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Engineers & Scientists

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13 September 2002

Mr. Ronald Timm Hydrogeologist Northwest Region, Toxic Cleanup Section Washington State Department of Ecology 3190 160th Avenue, SE Bellevue, Washington 98008

Subject:

Groundwater Quality Evaluation Results

The Shops at First Street Site

Bellevue, Washington

K/J 026050.00

Dear Mr. Timm:

Kennedy/Jenks Consultants is pleased to present this letter report on behalf of The Benenson Bellevue Associates, LLP (Benenson) located in New York, New York. This report contains the results and findings of groundwater sampling and monitoring activities conducted at the subject site located at 110 108th Avenue NE, Bellevue, Washington (site). This information is provided to the Washington State Department of Ecology (Ecology) to facilitate discussions regarding the activities needed to achieve a no further action at this site.

BACKGROUND

Tetrachloroethene (PCE) was discovered in soil at the site during redevelopment work conducted in 1994. Presence of PCE in soil was attributed to operation of a former dry cleaning business. Following detection, PCE-impacted soil underlying the area of the former dry cleaning business was excavated to a depth of 15 feet below ground surface (bgs) for offsite disposal (the "Phase I" excavation area). Kennedy/Jenks Consultants conducted soil sampling activities in 1994 during redevelopment and subsequent remedial investigation (RI). The collected data indicated that PCE was present in soil below the Phase I excavation area and in soil surrounding and beneath a stormwater sewer manhole located in the southeastern area of the site. Figure 1 provides a site location and vicinity map. Figure 2 shows the locations of site buildings and the manhole.

In response to Ecology's request, Kennedy/Jenks Consultants installed three groundwater monitoring wells, MW-1, MW-2, and MW-3, at the site in May 2002 to evaluate 1) the presence of PCE in groundwater beneath the Phase I and manhole areas and 2) the depth to water table and direction of groundwater flow. The field activities were conducted in accordance with a plan of work that was discussed with and approved by Ecology in January 2002.

Additional information, data, and detail regarding the environmental conditions at the site and previous investigative activities are included in the RI/FS report submitted to Ecology by Kennedy/Jenks Consultants in November of 1994.

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OBJECTIVES

Mr. Ronald Timm

The specific objectives of the groundwater evaluation activities are as follows:

- Complete a limited investigation of groundwater conditions beneath the site for the presence of volatile organic compounds (VOCs) such as PCE and degradation products.
- Evaluate the groundwater flow direction and gradient beneath the site.

FIELD METHODS

Investigative field methods are summarized below.

Drilling and Installation of Groundwater Monitoring Wells

Prior to field activities, the One Call Center was notified of the proposed drilling activities to clear the drilling locations for underground utilities. Additionally, a private utility locating service was contracted to clear each of the proposed boring locations.

Wells MW-1, MW-2, and MW-3 were advanced at the locations shown on Figure 2 during the week of 13 May 2002. Wells MW-1 and MW-3 were advanced to a depth of 115 feet bgs and MW-2 was advanced to 110 feet bgs. The borings were advanced using a hollow-stem auger drilling equipment operated by Cascade Drilling, Inc. located in Woodinville, Washington. Soils encountered during drilling were described in accordance with the Standard Practice for Description and Identification of Soils (ASTM D-2488-93). Soil samples were obtained from the borings of each well at every 5 feet and were field screened for VOCs using a Century Organic Vapor Analyzer (OVA). The lithology descriptions and OVA readings were recorded on boring logs. The monitoring wells were installed using 2-inch polyvinyl chloride (PVC) casing and well screen. Each well was constructed with 15 feet of well screen that spanned the depth at which groundwater was encountered during drilling. The well screen depth intervals are summarized in Table 1. A copy of the boring logs and well construction schematics is included in Appendix A.

Upon installation, each well was developed using a submersible Grundfos® pump and a bailer. Each well was developed until relatively sediment-free water was produced and/or a minimum of 7 well casing volumes were removed. During development, the groundwater parameters of pH, specific conductance (EC), temperature, and turbidity (visual observation) were observed and recorded in a well development log. A copy of the well development logs is included in Appendix B.

The wells were surveyed by a State of Washington licensed land surveyor (Earth Tech) on 31 May 2002. The top of the casing elevation and horizontal position of each well was surveyed to the City of Bellevue benchmark 373R located at the intersection of Main Street and 108th Avenue NE. The top of the casing elevations were surveyed to the nearest 1/100 of a foot. The top of the casing elevations are summarized in Table 1.

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Groundwater Level Monitoring and Sampling

Monitoring and sampling activities were conducted following well development on 22 and 31 May 2002 and again on 18 June 2002. Depth to groundwater was measured on 22 and 31 May 2002 and on 18 June 2002 using an electronic water level indicator. Groundwater samples were collected on 22 May 2002 and on 18 June 2002. The June sampling was conducted to confirm the 22 May 2002 results. Wells were purged prior to sampling and the values of field parameters, including EC, temperature, and pH were recorded during purging. Groundwater samples were collected when values of temperature stabilized to within 2 degrees Centigrade and values of pH and EC stabilized to within 10 percent between two consecutive measurements. Groundwater purge and sample forms are provided in Appendix C.

The groundwater samples were stored on ice in coolers and transported to Analytical Resources, Incorporated (ARI) laboratories located in Tukwila, Washington under chain-of-custody protocols. The collected samples were analyzed for VOCs by EPA Method 8260B. Additionally, the samples collected on 22 May 2002 were analyzed for vinyl chloride by EPA Method 8260 SIMM.

RESULTS AND FINDINGS

This section presents a summary of the lithology encountered during drilling and presents the results of the groundwater monitoring and sampling events.

Lithology

The lithology encountered during the drilling of MW-1, MW-2, and MW-3 consisted primarily of interbedded dense silt, sandy silt, and silty sand with varying percentages of gravel (glacial till). A significant gravel zone (approximately 15 feet thick) was encountered in MW-1 at a depth of approximately 45 feet bgs.

Hydrogeology

Groundwater was encountered during drilling at depths ranging from 94 feet bgs in MW-3 to 106 feet bgs in MW-1 in a fine-to-medium sand zone. The groundwater elevation on 22 May 2002 ranged from 50.25 feet in MW-1 [or 103.65 feet below top of casing (TOC)] to 35.55 feet in MW-3 (109.31 feet below TOC). The groundwater elevations on 31 May 2002 and 18 June 2002 were similar in each well and ranged (on 18 June) from 50.46 feet (MW-1) to 49.98 feet (MW-3). The water levels in wells MW-2 and MW-3 rose by approximately 6 and 14 feet, respectively, between the 22 and 31 May 2002 monitoring events. The 18 June 2002 water level in well MW-3 was approximately 10 feet above the top of screen. Water level measurements are listed in Table 1.

The groundwater flow direction was to the south-southwest during the 31 May 2002 and 18 June 2002 sampling events with calculated hydraulic gradients of 0.003 feet/foot (ft/ft) and 0.002 ft/ft, respectively. Based on the water level data, well MW-1 represents groundwater

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conditions upgradient of the site. Well MW-2 appears to be cross-gradient of the manhole and MW-3 downgradient of the Phase I soil removal area.

Groundwater Quality Results

The laboratory analytical results are presented in Table 1 and summarized below. Laboratory analytical reports and chain-of-custody forms are included as Appendix D.

- PCE was detected in MW-2 and MW-3 at levels of 19 and 99 micrograms per liter (μg/l) during the 22 May 2002 sampling events. The groundwater samples collected from these two wells on 18 June 2002 contained PCE at concentrations of 21 and 51 μg/l, respectively. The detected concentrations exceed Ecology's Model Toxic Control Act (MTCA) Method A PCE cleanup level for potable groundwater of 5 μg/l. PCE was not detected in the upgradient well MW-1.
- The sample collected from well MW-3 contained 0.4 and 0.3 μg/l of trichloroethene (TCE) during the 22 May and 18 June 2002 sampling events, respectively. TCE was not detected in the other two wells.
- Vinyl chloride was not detected above the detection limit of 0.02 µg/l in the samples collected from the monitoring wells during the 22 May 2002 sampling events. The samples collected on 18 June 2002 were not analyzed using the EPA Method 8260 SIM.
- Relatively low concentrations of other VOCs, including acetone, chloromethane, 1,1-dichloroethene, and chloroform were detected during both sampling events in wells MW-2 and MW-3 as well, as in the upgradient well MW-1. Of these VOCs, acetone was the compound detected at the highest concentration of 2.7 μg/l detected in well MW-3 in 18 June 2002.

Please call Said Amali at (503) 295-4911 if you have any questions regarding the content of this letter report.

Very truly yours,

KENNEDY/JENKS CONSULTANTS

Said Amali, Ph.D., P.E.

Project Manager

Attachments

cc: Mr. Leonard Kreppel, The Benenson Capital Company, New York, New York (with attachments)

Ms. Beth Ginsberg, Stoel Rives, Seattle, Washington (with attachments)

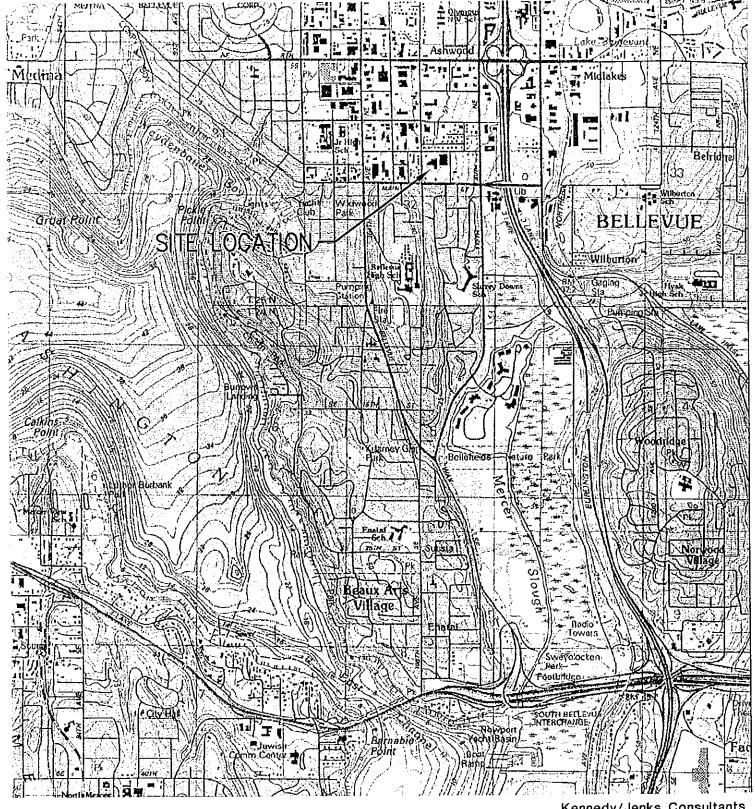
Table

TABLE 1 Groundwater Investigation Data Summary The Shops at First Street Site Bellevue, Washington

									_			
Parameter	Well											
T diditions.		MW-1		<u></u>	MW-2		MW-3					
Date:	5/22/2002	5/22/2002 5/31/2002 6/18/2002			5/31/2002	6/18/2002	5/22/2002	5/31/2002	6/18/2002			
Top of Casing Elevation (feet												
MSL) ^b	153.90	153.90	153.90	150.04	150.04	150.04	144.86	144.86	144.86			
Depth to Groundwater (feet					ļ							
MSL) ^(b)	103.65	103.56	103.44	106.13	100.25	100.07	109.31	95.02	94.88			
Groundwater Elevation (feet)	50.25	50.34	50.46	43.91	49.79	49.97	35.55	49.84	49.98			
Well Screen Interval (feet) ^c	100-115	100-115	100-115	95-110	95-110	95-110	105-115	105-115	105-115			
Volatile Organic Compounds	^{a)} (μg/l) ^(e)	<u> </u>	<u></u>									
Acetone	<1.8 ^(f)	NS ^(g)	1.6	<2.9 (<30)	NS	1.8 (<3.0)	<1.0 (<20)	NS	2.7 (<10)			
Chloromethane	<0.2	NS	<0.2	0.2 ^(h) (<0.6)	NS	<0.2 (<0.6)	0.5 (<4.0)	NS	<0.5 (<2.0)			
1,1-Dichloroethene	<0.020	NS	<0.2	<0.020	NS	<0.2 (<0.6)	0.047	NS	<0.2 (<2.0)			
Chloroform	<0.2	NS	<0.2	<0.2 (<0.6)	NS	<0.2 (<0.6)	0.4 (<4.0)	NS	<0.2 (<2.0)			
Trichloroethene	<0.2	NS	<0.2	<0.2 (<0.6)	NS	<0.2 (<0.6)	0.4 (4.0)	NS_	<0.3 (<2.0)			
Tetrachlorethene	<0.2	NS	<0.2	18 ⁽ⁱ⁾ (19)	NS	25 ⁽ⁱ⁾ (21)	66 ⁽ⁱ⁾ (99)	NS	52 ⁽ⁱ⁾ (51)			
Vinyl Chloride	<0.02	NS	NA ^(g)	<0.02	NS	NA	<0.02	NS	NA			

- (a) State of Washington Department of Ecology Model Toxics Control Act Method A Cleanup Levels for Potable Groundwater, February 2001.
- (b) Feet above mean sea level. Survey, conducted 31 May 2002, based on City of Bellevue B.M. 373R, top of monument in case at the intersection of Main St. and 108th Avenue NE, elevation = 132.95 feet.
- (c) Well screen interval is in feet below ground surface.
- (d) Analysis conducted by EPA Method 8260B except vinyl chloride and 1,1-dichloroethene were analyzed using EPS Method 8260 SIM. Concentrations in parenthesis represent results after dilution.
- (e) µg/l = micrograms per liter.
- (f) < = analyte not detected above the laboratory reporting limit.
- (g) NS = Not sampled, NA = Not sampled.
- (h) Indicates an estimated value of analyte found and confirmed by analyst but with low spectoral match (GC/MS).
- (i) Indicates a value above the linear range of the detector. Sample dilution required.

Figures

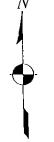




APPROXIMATE SCALE IN FEET 1 CENTIMETER ON THE MAP REPRESENTS 250 METERS ON THE GROUND CONTOUR INTERVAL 5 METERS

REFERENCE: USGS 7.5' TOPOGRAPHIC QUADRANGLE

BELLEVUE SOUTH, 1983.



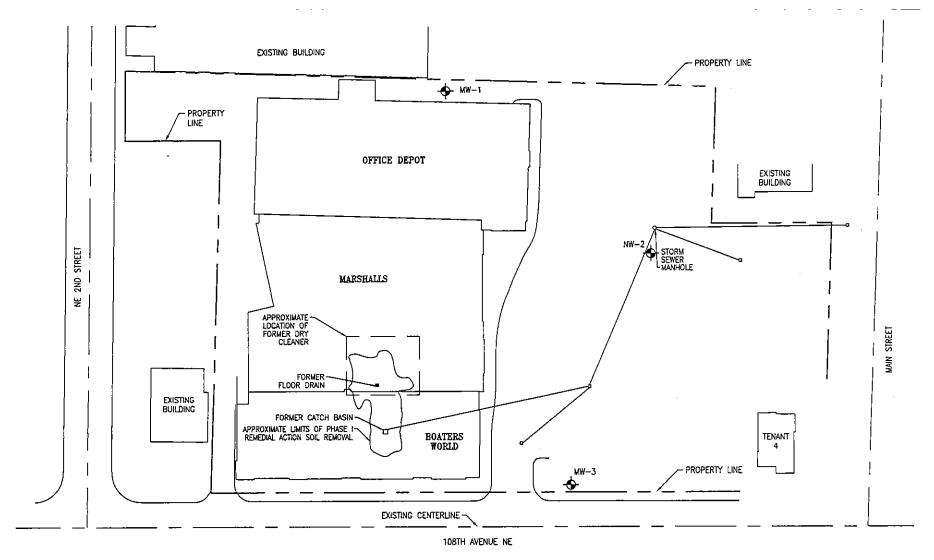
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BENENSON CAPITAL COMPANY BELLEVUE, WA

SITE LOCATION MAP

K/J 946059.00/P02SK001

FIGURE 1





Kennedy/Jenks Consultants

BENENSON CAPITAL COMPANY BELLEVUE, WA

GROUNDWATER MONITORING WELL LOCATIONS

K/J 946059.00/P02SK002

FIGURE 2

LEGEND:

→MW-

GROUNDWATER MONITORING WELL LOCATION

Appendix A

Boring Logs and Well Construction Schematics

BORING LOCATION A /	. \-	4011		
DRILLING COMPANY	DRILLER A	Boring/Well Name MW-		
DRILLING METHOD (8) 1/ 5 \	DRILL BIT (S) SIZE:	Project Name Renewson		
<i>f</i> 1 2/7	<u>ا</u>	Project Number		
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BLANKCASING TULE OF THE TOTAL STATE OF THE S	FROM (00 TO / 15 FT.	DATE STARTED 15 07 DATE COMPLETED 5/15/07		
PERFORATED CASING	FROM TO FT.	STATIC WATER ELEVATION		
SIZE AND TYPE OF FILTER PACK #2/12 Montrey Sand	FROM 98 TO 115 FT.	LOGGED BY () K VV		
SEAL Pure Gold Dentonite Chips	FHOM 9 198	SAMPLING METHODS WELL COMPLETION		
GROUT CONCICTE	FROM O TO FT.	SPAT Spoon Stand PIPE FT.		
SAMPLES WELL CONSTRUCTION	LISON	SAMPLE DESCRIPTION and DRILLING REMARKS		
Type Recovery Ponetration No. (Feet) (Feet)	USCA Lithology Color	SAMPLE DESCRIPTION and DRILLING REMARKS		
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	- Internal Community	sourcet andier in		
		brn F5/ilt natsix w/10-20%. F6/MG. No odor. dry. Somewhat Sandier in Top 1/2 of sample		
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	1	(Hbrn, sttlfs matrix w		
		20-2540 FG/MG. No oder.		
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	0.3	chare, hard, SI+ maist 60/40 s. IHFF malex, 10-70%.		
]0.7	Foling. No odor. 1+ 6 M.		
1	1 1 1	111 1 1		
	0.3	gray to bon, dense, hard,		
[[gray to bon, dense, hard, SIt. Moist 15/sitt matrix W/15-258-FF/MO. Nooder.		
	1 1 1	W/15-52% + 6/MO. NOOKOT.		
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	4 1 1 +			
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IZE AND TYPE OF FILTER PACK				FROM		TO FT.		LOGGED BY		
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ROUT			:	FROM		TO	FT.	1	SURFACE HOUSING STAND PIPEF	
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			\ .		14				Ļ	70-30%	Travel, 40% sider	
ļ					$4 \cdot 11$	4		İ	}	70-35%	HAND	
-	1	1,-		175-24	4 11	ļ.,			-			
1	10.5	62	25	175-24 9:50 005pl.+	1 M	13.4			-		•	
ŀ				NUSPIT	4 1.1	-	1	1	7		•	
ŀ			1	- , [/1 1 1	4	ļ		-		-0 12 0	
ŀ				 	1-4-	 	<u> </u>	J		10-20% FG	MF GAN 50-60%	
ŀ	1	= 6 C		135-29	TII	17/	1		}	Fs tms,	JAF 100 W 50-60% SOME SILT. 11-MOIST. NO OCH	
}	 * *	十 " "	30	10:00	4 /	30	′	1	ŀ	herd, s	14-WO/71-10006	
}				i	/ //	1	1		 			
-				 	`	1			+	It bon !	70-25% STAUN =10%	
ŀ		1		1 1	4 Y L	1, 1]	1	+	((()	= 35% FS ±MS,	
ŀ	1.4	T50		35-34	<i>a</i> 41	41.1	.]	1	}	764	20-25% 95avd, 40% = 15% F5 ±m5, 15e, No odor	
ŀ	+**-	+	刄	۱ (۵.۵)	1 1 1			1	L _	G(v	- 1 . 0 . 0 . 0	

SHEET____OF____

	LOCATION			Nest of		1					B5/MWZ	
DAILLIN	G COMPAN		· .	DES OF	/ 1\	(DRILLER	<u> </u>	_	Boring/Well Name Project Name	Renew Salan	
DRILLIN	G METHOD	(S)					DRILL BI	T (S) SIZE:		į.	SCHOOL SOL	
ISOLĂTIC	ON CASING	<u> </u>					FROM	OI .	F	Project Number ELEVATION AND DATUM TOTAL DEPTH		
BLANK (CASING						FROM	fo	- 1	T. DATE STARTED	DATE COMPLETED	
PERFOR	ATED CASI	NG		 -			FROM	то	- -	ਜ	DATE COMPLETED	
	IZE AND TYPE OF FILTER PACK				FROM	то		STATIC WATER ELEVATION				
SEAL							FROM	то		LOGGED BY		
GROUT				<u></u>			FROM	TO	 (SAMPLING METHODS FT.	WELL COMPLETION SURFACE HOUSING	
	SAMPLES	_		WELL CONSTR	LICTION		. 				STAND PIPEFT.	
Type No.	Recovery	Peneration Resist	Cepth (Feet)	WELL CONSTR	CHON		SONT	Lithology Co	olor	SAMPLE DESCRIPTION	and DRILLING REMARKS	
<u> </u>	(1-1-1)	(Blows/6 n.)	72		П	T	30,2					
	105		40-	B5-39 10:15			2.3			,	0-70% & FS/SIH WAG +0 MG. + 0 Nd. dry	
	705	50	50)——	1		2.3		-	(dense bond.	25% FG, 1, 225% FS± MS. 25-35% F6/MG, Malsix ± MS, More silt than	
	10.5	60	2)			1	1,3			-(I+ brn, 27 No (I+ brn, den	on silt, 25:309 stavel, t MS, hard, odar, dry	
	70.5		60		1		1.2		-		ofrix = even (+ ms) slt moist, 25-30% 0-45% silt, 25-30%	
- - - -	1 212	60	65				4.6				51) moist 30- 16, 10-20% FSIMS, 8 511. No odon	
ŀ	10:	5	70	1)			0.6		Į.			

SHEET___OF___

Boring & Well Construction Log				1	0 -1	
BORING LOCATION (15 West of MH				Boring/Well Name 55/MW-2		
DRILLING COMPANY	DRILLE	R		Project Name Renenson		
DRILLING METHOD (S)	DRILL	BIT (S) SIZE:		Project Number		
ISOLATION CASING	FROM		10 FI	ELEVATION AND DATUM	TOTAL DEPTH	
BLANK CASING	FROM		TO FT	DATÉ STARTED	DATE COMPLETED	
PERFORATED CASING	FROM		10 F1	STATIC WATER ELEVATION		
SIZE AND TYPE OF FILTER PACK	FROM		TO FT	LOGGED BY		
SEAL	FAOM		TO FT	₫	WELL COMPLETION	
GROUT	FROM	• -	TO FT		☐ SURFACE HOUSING	
		 .		<u> </u>	STAND PIPEFT.	
SAMPLES Type Recovery Peneuration (Feet) Peneuration (Feet)	USCS Log	Lithology	Color	SAMPLE DESCRIPTION :	and DRILLING REMARKS	
No. (Feel) (Boxs6 n.)		 		<u> </u>		
- 1	1 +			500 [AA E]L 10	11-358 FUM	
-		1 1	<u> </u>	9 PM, 317 M	oist, 30-358 F6/MI S, Silt-No oddr.	
				Dense	16/FG, 45-50% some silt(5-15%)	
105 50	1 6:3	`\`		الم وكان من لدي	ACKE UZZON	
		1 1	 		CAMP C: 1+15-15%	
	/	1		اماء و داور	2000 2011 (2 1210)	
-			-			
-	74	1	}	/ It brn. "tex	tural lavering"	
	0.3	5	<u> </u>	FSIMS W	/US & wavel ± 51 1	
100 60			_	5, ma (a 5) 144 5	and Fund silt	
	4			Dend F 1 C	- 1/11/2 /- 11	
	[/]	7-	. \	(Fine)	AIN/(IMZ)W/SIT	
		1'	-	\ ST+. Moist	thiral layering" 140% gravel ± silt and sand silt and (this) w/silt in odor	
	0.5	=	-		, , , , , ,	
10550	/ /'`		-	-/ Hbm, sit in	nst, dense, hard	
	ľ l	ļ		10-15% FS.	nst, Jense, hard 35-40% FG/116 odor-Till-	
	[4]	1		\<\1.1+ 12	o odor. Till.	
		1	ļ	211170		
	10.6	1		Clarall M	loist, no oder	
50 00 /		~- 				
1 1 10 10	KI 1		[]	~\ ms/F5=	:50% with	
	וש	1		48-45%	FG/MG (larser	
	1.]]			briken	FGIME (larget piccos in spoon some si It	
		_		(so);	20mc 21 17.	
10150 - 1	11 2.3			$\bigcap_{i=1}^{n} u_i$	1 4 10/10 4452	
1 1 1 1 1 1 1	<u> </u>			- 1 BAN, 517 MG	2 Felms: 10% 511+	
1 1-]-[-		1	50001 93°	a larger scatel clasts	
		1		Last's and	no odar, = 45% 7. FS/MS; 10% silt n larger gravel clasts	
	†			CLON ECT	511+ mailinx =709	
10550	0.	3		(b) 1 F>/	FEING =30%	
1 1 100-1	11 1°		1	3/1	SILT MAJETX =709 by?. FGIMG =30% oder sit. Majet	
].]	1	 	۲۰۰۰ مدیات / با ۱۱۵۱	tod' allett com	
			1 1938	in the Educa	fed; =45% state FS/Ms, 10% silt	
	11 1	,]		45%	יויב פוטון צודוף ו	
100 0	0.	`	 	- (
1 10 30 ms)	115	l	ΙĹ		· · · · · · · · · · · · · · · · · · ·	

Boring & Well Construction Log	Boring/Well Name BJMW-Z			
DRILLING COMPANY	DRILLER	Project Name Senenson		
DRILLING METHOD (S)	DRILL BIT (S) SIZE:			
ISOLATION CASING	FROM TO FT	Project Number		
BLANK CASING	FROM TO FT	1 1/0		
PERFORATED CASING	FROM TO FI	-d		
SIZE AND TYPE OF FILTER PACK	FROM TO FI			
SEAL	FROM TO FT	1		
GROUT	FROM TO F	T. SURFACE HOUSING		
	<u> </u>	STAND PIPEFT.		
SAMPLES WELL CONSTRUCTION Type Recovery Resist (Feel)	USCS Lithology Color	SAMPLE DESCRIPTION and DRILLING REMARKS		
No. (Feet) (Biosed o. 103	0.2	Some FS & Silt. Poorly grade 5-1070 at most &		

Borning of Iven Constitution 1-3				
BORINGLOCATION South of Boaters Wa	orld	Boring/Well Name MW-3		
DRILLING COMPANY CASCADE	DRILLER Brian	Project Name Senenson		
DRILLING METHOD (S) HSA	ORILL BIT (S) SIZE:	Project Number		
ISOLATION CASING	FROM FO	FT. ELEVATION AND DATUM TOTAL DEPTH		
BLANK CASING 20LED 40 PUC PIPE	FROM 0 10 5	DATE STARTED / 16/07 DATE COMPLETED		
PERFORATED CASING LCd 40 PUC D.010 Slo	FROM LOS TO // C	ET 3//9/00 3//000 \		
SIZE AND TYPE OF FILTER PACK, Lapis Custre HZ/12 Monerey Sand	FROM /0 3 TO // 5	FT. LOGGED BY OF W		
	FROM 8 TO 103	FT SAMPLING METHODS WELL COMPLETION		
GROUT C GOLD CENTINITE Chips	FROM () TO	FT. SPITSPORM STAND PIPE FT.		
SAMPLES WELL CONSTRUCTION				
Type Recovery Penetration (Feet)	Uses Lithology Calor	SAMPLE DESCRIPTION and DRILLING REMARKS		
No. (Feel) (Boxe/6 n.)	WA	above filter Fabric		
		above filler Febric		
	1 [•		
f] [^		
50 5	0.3	6rn, dense, 55-60% 511+, 15-20% FG/MG, ZU 25% FS, 0 SI+mcist, No odor.		
[10.5 50 5 7		(FG/MG, ZU 25% FS, 0		
	1 1 1	sitmeist, no odor.		
	4 1 1 +	-		
-		- (brn, dense, 10-159, FS, Zursze grovel, 60-70 silt, sit moist		
101 50 10	0.3	- Grandenie, wist sit must		
\ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \	7 1 1 1	no adal		
}	1 1 1			
P 1 1 1 1 1 1 1 1	1 1 1	16-11-15-15-15-10% FSTAS,		
	1-1-1-	25-35% FG/MG, 55-60% Jilt, N. odon, Stmist		
10.3 50 15)	-0.4	Silt, wodon, sitmist		
		6M. 25-35% FG/MG.		
		- (Drn, 25-35% FG/MG, = 50/50 DFSSilt matrix,		
105 55 20	-0.4	- Jobo on teromtiz		
0.5 25 (0)				
		<u></u>		
F 1 1 1 1 1 1 1 1		(1) some of the of them?		
15 65 25 Rickin Tip		(graver dlasts		
1 1 1 1		, short of		
}	1111			
	0.3	_ roy/Irn, dense, 21+ moist,		
0.3 60 30 1	 	=65.700 culler male		
] [=65-70% SIIt/FS Matei		
] [MI I Alma No odor		
]	-		
F-40.1		1 - 4		
(6-87) (3-88)		SHEETOF		

Boring & Well Construction Log				Min)= ?			
BORING LOCATION South of Roaders	ON I DRILLER	<u> </u>	Boring/Well Name	Boring/Well Name MW-3			
	DRILL BIT (S) SIZE:	Project Name				
DRILLING METHOD (S)		10 F	Project Number				
ISOLATION CASING	FROM		ELEVATION AND DATUM	TOTAL DEPTH			
BLANK CASING	FROM		DATE STARTED	DATE COMPLETED			
PERFORATED CASING	FROM	ŤO F	STATIC WATER ELEVATION	·			
SIZE AND TYPE OF FILTER PACK	FROM	TO F	T. LOGGED BY				
SEAL	FROM	TO F	T. SAMPLING METHODS	WELL COMPLETION			
GÁOUT	FROM	TO F	-	STAND PIPEFT.			
Type Recovery Penetration Resst (Feel). WELL CONSTRUCTION	USCS Lit	hology Color	SAMPLE DESCRIPTION	and DRILLING REMARKS			
No. (Feel) (Bows6 in > C	AVA.						
105 55	p. z		Grellen, dense Folsolt mad no oder	dry 65.70%			
			F3/311} may	rix/ w/ to,			
	1 4 1	1 -	N. 04.L	_			
	1 1						
1047040	10.1	1 + /	Scheralo briken	large clasts in spoor nd, dry, 50-35 -40% FS±MS,			
	┨╸ ┤╌╌┟┨╌		brn gray, ho	nd, dry, 30-35			
	11 1	1	FUMG. 235	-40% FS±MS			
}			= = ZU-75% Si	It. No rdor.			
		1 + (6	indictional dulling	-			
10.570 15)	5.0		brulsty, dense	, hard, =35% FG/MG;			
	1 1	1 +7	Matrix = 60% +5	140% S.IT +112 804/			
	1 1	1 1	Muist, 100	/409 silt ±Ms, sit '			
<u> </u>		· \	\ _ ///				
<u> </u>	مح	i }	118081 Jan 118	w dows co-70%			
30 50	1 100		7/1+/£1	y dense, 60-70% wetrix wifeline			
1.050-4	▎┤┤▕┌	- wdishmet	lower: stay	moist, Silt with			
		!	\ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \	time (save), 2014,			
k 1 1 1 1 1 1 1 1 1		!	dens	e.			
		1 +					
1055	- 0.	 	30-2 597	FGING, 35-40% 25-70% FS, Lense, throodor			
			Silt,	25-70% FS, Lense,			
	-	l }	had, si	to odor			
		-		•			
			Goullen he	end dense elt.			
10 60)	0.7		MOIST, C:	s-30% stavel,			
]		30-357	F5, 40-45% silt.			
	1141	-	noods	r.1			
		1					
1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	i		72/31 F3/31	It matrix w/25— ovel, dense, slimoist			
65	0.3	1 + 9	rad. 1 30% 91	over, even se, sit moist			
			b.t%: 30-3	TR gravel, Matrix 708 FS & 208 Si H.			
1	111 1	 	15 2	7,0% fs & 20% si H.			
 			St Mois	two oder			
				· ·			
[11 120-1	l L		•			

SHEET____OF__

BORING I			00 11	OF Boater's	4)	ind				Boring/Well Name _ M W - ∑		
	COMPAN	N I				Jonice Cit				Project Name		
DAILLING	METHOD) (S)				DRILL BIT	T (S) SIZE:			Project Number		
ISOLATIO	N CASINO	3				FROM		10	FT.	ELEVATION AND DATUM	TOTAL DEPTH	
BLANK C	ASING					FROM		ťΟ	FT.	DATE STARTED	DATE COMPLETED	
PERFORA	ATED CAS	ING		<u> </u>		FROM		то	FT.	STATIC WATER ELEVATION		
SIZE AND	IZE AND TYPE OF FILTER PACK						FROM TO			LOGGED BY		
EAL						FROM		ТО	FĪ.			
GROUT	SROUT							TO	FT.		SURFACE HOUSING STAND PIPEFT.	
	SAMPLES		Doolb	WELL CONSTRUCTION		USCS	T			0.1401 5 050001071011		
Type No.	Recovery (Feet)	Penetration Resist (Blows/6 A)	(Feet)			USCS	Lithology.	Color		SAMPLE DESCRIPTION	and DRILLING REMARKS	
	105	20	10		Π	ح .ت	i			Gray Den Dan	y dense, hard,	
- i		レノ	∤ <						[(TO-35% Group	1/FC/ME 40-459	
_]		TT				[\	1 5:14 25 A	(FC/ME), 40-45% 18 FS, 514. Moist	
	1		.		11.	<u> </u>			<u>.</u>	no oder.	, , , , , , , , , , , , , , , , , , , ,	
_	ļ	-	75			0.9			ļ.	<i>(</i> , , ,	1 - wast	
-	10:	20	` <i>'</i>)	44	<u> </u>			/	brnidense, h	thou the man	
-			-		11.	-			- (30-40% t	s/MG; Matrix	
-			-		11.	-			<u> </u>	15 = 60%;	511+ 40% FZ.	
-		l							-		•	
}	70.5	50	80			0.1			<u> </u>	/brn, denie,	hend, 30-40% 50% silt, 015-700 nodor +5.	
ŀ	-		-		11	1 1		-		(gravel; 2	50% silt 015-70	
ŀ	-		-			┪ ┃			-	51+ mist,	ni odor fs.	
†			,		11	1				C-1.	. 1	
				\		10.5			ļ,	100 600 ==0	-30% srevel 30.359 57, sit overall. Mayerins', large lense srey sit	
Ì	TOS] 20	82	1)	- -				[(SOME VASHE	Mayering /ense	
<u> </u>				[]	·]			['	16101, of G	leuse step silt	
]] !				IN file	3 of sample, clast	
					11				1			
1	1	1	RO]]]		0.6		ļ	-	(La amad	المراز ومراز	
ļ.	10.5	+)		25					_	רנחושוט, וייזט	, 15-20% gravel,	
ļ		<i> </i>			-11	4				10-13-2 5117	+S/MS remainder	
-					11	-	}	(1/-	comerha	Coalsens down	
-		1	\	, 11		1			£		14'(Perched?)	
}	7.5	\$50	95	1	- -	-0.3	ļ		F	277 7 77137) March, 30 23/2	
}	1-1-2	十)。	1	1/ ' / []		-		ļ	}	gravel 1	Natrix 10 50/50 F5	
ŀ			'	{		-		1	}			
ł		1		<u> </u>] [1	1	1	-		idense,	
ł				↑		0.2			‡-/	gray, cleuse, l	nord, wet around	
ŀ	1.5	\$ 50	, la	1	╌┼┼╌	-+>	1		1 1	edjet, but 1	OTINSIOC-MATTIX	
ŀ] ,		1,7		1		1	\	1015 61 VI	et inside - Matrix si zitt/fs) . F6/MG . Tor, A plate -	
t				1/		1			t		- mjn prinss	
ţ				1 - 11		1		1	-			
t] [[1		1				

SHEET____ OF___

BURING LOCATION S-JTL of Boater's	2)001	٨	Boring/Well Name	MW-3
DRILLING COMPANY	DRILLEF			
DRILLING METHOD (S)	DRILL 8	IT (S) SIZE:	Project Name	
ISOLATION CASING	FROM	TO	Project Number	TOTAL DEPTH
BLANK CASING	FROM	то	ELEVATION AND DATUM	
PERFORATED CASING	FROM	100-TO 11 F	DATE STARTED	DATE COMPLETED
	FROM	105 115	STATIC WATER ELEVATION	·
SIZE AND TYPE OF FILTER PACK			LOGGED BY	
SEAL	FROM	10	SAMPLING METHODS	WELL COMPLETION SURFACE HOUSING
GROUT	FROM	· TQ	FT,	STAND PIPEFT.
SAMPLES Depth WELL CONSTRUCTION	USSS	Lithology Color	SAMPLE DESCRIPTIO	ON and DRILLING REMARKS
Type Recovery Resist (Feet) (Feet) (Biossé n. / a	USCS Coq CV A		C	
(0)	0, ح		- sray, dense, h	and, sit moist, s in sampler, 130 silt/fs.
	1	! ! L	large clast	s in sampler,
f	[]		Montrix 70	/30 silt/fs.
	1 1			
]	F. L 405 (45	S - LATT TOLK
101 101	10.5		DUN 1/13 (34	is) N 5-10% FOLMS, It, Net OT in hole
	1 1		Some st	17, 001
	1 1		Water @ 11	ot in hale
	1 1	1 1 [•	
1 1 1 1				
105	10.9	[- bon M	54F5. 5-102F6
	 		2 0410	5±F5, 5-108+6,
	1 1		20010	and mel.
1	1 1	! T		
	1	1 1 1		
}	11	1 1 1		
	1 1	1 1 t	•	
	1 1	 		
}	1 1	1 1 1		
	1 -	1 1 1		
F	1 1	1 1 1		;
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<u> </u>	1 -	1 1 }		
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RESOURCE PROTECTION WELL REPORT

		Start Card # R 6/655
Client Well #	Capital Shops County: Ki	NG-
Project Name: Benenson State Identification # AHB	Location: 5w1/	4 NE1/4 Sec 3 2 Twn 25 NR 5E
State Identification	- Cu . A A dances a	of Well:
Drilling Method: HSA	100-108	AVENE, BEVEVUE
Driller: Brian G. Con	Water Level Ele	evation: <u>/02</u>
Firm: Cascade Drilling, Inc.	Ground Surface	e Elevation: <u>N/A</u>
Signature: Kenned	Date Installed:	3114/02
Representative: Dean A	<u> </u>	l: <u>V///}</u>
Representative:	2241	
AS-BUILT	. WELL DATA	FORMATION DESCRIPTION
1		\dot{i}
1		\mathbf{t}
	Well Cover	!
	- a c d-1	900
	Concrete Surface Seal	brown I gray silts, sands + gravels
	Depth =8/ft	from Igner silts sands + 1
	·	aravels
	Plant Cosing 2 " 95,	1
1 1 1 1 1 1	Blank Casing 2"_95' Material	95 - 110 A
		Brown Sand + grands
- 88	- Packfill RA ft	brown Sand + grands
	Backfill 86 ft Type: Nest. Usips	
	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	
	Seal	- <u>ft</u>
	Material	<u> </u>
		1
	·	I.
] .	1
		1
	107	<u>+</u>
' T	Gravel Pack	1
	Material: 2/12 5 imel	1
	Screen _2_"x/5_"	
	Slot Size Material	1
	Material	
		1
	Well Depth	1
T ////	Well Depui 110	1.
' ! <i>\///</i>	Backfill	!
	Material	
	Total Hole Depth	
	10101101020	
SCALE: 1" =	PAGEOF	

ECY 050-12 (Rev. 11/89)

RESOURCE PROTECTION WELL REPORT

	•	Start Card # R 6/655	
Project Name: Benenson	To wital Shaps County:	KING-	
State Identification # AHB	195 Location:	5w1/4 NE1/4 Sec 3 2 Twn 25NR 5E	
State Identification #		Ct t Addwood of Well!	
Orilling Method: HSA	100-	100-108th Ave NE. Bellevue	
Driller: Brian G. Goo	Water Le	vel Elevation: <u>/00</u>	
Firm: Cascade Drilling, Inc.	Ground S	urface Elevation: N/A	
Signature:	1 Glonks Date Inst	alled: <u>3/13/62</u>	
Representative: Dean N	1 7	eloped: <u>' </u>	
Representative	2241	<u> </u>	
AS-BUILT	WELL DATA	FORMATION DESCRIPTION	
7			
<u> </u>			
	Well Cover	1	
	- Concrete Surface Seal	0 - /O ft	
	Depth = A/ft	Brown / gray silts, sands	
- 88 1	a . 2 " MO),	
	— Blank Casing <u>2 " M</u> Material <u>PVC</u>	- 190 115 A	
	Material	Born sond + gravels +	
÷ 8 8 1	Dock 511 9 6 ft	Born sond + graces	
	—Backfill 90 ft Type: <u>bent Cup</u> s		
	Typepervir cup	1	
		- ft !	
	Material		
		· · · · · · · · · · · · · · · · · · ·	
		1	
	The suppose that the supplies in the		
		<u>'</u>	
		ft	
	Material: , 010		
	— Screen <u>2 "x 15"</u> Slot Size <u>, 070</u> Material ///	'	
	Slot Size	·	
	Material	-	
		1	
	— Well Depth <u>119</u> '	,,	
T ////	Well Depth	-	
	Doolefill	1	
· · · · · · · · · · · · · · · · · · ·	Backfill Material		
	Total Hole Depth		
	Total Hole Deput		
SCALE: 1" =	PAGEO	F	

ECY 050-12 (Rev. 11/89)

RESOURCE PROTECTION WELL REPORT

Client Well #		Start Card # R 6/655
Designt Name: Renewson	Capital Shops County: K	
State Identification # AHB	196 Location: 5W1/	1NG- 4 NE1/4 Sec 3 2 Twn25NR 5E
Drilling Method: HSA	Ct A d dwood	of Wall.
Driller: Brian 6. Go	oe 100-108	8th Ave NE, Bellevue
Firm: Cascade Drilling, Inc.	Water Level Ele	evation:
Signature:	Ground Surface	e Elevation: N/A
Consulting Firm: Kenned	Ly Wenks Date Installed:	5/16/02
Representative: Dean	Malte_ Date Developed	l: <u>No</u>
Kepresonius	2241	
AS-BUILT	WELL DATA	FORMATION DESCRIPTION
т —		
		i e
	Well Cover	1
		1
	Concrete Surface Seal	<u>0 - 75 ft</u> , 1
一	Depth = $\frac{7}{\text{ft}}$	browner citte sands +
		77/10/12
	— Blank Casing <u>2 "105'</u>	Brown 51/4s, sands + 1 gravels
	Material <u>Ne</u>	95 115 0
]	Brown such a grove T
T 8 8	Backfill 95 ft Type: but Chips	Brown such a grove
	Type: by t. Chros	/*
	2)Po. 10/211/	l Time Time Time Time Time Time Time Time
		- <u>f</u> t
	Material	 +
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		!
		ˈ
	Gravel Pack /2 ft / Material: 2712 5020	i i
	Material:	ļ : I
	2 2 2 10 1	
	— Screen <u>2</u> "x <u>/0</u> '	;
	Slot Size 000 Material PVC	÷
	Material _ / VC	1
' ¦ [4]		!
		·
' ' 	Well Depth	
	, , on 5 pm <u></u>]
	Backfill	1
	Material	:
	Total Hole Depth	
T	<u> </u>	14
SCALE: 1" =	PAGE OF	