APPENDIX D-2 DELINEATION INVESTIGATION

Page 15 of 18 Low Flow Purging and Sampling Guidance NEW JERSEY DEPARTMENTAL OF ENVIRONMENTAL PROTECTION

LOW FLOW SAMPLING

DATA SHEET

DATE: SITE: PID/FID READINGS (ppm): WELL PERMIT # MONITOR WELL # WEATHER: 1025 355 9:50 1630 10:35 1020 Dis 10:00 10:10 1005 54:9 TIME 4 * PURGING ~ ~ * 1 74 * * ~ SAMPLING 0 11.72 1.70 READING 305 PG: 11.72 11.72 0t:|| 1.53 E.H 11.69 11.69 11.66 11.70 200 2-0-13 (pH units) V A PI CHANGE* MN OI BACKGROUND **BENEATH INNER CAP:** BENEATH OUTER CAP 20224 NA Cie3 290 54.9 9.75 5200 READING 9.72 9.73 トたら 24.12 9:80 9.72 9.73 9.73 CONDUCTIVITY WELL DIAMETER: SPECIFIC (mS/cm) WELL DEPTH: CHANGE* Z -429 -420 -404 -363 -135 -436 ۲ -313 -287 -431 -353 READING 20 2 390 POTENTIAL REDOX CHANGE* inches NA DEPTH TO WATER BEFORE PUMP INSTALLATION : 3.41 ft below TOC PUMP INTAKE DEPTH: 6.5 It below TOC **CONSULTING FIRM:** FIELD PERSONNEL: READING 2t.0 0.78 0.82 0,89 0.4 St.0 0.93 0.97 2.96 عاما و ا .22 DISSOLVED OXYGEN (mg/l) CHANGE* NA 25.4 0 c 0 READING ETPA 0.0 00 ぞん T 0.0 0.0 0,0 0 0.0 0.0 SCREENED/OPEN INTERVAL: TURBIDITY (UTV) 1 EST CHANGE* Š 4.80 4-78 4.67 READING 4.66 4.60 4.69 4.83 £8.H したい トキ 5.18 TEMPERATURE (degrees C) CHANGE" 5-10 Z ゴー PUMPING 0.5 2.10 20 212 200 350 ての 210 012 (ml/min) 2 lo Z RATE 5 3.65 366 365 3 Ś 3.5 DEPTH TO St S 3 3 とすの (ft below **U** WATER TOC) 8 29 Ř . Ц よう

*INDICATOR PARAMETERS HAVE STABLIZED WHEN 3 CONSECUTIVE READINGS ARE WITHIN: ± 0.1 for pH; ± 3% for Specific Conductivity and Temperature; \pm 10 mv for Redox Potential; and \pm 10% for Dissolved Oxygen and Turbidity

COMMENTS:

Collected

sample at 1407

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[* INDICATOR PARAMETERS HAVE STABLIZED WHEN 3 CONSECUTIVE READINGS ARE WITHIN: \pm 0.1 for pH; \pm 3% for 3pecific Conductivity and Temperature; \pm 10 mv for Redox Potential; and \pm 10% for Dissolved Oxygen and Turbidity COMMENTS: Page 15 of 18 Low Flow Purging and Sampling Guidance SITE: NEW JERSEY DEPARTMENTAL OF ENVIRONMENTAL PROTECTION PID/FID READINGS (ppm): WELL PERMIT #: MONITOR WELL # DATE: WEATHER: 2021 1315 U S S 1345 1335 1330 325 13.20 TIME 540 Survive blue wat X \checkmark PURGING * SAMPLING 4 79 6.61 6.41 6.60 ь. 1-5.5 6.5% ç READING CHANGE* .6 4 لم لم GES MWCZ (pH units) 2/6/13 Clondy 063/065 P BACKGROUND: **BENEATH INNER CAP: BENEATH OUTER CAP:** NA 65 2.89 r 29,92 READING CHANGE* 2.70 いい 2,98 2.91 ちょう 25 . م CONDUCTIVITY WELL DIAMETER: SPECIFIC (mS/cm) WELL DEPTH: collect sample NA -158 -154 -135 ı 1-1--127 READING CHANGE* 나 - 120 6 5.7 POTENTIAL REDOX 0 inches N DEPTH TO WATER BEFORE PUMP INSTALLATION : 5.0 ft below TOC PUMP INTAKE DEPTH: 10:5 ft below TOC LOW FLOW SAMPLING DATA SHEET 1345 FIELD PERSONNEL: **CONSULTING FIRM:** 2.22 READING 2.30 2.40 2 М Ъ やふく 2.57 6.36 in Cy こう 5 DISSOLVED OXYGEN (mg/l) CHANGE* Š READING G Q Q 42.0 1.30 5.4 トー イリ 5.0 SCREENED/OPEN INTERVAL: C. C C TURBIDITY F. Kengmili (NTU) H, CHANGE* NA وب د ا -) T 80.6 READING 9.12 7.1-ېن. ۲.۵. かれて TEMPERATURE (degrees C) CHANGE* 7-12 NA PUMPING 400 (ml/min) RATE SHEET 5.53 5. JS セト・シ C ſ 6.00 ç 6.49 DEPTH TO (ft below WATER 1 1 3 TOC ч

NEW JERSEY DEPARTMENTAL OF ENVIRONMENTAL PROTECTION Low Flow Purging and Sampling Guidance Page 15 of 18

LOW FLOW SAMPLING

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							DA	DATA SHEET						SHEET	0
SITE: DATE:		2-6-13	-13 ITE 065	Ŭ				CONSULTING FIRM: FIELD PERSONNEL:	G FIRM:	TR	TECH				
WEATHER:		38°F	June.				1								
MONITOR WELL # WELL PERMIT #	WEL	₩.	063-HM03	WELL D	WELL DEPTH: WELL DIAMETER:	13' The	inches			SCREEN	SCREENED/OPEN INTERVAL:	TERVAL:	5-10	bg th	-
PID/FID RI	ÄDI	PID/FID READINGS (ppm):	BACKGROUND:				PUMP	PUMP INTAKE DEPTH: 10.58 ft below TOC	EPTH: 105	8 ft below	10C				
			BENEATH	BENEATH OUTER CAP:			DEPT	DEPTH TO WATER BEFORE PUMP INSTALLATION : $\frac{7.45}{2}$	R BEFORE I	PUMP INST.	ALLATION :	1.45 At	ft below TOC		
			BENEATH	BENEATH INNER CAP:											
			На	SPECIFIC	XIFIC CTIVITY	REDOX	DOX	DISSOLVED	GEN	TURB	TURBIDITY	TEMPERATURE	VATURE	DIMDING	DEPTH TO
	RGI MPL		(pH units)	(mS/cm)	(cm)	(mv)	IV)	(mg/l)	(1)	(V	(NTU)	(degra	(degrees C)	RATE	(ft below
TIME		READING	CHANGE*	READING	CHANGE*	READING	CHANGE*	READING	CHANGE*	READING	CHANGE*	READING	CHANGE*	(ml/min)	TOC)
1200	×	6.97	NA	ર્વ.49	NA	-82	NA	ist in	NA	25.6	NA	9.61	NA	250	8 10
1205	\times	6.91		3.96		-69		2.12		1.3		9.24		250	843
1210	*	6.88		4.19		-69		1.50		0,0		9.05		130	8.50
1215	*	6.88		4.23		- 70		1.44		0,0		9.06		230	8.55
1220	¥.	6.88		4.35		-73		1.26		0,0		9.03		150	8.50
1225	₽¢.	4, 88		4.39		-75		1.23		0,0		9.04		150	25'20
1230	¥.	88.9		4.41		-76		1.20		0,0		40'b		150	8.51
1235	*	6.88		4.43		tt-		4.18		0,0		9.05		150	8.51
						1									G
COMMENTS:		Sampled	A,	1425		- 180									
				١											

*INDICATOR PARAMETERS HAVE STABLIZED WHEN 3 CONSECUTIVE READINGS ARE WITHIN: ± 0.1 for pH; ± 3% for Specific Conductivity and Temperature; ± 10 mv for Redox Potential; and ± 10% for Dissolved Oxygen and Turbidity

Low Flow Purging and Sampling Guidance Page 15 of 18 NEW JERSEY DEPARTMENTAL OF ENVIRONMENTAL PROTECTION UAIA SHEEI

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SHEET / OF

SITE:	T	PPC- Life	3					CONSULTING FIRM:	G FIRM:	Total I	Tech				
DATE:		O	1 1				_	FIELD PERSONNEL:	ONNEL:	1 1					
WEATHER:		Sort, J	, Sumer / va	/vain, high	- buice up	4	1 1						2		
MONITOR WELL #	WEL	#	063-MM-4	WE	WELL DEPTH:	-10' bay				SCREEN	SCREENED/OPEN INTERVAL:	ITERVAL:	5-10	begs.	
WELL PERMIT #:	RMIT	#		WELL D	WELL DIAMETER:	2,	inches			-				(
PID/FID R	EADIN	PID/FID READINGS (ppm):	BACKGROUND:	UND:		ľ	PUMP	PUMP INTAKE DEPTH: 9,91	PTH: 9.9	tt below TOC	TOC				
			BENEATH	BENEATH OUTER CAP:			DEPT	DEPTH TO WATER BEFORE	R BEFORE I		ALLATION :	1:55 ft b	elow TOC		
			BENEATH	BENEATH INNER CAP:											
			E	SPECIFIC		REDOX	IOX I	DISSOLVED		1					DEPTH TO
	RGIN MPLI	pri (pH units)	nits)	(mS/cm)	(cm)	(mv)	V) V)	(mg/l)	g/1) g/1)	(NTU)	U)	(degrees C)	es C)	PUMPING RATE	WATER (ft below
TIME		READING	CHANGE*	READING	CHANGE*	READING	CHANGE*	READING	CHANGE*	READING	CHANGE*	READING	CHANGE*	(ml/min)	TOC)
850	\prec	tot	NA	6.32	· NA	, 00	NA	24.]	NA	52.3	NA	8.29	NA	8	of. jol
855	4	7.11		6.08		-10		1.30		33.4		12.F		100	14-01
900	\prec	7.11		6.27) - (lo		1-32		19.8		Sh'E		100	14.01
gos	۲	11		641		-19		1::34		2.0		50'E		18O	10:55
910	4	7.10		6-47		~20		1-29		0		763		1020	10.55
915	メ	7.10		6.46	2.0	-20		1.30		0 .0		7.63		102	55°a1
920	7	7.11		6-46		- 70		1.29		0.0		763		100	Ss. al
925	+	7.11		4)11:7		-20		(-29		0.0		1 2 3 2 3		100	10.55
930	7	=======================================		6:47		-20		1:30		0.0		7.63		100	10.55

*INDICATOR PARAMETERS HAVE STABLIZED WHEN 3 CONSECUTIVE READINGS ARE WITHIN: ± 0.1 for pH; ± 3% for Specific Conductivity and Temperature; \pm 10 mv for Redox Potential; and \pm 10% for Dissolved Oxygen and Turbidity

COMMENTS:

Sampled at 9:35

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LOW FLOW SAMPLING

*INDICATOR PARAMETERS HAVE STABLIZED WHEN 3 CONSECUTIVE READINGS ARE WITHIN: ± 0.1 for pH; ± 3% for Specific Conductivity and Temperature; ± 10 mv for Redox Potential; and ± 10% for Dissolved Oxygen and Turbidity

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							LOW	LOW FLOW SA DATA SHEET	SAMPLING ET	NG				SHEET	r OF]
SITE			1-3 Site	c 043/045	65			CONSULTING FI	G FIRM:	F. P.	haville				
DATE: WEATHER:	•••	5	SUNNY	(vid			, ,	FIELD FENJOIN		1.14					
MONITOR WELL	WEL	#			WELL DEPTH:	0				SCREEN	SCREENED/OPEN INTERVAL:	TERVAL:	5-10		
WELL PERMIT #:	RMIT			_ WELL D	WELL DIAMETER:	2	inches								
PID/FID R	EADII	PID/FID READINGS (ppm):	BACKGROUND:	UND:			PUMP	PUMP INTAKE DEPTH: 4.00	PTH: 4.0	t below TOC	TOC				
			BENEATH	BENEATH OUTER CAP:			DEPTI	DEPTH TO WATER BEFORE PUMP INSTALLATION : $\frac{4}{100}$	R BEFORE F	DUMP INST	ALLATION :	у. ¥-	ft below TOC		
	1					BEROV	Ž								
	GING		pH (pH units)	CONDUCTIVITY (mS/cm)	CTIVITY (cm)	POTENTIAL (mv)	v) v)	OXYGEN (mg/l)	XYGEN (mg/l)	TURBIDITY (NTU)	U)	TEMPERATURE (degrees C)	LATURE les C)	PUMPING RATE	WATER (ft below
TIME		READI	CHANGE*	READING	CHANGE*	READING	CHANGE*	READING	CHANGE*	READING	CHANGE*	READING	CHANGE*	(ml/min)	TOC)
4 7 10		9.73	NA	10.50	NA	チー	NA	15-16	NA	1	NA	3.05	NA	400	4.55
6953	×	10.17		الت ع ما		-254		6.71		رم تر		5.9.2		40	rt 74
t sto	*	10.34		10-36		- 256	a a	10.55		ປີ ບ		5.37		400	4.72
1003	×	10.41		10.01		- 722		10:34		C _ C		5.66		400	4.72
4001	×	10.53		3.54		- 275-		વં.૧١		0,0		5.70		400	4.74
1013	¥	ୃକ [ୁ] ୦୮		45.8		185-		(ا.37		\$.C		5.67		400	4.76
t iol	*	10.67		Ş. 34	ж.	-275		9.82		0,0		5.63		400	11.4.
201	4	10.70		3130		-7 20		7.78		00		5.63		400	+. 80
4001	4	10 J4		8.78		-283		9.74		0 ; ()		5.63		400	4.81
1033	* *			9C.S		tsc.		9.to		0.0		563		400	4.93
		. <u></u> ,													
COMMENTS:	ITS:	Collect	sample.	l ()	1100										

 \pm 10 mv for Redox Potential; and \pm 10% for Dissolved Oxygen and Turbidity

*INDICATOR PARAMETERS HAVE STABLIZED WHEN 3 CONSECUTIVE READINGS ARE WITHIN: ± 0.1 for pH; ± 3% for Specific Conductivity and Temperature; ± 10 mv for Redox Potential; and ± 10% for Dissolved Oxygen and Turbidity

				4		DA-	LOW FLOW SAMPLING DATA SHEET	SAMPLI ET	NG					
	2													
DATE:	2/2	2/6/13				 _ 4	FIELD PERSONNEL:	ONNEL:	T. Reminille	111				
WEATHER:	Sim	Sminh cold	3			1 1								
MONITOR WELL #	- 1	063 1407	WE	WELL DEPTH:	G			ł	SCREEN	SCREENED/OPEN INTERVAL:	ITERVAL:	8-13		
WELL PERMIT #:			WELL	WELL DIAMETER:	دز	_ inches								
PID/FID READINGS (ppm):	NGS (ppm):	BACKGROUND:	DUND:	98 		PUMP	PUMP INTAKE DEPTH:	EPTH: ICS	ft below TOC	TOC				
		BENEATH	BENEATH OUTER CAP:			DEPT	DEPTH TO WATER BEFORE PUMP INSTALLATION : $\frac{4N}{N}$	R BEFORE	PUMP INST	ALLATION :		ft below TOC		
RGING	MPLING	pH (pH units)	SPECIFIC CONDUCTIVITY (mS/cm)	SPECIFIC NDUCTIVITY (mS/cm)	REDOX POTENTIAL (mv)	90X NTIAL W	DISSOLVED OXYGEN (mg/l)	ylved Gen 9/1)	TURB (N	TURBIDITY (NTU)	TEMPEK (degre	TEMPERATURE (degrees C)	PUMPING	DEPTH TO WATER (ft below
	READING	CHANGE*	READING	CHANGE*	READING	CHANGE*	READING	CHANGE*	READING	CHANGE"	READING	CHANGE*	(ml/min)	TOC)
ilso ×	9.30	NA	3.71	NA	-143	NA	40.2	NA	7-19-5	NA	9,22	NA	400	5.3
1155 ×	9.51	5	£.9.5		-200		Fc.F		市ら、		1.96		400	5.8
لا التحقيل	9.32		3.63		-209		5.58		22.4		10 O-+		460	6.0
1205 X	9.34		3.63	12	-212		5-11		10 9		9.84		400	ية 1
1210 X	9.36				-224		512		50		7.90		400	55.9
7 2121	9.37		3.59		-230		5.09		$o^* o$	·	4.S7		40C	(5 Z C)
120 7	9.39		3.57		- 224	25	4, ૧૬		0,0		386		400	i,37
× 527	7.39		3.54		+22-		4,96		ດູ ບ		9.51		40	6.38
1230 🗶 (\$ 1.40		3.52		-230		4.73		С С		9.71		400	6.42
COMMENTS:		- D	idda an a											

NEW JERSEY DEPARTMENTAL OF ENVIRONMENTAL PROTECTION

*INDICATOR PARAMETERS HAVE STABLIZED WHEN 3 CONSECUTIVE READINGS ARE WITHIN: ± 0.1 for pH; ± 3% for Specific Conductivity and Temperature; Page 15 of 18 Low Flow Purging and Sampling Guidance 95 916 905 COMMENTS: 300 240 PID/FID READINGS (ppm): WELL PERMIT #: **MONITOR WELL #** WEATHER: DATE: SITE: 835 Ro 845 235 TIME PURGING SAMPLING 6.45 6.67 **4**. 73 READING 6.50 é 6.52 6,60 6.64 ,56 collect sample @ 2 rainy (pH units) MW- 08 212 213 PH CHANGE* BACKGROUND: **BENEATH INNER CAP: BENEATH OUTER CAP:** ū 063/065 Z cold 20,3 20.9 23.8 22.4 21.2 9.10 READING CHANGE* 20.2 28.6 した CONDUCTIVITY WELL DIAMETER: SPECIFIC (mS/cm) WELL DEPTH: NA 915 READING CHANGE* 52-۱ ーやす I ł ŧ -90 Ł 1-48 κ γ <u>ہ</u> 5 200 92 ٩0 17 POTENTIAL REDOX inches NA LOW FLOW SAMPLING DEPTH TO WATER BEFORE PUMP INSTALLATION : S. S. ft below TOC PUMP INTAKE DEPTH: 17.0 ft below TOC DATA SHEET **CONSULTING FIRM:** FIELD PERSONNEL: READING CHANGE* 11.20 11.27 11.60 11.20 11.59 11.15 1.12 11.32 11.27 DISSOLVED OXYGEN (mg/l) NA 20.1 22.0 READING CHANGE* , vo 10 10 ユチチ 2, 14 29.5 387 41.2 24.1 SCREENED/OPEN INTERVAL: F. Rongui llo TURBIDITY (UTV) NA 129 129 g. 00 26.5 Sit READING しとさ 2,4 4.23 8.00 とたち TEMPERATURE (degrees C) CHANGE* 14-19 Ň Ċ PUMPING 804 (ml/min) RATE SHEET 5 90 5.90 5.90 UI Ч 5.90 DEPTH TO 5 01 (ft below 5.96 WATER . 90 TOC) . 96 OF 96 90

 \pm 10 mv for Redox Potential; and \pm 10% for Dissolved Oxygen and Turbidity

NEW JERSEY DEPARTMENTAL OF ENVIRONMENTAL PROTECTION

*INDICATOR PARAMETERS HAVE STABLIZED WHEN 3 CONSECUTIVE READINGS ARE WITHIN: ± 0.1 for pH; ± 3% for Specific Conductivity and Temperature; ± 10 mv for Redox Potential; and ± 10% for Dissolved Oxygen and Turbidity

Page 15 of 18 SITE: DATE: WEATHER:		Page 15 of 18 SITE: PPG Life 103 DATE: 2-8-13 WEATHER: 328 Jonens, voin	tite 63	CA.	windy		DA	LOW FLOW SAMPLING DATA SHEET CONSULTING FIRM:	G FIRM:	R I	E'	Freh	5	5	SHEET
WEAT HER			no, vain	CR	Junda						í I			3	3
MONITOR WELL # WELL PERMIT #	WELL	# <u>063-</u>	nwio	Well Di	WELL DEPTH: WELL DIAMETER:	A K	inches			SCREE	Z	NED/OPEN IN	SCREENED/OPEN INTERVAL:	NED/OPEN INTERVAL: 7-7	2-
PID/FID READINGS (ppm):	ADIN		BACKGROUND:	ä	1		PUMP	PUMP INTAKE DEPTH:	EPTH: 5	ttb	ĬŌ	tt below FOC bas	low toe bags	slow FOC Lage	slow-FOC baga
			BENEATH OUTER CAP:	UTER CAP			DEPT	H TO WATE	R BEFORE	PUM	P INST	P INSTALLATION :	PINSTALLATION : 3. 75 H	P INSTALLATION : 3. TS It below FOC	DEPTH TO WATER BEFORE PUMP INSTALLATION : 3. 75 ft below JOC TVC
			BENEATH INNER CAP:	INER CAP:	ן ז										
	RGING MPLING	pH (pH units)	5)	SPECIFIC CONDUCTIVITY (mS/cm)	HFIC TIVITY m)	REDOX POTENTIAL (mv)	REDOX)TENTIAL (mv)	DISSOLVED OXYGEN (mg/l)	;SOLVED XYGEN (mg/l)			TURBIDITY (NTU)		TURBIDITY (NTU) TEMPERATURE (degrees C)	
TIME		READING C	CHANGE* R	READING	CHANGE*	READING	CHANGE*	READING	CHANGE*	READING	ING	ING CHANGE*		CHANGE*	CHANGE* READING CHANGE* (
1035	\prec	6.82	NA	5,91	NA	-124	NA	1.42	NA	2017	01	NA		NA	NA 8.82
1040	\prec	6.79		6.01		-131		1.42		1229	20	15	59 6.98		
1045	\checkmark	679	1~	5.99		-134		133		641	à_	9	SIL P		
1050	×	6.7A		6,00		-136		1.24		136	5	ф ⁻	P 7.20		
1055	K	6.78	6	6.00		مر دا-		1.19		108	8	8	ZZ'Ł 8(
11:00	×	6.79		6.02		+512		1.15		2.5b	5.2	5.2	PZ-F 2.5		
1105	\prec	6.79		6.02		-138		80.1		91.0	Ö	Ö	25.F 0.		
0111	K	6.80	6	503		~139		1.08		N	20.4	0,4	P.5.E 1.0		
11:15	X	6.79	6	603		-140		1.05		60	8	5.2	1H.t		
															150
	┝							_							
COMMENTS:	, Si	Sempled	at II:	11:30		Dephiate	inte)	-							24
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NEW JERSEY DEPARTMENTAL OF ENVIRONMENTAL PROTECTION

Page 15 of 18 Low Flow Purging and Sampling Guidance NEW JERSEY DEPARTMENTAL OF ENVIRONMENTAL PROTECTION *INDICATOR PARAMETERS HAVE STABLIZED WHEN 3 CONSECUTIVE READINGS ARE WITHIN: ± 0.1 for pH; ± 3% for Specific Conductivity and Temperature; COMMENTS 950 PID/FID READINGS (ppm): DATE: SITE: 955 945 WELL PERMIT # WEATHER: MONITOR WELL #: 0/03 14.10-1 1000 1005 1015 0101 TIME Well divid up -メ × ~ X X ¥ PURGING ~ SAMPLING READING 11.09 11.09 11. II 11.42 2/7/13 11, 16 11.08 Jite 063/062 11.10 rainy colo (pH units) P CHANGE* **BENEATH INNER CAP:** BACKGROUND: **BENEATH OUTER CAP:** Z let rechange 732 READING 2.35 254 トイ 2.67 155 2.53 CONDUCTIVITY WELL DIAMETER: SPECIFIC (mS/cm) WELL DEPTH: CHANGE* NA for some READING -337 いてい 200 186 -100 ۱ もり 4 POTENTIAL N REDOX CHANGE* inches NA LOW FLOW SAMPLING DEPTH TO WATER BEFORE PUMP INSTALLATION : $\frac{3 \cdot 6}{2}$ ft below TOC PUMP INTAKE DEPTH: 4.0 ft below TOC DATA SHEET - collect somple FIELD PERSONNEL: **CONSULTING FIRM:** 28 4 2 1 P - 37 READING 1,57 1,42 1.68 1.60 DISSOLVED OXYGEN (mg/1) CHANGE* NA READING 527 2 ھ لا ŝ) SCREENED/OPEN INTERVAL: 5 F -S Q TURBIDITY F. Konguillo (UTV) CHANGE* 1045 NA READING 5.60 5:57 5.62 5.62 2.15 5.61 51 TEMPERATURE (degrees C) CHANGE* 4-9 Ž PUMPING (ml/min) 6 375 RATE SHEET OF DEPTH TO 4,20 7-5-1 6.73 6-10 4. 85 5.4 (ft below WATER TOC) 1

± 10 mv for Redox Potential; and ± 10% for Dissolved Oxygen and Turbidity

New Jersey Department of Environmental Protection Site Remediation Program			
MONITORING WELL CERTIFICATION FORM A - AS-BUIL CERTIFICATION	_T Date Stamp (For Department use only)		
SECTION A. SITE NAME AND LOCATION Site Name: Site 063 - 065			
List all AKAs:			
Street Address: 1 Burma Road			
Municipality: Jersey City (Township, Bo	rough or City)		
County: Hudson Zip Code: 073	e <i>i</i> ,		
Program Interest (PI) Number(s): Case Tracking	Number(s):		
SECTION B. WELL OWNER AND LOCATION 1. Name of Well Owner Nisan 12, LLC			
2. Well Location (Street Address) 3001 Woodbridge Ave - Woodbridge, NJ 0883	7		
3. Well Location (Municipal Block and Lot) Block# 24306	Lot # 11		
SECTION C. WELL LOCATION SPECIFICS			
1. Well Permit Number (This number must be permanently affixed to the well casing)	E201218697		
2. Site Well Number as shown on application or plans):	063-MW-8		
3. Well Completion Date:			
Distance from Top of Casing (cap off) to ground surface (nearest 0.01'):			
5. Total Depth of Well to the nearest ½ foot:			
5. Depth to Top of Screen (or top of open hole) from top of casing (nearest 0.01'):			
7. Screen Length (or length of open hole) in feet:	5		
3. Screen or Slot Size: .010			
9. Screen or Slot Material:	PVC		
10. Casing Material (PVC, steel, or other – specify):	PVC		
11. Casing Diameter (inches):	2		
12. Static Water Level from top of casing at the time of installation (nearest 0.01'):	14		
13. Yield (gallons per minute):	1		
14. Development Techinque (specify):	Submersible Pump		
15. Length of Time well is developed/pumped or bailed (hours and minutes):			

New Jersey Department of Environmental Protection Site Remediation Program MONITORING WELL CERTIFICATION FORM A - AS-BUILT CERTIFICATION	Date Stamp		
SECTION A. SITE NAME AND LOCATION	(For Department use only	()	
Site Name: Site 063 - 065			
List all AKAs:			
Street Address: 1 Burma Road			
Municipality: Jersey City (Township, Boro			
County: Hudson Zip Code: 0730			
	umber(s):		
SECTION B. WELL OWNER AND LOCATION			
1. Name of Well Owner Nisan 12, LLC			
2. Well Location (Street Address) 3001 Woodbridge Ave - Woodbridge, NJ 08837			
3. Well Location (Municipal Block and Lot) Block# 24306	Lot # 11		
SECTION C. WELL LOCATION SPECIFICS	F201210000		
1. Well Permit Number (This number must be permanently affixed to the well casing):	E201218698		
2. Site Well Number as shown on application or plans):	063-MW-10		
Well Completion Date:			
stance from Top of Casing (cap off) to ground surface (nearest 0.01'):			
Total Depth of Well to the nearest ½ foot:			
Depth to Top of Screen (or top of open hole) from top of casing (nearest 0.01'):			
7. Screen Length (or length of open hole) in feet:	5		
8. Screen or Slot Size:	.010		
9. Screen or Slot Material:	PVC		
10. Casing Material (PVC, steel, or other – specify):	PVC		
11. Casing Diameter (inches):	2		
12. Static Water Level from top of casing at the time of installation (nearest 0.01'):	2		
13. Yield (gallons per minute):	1		
14. Development Techinque (specify):	Submersible Pump		
15. Length of Time well is developed/pumped or bailed (hours and minutes):	1		

New Jersey Department of Environmental Protection Site Remediation Program MONITORING WELL CERTIFICATION FORM A - AS-BUILT CERTIFICATION SECTION A. SITE NAME AND LOCATION	Date Stamp (For Department use only)		
Site Name: Site 063 - 065			
List all AKAs:			
Street Address: 1 Burma Road			
Municipality: Jersey City (Township, Boro County: Hudson Zip Cada: 0730	-		
	umber(s):		
SECTION B. WELL OWNER AND LOCATION 1. Name of Well Owner Nisan 12, LLC			
2. Well Location (Street Address) 3001 Woodbridge Ave - Woodbridge, NJ 08837			
3. Well Location (Municipal Block and Lot) Block# 24306	Lot # 11		
SECTION C. WELL LOCATION SPECIFICS			
1. Well Permit Number (This number must be permanently affixed to the well casing):	E201300216		
2. Site Well Number as shown on application or plans):	063-MW-11		
3. Well Completion Date:	1/16/2013		
Distance from Top of Casing (cap off) to ground surface (nearest 0.01'):			
Total Depth of Well to the nearest ½ foot:			
Depth to Top of Screen (or top of open hole) from top of casing (nearest 0.01'):			
7. Screen Length (or length of open hole) in feet:	5		
8. Screen or Slot Size:	.020		
9. Screen or Slot Material:	PVC		
10. Casing Material (PVC, steel, or other – specify):	PVC		
11. Casing Diameter (inches):	2		
12. Static Water Level from top of casing at the time of installation (nearest 0.01'):	2		
13. Yield (gallons per minute):	1		
14. Development Techinque (specify):	Submersible Pump		
15. Length of Time well is developed/pumped or bailed (hours and minutes):	1		

New Jersey Department of Env Site Remediation Program Monitoring Well Certification Fo			Date Stamp (For Department use only)			
SECTION A. SITE NAME AND LOCATION						
Site Name: Site 063-065						
List all AKAs:						
Street Address: <u>1 Burma Road</u>		····	0:1.)			
Municipality: City of Jersey City		(Township, Borough o	r City)			
County: Hudson		Zip Code: 07305				
Program Interest (PI) Number(s):		Case Tracking Numb	er(s):			
SECTION B. WELL OWNER AND LOCATION						
1. Name of Well Owner Nisan 12, LLC						
	•	odbridge, NJ 08837				
3. Well Location (Municipal Block and Lot) E	Block# 2430	6L	ot #			
SECTION C. WELL LOCATION SPECIFICS						
1. Well Permit Number (This number must be perma	nently affixed	d to the well casing): E201	300216			
2. Site Well Number (As shown on application or plan						
Geographic Coordinate NAD 83 to nearest 1/10 of a second:						
Longitude: West 74° 04' 00.2" Latitude: North 40° 42' 00.8"						
New Jersey State Plane Coordinates NAD 83 to nearest 10 feet:						
North 680283		East 612256				
5. Elevation of Top of Inner Casing (cap off) at refere	ence mark (r	nearest 0.01'): <u>10.17 (TO</u>	POF PVC)			
 Source of elevation datum (benchmark, number/dehere, assume datum of 100', and give approximate BENCHMARK: NJ12 NJ INST OF TECH 2 CORS ARP ELEV.=164.8' (NAVD 88 DATUM) 	escription an	d elevation/datum. If an o				
7. Significant observations and notes:						
SECTION D. LAND SURVEYOR'S CERTIFICATION		SE	EAL			
I certify under penalty of law that I have personally exa information submitted in this document and all attachm inquiry of those individuals immediately responsible fo believe the submitted information is true, accurate and are significant penalties for submitting false information and imprisonment. Professional Land Surveyor's Signature:	nents and that r obtaining th complete. I	at, based on my ne information, I am aware that there	Date 2/21/2013			
Surveyor's Name: Steven D. Parent		License Numb	er: 24GS03626900			
Mailing Address 147 Union Avenue - Suite 1C		Certification of Aut	norization #: 24GA28042200			
City/Town: Middlesex	State Ne	ew Jersey	Zip Code: 08846			
Phone Number 732.764.0100	Ext.:	Fax:	32.764.0990			

New Jersey Department of En Site Remediation Program Monitoring Well Certification			n Date Stamp (For Department use only)	
SECTION A. SITE NAME AND LOCATION				
Site Name: Site 063-065				
List all AKAs:				
Street Address: 1 Burma Road				
Municipality: City of Jersey City		(Township, Boroug	h or City)	
County: Hudson		Zip Code: 07305		
Program Interest (PI) Number(s):		Case Tracking Nur	nber(s):	
SECTION B. WELL OWNER AND LOCATION				
1. Name of Well Owner Nisan 12, LLC				
2. Well Location (Street Address) 3001 Woodb	ridge Ave - V	Woodbridge, NJ 08837		
3. Well Location (Municipal Block and Lot)	Block# 24	306	Lot # 11	
SECTION C. WELL LOCATION SPECIFICS				
 Well Permit Number (This number must be permanently affixed to the well casing): E201218698 Site Well Number (As shown on application or plans): 063-MW-10 Geographic Coordinate NAD 83 to nearest 1/10 of a second: Longitude: West 74° 04' 01.9" Latitude: North 40° 42' 00.1" New Jersey State Plane Coordinates NAD 83 to nearest 10 feet: North 680212 East 612118 Elevation of Top of Inner Casing (cap off) at reference mark (nearest 0.01'): 7.92 (TOP OF PVC) Source of elevation datum (benchmark, number/description and elevation/datum. If an on-site datum is used, identify here, assume datum of 100', and give approximated actual elevation.) BENCHMARK: NJ12 NJ INST OF TECH 2 CORS ARP ELEV.=164.8' (NAVD 88 DATUM) Significant observations and notes: Significant observations and notes: Display and provide the second and notes: 				
SECTION D. LAND SURVEYOR'S CERTIFICATION SEAL I certify under penalty of law that I have personally examined and am familiar with the information submitted in this document and all attachments and that, based on my inquiry of those individuals immediately responsible for obtaining the information, I believe the submitted information is true, accurate and complete. I am aware that there are significant penalties for submitting false information including the possibility of fine and imprisonment. SEAL Professional Land Surveyor's Signature: Date 2/21/2013 Surveyor's Name: Steven D. Parent License Number: 24GS03626900 Mailing Address 147 Union Avenue - Suite 10 Certification of Authorization #: 24GA28042200				
	Ciata	New Jersey	Zip Code: 08846	
City/Town: Middlesex Phone Number 732.764.0100	State Ext.:	Fax:	_ ZIP Code: 732.764.0990	

New Jersey Department of Environment Site Remediation Program Monitoring Well Certification Form B		Date Stamp (For Department use only)		
SECTION A. SITE NAME AND LOCATION				
Site Name: Site 063-065				
List all AKAs:				
Street Address: 1 Burma Road		0.103		
Municipality: City of Jersey City	(Township, Borough o	r City)		
County: Hudson	Zip Code: 07305	x/2):		
Program Interest (PI) Number(s):	Case Tracking Numbe	er(s).		
SECTION B. WELL OWNER AND LOCATION				
1. Name of Well Owner Nisan 12, LLC				
2. Well Location (Street Address) 3001 Woodbridge Ave - Woodbridge, NJ 08837				
3. Well Location (Municipal Block and Lot) Block# 2	24306 Lo	ot #		
SECTION C. WELL LOCATION SPECIFICS				
1. Well Permit Number (This number must be permanently affixed to the well casing): E201218697				
2. Site Well Number (As shown on application or plans): 063-MW-8				
3. Geographic Coordinate NAD 83 to nearest 1/10 of a second:				
Longitude: West 74° 04' 00.3" Latitude: North 40° 42' 01.3"				
4. New Jersey State Plane Coordinates NAD 83 to nearest 10 feet:				
North 680330 East 612242				
5. Elevation of Top of Inner Casing (cap off) at reference mark (nearest 0.01'): 9.54 (TOP OF PVC)				
 Source of elevation datum (benchmark, number/description and elevation/datum. If an on-site datum is used, identify here, assume datum of 100', and give approximated actual elevation.) BENCHMARK: NJ12 NJ INST OF TECH 2 CORS ARP ELEV.=164.8' (NAVD 88 DATUM) Significant observations and notes: 				
	1			
SECTION D. LAND SURVEYOR'S CERTIFICATION		AL		
I certify under penalty of law that I have personally examined and am familiar with the information submitted in this document and all attachments and that, based on my inquiry of those individuals immediately responsible for obtaining the information, I believe the submitted information is true, accurate and complete. I am aware that there are significant penalties for submitting false information including the possibility of fine and imprisonment.				
Professional Land Surveyor's Signature:		Date 2/21/2013		
Surveyor's Name: Steven D. Parent License Number: 24GS03626900				
Mailing Address 147 Union Avenue - Suite C Certification of Authorization #: 24GA28042200				
City/Town: Middlesex State	New Jersey	Zip Code: 08846		
Phone Number 732.764.0100 Ext.:	Fax: _7	32.764.0990		

APPENDIX G - CONTOUR MAP REPORTING FORM

This reporting form shall accompany each groundwater contour map submittal. Use additional sheets as necessary.

1. Did any surveyed well casing elevations change from the previous sampling event? Yes. No. If yes, attach new "Well Certification--Form B--Location Certification" as found in the "Guide for the Submission of Remedial Action Workplans" (NJDEP, March 1995) and identify the reason for the elevation change (damage to casing, installation of recovery system in monitoring well, etc.).

2. Are there any monitor wells in unconfined aquifers in which the water table elevation is higher than the top of the well screen? Yes. No. If yes, identify these wells.

3. Are there any monitor wells present at the site but omitted from the contour map? Yes. No. Unless the omission of the well(s) has been previously approved by the Department, justify the omissions.

4. Are there any monitor wells containing separate phase product during this measuring event? Yes. No.. Were any of the monitor wells with separate phase product included in the groundwater contour map? Yes... No... If yes, show the formula used to correct the water table elevation.

5. Has the groundwater flow direction changed more than 45 degrees from the previous groundwater contour map? Yes. No. If yes, discuss the reasons for the change.

6. Has groundwater mounding and/or depressions been identified in the groundwater contour map? Yes. No.. Unless the groundwater mounds and/or depressions are caused by the groundwater remediation system, discuss the reasons for this occurrence.

7. Are all the wells used in the contour map screened in the same water-bearing zone? Yes... No... If no, justify inclusion of those wells.

8. Were the groundwater contours computer generated..., computer aided..., or handdrawn...? If computer aided or generated, identify the interpolation method(s) used.