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Alameda County Environmental Health



GROUNDWATER MONITORING REPORT

THIRD QUARTER 2008

Former Impulse Motors 1210 Bockman Road San Lorenzo, California

Geotracker Global ID:#T06019771179

ACHCS Case: #R00002737

Stantec Project: #04OT.29215.69

Submitted to:

Olson Urban Housing, LLC 3020 Old Ranch Parkway, Suite 400 Seal Beach, California

Submitted by:

Stantec Consulting Corporation 25864-F Business Center Drive Redlands, California

Prepared by:

Jason Adelaars Staff Scientist

Reviewed by:

Kyle D. Emerson, CEG 127 F CALIFORN Managing Principal Geologist

KYLE EMERSON No. 1271 CERTIFIED

GEOLOGIST

September 26, 2008

Date: September 26, 2008

QUARTERLY GROUNDWATER MONITORING REPORT

Address:

1210 Bockman Road (Figure 1)

Consulting Co./Contact Person:

Stantec/ Jason Adelaars and Kyle D. Emerson

Stantec Project No.: 04OT.29215.69

Primary Agency/Regulatory ID No.:

ACHCS / Case No. RO0002737

WORK PERFORMED THIS QUARTER [Third - 2008]:

1. Performed Third Quarter 2008 groundwater monitoring and sampling.

WORK PROPOSED FOR NEXT QUARTER [Fourth - 2008]:

- Submit Fourth Quarter 2008 Report.
- 2. Request UST Site closure.

Current Phase of Project:	Monitoring	(Unit)
Frequency of Sampling:	Quarterly	(Quarterly, etc.)
Frequency of Monitoring:	Quarterly	(Monthly, etc.)
Are Liquid Phase Hydrocarbons Present	No	(Yes/No)
Bulk Soil Removed to Date:	500	(cubic yards)
Bulk Soil Removed This Quarter:	0	(cubic yards)
Approximate Depth to Groundwater	8.11 to 9.14	(Measured Feet)
Groundwater Gradient	Northwest	(Direction)
Groundwater Gradient	0.004	(Magnitude)

DISCUSSION:

On September 8, 2008, Stantec personnel gauged groundwater monitoring wells at the site (Figure 2). The depth to water ranged between 8.11 feet in MW-02 to 9.14 feet in MW-03, as presented in Table 1. Groundwater elevations ranged between 11.44 feet to 11.57 feet above mean sea level (AMSL). Groundwater flows to the north by northwest at a hydraulic gradient of approximately 0.004 (Figure 3). Groundwater samples were collected from the wells in accordance with the attached purging and sampling procedures. Groundwater samples were collected and analyzed for Total Petroleum Hydrocarbons as gasoline (TPHg), Total Petroleum Hydrocarbons as diesel (TPHd), and Volatile Organic Compounds (VOCs) including the fuel oxygenates methyl tert-butyl ether (MTBE), tert-Butyl Alcohol (TBA), Ethyl tert-Butyl Ether (ETBE), Di-isopropyl Ether (DIPE), and tert-amyl methyl ether (TAME). Analytical results are reported in Tables 2 and 3.

CONCLUSIONS & RECOMMENDATIONS:

Groundwater collected from the three groundwater monitoring wells located down-gradient of the former fuel dispensers contained concentrations of total petroleum hydrocarbons in the gasoline range (TPHg) from non-detect to a peak of 300 µg/L. TPH in the diesel range was

STANTEC

measured from non detect to a peak of 170 μ g/L. Benzene, toluene, ethylbenzene, xylenes, MTBE, and TBA were all below detection levels.

Based on this information, the detected groundwater impact remains localized to the area immediately down gradient of the former dispenser islands and currently beneath the parking and driveway areas of the Site development, as indicated on Figure 2. As a result, Stantec considers the limits of the impacted groundwater adequately assessed, stable, and naturally attenuating.

Therefore, based on the exceedingly small extent of impact and the completed source removal actions, which were performed along with the overlying land use (driveway and parking), Stantec recommends no further assessment or remedial action.

ATTACHMENTS:

Figure 1 - Site Location Map

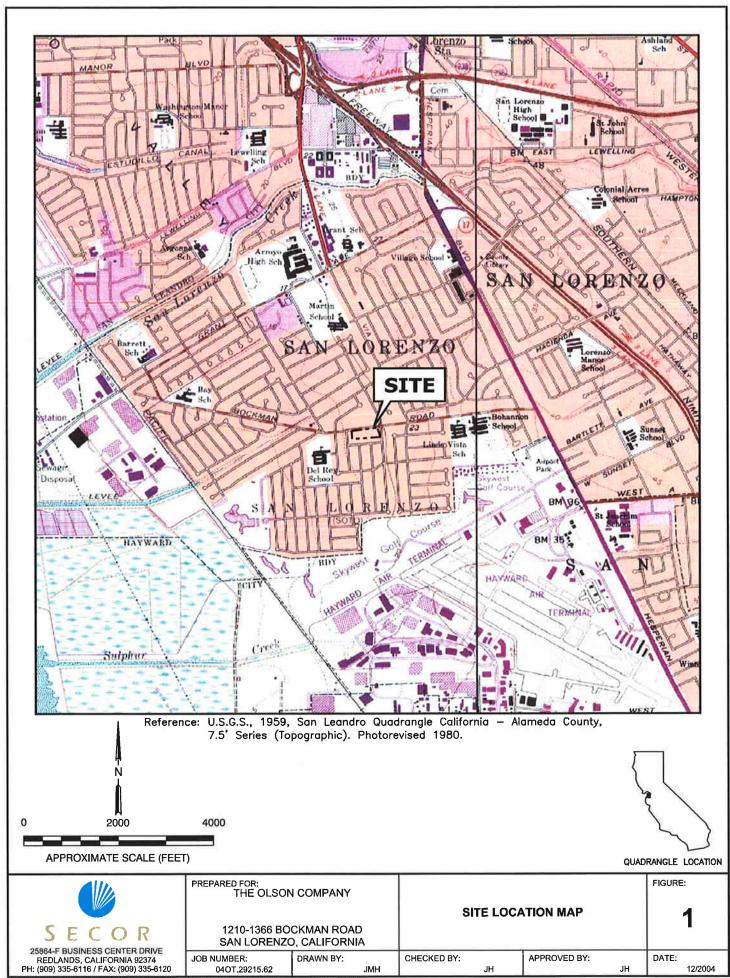
Figure 2 - Site Plan

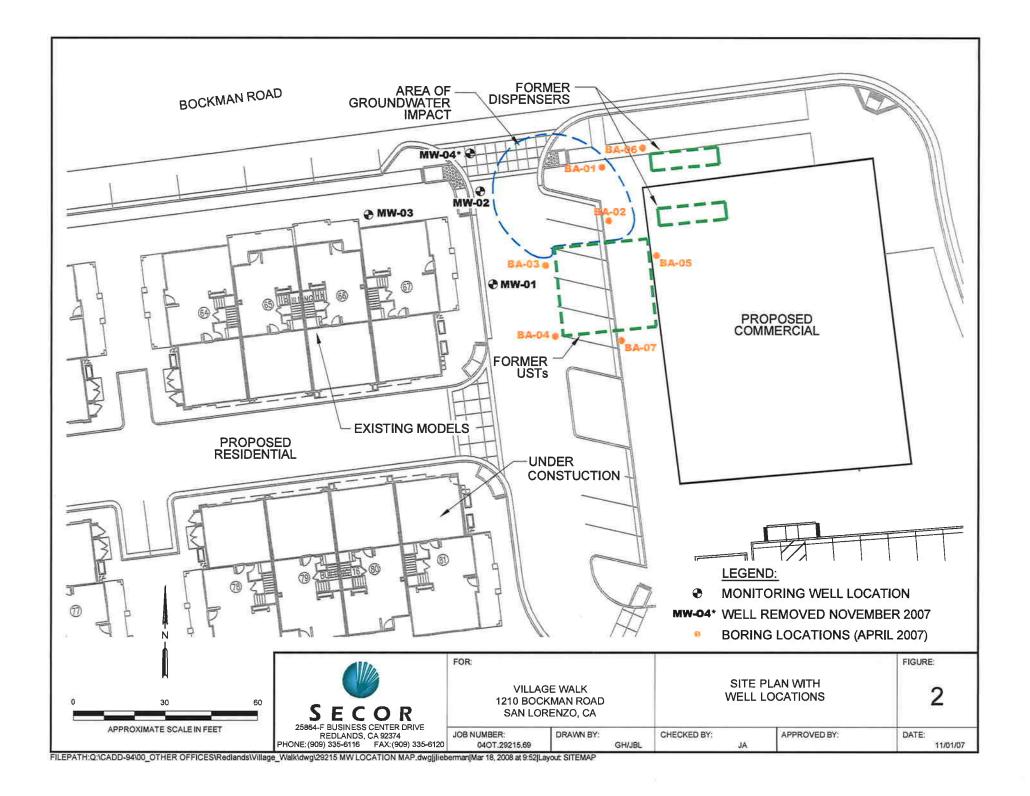
Figure 3 - Groundwater Gradient Map, September 8, 2008

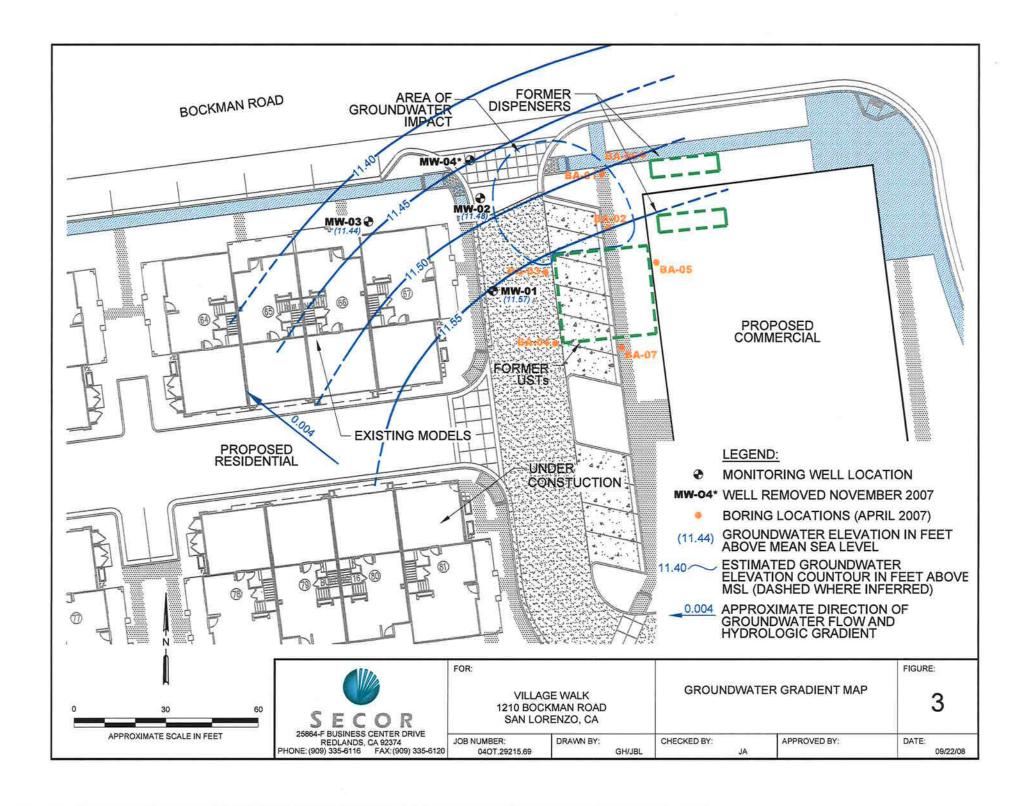
Table 1 - Summary of Groundwater Elevation Data
Table 2 through 4 - Summary of Groundwater Analytical Results

Standard Procedures for Groundwater Sampling Water Sample Field Data Sheets Chain of Custody Records, Lab Data Sheets and QA/QC Results

FIGURES







TABLES

Summary of Groundwater Elevation Data Olson - San Lorenzo 1210 Bockman Road San Lorenzo, California

Stantec Job No.: 04OT.29215.69

Well ID/Surveyed Elevation ⁽¹⁾	Date	Depth to Static Water (feet bgs)	Groundwater Elevation ⁽²⁾ (feet AMSL)
MW-01	3/17/2008	8.24	12.06
20.3	6/10/2008	8.5	11.8
	9/8/2008	8.73	11.57
MW-02	3/17/2008	7.65	11.94
19.59	6/10/2008	7.89	11.7
	9/8/2008	8.11	11.48
MW-03	3/17/2008	8.67	11.91
20.58	6/10/2008	8.91	11.67
1	9/8/2008	9.14	11.44

NOTES:

- (1) Elevations are mesured in feet above mean sea level (AMSL), site surveyed on March 24, 2008
- (2) Groundwater Elevation in feet AMSL = Surveyed Well Elevation subtracted by Depth to Water

Summary of Groundwater Analytical Results
TPH by modified EPA 8015B (μg/L)
Olson - San Lorenzo
1210 Bockman Road
San Lorenzo, California

Stantec Job No.: 04OT.29215.69

Sample ID	Sampling Date	TPH ⁽¹⁾ (8015) ⁽²⁾ C4-C12 ⁽³⁾ C12-C22 ⁽⁴		
RWQCB ESLs (μg/L		100	100	
MW-01-W	9/8/2008	<50	<50	
MW-02-W	9/8/2008	300	170	
MW-03-W	9/8/2008	<50	<50	
MW-04-W ⁽⁵⁾	11/7/2007	<0.5	<0.4	

NOTES

- (1) Concentrations reported in micrograms per liter (μg/L)
- (2) EPA Test Method
- (3) Characteristic carbon chain of Gasoline
- (4) Characteristic carbon chain of Diesel
- (5) MW-04 was removed due to conflict with contruction activities
- < Indicates the concentration was not detected above the laboratory method detection limit.

ABBREVIATIONS:

TPH - Total Petroleum Hydrocarbons

RWQCB ESLs - Environmental Screening Levels for Potential Source of Drinking Water established by the San Fransisco Bay Regional Water

Quality Control Board (February 2005)

Summary of Groundwater Analytical Results VOCs by EPA 8260B (µg/L) Olson - San Lorenzo 1210 Bockman Road San Lorenzo, California

Stantec Job No.: 04OT.29215.69

								VOCs (8260) ⁽²							
Sample ID	Sampling Date	Methyl- tert-butyl ether (MtBE)	tert-Amyl Methyl Ether (TAME)	Diisoprop yl Ether (DIPE)		tert-	Benzene	Ethylene Dibromide	1,2 Dichloro ethane (DCA)	Ethyl- benzene	Toluene	Total Xylenes	n- Butylben zene	sec- Butylben zene	Isopropyl benzene
CA MCLs (µg/L)		13	NR	NR	NR	NR	1	NR	0.5	300	150	1750	NR	NR	NR
Fedral MCLs (µg/L))	NR	NR	NR	NR	NR	5	NR	5	700	1000	10000	NR	NR	NR
RWQCB ESLs (µg/	/L)	5	NR	NR	NR	12	1	0.05	0.5	30	40	20	NR	NR	NR
Samples															
MW-01-W	9/80/2008	<1.0	<1.0	<1.0	<1.0	<10	<0.5	<0.5	<0.5	<0.5	<0.5	<1.0	<1.0	<0.5	<0.5
MW-02-W	9/8/2008	<1.0	<1.0	<1.0	<1.0	<10	<0.5	<0.5	<0.5	<0.5	<0.5	<1.0	1.1	1.2	<0.5
MW-03-W	9/8/2008	<1.0	<1.0	<1.0	<1.0	<10	<0.5	<0.5	<0.5	<0.5	<0.5	<1.0	<1.0	<0.5	<0.5
MW-04-W ⁽³⁾	11/7/2007	<1.0	<1.0	<1.0	<1.0	<10	<0.5	<0.5	<0.5	<0.5	<0.5	<1.0	<1.0	<0.5	<0.5

NOTES:

- (1) Concentrations reported in micrograms per liter (μg/L)
- (2) EPA Test Method
- (3) MW-04 was removed due to conflict with construction activities
- < Indicates the concentration was not detected above the laboratory method detection limit.

ABBREVIATIONS:

- VOCs Volatile Organic Compounds
- CA MCLs Maximum Contaminant Levels established by the State of California
- Federal MCLs Maximum Contaminant Levels established by the Federal Environmental Protection Agency
- RWQCB ESLs Environmental Screening Levels for Potential Source of Drinking Water established by the San Fransisco Bay Regional Water Quality Control Board (February 2005)
 - NR Not Reported

Summary of Groundwater Analytical Results TPH and VOCs Detected in Groundwater Olson - San Lorenzo 1210 Bockman Road San Lorenzo, California Stantec Job No.: 040T.29215.69

	Sampling		PH ⁽¹⁾ 15 ⁽²⁾		1	/OCs ⁽¹⁾ 8260 ⁽²⁾	
Sample ID	Date	C4-C12 ⁽³⁾	C12-C22 ⁽⁴⁾	n- Butylbenzene	sec- Butylbenzene	n- Propylbenzene	Isopropylbenzene
CA MCLs (μg/L)		NR	NR	NR	NR	NR	NR
Fedral MCLs (µg/L)		NR	NR	NR	NR	NR	NR
RWQCB ESLs (μg/L)		100	100	NR	NR	NR	NR
Samples							
	3/17/2008	<1.0	<1.0	<1.0	<0.5	<0.5	<0.5
MW-01-W	6/10/2008	<50	64	<1.0	<1.0	<1.0	<0.5
	9/8/2008	<50	<50	<1.0	<1.0	<1.0	<0.5
	3/17/2008	0.41	<1.0	3.4	<0.5	2.2	1.0
MW-02-W	6/10/2008	400	230	1.4	1.7	<1.0	0.91
	9/80/2008	300	170	1.1	1.2	<1.0	<0.5
	3/17/2008	<1.0	<1.0	<1.0	<0.5	<0.5	<0.5
MW-03-W	6/10/2008	<50	<50	<1.0	<1.0	<1.0	<0.5
	9/8/2008	<50	<50	<1.0	<1.0	<1.0	<0.5
MW-04-W ⁽⁵⁾	11/7/2007	<1.0	<1.0	<1.0	<0.5	<0.5	<0.5

NOTES:

- (1) Concentrations reported in micrograms per liter (µg/L)
- (2) EPA Test Method
- (3) Characteristic carbon chain of Gasoline
- (4) Characteristic carbon chain of Diesel
- (5) MW-04 was removed due to conflict with construction activities
- < Indicates the concentration was not detected above the laboratory method detection limit.

Highlighted yellow boxes indicate most recent laboratory data.

ABBREVIATIONS:

- VOCs Volatile Organic Compounds
- TPH Total Petroleum Hydrocarbons
- CA MCLs Maximum Contaminant Levels established by the State of California
- Federal MCLs Maximum Contaminant Levels established by the Federal Environmental Protection Agency
- RWQCB ESLs Environmental Screening Levels for Potential Source of Drinking Water established by the San Fransisco Bay Regional Water Quality Control Board (February 2005)
 - NR Not Reported



STANDARD PROCEDURES FOR GROUNDWATER SAMPLING

Groundwater sampling activities involve several activities including groundwater depth measurements, well purging, sample collection, waste water disposal, etc. The procedures for conducting these activities are described below.

DEPTH TO GROUNDWATER

Prior to purging each of the wells, the depth to groundwater within each well casing is measured to the nearest 0.01 foot using either an electronic water level indicator. The wells were measured from the top of each casing. The tops of the well casings were later surveys to provide an accurate elevation.

GROUNDWATER MONITORING WELL PURGING

Purging is conducted prior to sampling wells, a dedicated 3.5 inch by 36 inch Polyethylene Bailor was used to purge the wells. Purge water was contained on-site in 55-gallon DOT-approved drums. To assure that the collected samples were representative of fresh formation water, the conductivity, temperature, and pH of the delivered effluent are monitored and recorded using a Hanna Hydac meter during purge operations. In addition, the turbidity of the removed water is visually monitored and recorded. Purge operations are determined to be sufficient once successive measurements of pH, conductivity, and temperature stabilize to within +/- 10 percent.

During purging a minimum of three (3) well volumes, measured as the annular space of the well casing below the groundwater surface, are removed from each well. Field data sheets are attached indicating the volume of water removed from each casing. Wells were allowed to recharge to within in 90 percent of pre-purge groundwater elevation prior to conducting sampling.

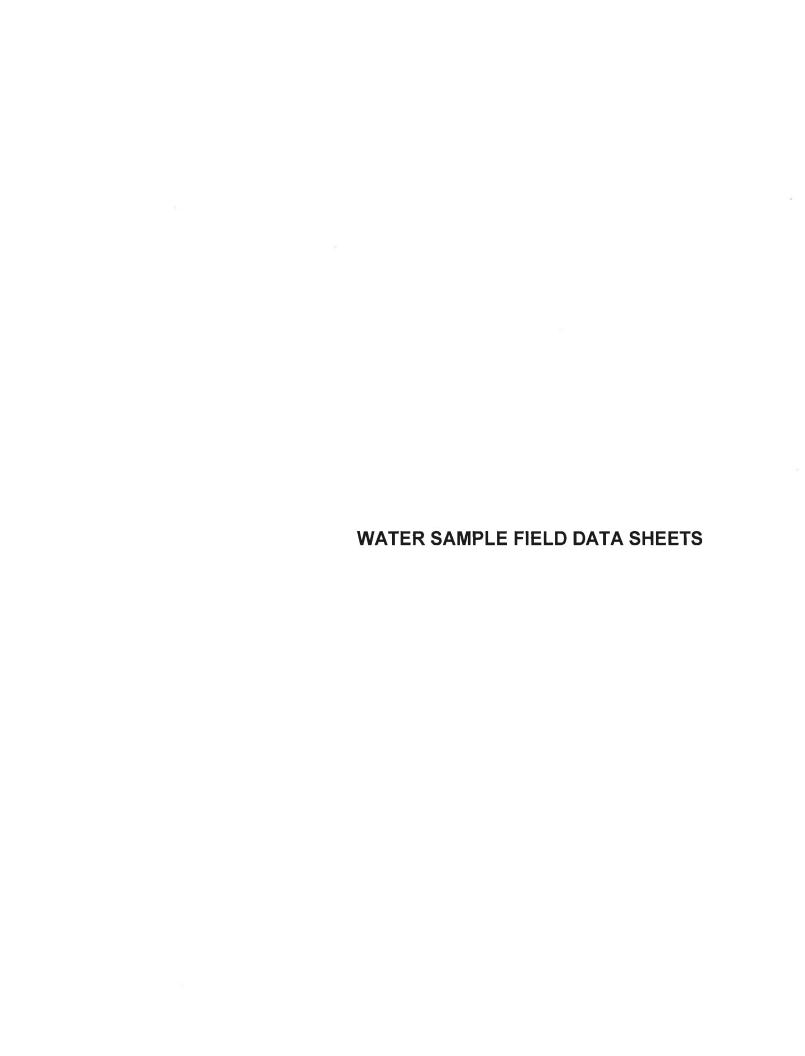
GROUNDWATER SAMPLE ACQUISITION AND HANDLING

Following purging operations, groundwater samples were collected from each of the three wells at the air-water interface, using precleaned, single-sample polyethylene disposable bailers. The groundwater sample was discharged from the bailer to the sample container through a bottom emptying flow control valve to minimize volatilization.

Collected water samples were discharged directly into laboratory provided, precleaned, 40 milliliter (ml) glass vials or one liter amber bottles and sealed with Teflon-lined septum, screw-on lids. Labels documenting sample number, well identification, collection date and time, type of sample and type of preservative (if applicable) were affixed to each sample. The samples were then placed into an ice-filled cooler for delivery under chain-of-custody to a laboratory certified to perform the specified tests by the State of California Department of Health Services Environmental Laboratory Accreditation Program.

CONTAINMENT AND DISPOSAL OF GENERATED WATER

All wastewater and purge water generated during the field activities were retained on-site in appropriate containers (i.e. DOT approved drums) for future disposal. All wastewater will be delivered under appropriate manifest to a facility certified and licensed to receive such waste streams.





Stantec Well Sampling Data Sheet

Project No.	04OT.292	15.69	Well ID	M	N-01		
Purged By	J.Adela	ars	Sample ID	<u>M1</u>	N-01-1	N	
Sampled By	J.Adela	ars	Client		Olson - Sa	an Lorenzo	
			Location	1210 Bo	ockman Roa	ad, San Lorer	zo, CA
Type: Groundwater	X o	her					
Casing Diameter (in Gallons per Linerar		3	4.9	0.826	6C	Other	
Casing Elevation Depth to Water Elevation of Water Depth of Well	8.73		Volume in Calculated F Actual F Depth of Mid So pump head is	Purge Purge creen	7.9	<u>, 6</u>	
Date Purged	a lalast		<u>1320</u> 1340		=======================================	1335	
	Collected at this We				End		
Time	Volume pH	E.C.	Temp	D.O.	ORP	Color	NTU
1320	0.0 7.2	7 0,91	73.3			CLEAR	
1325	20 7.19	1 0 0	71.1	******	packet.	CLEAR	January
1277	40 6.9	2 0.91	70.5	Managery (**)	golds.dea.	CCEAR	photosom:
1330	60 6.99	5 0.91	70.0		44-7-1		an private
1332	9.0 6.97		<u>19.7</u>	**************************************	purposition .	CLEAR.	emp)
Green Va	dicated Pump undfos/Rediflow c-Truck				edicated Pun Grundfos/Redi /ac-Truck	flow	
AND THE CONTRACTOR	velopment Rig iler/Type:	Poly		Annual Control of the)evelopment F Bailer/Type:	Rig Poly	
					Other:		****
Well Integrity:	1000	····	milessa veenimedine		to tancele conten	****	1500 Sillement Works
Remarks:		20	MI				
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Signature					Page	of	



Stantec Well Sampling Data Sheet

Project No	o 04OT.29215.69			Well ID	MW	-02		
Purged By	У	J.Adelaars		Sample ID				
Sampled B	у	J.Adelaars		Client		Olson - S	an Lorenzo	
				Location	1210 Bo	ockman Ro	ad, San Lore	nzo, CA
Type: Groundwate	rX	Other_	With the same			,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	Was Was your control of	
Casing Diameter (i	nches) 2		3	44.5		60	Other	<u>.</u>
Gallons per Linera	r Foot	0.163	0.367	0.653	0.826	1.469		
Casing Elevation		- Williams		Volume in Ca	asing	2.70	gallung	
Depth to Water		<u> </u>		Calculated F	urge	8.14	gALLON	
Elevation of Water		N_ 1		Actual F	_	9,09	-	
Depth of Wel	12.	2.1		Depth of Mid So pump head is s				
Date Purged	9/8/0	8	Start_	1350		End _	1410	l Hillippe Hillia,
Date Sampled	9[310	<u>s</u>	Start_	1415		End_		
Field QC Sample(s	c) Collected at	this Well (i.e	. FB-1, X-DU	P-1, MW-X etc.)			V-1-1-1-1-1-1-1-1-1-1-1-1-1-1-1-1-1-1-1
Time	Volume	рН	E.C.	Temp	D.O.	ORP	Color	NTU
13570	0,0	7.70	0,65	71,2	K	*************	CHENTER	
1355	2.0	7.07	0.82	6.95	greteriorismo-	Programm.	21 17	Volumen,
1400	40	7,13	0,88	6913		Marion and are	1.5. 71	
1403	60	7,00	0.91	69.2	and the same of th	-	/1/1	**Completences
1406	9.0	7.01	092	627		Manage and a	1111	***************************************
100	1 / Car		016	CROS 1				
Purging Equ	ipment				Sampling E	quipment		
	edicated Pump					Dedicated Pur	•	
	rundfos/Redifl ac-Truck	ow				Grundfos/Red	iflow	
**************************************	ac-Truck evelopment Ri	a				/ac-Truck)evelopment l	Dia	
	ailer/Type:		oly			Bailer/Type:	-	
111111111111111111111111111111111111111	ther:					Other:		
Well Integrity:	(301	N, Ch	50 C	AP.LET	Y 60	OVE /	N PLA	16.
Remarks:	SUGH	T MC	000	R				

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Stantec Well Sampling Data Sheet

Project No. 04OT.292	215.69	Well ID	M	Nr03		.2
Purged By J.Adela	ars	Sample ID		W-03-1		7
Sampled By J.Adela	ars	Client			an Lorenzo	
	10000	Location			ad, San Loren	zo. CA
					ad, dan Edicii	ZO, OA
Type: Groundwater X O	ther				T-115-144-1-1-1-1	
Casing Diameter (inches) 2	3	4 × 4.5		3 (Other	
Gallons per Linerar Foot 0.163	0.367	0.653	0.826	1.469		
Casing Elevation		Volume in Ca	sina	2.36		
Depth to Water		Calculated Po	_	7,09		
Elevation of Water			urge	8.0		
Depth of Well 12.76		Depth of Mid Sci	reen		-m	
2/2/20		pump head is so	et at		1 was	
Date Purged 91808	Start _	1240		_ End _	1300	
Date Sampled 9/8/08	Start _	1310		_ End_		
Field QC Sample(s) Collected at this Wel	l (i.e. FB-1, X-DU	P-1, MW-X etc.)				·····
Time Volume pH	E.C.	Temp	D.O.	ORP	Color	NTU
1240 0.0 7,3	8 0.89	65.6	-	eartin.	CLEAR	
1245 2,0 6,9	5 0.89	65,1	S	Pana	CLEAR	,
1250 4.0 6.8	d. Ku.	6417	**************************************			\$1400 mm == 1
					CLEAR.	
1765 60 69		63.8		- Managara Maria	<u>CLEAR</u>	
1300 8,0 6.8	5 0.92	64,2			CLEAR.	
Purging Equipment			Sampling Ed	quipment		
Dedicated Pump		9-	D	edicated Pur	np	
Grundfos/Rediflow		-	G	rundfos/Redi	iflow	
Vac-Truck				ac-Truck		
Development Rig	Dah	ii i		evelopment l	•	
X Bailer/Type: Other:	Poly	o r		ailer/Type: _ ther:	Poly	
Office.		-			THE SHOP	
Well Integrity: 600						
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CHAIN OF CUSTODY RECORDS, LAB DATA SHEETS, AND QA/QC RESULTS



ANALYTICAL REPORT

Job Number: 720-15866-1
Job Description: San Loranzo

For:
Stantec Consulting Corp.
7450 Arroyo Crossing Parkway
Suite 100
Las Vegas, NV 89113

Attention: Mr. Jason adelaars

Asanf Sal

Afsaneh Salimpour
Project Manager I
afsaneh.salimpour@testamericainc.com
09/15/2008

EXECUTIVE SUMMARY - Detections

Client: Stantec Consulting Corp.

Job Number: 720-15866-1

Lab Sample ID Analyte	Client Sample ID	Result / Qualifier	Reporting Limit	Units	Method
720-15866-2	MW-02-W				
n-Butylbenzene		1.1	1.0	ug/L	8260B
sec-Butylbenzene		1.2	1.0	ug/L	8260B
,	ganics (GRO)-C5-C12	300	50	ug/L	8260B/CA_LUFTMS
	nics [C10-C28]	170	50	ug/L	8015B

METHOD SUMMARY

Client: Stantec Consulting Corp.

Job Number: 720-15866-1

Description	Lab Location	Method Preparation Method
Matrix: Water		
Volatile Organic Compounds by GC/MS (Low Level)	TAL SF	SW846 8260B
Purge-and-Trap	TAL SF	SW846 5030B
Volatile Organic Compounds by GC/MS	TAL SF	SW846 8260B/CA_LUFTMS
Purge-and-Trap	TAL SF	SW846 5030B
Nonhalogenated Organics using GC/FID -Modified (Diesel Range Organics)	TAL SF	SW846 8015B
Separatory Funnel Liquid-Liquid Extraction	TAL SF	SW846 3510C

Lab References:

TAL SF = TestAmerica San Francisco

Method References:

SW846 = "Test Methods For Evaluating Solid Waste, Physical/Chemical Methods", Third Edition, November 1986 And Its Updates.

METHOD / ANALYST SUMMARY

Client: Stantec Consulting Corp.

Job Number: 720-15866-1

Method	Analyst	Analyst ID
SW846 8260B	Chen, Amy	AC
SW846 8260B/CA_LUFTMS SW846 8260B/CA_LUFTMS	Ali, Badri Allen, Coretta	BA CA
SW846 8015B	Hayashi, Derek	DH

SAMPLE SUMMARY

Client: Stantec Consulting Corp.

Job Number: 720-15866-1

Lab Sample ID	Client Sample ID	Client Matrix	Date/Time Sampled	Date/Time Received
720-15866-1	MVV-01-W	Water	09/08/2008 1340	09/08/2008 1520
720-15866-2	MVV-02-VV	Water	09/08/2008 1415	09/08/2008 1520
720-15866-3	MW-03-W	Water	09/08/2008 1310	09/08/2008 1520

Client: Stantec Consulting Corp.

Job Number: 720-15866-1

Client Sample ID:

MW-01-W

Lab Sample ID:

720-15866-1

Client Matrix:

Water

Date Sampled:

09/08/2008 1340

Date Received:

09/08/2008 1520

8260B Volatile Organic Compounds by GC/MS (Low Level)

Method:

Analysis Batch: 720-41068

Instrument ID:

Varian 3900F

Preparation:

8260B 5030B

Lab File ID:

c:\saturnws\data\200809\09

Dilution:

1.0

Initial Weight/Volume:

40 mL

Date Analyzed: Date Prepared:

09/10/2008 1149 09/10/2008 1149 Final Weight/Volume:

40 mL

Date	repared.	03/10/2000	1173

Analyte	Result (ug/L)	Qualifier	RL
Methyl tert-butyl ether	ND		5.0
Acetone	ND		50
Benzene	ND		0.50
Dichlorobromomethane	ND		0.50
Bromobenzene	ND		1.0
Chlorobromomethane	ND		1.0
Bromoform	ND		1.0
Bromomethane	ND		1.0
2-Butanone (MEK)	ND		50
n-Butylbenzene	ND		1.0
sec-Butylbenzene	ND		1.0
tert-Butylbenzene	ND		1.0
Carbon disulfide	ND		5.0
Carbon tetrachloride	ND		0.50
Chlorobenzene	ND		0.50
Chloroethane	ND		1.0
Chloroform	ND		1.0
Chloromethane	ND		1.0
2-Chlorotoluene	ND		0.50
4-Chlorotoluene	ND		0.50
Chlorodibromomethane	ND		0.50
1,2-Dichlorobenzene	ND		0.50
1,3-Dichlorobenzene	ND		0.50
1,4-Dichlorobenzene	ND		0.50
1,3-Dichloropropane	ND		1.0
1,1-Dichloropropene	ND		0.50
1,2-Dibromo-3-Chloropropane	ND		1.0
Ethylene Dibromide	ND		0.50
Dibromomethane	ND		0.50
Dichlorodifluoromethane	ND		0.50
1,1-Dichloroethane	ND		0.50
1,2-Dichloroethane	ND		0.50
1,1-Dichloroethene	ND		0.50
cis-1,2-Dichloroethene	ND		0.50
trans-1,2-Dichloroethene	ND		0.50
1,2-Dichloropropane	ND		0.50
cis-1,3-Dichloropropene	ND		0.50
trans-1,3-Dichloropropene	ND		0.50
Ethylbenzene	ND		0.50
Hexachlorobutadiene	ND		1.0
2-Hexanone	ND		50
Isopropylbenzene	ND		0.50
4-Isopropyltoluene	ND		1.0
Methylene Chloride	ND		5.0
wetrylene Chloride	ND		5.0

Client: Stantec Consulting Corp.

Job Number: 720-15866-1

Client Sample ID:

MW-01-W

Lab Sample ID:

720-15866-1

Client Matrix:

Water

Date Sampled:

09/08/2008 1340

Date Received: 09/08/2008 1520

8260B Volatile Organic Compounds by GC/MS (Low Level)

Method:

8260B

Instrument ID: Varian 3900F

Preparation:

5030B

Analysis Batch: 720-41068

Lab File ID:

c:\saturnws\data\200809\09

Dilution:

1.0

Initial Weight/Volume:

40 mL

Date Analyzed:

09/10/2008 1149

Final Weight/Volume:

40 mL

Date Prepared:

09/10/2008 1149

Analyte	Result (ug/L)	Qualifier	RL
4-Methyl-2-pentanone (MIBK)	ND		50
Naphthalene	ND		1.0
N-Propylbenzene	ND		1.0
Styrene	ND		0.50
1,1,1,2-Tetrachloroethane	ND		0.50
1,1,2,2-Tetrachloroethane	ND		0.50
Tetrachloroethene	ND		0.50
Toluene	ND		0.50
1,2,3-Trichlorobenzene	ND		1.0
1,2,4-Trichlorobenzene	ND		1.0
1,1,1-Trichloroethane	ND		0.50
1,1,2-Trichloroethane	ND		0.50
Trichloroethene	ND		0.50
Trichlorofluoromethane	ND		1.0
1,2,3-Trichloropropane	ND		0.50
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		0.50
1,2,4-Trimethylbenzene	ND		0.50
1,3,5-Trimethylbenzene	ND		0.50
Vinyl acetate	ND		50
Vinyl chloride	ND		0.50
Xylenes, Total	ND		1.0
2,2-Dichloropropane	ND		0.50
Surrogate	%Rec		Acceptance Limits
4-Bromofluorobenzene	101		74 - 131
1,2-Dichloroethane-d4 (Surr)	104		88 - 119
Toluene-d8 (Surr)	105		82 - 120

Client: Stantec Consulting Corp.

Job Number: 720-15866-1

Client Sample ID:

MW-02-W

Lab Sample ID:

720-15866-2

Client Matrix:

Water

Date Sampled:

09/08/2008 1415

Date Received:

09/08/2008 1520

8260B Volatile Organic Compounds by GC/MS (Low Level)

Method:

8260B

Instrument ID:

Varian 3900F

Preparation:

5030B

Analysis Batch: 720-41068

Lab File ID:

c:\saturnws\data\200809\09

Dilution:

1.0

Lab File

Initial Weight/Volume:

40 mL

Date Analyzed:

09/10/2008 1544

Final Weight/Volume:

40 mL

09/10/2008 1544

Analyte	Result (ug/L)	Qualifier	RL
Methyl tert-butyl ether	ND		5.0
Acetone	ND		50
Benzene	ND		0.50
Dichlorobromomethane	ND		0.50
Bromobenzene	ND		1.0
Chlorobromomethane	ND		1.0
Bromoform	ND		1.0
Bromomethane	ND		1.0
2-Butanone (MEK)	ND		50
n-Butylbenzene	1.1		1.0
sec-Butylbenzene	1.2		1.0
tert-Butylbenzene	ND		1.0
Carbon disulfide	ND		5.0
Carbon tetrachloride	ND		0.50
Chlorobenzene	ND		0.50
Chloroethane	ND		1.0
Chloroform	ND		1.0
Chloromethane	ND		1.0
2-Chlorotoluene	ND		0.50
4-Chlorotoluene	ND		0.50
Chlorodibromomethane	ND		0.50
1,2-Dichlorobenzene	ND		0.50
1,3-Dichlorobenzene	ND		0.50
1,4-Dichlorobenzene	ND		0.50
1,3-Dichloropropane	ND		1.0
1,1-Dichloropropene	ND		0.50
1,2-Dibromo-3-Chloropropane	ND		1.0
Ethylene Dibromide	ND		0.50
Dibromomethane	ND		0.50
Dichlorodifluoromethane	ND		0.50
1,1-Dichloroethane	ND		0.50
1,2-Dichloroethane	ND		0.50
1,1-Dichloroethene	ND		0.50
cis-1,2-Dichloroethene	ND		0.50
trans-1,2-Dichloroethene	ND		0.50
1,2-Dichloropropane	ND		0.50
cis-1,3-Dichloropropene	ND		0.50
trans-1,3-Dichloropropene	ND		0.50
Ethylbenzene	ND		0.50
Hexachlorobutadiene	ND		1.0
2-Hexanone	ND		50
Isopropylbenzene	ND		0.50
4-Isopropyltoluene	ND		1.0
Methylene Chloride	ND		5.0

Client: Stantec Consulting Corp.

Job Number: 720-15866-1

Client Sample ID:

MW-02-W

Lab Sample ID:

720-15866-2

Client Matrix: Water

Date Sampled:

09/08/2008 1415

Date Received:

09/08/2008 1520

8260B Volatile Organic Compounds by GC/MS (Low Level)

Method:

Analysis Batch: 720-41068

Instrument ID:

Varian 3900F

82 - 120

Preparation:

8260B 5030B

Lab File ID:

c:\saturnws\data\200809\09

Dilution:

1.0

Initial Weight/Volume:

40 mL

Date Analyzed:

09/10/2008 1544

Final Weight/Volume:

40 mL

Date Prepared:

09/10/2008 1544

Analyte	Result (ug/L)	Qualifier	RL
4-Methyl-2-pentanone (MIBK)	ND		50
Naphthalene	ND		1.0
N-Propylbenzene	ND		1.0
Styrene	ND		0.50
1,1,1,2-Tetrachloroethane	ND		0.50
1,1,2,2-Tetrachloroethane	ND		0.50
Tetrachloroethene	ND		0.50
Toluene	ND		0.50
1,2,3-Trichlorobenzene	ND		1.0
1,2,4-Trichlorobenzene	ND		1.0
1,1,1-Trichloroethane	ND		0.50
1,1,2-Trichloroethane	ND		0.50
Trichloroethene	ND		0.50
Trichlorofluoromethane	ND		1.0
1,2,3-Trichloropropane	ND		0.50
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		0.50
1,2,4-Trimethylbenzene	ND		0.50
1,3,5-Trimethylbenzene	ND		0.50
Vinyl acetate	ND		50
Vinyl chloride	ND		0.50
Xylenes, Total	ND		1.0
2,2-Dichloropropane	ND		0.50
Surrogate	%Rec		Acceptance Limits
4-Bromofluorobenzene	101		74 - 131
1,2-Dichloroethane-d4 (Surr)	101		88 - 119

101

Toluene-d8 (Surr)