Water Sampled: 11/05/15 11:00 Received: 11/05/15 12:30</b>									
Acetone	ND	25.0	ug/l	1	5111031	11/10/15	11/10/15	EPA 8260B	
Acetonitrile	ND	50.0	"	"	"	"	"	"	
Acrolein	ND	100	"	"	"	"	"	"	
Acrylonitrile	ND	10.0	"	"	"	"	"	"	
Allyl chloride	ND	1.00	"	"	"	"	"	"	
Benzene	ND	1.00	"	"	"	"	"	"	
Bromobenzene	ND	1.00	"	"	"	"	"	"	
Bromochloromethane	ND	1.00	"	"	"	"	"	"	
Bromodichloromethane	ND	1.00	"	"	"	"	"	"	
Bromoform	ND	1.00	"	"	"	"	"	"	
Bromomethane	ND	2.00	"	"	"	"	"	"	
2-Butanone	ND	25.0	"	"	"	"	"	"	
n-Butylbenzene	ND	1.00	"	"	"	"	"	"	
sec-Butylbenzene	ND	1.00	"	"	"	"	"	"	
tert-Butylbenzene	ND	1.00	"	"	"	"	"	"	
Carbon disulfide	ND	1.00	"	"	"	"	"	"	
Carbon tetrachloride	ND	0.50	"	"	"	"	"	"	
Chlorobenzene	ND	1.00	"	"	"	"	"	"	
Chlorodibromomethane	ND	1.00	"	"	"	"	"	"	
Chloroethane	ND	2.00	"	"	"	"	"	"	
2-Chloroethylvinyl ether	ND	2.00	"	"	"	"	"	"	
Chloroform	ND	1.00	"	"	"	"	"	"	
Chloromethane	ND	2.00	"	"	"	"	"	"	
2-Chlorotoluene	ND	1.00	"	"	"	"	"	"	
4-Chlorotoluene	ND	1.00	"	"	"	"	"	"	
1,2-Dibromo-3-chloropropane	ND	2.00	"	"	"	"	"	"	
1,2-Dibromoethane (EDB)	ND	1.00	"	"	"	"	"	"	
Dibromomethane	ND	1.00	"	"	"	"	"	"	
1,2-Dichlorobenzene	ND	1.00	"	"	"	"	"	"	
1,3-Dichlorobenzene	ND	1.00	"	"	"	"	"	"	
1,4-Dichlorobenzene	ND	1.00	"	"	"	"	"	"	
trans-1,4-Dichloro-2-butene	ND	2.00	"	"	"	"	"	"	
Dichlorodifluoromethane	ND	2.00	"	"	"	"	"	"	
1,1-Dichloroethane	ND	1.00	"	"	"	"	"	"	
1,2-Dichloroethane	ND	0.50	"	"	"	"	"	"	
1,1-Dichloroethene	ND	1.00	"	"	"	"	"	"	
cis-1,2-Dichloroethene	ND	1.00	"	"	"	"	"	"	
trans-1,2-Dichloroethene	ND	1.00	"	"	"	"	"	"	
1,2-Dichloropropane	ND	1.00	"	"	"	"	"	"	
1,3-Dichloropropane	ND	1.00	"	"	"	"	"	"	
2,2-Dichloropropane	ND	1.00	"	"	"	"	"	"	
1,1-Dichloropropene	ND	1.00	"	"	"	"	"	"	

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Client Name: Dudek & Associates, Inc.  
 Project Name: Jacumba Park Monitoring Well

EMA Log #: 15K0171

### Volatile Organic Compounds by EPA Method 8260B

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
<b>Park Monitoring Well (15K0171-01) Water Sampled: 11/05/15 11:00 Received: 11/05/15 12:30</b>									
cis-1,3-Dichloropropene	ND	0.50	ug/l	1	5111031	11/10/15	11/10/15	EPA 8260B	
trans-1,3-Dichloropropene	ND	0.50	"	"	"	"	"	"	
Diethyl ether	ND	2.00	"	"	"	"	"	"	
Ethylbenzene	ND	1.00	"	"	"	"	"	"	
Hexachlorobutadiene	ND	1.00	"	"	"	"	"	"	
Hexachloroethane	ND	1.00	"	"	"	"	"	"	
2-Hexanone	ND	5.00	"	"	"	"	"	"	
Iodomethane	ND	1.00	"	"	"	"	"	"	
Isopropylbenzene	ND	1.00	"	"	"	"	"	"	
Methylene chloride	ND	5.00	"	"	"	"	"	"	
Methyl tert-butyl ether	ND	1.00	"	"	"	"	"	"	
4-Methyl-2-pentanone	ND	25.0	"	"	"	"	"	"	
Naphthalene	ND	2.00	"	"	"	"	"	"	
n-Propylbenzene	ND	1.00	"	"	"	"	"	"	
Styrene	ND	1.00	"	"	"	"	"	"	
1,1,1,2-Tetrachloroethane	ND	1.00	"	"	"	"	"	"	
1,1,2,2-Tetrachloroethane	ND	1.00	"	"	"	"	"	"	
Tetrachloroethene	ND	1.00	"	"	"	"	"	"	
Toluene	ND	1.00	"	"	"	"	"	"	
1,2,3-Trichlorobenzene	ND	1.00	"	"	"	"	"	"	
1,2,4-Trichlorobenzene	ND	1.00	"	"	"	"	"	"	
1,1,1-Trichloroethane	ND	2.00	"	"	"	"	"	"	
1,1,2-Trichloroethane	ND	1.00	"	"	"	"	"	"	
Trichloroethene	ND	1.00	"	"	"	"	"	"	
Trichlorofluoromethane	ND	2.00	"	"	"	"	"	"	
1,2,3-Trichloropropane	ND	2.00	"	"	"	"	"	"	
1,1,2-Trichlorotrifluoroethane	ND	2.00	"	"	"	"	"	"	
1,2,4-Trimethylbenzene	ND	1.00	"	"	"	"	"	"	
1,3,5-Trimethylbenzene	ND	1.00	"	"	"	"	"	"	
Vinyl acetate	ND	5.00	"	"	"	"	"	"	
Vinyl chloride	ND	0.50	"	"	"	"	"	"	
m,p-Xylene	ND	2.00	"	"	"	"	"	"	
o-Xylene	ND	1.00	"	"	"	"	"	"	
<i>Surrogate: Dibromofluoromethane</i>		<i>103 %</i>		<i>79-115</i>					
<i>Surrogate: 4-Bromofluorobenzene</i>		<i>99 %</i>		<i>80-135</i>					
<i>Surrogate: Toluene-d8</i>		<i>117 %</i>		<i>78-118</i>					

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Client Name: Dudek & Associates, Inc.  
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EMA Log #: 15K0171

**TPH by EPA 8015B**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
<b>Park Monitoring Well (15K0171-01) Water    Sampled: 11/05/15 11:00    Received: 11/05/15 12:30</b>									
Diesel (C10-C28)	ND	500	ug/l	1	5111321	11/13/15	11/17/15	EPA 8015B	
Extended Range HC (C28-C40)	ND	500	"	"	"	"	"	"	
<i>Surrogate: 4-Bromofluorobenzene</i>		72 %	69-139		"	"	"	"	
Gasoline (C6-C10)	ND	50	"	"	5111207	11/12/15	11/12/15	"	
<i>Surrogate: 4-Bromofluorobenzene</i>		99 %	77-135		"	"	"	"	

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EMA Log #: 15K0171

### Volatile Organic Compounds by EPA Method 8260B - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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**Batch 5111031**

**Blank (5111031-BLK1)**

Prepared & Analyzed: 11/10/15

Acetone	ND	25.0	ug/l							
Acetonitrile	ND	50.0	"							
Acrolein	ND	100	"							
Acrylonitrile	ND	10.0	"							
Allyl chloride	ND	1.00	"							
Benzene	ND	1.00	"							
Bromobenzene	ND	1.00	"							
Bromochloromethane	ND	1.00	"							
Bromodichloromethane	ND	1.00	"							
Bromoform	ND	1.00	"							
Bromomethane	ND	2.00	"							
2-Butanone	ND	25.0	"							
n-Butylbenzene	ND	1.00	"							
sec-Butylbenzene	ND	1.00	"							
tert-Butylbenzene	ND	1.00	"							
Carbon disulfide	ND	1.00	"							
Carbon tetrachloride	ND	0.50	"							
Chlorobenzene	ND	1.00	"							
Chlorodibromomethane	ND	1.00	"							
Chloroethane	ND	2.00	"							
2-Chloroethylvinyl ether	ND	2.00	"							
Chloroform	ND	1.00	"							
Chloromethane	ND	2.00	"							
2-Chlorotoluene	ND	1.00	"							
4-Chlorotoluene	ND	1.00	"							
1,2-Dibromo-3-chloropropane	ND	2.00	"							
1,2-Dibromoethane (EDB)	ND	1.00	"							
Dibromomethane	ND	1.00	"							
1,2-Dichlorobenzene	ND	1.00	"							
1,3-Dichlorobenzene	ND	1.00	"							
1,4-Dichlorobenzene	ND	1.00	"							
trans-1,4-Dichloro-2-butene	ND	2.00	"							
Dichlorodifluoromethane	ND	2.00	"							
1,1-Dichloroethane	ND	1.00	"							
1,2-Dichloroethane	ND	0.50	"							
1,1-Dichloroethene	ND	1.00	"							
cis-1,2-Dichloroethene	ND	1.00	"							

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Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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**Batch 5111031**

**Blank (5111031-BLK1)**

Prepared & Analyzed: 11/10/15

trans-1,2-Dichloroethene	ND	1.00	ug/l
1,2-Dichloropropane	ND	1.00	"
1,3-Dichloropropane	ND	1.00	"
2,2-Dichloropropane	ND	1.00	"
1,1-Dichloropropene	ND	1.00	"
cis-1,3-Dichloropropene	ND	0.50	"
trans-1,3-Dichloropropene	ND	0.50	"
Diethyl ether	ND	2.00	"
Ethylbenzene	ND	1.00	"
Hexachlorobutadiene	ND	1.00	"
Hexachloroethane	ND	1.00	"
2-Hexanone	ND	5.00	"
Iodomethane	ND	1.00	"
Isopropylbenzene	ND	1.00	"
Methylene chloride	ND	5.00	"
Methyl tert-butyl ether	ND	1.00	"
4-Methyl-2-pentanone	ND	25.0	"
Naphthalene	ND	2.00	"
n-Propylbenzene	ND	1.00	"
Styrene	ND	1.00	"
1,1,1,2-Tetrachloroethane	ND	1.00	"
1,1,1,2-Tetrachloroethane	ND	1.00	"
Tetrachloroethene	ND	1.00	"
Toluene	ND	1.00	"
1,2,3-Trichlorobenzene	ND	1.00	"
1,2,4-Trichlorobenzene	ND	1.00	"
1,1,1-Trichloroethane	ND	2.00	"
1,1,2-Trichloroethane	ND	1.00	"
Trichloroethene	ND	1.00	"
Trichlorofluoromethane	ND	2.00	"
1,2,3-Trichloropropane	ND	2.00	"
1,1,2-Trichlorotrifluoroethane	ND	2.00	"
1,2,4-Trimethylbenzene	ND	1.00	"
1,3,5-Trimethylbenzene	ND	1.00	"
Vinyl acetate	ND	5.00	"
Vinyl chloride	ND	0.50	"
m,p-Xylene	ND	2.00	"

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

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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**Batch 5111031**

**Blank (5111031-BLK1)**

Prepared & Analyzed: 11/10/15

o-Xylene	ND	1.00	ug/l							
<i>Surrogate: Dibromofluoromethane</i>	51.7		"	50.0		103	79-115			
<i>Surrogate: 4-Bromofluorobenzene</i>	50.1		"	50.0		100	80-135			
<i>Surrogate: Toluene-d8</i>	56.6		"	50.0		113	78-118			

**LCS (5111031-BS1)**

Prepared & Analyzed: 11/10/15

Benzene	48.4	1.00	ug/l	50.0		97	90-108			
Chlorobenzene	49.1	1.00	"	50.0		98	90-109			
1,1-Dichloroethene	42.8	1.00	"	50.0		86	70-105			
Toluene	49.2	1.00	"	50.0		98	81-106			
Trichloroethene	48.3	1.00	"	50.0		97	90-108			
<i>Surrogate: Dibromofluoromethane</i>	49.8		"	50.0		100	79-115			
<i>Surrogate: 4-Bromofluorobenzene</i>	48.6		"	50.0		97	80-135			
<i>Surrogate: Toluene-d8</i>	50.7		"	50.0		101	78-118			

**LCS Dup (5111031-BSD1)**

Prepared & Analyzed: 11/10/15

Benzene	49.0	1.00	ug/l	50.0		98	90-108	1	30	
Chlorobenzene	49.9	1.00	"	50.0		100	90-109	2	30	
1,1-Dichloroethene	43.0	1.00	"	50.0		86	70-105	0.4	30	
Toluene	49.4	1.00	"	50.0		99	81-106	0.6	30	
Trichloroethene	48.9	1.00	"	50.0		98	90-108	1	30	
<i>Surrogate: Dibromofluoromethane</i>	50.4		"	50.0		101	79-115			
<i>Surrogate: 4-Bromofluorobenzene</i>	48.9		"	50.0		98	80-135			
<i>Surrogate: Toluene-d8</i>	50.5		"	50.0		101	78-118			

**Duplicate (5111031-DUP1)**

Source: 15K0075-01

Prepared & Analyzed: 11/10/15

Acetone	ND	25.0	ug/l		ND				30	
Acetonitrile	ND	50.0	"		ND				30	
Acrolein	ND	100	"		ND				30	
Acrylonitrile	ND	10.0	"		ND				30	
Allyl chloride	ND	1.00	"		ND				30	
Benzene	ND	1.00	"		ND				30	
Bromobenzene	ND	1.00	"		ND				30	
Bromochloromethane	ND	1.00	"		ND				30	
Bromodichloromethane	ND	1.00	"		ND				30	
Bromoform	ND	1.00	"		ND				30	
Bromomethane	ND	2.00	"		ND				30	
2-Butanone	ND	25.0	"		ND				30	

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### Volatile Organic Compounds by EPA Method 8260B - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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**Batch 5111031**

Duplicate (5111031-DUP1)	Source: 15K0075-01			Prepared & Analyzed: 11/10/15						
n-Butylbenzene	ND	1.00	ug/l		ND				30	
sec-Butylbenzene	ND	1.00	"		ND				30	
tert-Butylbenzene	ND	1.00	"		ND				30	
Carbon disulfide	ND	1.00	"		ND				30	
Carbon tetrachloride	ND	0.50	"		ND				30	
Chlorobenzene	ND	1.00	"		ND				30	
Chlorodibromomethane	ND	1.00	"		ND				30	
Chloroethane	ND	2.00	"		ND				30	
2-Chloroethylvinyl ether	ND	2.00	"		ND				30	
Chloroform	ND	1.00	"		ND				30	
Chloromethane	ND	2.00	"		ND				30	
2-Chlorotoluene	ND	1.00	"		ND				30	
4-Chlorotoluene	ND	1.00	"		ND				30	
1,2-Dibromo-3-chloropropane	ND	2.00	"		ND				30	
1,2-Dibromoethane (EDB)	ND	1.00	"		ND				30	
Dibromomethane	ND	1.00	"		ND				30	
1,2-Dichlorobenzene	ND	1.00	"		ND				30	
1,3-Dichlorobenzene	ND	1.00	"		ND				30	
1,4-Dichlorobenzene	ND	1.00	"		ND				30	
trans-1,4-Dichloro-2-butene	ND	2.00	"		ND				30	
Dichlorodifluoromethane	ND	2.00	"		ND				30	
1,1-Dichloroethane	ND	1.00	"		ND				30	
1,2-Dichloroethane	ND	0.50	"		ND				30	
1,1-Dichloroethene	ND	1.00	"		ND				30	
cis-1,2-Dichloroethene	ND	1.00	"		ND				30	
trans-1,2-Dichloroethene	ND	1.00	"		ND				30	
1,2-Dichloropropane	ND	1.00	"		ND				30	
1,3-Dichloropropane	ND	1.00	"		ND				30	
2,2-Dichloropropane	ND	1.00	"		ND				30	
1,1-Dichloropropene	ND	1.00	"		ND				30	
cis-1,3-Dichloropropene	ND	0.50	"		ND				30	
trans-1,3-Dichloropropene	ND	0.50	"		ND				30	
Diethyl ether	ND	2.00	"		ND				30	
Ethylbenzene	ND	1.00	"		ND				30	
Hexachlorobutadiene	ND	1.00	"		ND				30	
Hexachloroethane	ND	1.00	"		ND				30	
2-Hexanone	ND	5.00	"		ND				30	

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### Volatile Organic Compounds by EPA Method 8260B - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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**Batch 5111031**

**Duplicate (5111031-DUP1)**

Source: 15K0075-01

Prepared & Analyzed: 11/10/15

Iodomethane	ND	1.00	ug/l		ND				30	
Isopropylbenzene	ND	1.00	"		ND				30	
Methylene chloride	ND	5.00	"		ND				30	
Methyl tert-butyl ether	ND	1.00	"		ND				30	
4-Methyl-2-pentanone	ND	25.0	"		ND				30	
Naphthalene	ND	2.00	"		ND				30	
n-Propylbenzene	ND	1.00	"		ND				30	
Styrene	ND	1.00	"		ND				30	
1,1,1,2-Tetrachloroethane	ND	1.00	"		ND				30	
1,1,2,2-Tetrachloroethane	ND	1.00	"		ND				30	
Tetrachloroethane	ND	1.00	"		ND				30	
Toluene	ND	1.00	"		ND				30	
1,2,3-Trichlorobenzene	ND	1.00	"		ND				30	
1,2,4-Trichlorobenzene	ND	1.00	"		ND				30	
1,1,1-Trichloroethane	ND	2.00	"		ND				30	
1,1,2-Trichloroethane	ND	1.00	"		ND				30	
Trichloroethene	ND	1.00	"		ND				30	
Trichlorofluoromethane	ND	2.00	"		ND				30	
1,2,3-Trichloropropane	ND	2.00	"		ND				30	
1,1,2-Trichlorotrifluoroethane	ND	2.00	"		ND				30	
1,2,4-Trimethylbenzene	ND	1.00	"		ND				30	
1,3,5-Trimethylbenzene	ND	1.00	"		ND				30	
Vinyl acetate	ND	5.00	"		ND				30	
Vinyl chloride	ND	0.50	"		ND				30	
m,p-Xylene	ND	2.00	"		ND				30	
o-Xylene	ND	1.00	"		ND				30	
Surrogate: Dibromofluoromethane	50.2		"	50.0		100	79-115			
Surrogate: 4-Bromofluorobenzene	50.0		"	50.0		100	80-135			
Surrogate: Toluene-d8	57.5		"	50.0		115	78-118			

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 Project Name: Jacumba Park Monitoring Well

EMA Log #: 15K0171

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

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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**Batch 5111031**

<b>Matrix Spike (5111031-MS1)</b>	<b>Source: 15K0075-01</b>			<b>Prepared &amp; Analyzed: 11/10/15</b>						
Benzene	49.0	1.00	ug/l	50.0	ND	98	82-116			
Chlorobenzene	50.6	1.00	"	50.0	ND	101	86-115			
1,1-Dichloroethene	42.0	1.00	"	50.0	ND	84	60-133			
Toluene	50.2	1.00	"	50.0	ND	100	76-111			
Trichloroethene	49.3	1.00	"	50.0	ND	99	88-112			
<i>Surrogate: Dibromofluoromethane</i>	<i>49.8</i>		<i>"</i>	<i>50.0</i>		<i>100</i>	<i>79-115</i>			
<i>Surrogate: 4-Bromofluorobenzene</i>	<i>48.7</i>		<i>"</i>	<i>50.0</i>		<i>97</i>	<i>80-135</i>			
<i>Surrogate: Toluene-d8</i>	<i>50.9</i>		<i>"</i>	<i>50.0</i>		<i>102</i>	<i>78-118</i>			

<b>Matrix Spike Dup (5111031-MSD1)</b>	<b>Source: 15K0075-01</b>			<b>Prepared &amp; Analyzed: 11/10/15</b>						
Benzene	48.9	1.00	ug/l	50.0	ND	98	82-116	0.4	30	
Chlorobenzene	50.3	1.00	"	50.0	ND	101	86-115	0.7	30	
1,1-Dichloroethene	42.3	1.00	"	50.0	ND	85	60-133	0.7	30	
Toluene	49.6	1.00	"	50.0	ND	99	76-111	1	30	
Trichloroethene	49.1	1.00	"	50.0	ND	98	88-112	0.5	30	
<i>Surrogate: Dibromofluoromethane</i>	<i>49.7</i>		<i>"</i>	<i>50.0</i>		<i>99</i>	<i>79-115</i>			
<i>Surrogate: 4-Bromofluorobenzene</i>	<i>48.5</i>		<i>"</i>	<i>50.0</i>		<i>97</i>	<i>80-135</i>			
<i>Surrogate: Toluene-d8</i>	<i>50.6</i>		<i>"</i>	<i>50.0</i>		<i>101</i>	<i>78-118</i>			

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.

Client Name: Dudek & Associates, Inc.  
 Project Name: Jacumba Park Monitoring Well

EMA Log #: 15K0171

**TPH by EPA 8015B - Quality Control**

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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**Batch 5111207**

<b>Blank (5111207-BLK1)</b>				Prepared & Analyzed: 11/12/15						
Gasoline (C6-C10)	ND	50	ug/l							
Surrogate: 4-Bromofluorobenzene	23.7		"	25.0		95	77-135			

<b>LCS (5111207-BS1)</b>				Prepared & Analyzed: 11/12/15						
Gasoline (C6-C10)	230	50	ug/l	200		115	75-125			
Surrogate: 4-Bromofluorobenzene	25.1		"	25.0		100	77-135			

<b>LCS Dup (5111207-BSD1)</b>				Prepared & Analyzed: 11/12/15						
Gasoline (C6-C10)	225	50	ug/l	200		113	75-125	2	30	
Surrogate: 4-Bromofluorobenzene	24.4		"	25.0		98	77-135			

<b>Duplicate (5111207-DUP1)</b>				Source: 15K0171-01		Prepared & Analyzed: 11/12/15				
Gasoline (C6-C10)	ND	50	ug/l			ND				30
Surrogate: 4-Bromofluorobenzene	23.6		"	25.0		95	77-135			

<b>Matrix Spike (5111207-MS1)</b>				Source: 15K0171-01		Prepared & Analyzed: 11/12/15				
Gasoline (C6-C10)	224	50	ug/l	200	ND	112	75-125			
Surrogate: 4-Bromofluorobenzene	24.7		"	25.0		99	77-135			

<b>Matrix Spike Dup (5111207-MSD1)</b>				Source: 15K0171-01		Prepared & Analyzed: 11/12/15				
Gasoline (C6-C10)	227	50	ug/l	200	ND	114	75-125	1	30	
Surrogate: 4-Bromofluorobenzene	25.3		"	25.0		101	77-135			

**Batch 5111321**

<b>Blank (5111321-BLK1)</b>				Prepared: 11/13/15 Analyzed: 11/17/15						
Diesel (C10-C28)	ND	500	ug/l							
Extended Range HC (C28-C40)	ND	500	"							
Surrogate: 4-Bromofluorobenzene	2510		"	3330		75	69-139			

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Client Name: Dudek & Associates, Inc.  
 Project Name: Jacumba Park Monitoring Well

EMA Log #: 15K0171

**TPH by EPA 8015B - Quality Control**

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
<b>Batch 5111321</b>										
<b>LCS (5111321-BS1)</b>				Prepared: 11/13/15 Analyzed: 11/17/15						
Diesel (C10-C28)	5720	500	ug/l	5000		114	75-125			
Surrogate: 4-Bromofluorobenzene	2420		"	3330		73	69-139			
<b>LCS Dup (5111321-BSD1)</b>				Prepared: 11/13/15 Analyzed: 11/17/15						
Diesel (C10-C28)	5950	500	ug/l	5000		119	75-125	4	30	
Surrogate: 4-Bromofluorobenzene	2480		"	3330		74	69-139			
<b>Duplicate (5111321-DUP1)</b>		<b>Source: 15K0171-01</b>		Prepared: 11/13/15 Analyzed: 11/17/15						
Diesel (C10-C28)	ND	500	ug/l		ND				30	
Extended Range HC (C28-C40)	ND	500	"		ND				30	
Surrogate: 4-Bromofluorobenzene	2400		"	3330		72	69-139			
<b>Matrix Spike (5111321-MS1)</b>		<b>Source: 15K0403-02</b>		Prepared: 11/13/15 Analyzed: 11/17/15						
Diesel (C10-C28)	20500	500	ug/l	5000	15300	104	75-125			
Surrogate: 4-Bromofluorobenzene	2600		"	3330		78	69-139			
<b>Matrix Spike Dup (5111321-MSD1)</b>		<b>Source: 15K0403-02</b>		Prepared: 11/13/15 Analyzed: 11/17/15						
Diesel (C10-C28)	19800	500	ug/l	5000	15300	90	75-125	4	30	
Surrogate: 4-Bromofluorobenzene	2790		"	3330		84	69-139			

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Client Name: Dudek & Associates, Inc.  
Project Name: Jacumba Park Monitoring Well

EMA Log #: 15K0171

### Notes and Definitions

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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EnviroMatrix  Analytical, Inc.

4340 Viewridge Ave., Ste. A - San Diego, CA 92123 - Phone (858) 560-7717 - Fax (858) 560-7763

**CHAIN-OF-CUSTODY RECORD**

EMALOG #: 13K017

Client: DUDEK

Attn: Patrick Rantz

Samplers(s): Patrick Rantz

Address: 605 Third Street  
Encinitas CA 92024

Phone: (760) 815-0143 Fax:

Email: prantz@dudok.com prantz@dudok.com

Billing Address:

Project ID: Jacumba Park Monitoring Well

Project #: 30 #:

ID #	Client Sample ID	Sample Date	Sample Time	Sample Matrix	Container # / Type
1	<u>Park Monitoring Well</u>	<u>11/5/15</u>	<u>11:00</u>	<u>HW</u>	<u>7</u>
2					
3					
4					
5					
6					
7					
8					
9					
10					

Matrix Codes: A = Air, DW = Drinking Water, GW = Groundwater, SW = Storm Water  
 WW = Wastewater, S = Soil, SED = Sediment, SD = Solid, T = Tissue, O = Oil, L = Liquid

Shipped By:  Courier  UPS  FedEx  USPS  Client Drop Off  Other

\*Turn-Around-Time:  Same Day  1 day  2 day  3 day  4 day  5 day  7 day  ASD (7 day)

\*Reporting Requirements:  Fax  PDF  Excel  Geotracker/EDF  Hard Copy  EDT

\*Sample Disposal:  By Laboratory  Return to Client: P/U or Delivery  Archive

Correct Containers:  Yes  No  N/A

Custody Seals Intact: Yes  No  N/A

COC/Labels Agree:  Yes  No  N/A

Containers Properly Preserved:  Yes  No  N/A

Temp @ Receipt: 78° C

Sampled By: Patrick Rantz EMA Autosampler

Project/Sample Comments:

Requested Analysis	RELINQUISHED BY	DATE/TIME	RECEIVED BY
Oil & Grease <input type="checkbox"/> 413.1 <input type="checkbox"/> 413.2 <input type="checkbox"/> 1664	Signature: <u>Patrick Rantz</u>		Signature: <u>Patrick Rantz</u>
8015 (TPH) <input checked="" type="checkbox"/> Gas <input checked="" type="checkbox"/> Diesel <input type="checkbox"/> Ext	Print: <u>Patrick Rantz</u>		Print: <u>Patrick Rantz</u>
625 / 8270 (SVOC) <input type="checkbox"/> PAH only	Company: <u>DUDEK</u>		Company: <u>DUDEK</u>
608 / 8081 (Organochlorine Pesticides)			
608 / 8082 (Polychlorinated Biphenyls)			
8141 (Organophosphorus Pesticides)			
TBT (Organotin Compounds)			
pH <input type="checkbox"/> EC <input type="checkbox"/> TSS <input type="checkbox"/> TDS			
<input type="checkbox"/> Nitrate <input type="checkbox"/> Nitrite <input type="checkbox"/> TKN <input type="checkbox"/> NH3			
CAC Title 22/CAM17 Metals <input type="checkbox"/> TLC <input type="checkbox"/> STLC		<u>11/5/15</u>	
TCLP (RCRA) <input type="checkbox"/> Metals <input type="checkbox"/> Organics		<u>12:30</u>	
Cd Cr Cu Pb Ni Ag Zn <input type="checkbox"/> Dissolved			
Coliform, <input type="checkbox"/> Total (MTF) <input type="checkbox"/> Fecal (MTF)			
Collet, T+E, Coli <input type="checkbox"/> P/A <input type="checkbox"/> Enumeration			
Enterococcus, <input type="checkbox"/> MTF <input type="checkbox"/> Enterolent			
Heterotrophic Plate Count (HPC)			
BOD <input type="checkbox"/> COD <input type="checkbox"/> Cyanide			

Patrick Rantz

\*Additional costs may apply. Please note there is a \$35 minimum charge for all clients.  
 \*EMA reserves the right to return any samples that do not match our waste profile.  
 NOTE: By relinquishing samples to EMA, Inc., client agrees to pay for the services requested on this COC form and any additional analyses performed on this project. Payment for services is due within 30 days from date of invoice. Samples will be disposed of 7 days after report has been finalized unless otherwise noted. All work is subject to EMA's terms and conditions.