

Wickham, Jerry, Env. Health

From: Wickham, Jerry, Env. Health
Sent: Wednesday, January 26, 2011 6:33 PM
To: 'Nicholas Roy'
Cc: Kris Larson
Subject: RE: Holland Park import material lab data

Based on the information and analytical results presented to me, I have no objection to the soil described below being imported to the Holland Park site for use as fill material.

Regards,

Jerry Wickham
Alameda County Environmental Health
1131 Harbor Bay Parkway
Alameda, CA 94502-6577
phone: 510-567-6791
jerry.wickham@acgov.org

From: Nicholas Roy [<mailto:nroy@ninyoandmoore.com>]
Sent: Wednesday, January 26, 2011 6:22 PM
To: Wickham, Jerry, Env. Health
Cc: Kris Larson
Subject: RE: Holland Park import material lab data

Jerry,

The import soil source is agricultural land in the Manteca area and is stockpiled at a yard there for fill purposes. I hope this along w/ my previous response answers your questions.

Thanks

Nicholas S. Roy
Senior Staff Environmental Scientist
Ninyo & Moore
Geotechnical & Environmental Sciences Consultants
1956 Webster Street, Suite 400
Oakland, California 94612
(510) 633-5640 (x5230)
nroy@ninyoandmoore.com

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-----Original Message-----

From: Wickham, Jerry, Env. Health [<mailto:jerry.wickham@acgov.org>]
Sent: Wed 1/26/2011 12:24 PM
To: Nicholas Roy
Cc: Kris Larson
Subject: RE: Holland Park import material lab data

Hello Nicholas,

Please fill me in on the sampling methods:

- 1) Discrete of composite samples.
- 2) Each sample represents what volume of soil

Do you know what type of facility this soil comes from? Commercial, agricultural, mining or quarry?

Thanks,

Jerry Wickham

Alameda County Environmental Health

1131 Harbor Bay Parkway

Alameda, CA 94502-6577

phone: 510-567-6791

jerry.wickham@acgov.org

From: Nicholas Roy [<mailto:nroy@ninyoandmoore.com>]
Sent: Wednesday, January 26, 2011 3:35 PM
To: Wickham, Jerry, Env. Health
Cc: Kris Larson
Subject: Holland Park import material lab data

Hello Jerry,

Please see the new import material lab data attached to this email. The contactor has told me this is virgin soil from a facility in Manteca. The results look to be BDL and near background for everything we analyzed for.

Thanks

Nicholas S. Roy
Senior Staff Environmental Scientist
Ninyo & Moore
Geotechnical & Environmental Sciences Consultants
1956 Webster Street, Suite 400
Oakland, California 94612
(510) 633-5640 (x5230)
nroy@ninyoandmoore.com

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ANALYTICAL RESULTS

Print Date: 26-Jan-11

CLIENT: Ninyo & Moore
Lab Order: 115954
Project: Holland Park, 401314006
Lab ID: 115954-001A

Client Sample ID: Import #1
Collection Date: 1/24/2011
Matrix: SOIL

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
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ICP METALS

EPA 3050B

EPA 6010B

RunID:	ICP8_110126C	QC Batch:	69984	PrepDate:	1/25/2011	Analyst:	JSD
Antimony	ND	2.0	mg/Kg	1	1/26/2011 02:48 PM		
Arsenic	ND	1.0	mg/Kg	1	1/26/2011 02:48 PM		
Barium	56	1.0	mg/Kg	1	1/26/2011 02:48 PM		
Beryllium	ND	1.0	mg/Kg	1	1/26/2011 02:48 PM		
Cadmium	ND	1.0	mg/Kg	1	1/26/2011 02:48 PM		
Chromium	14	1.0	mg/Kg	1	1/26/2011 02:48 PM		
Cobalt	4.1	1.0	mg/Kg	1	1/26/2011 02:48 PM		
Copper	9.6	2.0	mg/Kg	1	1/26/2011 02:48 PM		
Lead	3.3	1.0	mg/Kg	1	1/26/2011 02:48 PM		
Molybdenum	ND	1.0	mg/Kg	1	1/26/2011 02:48 PM		
Nickel	16	1.0	mg/Kg	1	1/26/2011 02:48 PM		
Selenium	ND	1.0	mg/Kg	1	1/26/2011 02:48 PM		
Silver	ND	1.0	mg/Kg	1	1/26/2011 02:48 PM		
Thallium	ND	1.0	mg/Kg	1	1/26/2011 02:48 PM		
Vanadium	14	1.0	mg/Kg	1	1/26/2011 02:48 PM		
Zinc	20	1.0	mg/Kg	1	1/26/2011 02:48 PM		

DIESEL & MOTOR OIL RANGE ORGANICS BY GC/FID

EPA 3550B

EPA 8015B(M)

RunID:	GC16_110126A	QC Batch:	69990	PrepDate:	1/25/2011	Analyst:	CBR
DRO	ND	1.0	mg/Kg	1	1/26/2011 11:04 AM		
ORO	ND	1.0	mg/Kg	1	1/26/2011 11:04 AM		
Surr: p-Terphenyl	70.0	30-128	%REC	1	1/26/2011 11:04 AM		

ORGANOCHLORINE PESTICIDES BY GC/ECD

EPA 3550B

EPA 8081A

RunID:	GC10_110125B	QC Batch:	70001	PrepDate:	1/25/2011	Analyst:	HL
4,4'-DDD	ND	2.0	µg/Kg	1	1/25/2011 06:40 PM		
4,4'-DDE	30	2.0	µg/Kg	1	1/25/2011 06:40 PM		
4,4'-DDT	17	2.0	µg/Kg	1	1/25/2011 06:40 PM		
Aldrin	ND	1.0	µg/Kg	1	1/25/2011 06:40 PM		
alpha-BHC	ND	1.0	µg/Kg	1	1/25/2011 06:40 PM		
alpha-Chlordane	ND	1.0	µg/Kg	1	1/25/2011 06:40 PM		
beta-BHC	ND	1.0	µg/Kg	1	1/25/2011 06:40 PM		
Chlordane	ND	8.5	µg/Kg	1	1/25/2011 06:40 PM		
delta-BHC	ND	1.0	µg/Kg	1	1/25/2011 06:40 PM		

Qualifiers: B Analyte detected in the associated Method Blank E Value above quantitation range
H Holding times for preparation or analysis exceeded ND Not Detected at the Reporting Limit
S Spike/Surrogate outside of limits due to matrix interference Results are wet unless otherwise specified
DO Surrogate Diluted Out

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ANALYTICAL RESULTS

Print Date: 26-Jan-11

CLIENT: Ninyo & Moore
Lab Order: 115954
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ORGANOCHLORINE PESTICIDES BY GC/ECD

EPA 3550B

EPA 8081A

RunID:	GC10_110125B	QC Batch:	70001	PrepDate:	1/25/2011	Analyst:	HL
Dieldrin	ND	2.0	µg/Kg	1	1/25/2011 06:40 PM		
Endosulfan I	ND	1.0	µg/Kg	1	1/25/2011 06:40 PM		
Endosulfan II	ND	2.0	µg/Kg	1	1/25/2011 06:40 PM		
Endosulfan sulfate	ND	2.0	µg/Kg	1	1/25/2011 06:40 PM		
Endrin	ND	2.0	µg/Kg	1	1/25/2011 06:40 PM		
Endrin aldehyde	ND	2.0	µg/Kg	1	1/25/2011 06:40 PM		
Endrin ketone	ND	2.0	µg/Kg	1	1/25/2011 06:40 PM		
gamma-BHC	ND	1.0	µg/Kg	1	1/25/2011 06:40 PM		
gamma-Chlordane	ND	1.0	µg/Kg	1	1/25/2011 06:40 PM		
Heptachlor	ND	1.0	µg/Kg	1	1/25/2011 06:40 PM		
Heptachlor epoxide	ND	1.0	µg/Kg	1	1/25/2011 06:40 PM		
Methoxychlor	ND	5.0	µg/Kg	1	1/25/2011 06:40 PM		
Toxaphene	ND	50	µg/Kg	1	1/25/2011 06:40 PM		
Surr: Decachlorobiphenyl	75.4	21-132	%REC	1	1/25/2011 06:40 PM		
Surr: Tetrachloro-m-xylene	73.8	22-110	%REC	1	1/25/2011 06:40 PM		

PCBS BY GC/ECD

EPA 3550B

EPA 8082

RunID:	GC4_110125B	QC Batch:	70001	PrepDate:	1/25/2011	Analyst:	BB
Aroclor 1016	ND	16	µg/Kg	1	1/25/2011 11:08 PM		
Aroclor 1221	ND	33	µg/Kg	1	1/25/2011 11:08 PM		
Aroclor 1232	ND	16	µg/Kg	1	1/25/2011 11:08 PM		
Aroclor 1242	ND	16	µg/Kg	1	1/25/2011 11:08 PM		
Aroclor 1248	ND	16	µg/Kg	1	1/25/2011 11:08 PM		
Aroclor 1254	ND	16	µg/Kg	1	1/25/2011 11:08 PM		
Aroclor 1260	ND	16	µg/Kg	1	1/25/2011 11:08 PM		
Aroclor 1262	ND	16	µg/Kg	1	1/25/2011 11:08 PM		
Aroclor 1268	ND	16	µg/Kg	1	1/25/2011 11:08 PM		
Surr: Decachlorobiphenyl	114	36-124	%REC	1	1/25/2011 11:08 PM		
Surr: Tetrachloro-m-xylene	84.4	35-141	%REC	1	1/25/2011 11:08 PM		

MERCURY BY COLD VAPOR TECHNIQUE

EPA 7471A

RunID:	AA1_110125E	QC Batch:	69983	PrepDate:	1/25/2011	Analyst:	VV
Mercury	ND	0.10	mg/Kg	1	1/25/2011 04:40 PM		

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ANALYTICAL RESULTS

Print Date: 26-Jan-11

CLIENT: Ninyo & Moore
Lab Order: 115954
Project: Holland Park, 401314006
Lab ID: 115954-001A

Client Sample ID: Import #1
Collection Date: 1/24/2011
Matrix: SOIL

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
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SEMIVOLATILE ORGANIC COMPOUNDS BY GC/MS-SIM

EPA 3550B

EPA 8270C

RunID:	MS6_110126A	QC Batch:	70008	PrepDate:	1/26/2011	Analyst:	DMP
Acenaphthene	ND	5.0	µg/Kg	1	1/26/2011 11:34 AM		
Acenaphthylene	ND	5.0	µg/Kg	1	1/26/2011 11:34 AM		
Anthracene	ND	5.0	µg/Kg	1	1/26/2011 11:34 AM		
Benzo(a)anthracene	ND	5.0	µg/Kg	1	1/26/2011 11:34 AM		
Benzo(a)pyrene	ND	5.0	µg/Kg	1	1/26/2011 11:34 AM		
Benzo(b)fluoranthene	ND	5.0	µg/Kg	1	1/26/2011 11:34 AM		
Benzo(g,h,i)perylene	ND	5.0	µg/Kg	1	1/26/2011 11:34 AM		
Benzo(k)fluoranthene	ND	5.0	µg/Kg	1	1/26/2011 11:34 AM		
Chrysene	ND	5.0	µg/Kg	1	1/26/2011 11:34 AM		
Dibenz(a,h)anthracene	ND	5.0	µg/Kg	1	1/26/2011 11:34 AM		
Fluoranthene	ND	5.0	µg/Kg	1	1/26/2011 11:34 AM		
Fluorene	ND	5.0	µg/Kg	1	1/26/2011 11:34 AM		
Indeno(1,2,3-cd)pyrene	ND	5.0	µg/Kg	1	1/26/2011 11:34 AM		
Naphthalene	ND	5.0	µg/Kg	1	1/26/2011 11:34 AM		
Phenanthrene	ND	5.0	µg/Kg	1	1/26/2011 11:34 AM		
Pyrene	ND	5.0	µg/Kg	1	1/26/2011 11:34 AM		
Surr: 1,2-Dichlorobenzene-d4	71.7	33-121	%REC	1	1/26/2011 11:34 AM		
Surr: 2-Fluorobiphenyl	88.0	41-128	%REC	1	1/26/2011 11:34 AM		
Surr: 4-Terphenyl-d14	112	54-154	%REC	1	1/26/2011 11:34 AM		
Surr: Nitrobenzene-d5	65.6	39-113	%REC	1	1/26/2011 11:34 AM		

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S Spike/Surrogate outside of limits due to matrix interference Results are wet unless otherwise specified
DO Surrogate Diluted Out

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ANALYTICAL RESULTS

Print Date: 26-Jan-11

CLIENT: Ninyo & Moore
Lab Order: 115954
Project: Holland Park, 401314006
Lab ID: 115954-002A

Client Sample ID: Import #2
Collection Date: 1/24/2011
Matrix: SOIL

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
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ICP METALS

		EPA 3050B		EPA 6010B		
RunID:	ICP8_110126C	QC Batch:	69984	PrepDate:	1/25/2011	Analyst: JSD
Antimony	ND	2.0	mg/Kg	1	1/26/2011 02:52 PM	
Arsenic	ND	1.0	mg/Kg	1	1/26/2011 02:52 PM	
Barium	47	1.0	mg/Kg	1	1/26/2011 02:52 PM	
Beryllium	ND	1.0	mg/Kg	1	1/26/2011 02:52 PM	
Cadmium	ND	1.0	mg/Kg	1	1/26/2011 02:52 PM	
Chromium	13	1.0	mg/Kg	1	1/26/2011 02:52 PM	
Cobalt	3.7	1.0	mg/Kg	1	1/26/2011 02:52 PM	
Copper	8.4	2.0	mg/Kg	1	1/26/2011 02:52 PM	
Lead	3.0	1.0	mg/Kg	1	1/26/2011 02:52 PM	
Molybdenum	ND	1.0	mg/Kg	1	1/26/2011 02:52 PM	
Nickel	14	1.0	mg/Kg	1	1/26/2011 02:52 PM	
Selenium	ND	1.0	mg/Kg	1	1/26/2011 02:52 PM	
Silver	ND	1.0	mg/Kg	1	1/26/2011 02:52 PM	
Thallium	ND	1.0	mg/Kg	1	1/26/2011 02:52 PM	
Vanadium	12	1.0	mg/Kg	1	1/26/2011 02:52 PM	
Zinc	18	1.0	mg/Kg	1	1/26/2011 02:52 PM	

DIESEL & MOTOR OIL RANGE ORGANICS BY GC/FID

		EPA 3550B		EPA 8015B(M)		
RunID:	GC16_110126A	QC Batch:	69990	PrepDate:	1/25/2011	Analyst: CBR
DRO	ND	1.0	mg/Kg	1	1/26/2011 11:13 AM	
ORO	2.0	1.0	mg/Kg	1	1/26/2011 11:13 AM	
Surr: p-Terphenyl	86.6	30-128	%REC	1	1/26/2011 11:13 AM	

ORGANOCHLORINE PESTICIDES BY GC/ECD

		EPA 3550B		EPA 8081A		
RunID:	GC10_110125B	QC Batch:	70001	PrepDate:	1/25/2011	Analyst: HL
4,4'-DDD	ND	2.0	µg/Kg	1	1/25/2011 06:53 PM	
4,4'-DDE	18	2.0	µg/Kg	1	1/25/2011 06:53 PM	
4,4'-DDT	9.5	2.0	µg/Kg	1	1/25/2011 06:53 PM	
Aldrin	ND	1.0	µg/Kg	1	1/25/2011 06:53 PM	
alpha-BHC	ND	1.0	µg/Kg	1	1/25/2011 06:53 PM	
alpha-Chlordane	ND	1.0	µg/Kg	1	1/25/2011 06:53 PM	
beta-BHC	ND	1.0	µg/Kg	1	1/25/2011 06:53 PM	
Chlordane	ND	8.5	µg/Kg	1	1/25/2011 06:53 PM	
delta-BHC	ND	1.0	µg/Kg	1	1/25/2011 06:53 PM	

Qualifiers: B Analyte detected in the associated Method Blank E Value above quantitation range
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CLIENT: Ninyo & Moore
Lab Order: 115954
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ORGANOCHLORINE PESTICIDES BY GC/ECD

EPA 3550B

EPA 8081A

RunID:	GC10_110125B	QC Batch:	70001	PrepDate:	1/25/2011	Analyst:	HL
Dieldrin	ND	2.0	µg/Kg	1	1/25/2011 06:53 PM		
Endosulfan I	ND	1.0	µg/Kg	1	1/25/2011 06:53 PM		
Endosulfan II	ND	2.0	µg/Kg	1	1/25/2011 06:53 PM		
Endosulfan sulfate	ND	2.0	µg/Kg	1	1/25/2011 06:53 PM		
Endrin	ND	2.0	µg/Kg	1	1/25/2011 06:53 PM		
Endrin aldehyde	ND	2.0	µg/Kg	1	1/25/2011 06:53 PM		
Endrin ketone	ND	2.0	µg/Kg	1	1/25/2011 06:53 PM		
gamma-BHC	ND	1.0	µg/Kg	1	1/25/2011 06:53 PM		
gamma-Chlordane	ND	1.0	µg/Kg	1	1/25/2011 06:53 PM		
Heptachlor	ND	1.0	µg/Kg	1	1/25/2011 06:53 PM		
Heptachlor epoxide	ND	1.0	µg/Kg	1	1/25/2011 06:53 PM		
Methoxychlor	ND	5.0	µg/Kg	1	1/25/2011 06:53 PM		
Toxaphene	ND	50	µg/Kg	1	1/25/2011 06:53 PM		
Surr: Decachlorobiphenyl	72.3	21-132	%REC	1	1/25/2011 06:53 PM		
Surr: Tetrachloro-m-xylene	65.8	22-110	%REC	1	1/25/2011 06:53 PM		

PCBS BY GC/ECD

EPA 3550B

EPA 8082

RunID:	GC4_110125B	QC Batch:	70001	PrepDate:	1/25/2011	Analyst:	BB
Aroclor 1016	ND	16	µg/Kg	1	1/25/2011 11:39 PM		
Aroclor 1221	ND	33	µg/Kg	1	1/25/2011 11:39 PM		
Aroclor 1232	ND	16	µg/Kg	1	1/25/2011 11:39 PM		
Aroclor 1242	ND	16	µg/Kg	1	1/25/2011 11:39 PM		
Aroclor 1248	ND	16	µg/Kg	1	1/25/2011 11:39 PM		
Aroclor 1254	ND	16	µg/Kg	1	1/25/2011 11:39 PM		
Aroclor 1260	ND	16	µg/Kg	1	1/25/2011 11:39 PM		
Aroclor 1262	ND	16	µg/Kg	1	1/25/2011 11:39 PM		
Aroclor 1268	ND	16	µg/Kg	1	1/25/2011 11:39 PM		
Surr: Decachlorobiphenyl	107	36-124	%REC	1	1/25/2011 11:39 PM		
Surr: Tetrachloro-m-xylene	71.1	35-141	%REC	1	1/25/2011 11:39 PM		

MERCURY BY COLD VAPOR TECHNIQUE

EPA 7471A

RunID:	AA1_110125E	QC Batch:	69983	PrepDate:	1/25/2011	Analyst:	VV
Mercury	ND	0.10	mg/Kg	1	1/25/2011 04:38 PM		

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SEMIVOLATILE ORGANIC COMPOUNDS BY GC/MS-SIM

EPA 3550B

EPA 8270C

RunID:	MS6_110126A	QC Batch:	70008	PrepDate:	1/26/2011	Analyst:	DMP
Acenaphthene	ND	5.0	µg/Kg	1	1/26/2011 12:03 PM		
Acenaphthylene	ND	5.0	µg/Kg	1	1/26/2011 12:03 PM		
Anthracene	ND	5.0	µg/Kg	1	1/26/2011 12:03 PM		
Benzo(a)anthracene	ND	5.0	µg/Kg	1	1/26/2011 12:03 PM		
Benzo(a)pyrene	ND	5.0	µg/Kg	1	1/26/2011 12:03 PM		
Benzo(b)fluoranthene	ND	5.0	µg/Kg	1	1/26/2011 12:03 PM		
Benzo(g,h,i)perylene	ND	5.0	µg/Kg	1	1/26/2011 12:03 PM		
Benzo(k)fluoranthene	ND	5.0	µg/Kg	1	1/26/2011 12:03 PM		
Chrysene	ND	5.0	µg/Kg	1	1/26/2011 12:03 PM		
Dibenz(a,h)anthracene	ND	5.0	µg/Kg	1	1/26/2011 12:03 PM		
Fluoranthene	ND	5.0	µg/Kg	1	1/26/2011 12:03 PM		
Fluorene	ND	5.0	µg/Kg	1	1/26/2011 12:03 PM		
Indeno(1,2,3-cd)pyrene	ND	5.0	µg/Kg	1	1/26/2011 12:03 PM		
Naphthalene	ND	5.0	µg/Kg	1	1/26/2011 12:03 PM		
Phenanthrene	ND	5.0	µg/Kg	1	1/26/2011 12:03 PM		
Pyrene	ND	5.0	µg/Kg	1	1/26/2011 12:03 PM		
Surr: 1,2-Dichlorobenzene-d4	70.5	33-121	%REC	1	1/26/2011 12:03 PM		
Surr: 2-Fluorobiphenyl	92.6	41-128	%REC	1	1/26/2011 12:03 PM		
Surr: 4-Terphenyl-d14	116	54-154	%REC	1	1/26/2011 12:03 PM		
Surr: Nitrobenzene-d5	64.7	39-113	%REC	1	1/26/2011 12:03 PM		

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