



APPENDIX Y FINAL KARST REPORT (REDACTED)

TECHNICAL REPORT APPENDICES

APPENDIX A	Memorandum of Understanding
APPENDIX B	Tabular results for activated carbon and water samples
APPENDIX C	Ozark Underground Laboratory Procedures and Criteria
APPENDIX D	Sampling Station Index and Karst Feature Index
APPENDIX E	Sampling Station and Select Feature Photographs
APPENDIX F	Individual Dye Trace Reports, Summary Table, and Figures
APPENDIX G	Documentation Graphs for All Analyzed Samples
APPENDIX H	Precipitation and Discharge Data from Illinois Central Spring
APPENDIX I	CONFIDENTIAL Data
APPENDIX J	Cave Fauna of the Section 5 Corridor of I-69
APPENDIX K	Indiana Bat Hibernacula Cave Reconnaissance
APPENDIX L	Pollutant Loading Estimate Tables and FHWA Methodology
APPENDIX M	IDNR Water Well Data
APPENDIX N	Detail Maps of Preferred Alternative and Resources

Appendix A - MOU

MEMORANDUM OF UNDERSTANDING

THIS MEMORANDUM OF UNDERSTANDING IS MADE AND ENTERED INTO THIS THIRTEENTH DAY OF OCTOBER: 1993 BETWEEN THE INDIANA DEPARTMENT OF TRANSPORTATION (INDOT), THE INDIANA DEPARTMENT OF NATURAL RESOURCES (IDNR), THE INDIANA DEPARTMENT OF ENVIRONMENTAL MANAGEMENT (IDEM) AND THE U. S. FISH AND WILDLIFE SERVICE (USFWS) FOR THE PURPOSE OF DELINEATING GUIDELINES FOR CONSTRUCTION OF TRANSPORTATION PROJECTS IN KARST REGIONS OF THE STATE.

WHEREAS, INDOT, IDNR, IDEM AND THE USFWS WISH TO COOPERATE IN THE IDENTIFICATION, STUDY AND TREATMENT OF DRAINAGE IN KARST REGIONS RELATED TO THE CONSTRUCTION OF TRANSPORTATION PROJECTS AND,

WHEREAS, INDOT, IDNR, IDEM AND THE USFWS ACCEPT RESPONSIBILITY TO ENSURE THE TRANSPORTATION NEEDS OF INDIANA ARE MET IN AN ENVIRONMENTALLY SENSITIVE MANNER THAT PROTECTS THE HABITAT OF ALL SPECIES AND,

WHEREAS, DESIGN AND CONSTRUCTION PRACTICES MUST PROTECT GROUND WATER QUALITY, PUBLIC HEALTH AND SAFETY, AND THE ENVIRONMENT.

WHEREAS, IDNR WILL CONFORM TO THE TERMS AND CONDITIONS OF THIS MOU ON THEIR TRANSPORTATION PROJECTS, LIKEWISE, IT WILL BE IDNR'S RESPONSIBILITY TO PROVIDE STANDARD BIOLOGICAL REVIEW FOR PROJECTS IN THE KARST REGION.

THEREFORE, IN CONSIDERATION OF THE TERMS AND CONDITIONS SET FORTH HEREIN THE INDOT, IDNR, IDEM, AND USFWS AGREE AS FOLLOWS:

1. INDOT IN COOPERATION WITH THE IDNR, IDEM AND USFWS SHALL DETERMINE THE LOCATION OF SINKHOLES, CAVES, UNDERGROUND STREAMS, AND OTHER RELATED KARST FEATURES AND THEIR RELATIONSHIP PRIOR TO PROPOSED ALTERATIONS OR CONSTRUCTION IN KARST REGIONS OF THE STATE. A CONSULTANT WITH EXPERTISE IN KARST GEOLOGY/HYDROLOGY MAY ASSIST IN THE IDENTIFICATION AND CHARACTERIZATION OF THE KARST FEATURES. THE CHOICE OF THE CONSULTANT RETAINED BY INDOT WILL BE SUBJECT TO THE REVIEW OF IDNR, USFWS AND IDEM.

2. TASKS TO ACCOMPLISH THIS WORK WILL INCLUDE:

RESEARCH AVAILABLE FROM PUBLIC AND PRIVATE SOURCES FOR INFORMATION RELATIVE TO KARST FEATURES.

FIELD CHECK KARST AND CAVE FEATURES THAT APPEAR FROM THE FIRST TASK AND IDENTIFY ANY ADDITIONAL KARST FEATURES.

PREPARE A DRAFT REPORT, WITH PHOTOGRAPHS AND MAPS, DRAINAGE AREAS, AND LAND USE OF THAT DRAINAGE AREA FOR EACH SINKHOLE OR KARST

Appendix A - MOU

FEATURE, DYE-TRACING AND/OR OTHER GEOTECHNICAL INFORMATION TO DETERMINE SUBSURFACE FLOW OF WATER IN THE PROJECT AREA AND SURFACE WATER DRAINAGE PATTERNS OF THE AREA. CALCULATIONS OF ESTIMATES OF ANNUAL POLLUTANT LOADS FROM THE HIGHWAY AND DRAINAGE WITHIN THE RIGHT-OF-WAY WILL BE MADE, INCLUDING PRIOR TO, DURING AND POST CONSTRUCTION ESTIMATES. THE DESIGN OF THE TREATMENT OF THE KARST FEATURES WILL TAKE INTO CONSIDERATION TREATMENTS NECESSARY TO MEET THE STANDARDS OF THE MONITORING AND MAINTENANCE PLAN.

THAT REPORT WILL BE USED AS A TOOL TO ASSIST IN DETERMINING THE PROPOSED HIGHWAY ALIGNMENT. THE INTENT OF INDOT IS TO AVOID KARST AREAS AND USE ALTERNATE DRAINAGE WHERE POSSIBLE.

3. IDNR, IDEM AND USFWS WILL BE REQUESTED TO REVIEW AND COMMENT ON THE FINDINGS AT THE EARLY COORDINATION PHASE OF PROJECT DEVELOPMENT.

4. INDOT, USING THE INPUT FROM IDNR, IDEM, AND USFWS WILL BEGIN TO FORMULATE APPROPRIATE MEASURES TO OFFSET UNAVOIDABLE IMPACTS TO THE KARST FEATURES. IT IS UNDERSTOOD BY ALL PARTIES THAT SOME OF THE METHODS PROPOSED AT THIS TIME WILL BE GENERIC AND COULD BE APPLIED THROUGHOUT THE LENGTH OF THE CORRIDOR. OTHER METHODS MAY BE SPECIFIC TO A PARTICULAR CAVE OR KARST FEATURE. SOME OF THE APPROACHES MAY REQUIRE ADDITIONAL INVESTIGATIONS TO DETERMINE THEIR NECESSITY AND/OR THEIR FEASIBILITY. A REVISED DRAFT REPORT WILL BE PREPARED BY INDOT'S CONSULTANT AND PROVIDED TO THE IDNR, IDEM, AND THE USFWS AS PART OF THE DESIGN REVIEW PROCESS.

5. DRAINAGE ENTERING FROM BEYOND THE RIGHT-OF-WAY WILL BE TREATED ACCORDING TO THE SAME PROCESS AS DRAINAGE GENERATED BY THE PROJECT.

6. AS THE PROJECT PROGRESSES FURTHER INTO THE DESIGN PHASE, THE IDNR, IDEM AND USFWS WILL BE INVITED AND WILL ATTEND FIELD CHECKS AND MEETINGS DEALING WITH EFFORTS TO NEGATE OR MINIMIZE ADVERSE IMPACTS.

7. HAZARDOUS MATERIALS TRAPS (HMT'S) WILL BE CONSTRUCTED AT STORMWATER OUTFALLS AND OTHER LOCATIONS THAT WILL PROTECT KARST FEATURES FROM SPILL CONTAMINATION.

8. INDOT AGREES TO DEVELOP A MONITORING AND MAINTENANCE PLAN FOR THE AFFECTED KARST FEATURES. IDNR, IDEM AND USFWS WILL BE PROVIDED AN OPPORTUNITY TO REVIEW THIS PLAN. THE ESTABLISHMENT OF WATER QUALITY AND A POINT AT WHICH A STANDARD IS ESTABLISHED FOR REMEDIATION WILL BE A PART OF EACH MONITORING PLAN. THE RESULTS OF THE MONITORING WILL BE SUBMITTED TO IDNR, USFWS, AND IDEM ON A REGULAR BASIS.

9. A LOW SALT, AND NO SPRAY STRATEGY WILL BE DEVELOPED FOR EACH FUTURE PROJECT. A SIGNING STRATEGY FOR THESE ITEMS WILL ALSO BE DEVELOPED FOR EACH PROJECT.

10. PRIOR TO ACCEPTANCE OF THE FINAL DESIGN PLANS AN AGREEMENT WILL BE DEVELOPED WHICH WILL SET OUT THE APPROPRIATE AND PRACTICABLE MEASURES TO OFFSET UNAVOIDABLE IMPACTS TO KARST FEATURES. THIS AGREEMENT WILL BE SIGNED BY THE DEPARTMENT DIRECTOR OF IDNR, THE COMMISSIONER OF THE IDEM, THE COMMISSIONER OF INDOT AND THE SUPERVISOR OF THE USFWS BLOOMINGTON INDIANA FIELD OFFICE. THE AGREEMENT WILL BECOME A PART OF THE CONTRACT DOCUMENTS FOR THE PROJECT. WILL BE

Appendix A - MOU

DISCUSSED AT THE PRE-CONSTRUCTION CONFERENCE AND WILL BE ON FILE AT THE OFFICE OF THE PROJECT ADMINISTRATOR.

11. INDOT WILL ASSURE THAT THE TERMS OF THE AGREEMENT WILL BE COMPLETED WITH ALL SAFEGUARDS GIVEN TO THE KARST AREA. SPECIAL PROVISIONS, WHICH ARE BINDING PROVISIONS THAT ARE A PART OF THE CONTRACT, WILL BE INCLUDED OUTLINING THE PRECAUTIONS TO BE TAKEN. CONSTRUCTION AND DESIGN STRATEGIES FOR HANDLING KARST FEATURES WILL BE DISCUSSED WITH THE CONTRACTOR(S) AND PROJECT ADMINISTRATOR DURING THE PRECONSTRUCTION CONFERENCE. PROJECT ADMINISTRATOR SHALL ENSURE THAT THE CONTRACTOR IS FOLLOWING THE NEW EROSION CONTROL STANDARDS THAT MEET RULE 5 OF 327 IAC 15 AND ANY SPECIAL PRECAUTIONS OUTLINED IN THE DESIGN PLANS THAT THE SINKHOLE TREATMENT IS BEING HANDLED CORRECTLY. THE EROSION CONTROL PLAN MUST BE AVAILABLE AT THE PROJECT ADMINISTRATOR'S OFFICE. AN EMERGENCY RESPONSE PLAN WILL BE MADE A PART OF THE CONTRACT DOCUMENTS. IN ADDITION, THE CONTRACT DOCUMENTS WILL CONTAIN A STRATEGY FOR SIGNING TO ALERT THE PUBLIC TO THE FACT THAT ALL TYPES OF SPILLS ARE POTENTIALLY HAZARDOUS TO THE KARST ENVIRONMENT. FOR INDOT, THIS PLAN WOULD BE PROCEDURE 20 OF THE FIELD OPERATIONS MANUAL DATED 6/24/92 (ATTACHED).

12. THE LOCATION AND NATURE OF THE SINKHOLES AND DRAINAGE SCHEMATIC WILL BE PROVIDED TO THE IDEM. THEY WILL PROVIDE THE INFORMATION TO THE APPROPRIATE LOCAL AUTHORITIES AND THE HAZMAT TEAMS. AN EMERGENCY RESPONSE PLAN WILL BE FOLLOWED. THIS CONSTITUTES PROCEDURE 20. INCLUDED IN THIS INFORMATION IS AN UNDERSTANDING THAT ALL TYPES OF SPILLS ARE POTENTIALLY HAZARDOUS TO KARST REGIONS.

13. IDNR, IDEM AND USFWS PERSONNEL WILL MONITOR CONSTRUCTION AND MAINTENANCE TO THE AGREED UPON TERMS. AS DEEMED NECESSARY.


14. IF DURING CONSTRUCTION IT IS FOUND THAT THE MITIGATION AGREEMENT MUST BE ALTERED, ALL OF THE AGENCIES WILL BE CONTACTED AND AGREEMENT REACHED PRIOR TO WORK CONTINUING IN THAT SPECIFIC AREA OF THE PROJECT. IN ORDER TO NOT UNDULY DELAY PROJECTS, A TWO WORKING DAYS RESPONSE TIME IS NEEDED FROM THE RESOURCE AGENCIES.

15. TREATMENTS WILL BE MAINTAINED DURING CONSTRUCTION BY MEANS OF A VISUAL INSPECTION ON A WEEKLY BASIS OR AFTER EVERY RAIN. CORRECTIVE ACTION WILL BE TAKEN AS NEEDED.

16. IF AFTER THE ABOVE PROCEDURE IS FOLLOWED AND A STATE/FEDERAL ENDANGERED/THREATENED SPECIES IS FOUND DURING CONSTRUCTION, WORK IN THAT AREA OF THE PROJECT WILL STOP. THE IDNR, AND USFWS WILL BE IMMEDIATELY NOTIFIED. THE IDNR AND USFWS WILL PROMPTLY INVESTIGATE THE SITUATION, ADVISE THE PROJECT ADMINISTRATOR AND ASSUME RESPONSIBILITY FOR PROTECTING THE ENDANGERED SPECIES AND TAKING THE APPROPRIATE ACTION.

17. THIS DOCUMENT WILL BE REVIEWED ANNUALLY OR MORE FREQUENTLY AT THE REQUEST OF ANY OF THE FOREGOING AGENCIES.

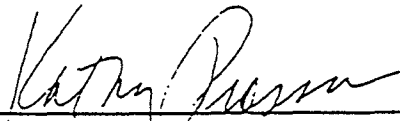
Appendix A - MOU



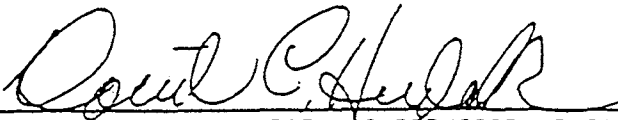
MR. FREDERICK C. P'POOL, COMMISSIONER
INDIANA DEPARTMENT OF TRANSPORTATION



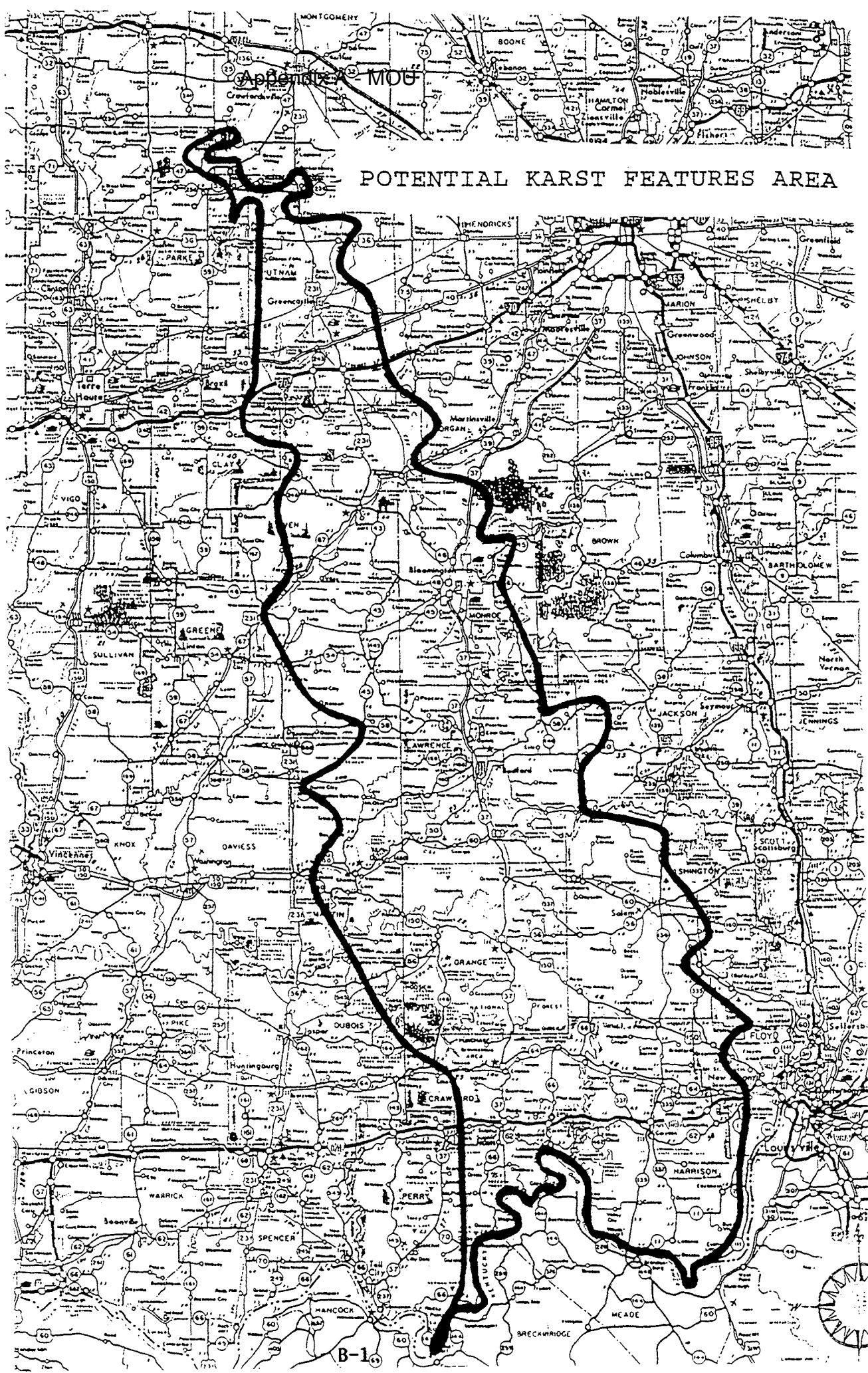
MR. PATRICK R. RALSTON, DIRECTOR
INDIANA DEPARTMENT OF NATURAL RESOURCES



MS. KATHY PROSSER, COMMISSIONER
INDIANA DEPARTMENT OF ENVIRONMENTAL MANAGEMENT



MR. DAVID C HUDAK, FIELD SUPERVISOR, BLOOMINGTON FIELD OFFICE
U. S. FISH AND WILDLIFE SERVICE



Appendix MOB

POTENTIAL KARST FEATURES AREA



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Table 1. Results for charcoal samplers analyzed for the presence of fluorescein, eosine, rhodamine WT (RWT) and sulforhodamine B (SRB) dye:
Peak wavelengths are reported in nanometers (nm); dye concentrations are reported in parts per billion (ppb).

OUL #	Station #	Station Name	Date/Time		Fluorescein Results		Trace	Eosine Results		Trace	RWT Results		Trace	SRB Results		Trace
			Placed	Recovered	Peak nm	Conc. ppb	#	Peak nm	Conc. ppb	#	Peak nm	Conc. ppb	#	Peak nm	Conc. ppb	#
N3045	1		4/22/04 1010	5/20/04 1432	512.4 (1)	2.57	bkg	ND			570.8	9.89	bkg	ND		
N3216	1		5/20/04 1432	5/26/04 1415	511.8 (1)	0.792	bkg	ND			570.6 (1)	1.78	bkg	ND		
N3383	1		5/26/04 1415	6/3/04 1140	512.0 (1)	0.741	bkg	ND			569.8 (1)	2.23	bkg	ND		
N3712	1		6/3/04 1140	6/16/04 1820	ND			ND			570.2 (1)	2.20	bkg	ND		
N3859	1		6/16/04 1820	6/23/04 1310	ND			ND			ND			ND		
N4024	1		6/23/04 1310	6/29/04 1250	ND			ND			ND			ND		
N4222	1		6/29/04 1250	7/8/04 1205	511.8 (1)	0.967	bkg	ND			ND			ND		
N4463	1		7/8/04 1205	7/18/04 1200	510.8 (1)	0.936	bkg	ND			572.2 (1)	2.07	bkg	ND		
N4645	1		7/18/04 1200	7/28/04 0915	511.4 (1)	0.874	bkg	ND			ND			ND		
N4853	1		7/28/04 0915	8/4/04 1340	513.2 (1)	1.27	bkg	ND			ND			ND		
N5016	1		8/4/04 1340	8/13/04 1035	ND			ND			ND			ND		
N5286	1		8/13/04 1035	8/31/04 1530	513.2 (1)	3.60	bkg	ND			567.8 (1)	3.48	bkg	ND		
N5882	1		8/31/04 1530	9/29/04 1022	514.1	3.59	bkg	ND			ND			ND		
N6634	1		9/29/04 1022	10/26/04 0855	514.1	6.18	bkg	ND			568.4	2.22	bkg	ND		
N8003	1		10/26/04 0855	1/10/05 1327	515.2	5.26	bkg	ND			ND			ND		
N8173	1		1/10/05 1327	1/13/05 1456	515.0	1.99	bkg	ND			ND			ND		
N8245	1		1/13/05 1456	1/14/05 1030	ND			ND			ND			ND		
N8448	1		1/14/05 1030	1/21/05 0756	515.2	1.50	bkg	ND			ND			ND		
N8439	1		1/21/05 0756	2/1/05 1752	514.8	1.70	bkg	ND			ND			ND		
N8537	1		2/1/05 1752	2/9/05 1745	515.1	2.64	bkg	ND			ND			ND		
N8956	1		2/9/05 1745	2/25/05 1155	515.6	3.22	bkg	ND			ND			ND		
N3046	2		4/22/04 1015	5/20/04 1433	512.2 (1)	1.43	bkg	ND			572.1	2.98	bkg	ND		
N3217	2		5/20/04 1433	5/26/04 1430	511.4 (1)	0.768	bkg	ND			573.0 (1)	2.14	bkg	ND		
N3384	2		5/26/04 1430	6/3/04 1150	512.6 (1)	0.870	bkg	ND			572.4 (1)	2.33	bkg	ND		
N3713	2		6/3/04 1150	6/16/04 1830	ND			ND			570.2 (1)	2.71	bkg	ND		
N3861	2		6/16/04 1830	6/23/04 1320	512.4 (1)	1.11	bkg	ND			572.0 (1)	2.40	bkg	ND		
N4025	2		6/23/04 1320	6/29/04 1255	ND			ND			ND			ND		
N4223	2		6/29/04 1255	7/8/04 1210	510.2 (1)	1.10	bkg	ND			ND			ND		
N4464	2		7/8/04 1210	7/18/04 1205	512.6 (1)	0.857	bkg	ND			571.4 (1)	2.02	bkg	ND		
N4646	2		7/18/04 1205	7/28/04 0920	511.8 (1)	1.21	bkg	ND			572.8 (1)	1.85	bkg	ND		
N4854	2		7/28/04 0920	8/4/04 1340	513.4 (1)	1.22	bkg	ND			ND			ND		
N5017	2		8/4/04 1340	8/13/04 1040	512.0 (1)	0.660	bkg	ND			ND			ND		
N5287	2		8/13/04 1040	8/31/04 1533	513.8	7.97	bkg	ND			569.0 (1)	10.4	bkg	ND		
N5883	2		8/31/04 1533	9/29/04 1026	514.2	12.1	bkg	ND			567.4 (1)	1.98	bkg	ND		
N6635	2		9/29/04 1026	10/26/04 0900	514.4	13.2	bkg	ND			569.8 (1)	4.09	bkg	ND		
	2		10/26/04 0900	1/10/05 1312	(8)											
N8174	2		1/10/05 1312	1/13/05 1452	515.3	3.08	bkg	ND			ND			ND		
N8246	2		1/13/05 1452	1/14/05 1035	516.4	1.26	bkg	ND			ND			ND		
N8449	2		1/14/05 1035	1/21/05 0752	515.6	2.83	bkg	ND			ND			ND		
N8441	2		1/21/05 0752	2/1/05 1755	514.7	3.40	bkg	ND			ND			ND		
N8441D	2		1/21/05 0752	2/1/05 1755	514.8	2.27	bkg	ND			ND			ND		
N8538	2		2/1/05 1755	2/9/05 1742	515.1	4.21	bkg	ND			ND			ND		
N8957	2		2/9/05 1742	2/25/05 1200	515.2	7.52	bkg	ND			ND			574.0 (1)	2.72	
N3218	3		5/19/04 0955	5/26/04 0845	ND			ND			ND			ND		
N3385	3		5/26/04 0845	6/3/04 0800	ND			ND			ND			ND		
N3714	3		6/3/04 0800	6/17/04 1430	515.8 (1)	1.03	bkg	540.2 (1)	0.944	bkg	ND			ND		
N3862	3		6/17/04 1430	6/24/04 1150	515.6 (1)	0.742	bkg	ND			ND			ND		
N4026	3		6/24/04 1150	6/30/04 0650	514.6 (1)	0.582	bkg	ND			ND			ND		
N4224	3		6/30/04 0650	7/9/04 0905	515.6 (1)	0.323	bkg	ND			ND			ND		
N4465	3		7/9/04 0905	7/18/04 1755	515.2 (1)	0.384	bkg	ND			ND			ND		
N4647	3		7/18/04 1755	7/29/04 0815	515.2 (1)	0.351	bkg	ND			569.6 (1)	1.42	bkg	ND		
N4855	3		7/29/04 0815	8/5/04 1130	514.8 (1)	0.372	bkg	ND			ND			ND		
N5018	3		8/5/04 1130	8/14/04 0830	513.0 (1)	0.954	bkg	ND			563.8 (1)	1.68	bkg	ND		
N5288	3		8/14/04 0830	9/1/04 1330	ND			ND			ND			ND		
N5504	3		9/1/04 1330	9/9/04 1406	ND			ND			ND			ND		

OUL #	Station #	Station Name	Date/Time		Fluorescein Results		Trace #	Eosine Results		Trace #	RWT Results		Trace #	SRB Results		Trace #
			Placed	Recovered	Peak nm	Conc. ppb		Peak nm	Conc. ppb		Peak nm	Conc. ppb		Peak nm	Conc. ppb	
N5658	3		9/9/04 1406	9/21/04 1525	ND			ND			ND			ND		
N5884	3		9/21/04 1525	9/29/04 1531	ND			ND			ND			ND		
N6011	3		9/29/04 1531	10/5/04 1725	ND			ND			ND			ND		
N6264	3		10/5/04 1725	10/14/04 0930	512.8 (1,4)	0.771	bkg	ND			ND			ND		
N6636	3		10/14/04 0930	10/27/04 1540	514.4	1.28	bkg	ND			ND			ND		
N9656	3		10/27/04 1540	3/29/05 1655	ND			ND			ND			ND		
N3219	4		5/19/04 1050	5/26/04 0830	514.8 (1)	0.441	bkg	ND			ND			ND		
N3386	4		5/26/04 0830	6/3/04 0745	516.0 (1)	0.417	bkg	ND			ND			ND		
N3386D	4		5/26/04 0830	6/3/04 0745	ND			ND			ND			ND		
N3715	4		6/3/04 0745	6/17/04 1420	515.4 (1)	0.861	bkg	ND			ND			ND		
N3863	4		6/17/04 1420	6/24/04 1200	515.8	0.798	bkg	ND			ND			ND		
N4027	4		6/24/04 1200	6/30/04 0640	ND			ND			ND			ND		
N4225	4		6/30/04 0640	7/9/04 0855	ND			539.9	65.9	04-03	ND			ND		
N4466	4		7/9/04 0855	7/18/04 1745	515.8 (1)	0.415	bkg	539.3	10.7	04-03	ND			ND		
N4648	4		7/18/04 1745	7/29/04 0800	ND			539.4	5.43	04-03	ND			ND		
N4856	4		7/29/04 0800	8/5/04 1110	ND			539.7	2.26	04-03	ND			ND		
N5019	4		8/5/04 1110	8/14/04 0815	ND			ND			ND			ND		
N5289	4		8/14/04 0815	9/1/04 1315	514.3 (1)	1.34	bkg	535.8 (1)	1.65	04-03	ND			ND		
N5505	4		9/1/04 1315	9/9/04 1356	514.0 (1)	1.53	bkg	ND			ND			ND		
N5659	4		9/9/04 1356	9/21/04 1512	ND (4)			ND			ND			ND		
N5885	4		9/21/04 1512	9/29/04 1505	ND			ND			ND			ND		
N6012	4		9/29/04 1505	10/6/04 0910	ND			ND			ND			ND		
N6265	4		10/6/04 0910	10/14/04 0920	ND			ND			ND			ND		
N6637	4		10/14/04 0920	10/27/04 1500	515.8 (1)	1.11	bkg	ND			567.7	6.99	04-09	ND		
N6955	4		10/27/04 1500	11/8/04 1610	ND			ND			570.0	4.80	04-09	ND		
N7223	4		11/8/04 1632	11/17/04 1450	ND			ND			572.6	6.80	04-09	ND		
N7511	4		11/17/04 1450	12/3/04 1610	ND			ND			571.8 (1)	3.67	04-09	ND		
N9927	4		12/3/04 1610	4/7/05 1032	517.5 (1)	1.60	bkg	540.2 (1)	3.25	04-03	567.8 (1)	6.24	04-09	ND		
P0439	4		4/7/05 1032	4/15/05 0902	515.2 (1)	0.799	bkg	ND			ND			ND		
N3221	5		5/19/04 1125	5/26/04 0900	513.2 (1)	0.576	bkg	ND			ND			ND		
N3387	5		5/26/04 0900	6/3/04 0815	513.6 (1)	0.770	bkg	ND			ND			ND		
N3716	5		6/3/04 0815	6/17/04 1500	514.7 (1)	0.840	bkg	ND			ND			ND		
N3864	5		6/17/04 1500	6/24/04 0855	515.6	0.527	bkg	ND			ND			ND		
N4028	5		6/24/04 0855	6/30/04 0710	516.0 (1)	0.299	bkg	ND			ND			ND		
N4226	5		6/30/04 0710	7/9/04 1105	ND			540.2	7210	04-03	ND			ND		
N4467	5		7/9/04 1105	7/18/04 1815	ND			539.3	272	04-03	ND			ND		
N4649	5		7/18/04 1815	7/28/04 1625	ND (2)			539.3	787	04-03	ND			ND		
N4857	5		7/28/04 1625	8/5/04 0805	ND (2)			538.8	255	04-03	ND			ND		
N5021	5		8/5/04 0805	8/13/04 1530	515.6 (2)	51.6	bkg	538.3	334	04-03	ND			ND		
N5021D	5		8/5/04 0805	8/13/04 1530	515.6 (2)	47.4	bkg	537.9	253	04-03	ND			ND		
N5290	5		8/13/04 1530	9/1/04 1355	515.8 (2)	30.6	bkg	538.4	179	04-03	ND			ND		
N5506	5		9/1/04 1355	9/9/04 1415	515.6 (2)	22.1	bkg	538.2	104	04-03	ND			ND		
N5661	5		9/9/04 1415	9/21/04 1532	517.0 (2)	36.7	bkg	538.2	130	04-03	ND			ND		
N5886	5		9/21/04 1532	9/29/04 1605	ND			536.4	28.2	04-03	ND			ND		
N6013	5		9/29/04 1605	10/5/04 1635	ND			535.2	27.8	04-03	ND			ND		
N6266	5		10/5/04 1635	10/14/04 0955	518.4 (2)	15.2	bkg	536.2	19.5	04-03	ND			ND		
N6638	5		10/14/04 0955	10/27/04 1120	ND			537.5	18.6	04-03	ND			ND		
N6956	5		10/27/04 1120	11/8/04 1632	517.2 (2)	3.88	bkg	540.4	14.2	04-03	ND			ND		
N7222	5		11/8/04 1610	11/17/04 1540	515.8 (2)	4.71	bkg	539.8	15.9	04-03	ND			ND		
N7512	5		11/17/04 1450	12/3/04 1415	521.0 (2)	4.58	bkg	539.1	10.9	04-03	ND			ND		
N9928	5		12/3/04 1415	4/7/05 1055	515.4 (2)	3.27	bkg	541.1	26.5	04-03	ND			ND		
P0441	5		4/7/05 1055	4/15/05 1031	517.0	2.39	bkg	540.2	4.41	04-03	ND			ND		
P0441D	5		4/7/05 1055	4/15/05 1031	517.8	2.91	bkg	540.6	7.19	04-03	ND			ND		
N3222	6		5/19/04 1225	5/26/04 0800	ND			ND			572.2 (1)	2.31	bkg	ND		
N3388	6		5/26/04 0800	6/3/04 0730	ND			ND			569.6 (1)	2.58	bkg	ND		
N3717	6		6/3/04 0730	6/17/04 1340	ND			ND			ND			576.8	11.3	bkg
N3865	6		6/17/04 1340	6/23/04 1850	ND			ND			573.4 (1)	4.49	bkg	ND		

OUL #	Station #	Station Name	Date/Time		Fluorescein Results		Trace #	Eosine Results		Trace #	RWT Results		Trace #	SRB Results		Trace #
			Placed	Recovered	Peak nm	Conc. ppb		Peak nm	Conc. ppb		Peak nm	Conc. ppb		Peak nm	Conc. ppb	
N4029	6		6/23/04 1850	6/29/04 1715	ND			ND			572.8 (1)	3.91	bkg	ND		
N4227	6		6/29/04 1715	7/9/04 0830	ND			ND			572.8 (1)	4.20	bkg	ND		
N4468	6		7/9/04 0830	7/18/04 1720	ND			ND			ND			574.0 (1)	1.72	bkg
N4650	6		7/18/04 1720	7/28/04 1745	512.4 (1)	0.688	bkg	ND			573.0 (1)	1.72	bkg	ND		
N4858	6		7/28/04 1745	8/5/04 1040	ND			ND			ND			ND		
N5022	6		8/5/04 1040	8/14/04 0745	ND			ND			566.6 (1)	4.68	bkg	ND		
N5291	6		8/14/04 0745	9/1/04 1252	513.4 (1)	2.43	bkg	ND			569.2 (1)	6.28	bkg	ND		
N5887	6		9/1/04 1252	9/29/04 1436	515.2	2.65	bkg	ND			ND			ND		
N6639	6		9/29/04 1436	10/27/04 1400	514.8	2.74	bkg	ND			ND			ND		
N6639D	6		9/29/04 1436	10/27/04 1400	514.3	2.45	bkg	ND			ND			ND		
N8175	6		10/27/04 1400	1/13/05 1358	516.2	7.23	bkg	ND			ND			ND		
N9657	6		1/13/05 1358	3/29/05 1623	515.2 (1,9)	0.760	bkg	ND			ND			ND		
P0442	6		3/29/05 1623	4/14/05 1739	515.1	1.70	bkg	ND			ND			ND		
N3223	7		5/19/04 1445	5/26/04 0715	ND			ND			572.4 (1)	2.04	bkg	ND		
N3389	7		5/26/04 0715	6/3/04 0645	ND			ND			571.6 (1)	3.37	bkg	ND		
N3718	7		6/3/04 0645	6/17/04 1400	ND			ND			570.6 (1)	2.91	bkg	ND		
N3866	7		6/17/04 1400	6/23/04 1830	ND			ND			ND			576.6 (1)	2.30	bkg
N4030	7		6/23/04 1830	6/29/04 1735	ND			ND			ND			ND		
N4228	7		6/29/04 1735	7/9/04 0805	ND			ND			ND			ND		
N4469	7		7/9/04 0805	7/18/04 1700	ND			ND			ND			ND		
N4651	7		7/18/04 1700	7/28/04 1725	ND			ND			572.0 (1)	2.79	bkg	ND		
N4859	7		7/28/04 1725	8/5/04 1025	ND			ND			ND			ND		
N5023	7		8/5/04 1025	8/13/04 1630	ND			ND			ND			ND		
N5292	7		8/13/04 1630	9/1/04 1200	ND			ND			570.8 (1)	7.06	bkg	ND		
N5888	7		9/1/04 1200	9/29/04 1412	ND			ND			ND			574.2 (1)	0.943	bkg
N6641	7		9/29/04 1412	10/27/04 1335	513.8 (1)	1.40	bkg	ND			571.2 (1)	1.47	bkg	ND		
N8176	7		10/27/04 1335	1/18/05 1403	515.7	3.42	bkg	ND			571.4 (1)	5.69	bkg	ND		
N3224	8		5/19/04 1500	5/26/04 0730	ND			ND			ND			ND		
N3390	8		5/26/04 0730	6/3/04 0700	ND			ND			ND			ND		
N3719	8		6/3/04 0700	6/17/04 1405	ND			ND			571.2 (1)	3.46	bkg	ND		
N3867	8		6/17/04 1405	6/23/04 1835	ND			ND			ND			576.0 (1)	1.70	bkg
N4031	8		6/23/04 1835	6/29/04 1740	ND			ND			ND			ND		
N4229	8		6/29/04 1740	7/9/04 0810	ND			ND			572.8 (1)	2.59	bkg	ND		
N4470	8		7/9/04 0810	7/18/04 1705	ND			ND			572.6 (1)	2.11	bkg	ND		
N4652	8		7/18/04 1705	7/28/04 1730	ND			ND			ND			ND		
N4861	8		7/28/04 1730	8/5/04 1020	ND			ND			572.6 (1)	1.58	bkg	ND		
N4861D	8		7/28/04 1730	8/5/04 1020	ND			ND			ND			ND		
N5024	8		8/5/04 1020	8/13/04 1635	ND			ND			ND			ND		
N5293	8		8/13/04 1635	9/1/04 1155	ND			ND			569.2 (1)	5.92	bkg	ND		
N5889	8		9/1/04 1155	9/29/04 1416	ND			ND			ND			ND		
N6642	8		9/29/04 1416	10/27/04 1330	513.6 (1)	1.49	bkg	ND			ND			ND		
N8177	8		10/27/04 1330	1/18/05 1408	515.1	1.61	bkg	ND			ND			ND		
N3225	9		5/19/04 1525	5/26/04 0745	ND			ND			ND			ND		
N3391	9		5/26/04 0745	6/3/04 0715	ND			ND			ND			ND		
N3721	9		6/3/04 0715	6/17/04 1350	ND			ND			ND			ND		
N3868	9		6/17/04 1350	6/23/04 1840	ND			ND			ND			ND		
N4032	9		6/23/04 1840	6/29/04 1725	ND			ND			ND			ND		
N4230	9		6/29/04 1725	7/9/04 0820	ND			ND			ND			ND		
N4471	9		7/9/04 0820	7/18/04 1710	ND			ND			ND			ND		
N4653	9		7/18/04 1710	7/28/04 1735	ND			ND			ND			ND		
N4862	9		7/28/04 1735	8/5/04 1035	ND			ND			ND			ND		
N5025	9		8/5/04 1035	8/14/04 0800	512.6 (1)	0.794	bkg	ND			ND			ND		
N5294	9		8/14/04 0800	9/1/04 1245	514.0 (1)	1.34	bkg	ND			ND			ND		
N5890	9		9/1/04 1245	9/29/04 1426	515.0 (1)	1.01	bkg	ND			ND			ND		
N6643	9		9/29/04 1426	10/27/04 1345	ND			ND			ND			ND		
N8178	9		10/27/04 1345	1/13/05 1425	ND			ND			ND			ND		
N9658	9		1/13/05 1425	3/29/05 1637	ND			ND			ND			ND		

OUL #	Station #	Station Name	Date/Time		Fluorescein Results		Trace #	Eosine Results		Trace #	RWT Results		Trace #	SRB Results		Trace #
			Placed	Recovered	Peak nm	Conc. ppb		Peak nm	Conc. ppb		Peak nm	Conc. ppb		Peak nm	Conc. ppb	
P0443	9		3/29/05 1637	4/14/05 1800	ND			ND			ND			ND		
N3226	10		5/19/04 1630	5/26/04 1515	ND			ND			572.0 (1)	2.17	bkg	ND		
N3392	10		5/26/04 1515	6/3/04 1245	ND			ND			ND			ND		
N3722	10		6/3/04 1245	6/16/04 1015	513.0 (1)	1.34	bkg	ND			571.2 (1)	4.98	bkg	ND		
N3869	10		6/16/04 1015	6/23/04 0920	512.0 (1)	1.06	bkg	ND			572.4 (1)	2.60	bkg	ND		
N4033	10		6/23/04 0920	6/29/04 1025	ND			ND			572.0 (1)	2.29	bkg	ND		
N4231	10		6/29/04 1025	7/8/04 0930	ND			ND			573.0 (1)	3.87	bkg	ND		
N4472	10		7/8/04 0930	7/18/04 0915	ND			ND			572.6 (1)	2.27	bkg	ND		
	10		7/18/04 0915	7/27/04 1655	(8)											
N4863	10		7/27/04 1655	8/4/04 1020	513.6	1.62	bkg	ND			ND			574.2 (1)	2.72	bkg
N5026	10		8/4/04 1020	8/13/04 0825	512.6 (1)	0.791	bkg	ND			573.2 (1)	3.97	bkg	ND		
N5295	10		8/13/04 0825	8/31/04 1055	512.8 (1)	5.02	bkg	ND			572.6 (1)	14.1	bkg	ND		
N5891	10		8/31/04 1055	9/27/04 1350	513.6 (1)	2.37	bkg	ND			569.8 (1)	5.44	bkg	ND		
N6014	10		9/27/04 1350	10/5/04 0904	512.6 (1)	1.41	bkg	ND			ND			ND		
N6267	10		10/5/04 0904	10/12/04 1135	ND			ND			ND			ND		
N6644	10		10/12/04 1135	10/25/04 1025	513.9	4.53	bkg	ND			571.0 (1)	4.91	bkg	ND		
N8004	10		10/25/04 1025	1/10/05 1555	516.6 (1)	2.95	bkg	ND			ND			ND		
N8179	10		1/10/05 1555	1/18/05 1105	515.0 (1)	1.06	bkg	ND			ND			ND		
N3227	11		5/19/04 1720	5/26/04 1530	ND			ND			ND			ND		
N3393	11		5/26/04 1530	6/3/04 1300	ND			ND			572.2 (1)	2.89	bkg	ND		
N3723	11		6/3/04 1300	6/16/04 1030	ND			ND			ND			ND		
N3870	11		6/16/04 1030	6/23/04 0930	ND			ND			ND			ND		
N4034	11		6/23/04 0930	6/29/04 1005	ND			ND			572.0 (1)	2.59	bkg	ND		
N4232	11		6/29/04 1005	7/8/04 0920	ND			ND			ND			ND		
N4473	11		7/8/04 0920	7/18/04 0905	ND			ND			ND			ND		
N4654	11		7/18/04 0905	7/27/04 1645	ND			ND			ND			ND		
N4864	11		7/27/04 1645	8/4/04 1010	514.0 (1)	0.702	bkg	ND			571.2 (1)	1.58	bkg	ND		
N5027	11		8/4/04 1010	8/13/04 0815	ND			ND			ND			ND		
N5296	11		8/13/04 0815	8/31/04 1038	513.2 (1)	1.75	bkg	ND			569.6 (1)	3.30	bkg	ND		
N5892	11		8/31/04 1038	9/27/04 1408	ND			ND			ND			ND		
N6015	11		9/27/04 1408	10/5/04 0920	ND			ND			ND			ND		
N6268	11		10/5/04 0920	10/12/04 1120	ND			ND			ND			ND		
N6645	11		10/12/04 1120	10/25/04 1102	515.2	2.42	bkg	ND			ND			ND		
N3228	12		5/19/04 1910	5/26/04 1630	ND			ND			ND			ND		
N3394	12		5/26/04 1630	6/3/04 1330	ND			ND			ND			ND		
N3724	12		6/3/04 1330	6/16/04 1110	516.2 (1)	0.478	bkg	ND			568.1	51.9	04-02	ND		
N3871	12		6/16/04 1110	6/23/04 1000	ND			ND			569.2	22.8	04-02	ND		
N4035	12		6/23/04 1000	6/29/04 1040	ND			ND			568.6	10.8	04-02	ND		
N4233	12		6/29/04 1040	7/8/04 0945	ND			ND			568.2	5.65	04-02	ND		
N4474	12		7/8/04 0945	7/18/04 0930	ND			ND			571.0 (1)	2.52	04-02	ND		
N4655	12		7/18/04 0930	7/27/04 1720	ND			539.9	87.4	04-04	ND			ND		
N4865	12		7/27/04 1720	8/4/04 1020	ND			539.8	195	04-04	ND			ND		
N5028	12		8/4/04 1020	8/13/04 0720	ND			539.4	8.06	04-04	ND			ND		
N5297	12		8/13/04 0720	8/31/04 1115	515.2 (1)	0.985	bkg	539.1	6.17	04-04	ND			ND		
N5507	12		8/31/04 1115	9/9/04 0938	514.8 (1)	0.835	bkg	537.7	1.09	04-04	ND			ND		
N5662	12		9/9/04 0938	9/21/04 1000	514.2	16.9	04-07	ND			ND			ND		
N5893	12		9/21/04 1000	9/28/04 1416	514.6 (1)	0.989	bkg	ND			ND			ND		
N6016	12		9/28/04 1416	10/5/04 1052	514.8 (1)	0.607	bkg	ND			ND			ND		
N6269	12		10/5/04 1052	10/12/04 1150	513.0 (1)	0.557	bkg	ND			ND			ND		
N6646	12		10/12/04 1150	10/25/04 1443	515.1	3.29	04-07	535.8	1.59	04-04	ND			ND		
N3229	13		5/20/04 0845	5/26/04 1645	ND			ND			ND			ND		
N3395	13		5/26/04 1645	6/3/04 1345	ND			ND			ND			ND		
N3725	13		6/3/04 1345	6/17/04 1145	ND			539.8	12.7	04-01	ND			ND		
N3872	13		6/17/04 1145	6/23/04 1100	ND			539.5	4.35	04-01	ND			ND		
N4036	13		6/23/04 1100	6/29/04 1115	ND			ND			ND			ND		
N4234	13		6/29/04 1115	7/8/04 1030	ND			ND			ND			ND		
N4475	13		7/8/04 1030	7/18/04 1010	ND			ND			ND			ND		

OUL #	Station #	Station Name	Date/Time		Fluorescein Results		Trace #	Eosine Results		Trace #	RWT Results		Trace #	SRB Results		Trace #
			Placed	Recovered	Peak nm	Conc. ppb		Peak nm	Conc. ppb		Peak nm	Conc. ppb		Peak nm	Conc. ppb	
N4656	13		7/18/04 1010	7/28/04 0740	ND			ND			ND			575.4 (1)	1.02	bkg
N4866	13		7/28/04 0740	8/4/04 1200	ND			ND			568.5	25.3	04-05	ND		
N5029	13		8/4/04 1200	8/13/04 0910	ND			ND			568.1	42.5	04-05	ND		
N5298	13		8/13/04 0910	8/31/04 1320	514.3 (1)	1.49	bkg	ND			568.1	39.0	04-05	ND		
N5508	13		8/31/04 1320	9/9/04 1026	ND			ND			568.6	454	04-06	ND		
N5663	13		9/9/04 1026	9/21/04 1130	ND			ND			567.7	182	04-06	ND		
N5894	13		9/21/04 1130	9/28/04 1605	ND			ND			567.6	48.1	04-06	ND		
N6017	13		9/28/04 1605	10/5/04 1156	ND			ND			569.2	23.6	04-06	ND		
N6270	13		10/5/04 1156	10/12/04 1305	ND			ND			568.6	13.0	04-06	ND		
N6647	13		10/12/04 1305	10/25/04 1615	513.9 (1)	1.57	bkg	ND			567.8	11.9	04-06	ND		
N7774	13		10/25/04 1615	12/21/04 1346	515.0 (1)	1.24	bkg	ND			569.8	8.71	04-06	ND		
	13		12/21/04 1346	1/10/05 1425	(8)											
N8181	13		1/10/05 1425	1/17/05 1655	515.7	5.61	bkg	ND			ND			ND		
N8181D	13		1/10/05 1425	1/17/05 1655	516.1	5.06	bkg	ND			ND			ND		
N3230	14		5/20/04 0930	5/26/04 1700	ND			539.3	3.05	bkg	ND			574.0 (1)	1.89	bkg
N3396	14		5/26/04 1700	6/3/04 1400	ND			ND			ND			ND		
N3579	14		6/3/04 1400	6/11/04 1615	514.2	8.12	bkg	540.6	1.71	bkg	573.6 (1)	3.39	bkg	ND		
N3726	14		6/11/04 1615	6/16/04 1145	ND			ND			ND			ND		
N3726D	14		6/11/04 1615	6/16/04 1145	ND			ND			ND			ND		
N3873	14		6/16/04 1145	6/23/04 1130	514.0	1.96	bkg	538.2	1.43	bkg	ND			ND		
N4037	14		6/23/04 1130	6/29/04 1130	515.2 (1)	0.539	bkg	539.4	5.78	bkg	ND			ND		
N4235	14		6/29/04 1130	7/8/04 1040	515.4 (1)	0.657	bkg	539.5 (1)	1.48	bkg	ND			574.6	3.40	bkg
N4476	14		7/8/04 1040	7/18/04 1030	513.2 (1)	0.944	bkg	539.0 (1)	0.517	bkg	ND			576.8 (1)	1.61	bkg
N4657	14		7/18/04 1030	7/28/04 0750	513.7	0.891	bkg	539.2	1.13	bkg	ND			573.0 (1)	1.27	bkg
N4867	14		7/28/04 0750	8/4/04 1210	514.0 (1)	1.14	bkg	ND			569.6 (1)	3.71	bkg	ND		
N5030	14		8/4/04 1210	8/13/04 0920	517.2 (1)	0.395	bkg	538.3	1.06	bkg	571.2 (1)	2.21	bkg	ND		
N5299	14		8/13/04 0920	8/31/04 1335	514.3	4.91	bkg	536.0 (1)	2.58	bkg	570.0 (1)	5.67	bkg	ND		
N5509	14		8/31/04 1335	9/9/04 1020	514.2 (1)	1.34	bkg	537.6 (1)	0.505	bkg	ND			ND		
N5664	14		9/9/04 1020	9/21/04 1215	513.8 (1)	0.825	bkg	540.4	2.46	bkg	ND			ND		
N5895	14		9/21/04 1215	9/28/04 1625	515.6 (1)	0.851	bkg	537.6 (1)	0.490	bkg	ND			ND		
N6018	14		9/28/04 1625	10/5/04 1212	516.9 (1)	0.735	bkg	537.0 (1)	0.727	bkg	ND			ND		
N6271	14		10/5/04 1212	10/12/04 1300	512.9 (1)	0.917	bkg	ND			ND			ND		
N6648	14		10/12/04 1300	10/25/04 1638	514.2	1.53	bkg	ND			ND			ND		
N3231	15		5/20/04 1015	5/26/04 1345	ND			ND			ND			ND		
N3397	15		5/26/04 1345	6/3/04 1215	ND			ND			ND			ND		
N3727	15		6/3/04 1215	6/16/04 1750	ND			539.6	42.5	04-01	ND			ND		
N3874	15		6/16/04 1750	6/23/04 1140	ND			539.3	9.63	04-01	ND			ND		
N4038	15		6/23/04 1140	6/29/04 1230	ND			ND			ND			ND		
N4236	15		6/29/04 1230	7/8/04 1145	ND			ND			ND			ND		
N4477	15		7/8/04 1145	7/18/04 1135	ND			ND			ND			ND		
N4658	15		7/18/04 1135	7/28/04 0855	ND			ND			ND			573.6 (1)	1.05	bkg
N4868	15		7/28/04 0855	8/4/04 1315	ND			ND			ND			573.0 (1)	1.41	bkg
N5031	15		8/4/04 1315	8/13/04 1010	ND			ND			ND			ND		
N5301	15		8/13/04 1010	8/31/04 1458	513.8 (1)	1.87	bkg	ND			569.0	17.1	04-05	ND		
N5301D	15		8/31/04 1010	8/31/04 1458	513.8 (1)	2.06	bkg	ND			568.8	12.8	04-05	ND		
N5510	15		8/31/04 1458	9/9/04 1057	ND			ND			568.4	1,020	04-06	ND		
N5665	15		9/9/04 1057	9/21/04 1240	ND			ND			567.8	151	04-06	ND		
N5665D	15		9/9/04 1057	9/21/04 1240	ND			ND			567.9	140	04-06	ND		
N5896	15		9/21/04 1240	9/29/04 0948	ND			ND			568.1	18.1	04-06	ND		
N6019	15		9/29/04 0948	10/5/04 1432	ND			ND			568.7	21.5	04-06	ND		
N6272	15		10/5/04 1432	10/12/04 1405	ND			ND			569.1	10.5	04-06	ND		
N6649	15		10/12/04 1405	10/26/04 0807	514.2 (1)	2.35	bkg	ND			568.0	29.3	04-06	ND		
N8005	15		10/26/04 0807	1/10/05 1405	515.6	2.83	bkg	ND			570.0	13.9	04-06	ND		
N8182	15		1/10/05 1405	1/18/05 1208	514.5 (1)	1.12	bkg	ND			ND			ND		
N8442	15		1/18/05 1208	2/1/05 1811	ND			ND			ND			ND		
N8539	15		2/1/05 1811	2/9/05 1818	516.2 (1)	0.908	bkg	ND			ND			ND		
N8539D	15		2/1/05 1811	2/9/05 1818	514.8 (1)	1.10	bkg	ND			ND			ND		

OUL #	Station #	Station Name	Date/Time		Fluorescein Results		Trace	Eosine Results		Trace	RWT Results		Trace	SRB Results		Trace
			Placed	Recovered	Peak nm	Conc. ppb	#	Peak nm	Conc. ppb	#	Peak nm	Conc. ppb	#	Peak nm	Conc. ppb	#
N3232	16		5/20/04 1040	5/26/04 1400	ND			ND			572.8 (1)	1.40	bkg	ND		
N3398	16		5/26/04 1400	6/3/04 1230	ND			ND			ND			ND		
N3728	16		6/3/04 1230	6/16/04 1800	ND			ND			ND			ND		
N3875	16		6/16/04 1800	6/23/04 1145	ND			ND			ND			ND		
N4039	16		6/23/04 1145	6/29/04 1235	ND			ND			ND			ND		
N4237	16		6/29/04 1235	7/8/04 1150	ND			ND			ND			ND		
N4478	16		7/8/04 1150	7/18/04 1140	ND			ND			ND			ND		
N4659	16		7/18/04 1140	7/28/04 0900	ND			ND			568.4	6.72	04-05	ND		
N4869	16		7/28/04 0900	8/4/04 1320	ND			ND			568.6	222	04-05	ND		
N5032	16		8/4/04 1320	8/13/04 1015	ND			ND			568.3	129	04-05	ND		
N5302	16		8/13/04 1015	8/31/04 1453	ND			ND			568.4	36.0	04-05	ND		
N5511	16		8/31/04 1453	9/9/04 1055	ND			ND			568.2	26.2	04-05	ND		
N5666	16		9/9/04 1055	9/21/04 1245	ND			ND			567.7	25.6	04-05	ND		
N5897	16		9/21/04 1245	9/29/04 0955	ND			ND			ND			ND		
N6021	16		9/29/04 0955	10/5/04 1438	ND			ND			ND			ND		
N6021D	16		9/29/04 0955	10/5/04 1438	ND			ND			570.2 (1)	1.99	04-05	ND		
N6273	16		10/5/04 1438	10/12/04 1410	ND			ND			ND			ND		
N6650	16		10/12/04 1410	10/26/04 0815	514.6 (1)	1.39	bkg	ND			567.4	9.37	04-05	ND		
N8039	16		10/26/04 0815	1/10/05 1400	514.8 (1)	1.44	bkg	ND			570.6	13.5	04-05	ND		
N8039D	16		10/26/04 0815	1/10/05 1400	514.8 (1)	1.70	bkg	ND			570.2	16.3	04-05	ND		
N8183	16		1/10/05 1400	1/18/05 1204	516.0	43.4	05-13	ND			ND			ND		
N8443	16		1/18/05 1204	2/1/05 1815	515.9	16.5	05-13	ND			ND			ND		
N8541	16		2/1/05 1815	2/9/05 1822	514.0 (1)	1.00	05-13	ND			570.0 (1)	3.08	bkg	ND		
N8958	16		2/9/05 1822	2/25/05 1120	514.6 (1)	1.19	05-13	ND			570.6 (1)	3.40	bkg	ND		
N3233	17		5/20/04 1130	5/26/04 1000	516.3	1.03	bkg	539.6 (1)	0.779	bkg	ND			ND		
N3399	17		5/26/04 1000	6/3/04 1015	516.2 (1)	0.591	bkg	541.2 (1)	0.515	bkg	ND			ND		
N3729	17		6/3/04 1015	6/17/04 1700	517.0 (1)	0.871	bkg	ND			ND			ND		
N3876	17		6/17/04 1700	6/24/04 1140	515.0	0.593	bkg	ND			ND			ND		
N4041	17		6/24/04 1140	6/30/04 0940	516.0	1.51	bkg	ND			ND			ND		
N4238	17		6/30/04 0940	7/9/04 1215	516.3	0.990	bkg	ND			ND			ND		
N4479	17		7/9/04 1215	7/18/04 1930	515.4 (1)	0.638	bkg	ND			ND			ND		
N4661	17		7/18/04 1930	7/28/04 1530	ND			ND			ND			ND		
N4661D	17		7/18/04 1930	7/28/04 1530	ND			ND			ND			ND		
N4870	17		7/28/04 1530	8/5/04 0930	515.0 (1)	0.532	bkg	ND			ND			ND		
N5033	17		8/5/04 0930	8/13/04 1455	514.0 (1)	0.916	bkg	ND			ND			ND		
N5303	17		8/13/04 1455	9/1/04 1535	514.6 (1)	1.63	bkg	ND			ND			ND		
N3234	18		5/20/04 1505	5/26/04 1445	ND			ND			ND			ND		
N3401	18		5/26/04 1445	6/3/04 1200	ND			ND			ND			ND		
N3730	18		6/3/04 1200	6/16/04 1840	ND			ND			ND			ND		
N3877	18		6/16/04 1840	6/23/04 1330	ND			ND			ND			ND		
N4042	18		6/23/04 1330	6/29/04 1305	ND			ND			ND			ND		
N4239	18		6/29/04 1305	7/8/04 1215	ND			ND			ND			ND		
N4481	18		7/8/04 1215	7/18/04 1215	ND			ND			ND			ND		
N4662	18		7/18/04 1215	7/28/04 0825	ND			ND			567.7	29,200	04-05	ND		
N4871	18		7/28/04 0825	8/4/04 1350	ND			ND			567.7	25,700	04-05	ND		
N5034	18		8/4/04 1350	8/13/04 1045	ND			ND			567.9	5,170	04-05	ND		
N5304	18		8/13/04 1045	8/31/04 1540	ND			ND			569.0	1,300	04-05	ND		
N5512	18		8/31/04 1540	9/9/04 1135	ND			ND			568.6	309	04-05	ND		
N5667	18		9/9/04 1135	9/21/04 1252	ND			ND			567.8	179	04-05	ND		
N5898	18		9/21/04 1252	9/29/04 1033	ND			ND			568.4	139	04-05	ND		
N6022	18		9/29/04 1033	10/5/04 1445	ND			ND			568.4	88.4	04-05	ND		
N6274	18		10/5/04 1445	10/12/04 1440	ND			ND			569.1	54.1	04-05	ND		
N6651	18		10/12/04 1440	10/26/04 0909	ND			ND			568.1	108	04-05	ND		
N6957	18		10/26/04 0909	11/8/04 1540	ND			ND			568.9	64.3	04-05	ND		
N7224	18		11/8/04 1540	11/17/04 1250	ND			ND			569.0	23.8	04-05	ND		
	18		11/17/04 1250	12/3/04 1642	(8)											
N8006	18		12/3/04 1642	1/10/05 1304	ND			ND			569.6	66.8	04-05	ND		

OUL #	Station #	Station Name	Date/Time	Date/Time	Fluorescein Results		Trace	Eosine Results		Trace	RWT Results		Trace	SRB Results		Trace
			Placed	Recovered	Peak nm	Conc. ppb	#	Peak nm	Conc. ppb	#	Peak nm	Conc. ppb	#	Peak nm	Conc. ppb	#
N8184	18		1/10/05 1304	1/18/05 1216	514.4 (1)	0.674	bkg	ND			569.1	8.75	04-05	ND		
N3235	19		5/20/04 1740	5/26/04 1315	512.4 (1)	0.988	bkg	ND			ND			575.8 (1)	2.65	bkg
N3402	19		5/26/04 1315	6/3/04 1115	ND			ND			ND			575.0 (1)	1.88	bkg
N3731	19		6/3/04 1115	6/17/04 0950	ND			540.1	986	04-01	ND			ND		
N3878	19		6/17/04 0950	6/23/04 1350	ND			539.5	73.3	04-01	ND			ND		
N3878D	19		6/17/04 0950	6/23/04 1350	ND			539.5	77.4	04-01	ND			ND		
N4043	19		6/23/04 1350	6/29/04 1330	ND			539.5	55.4	04-01	ND			ND		
N4241	19		6/29/04 1330	7/8/04 1250	ND			539.4	27.6	04-01	ND			ND		
N4241D	19		6/29/04 1330	7/8/04 1250	ND			539.3	26.0	04-01	ND			ND		
N4482	19		7/8/04 1250	7/18/04 1305	515.6 (1)	0.880	bkg	539.2	3.56	04-01	ND			574.5 (1)	1.63	bkg
N4663	19		7/18/04 1305	7/28/04 1010	515.6 (1)	1.41	bkg	538.8	5.80	04-01	ND			575.2 (1)	2.81	bkg
N4872	19		7/28/04 1010	8/4/04 1620	515.2	1.68	bkg	538.8	5.60	04-01	ND			574.6 (1)	3.55	bkg
N5035	19		8/4/04 1620	8/13/04 1115	514.9	6.63	bkg	536.2	6.20	04-01	570.8 (1)	4.32	bkg	ND		
N5305	19		8/13/04 1115	8/30/04 1115	514.2	7.33	bkg	536.2	4.80	04-01	ND			575.0 (1)	5.73	bkg
N3236	20		5/20/04 1800	5/26/04 1330	ND			ND			ND			ND		
N3236D	20		5/20/04 1800	5/26/04 1330	ND			ND			ND			ND		
N3403	20		5/26/04 1330	6/3/04 1130	515.8 (1)	0.429	bkg	ND			ND			ND		
N3732	20		6/3/04 1130	6/17/04 1000	ND			ND			ND			ND		
N3879	20		6/17/04 1000	6/23/04 1400	514.6 (1)	0.458	bkg	ND			ND			ND		
N4044	20		6/23/04 1400	6/29/04 1335	514.4 (1)	0.318	bkg	ND			ND			ND		
N4044D	20		6/23/04 1400	6/29/04 1335	515.0 (1)	0.363	bkg	ND			ND			ND		
N4242	20		6/29/04 1335	7/8/04 1255	514.2 (1)	0.525	bkg	ND			ND			ND		
N4483	20		7/8/04 1255	7/18/04 1310	514.1 (1)	0.341	bkg	ND			ND			ND		
N4483D	20		7/8/04 1255	7/18/04 1310	511.8 (1)	0.444	bkg	ND			ND			ND		
N4664	20		7/18/04 1310	7/28/04 1015	512.6 (1)	0.425	bkg	ND			570.6 (1)	0.770	bkg	ND		
N4873	20		7/28/04 1015	8/4/04 1610	514.8 (1)	0.449	bkg	ND			565.4 (1)	0.619	bkg	ND		
N5036	20		8/4/04 1610	8/13/04 1120	512.5 (1)	1.38	bkg	ND			ND			ND		
N5306	20		8/13/04 1120	8/31/04 1620	513.2 (1)	1.48	bkg	ND			ND			ND		
N5668	20		8/31/04 1620	9/21/04 1320	514.6 (1)	1.40	bkg	ND			ND			ND		
N5899	20		9/21/04 1320	9/29/04 1718	513.8 (1)	1.17	bkg	ND			ND			ND		
N5899D	20		9/21/04 1320	9/29/04 1718	513.9 (1)	1.09	bkg	ND			ND			ND		
N6652	20		9/29/04 1718	10/25/04 0925	513.6 (1)	1.56	bkg	ND			ND			ND		
N3237	21		5/21/04 0925	5/26/04 0915	516.2	0.998	bkg	ND			ND			ND		
N3404	21		5/26/04 0915	6/3/04 0830	514.6 (1)	0.450	bkg	ND			ND			ND		
N3733	21		6/3/04 0830	6/17/04 1515	515.2	2.38	bkg	ND			ND			ND		
N3881	21		6/17/04 1515	6/24/04 0915	514.6 (1)	0.636	bkg	ND			ND			ND		
N4045	21		6/24/04 0915	6/30/04 0720	515.3	1.21	bkg	ND			ND			ND		
N4243	21		6/30/04 0720	7/9/04 1115	514.4	0.936	bkg	ND			ND			ND		
N4484	21		7/9/04 1115	7/18/04 1820	513.8 (1)	0.558	bkg	ND			ND			ND		
N4665	21		7/18/04 1820	7/28/04 1630	514.5	1.61	bkg	ND			567.1	4.27	bkg	ND		
N4874	21		7/28/04 1630	8/5/04 0815	515.0	3.92	bkg	ND			565.0 (1)	6.58	bkg	ND		
N5037	21		8/5/04 0815	8/13/04 1540	514.1	1.33	bkg	ND			565.0 (1)	1.44	bkg	ND		
N5307	21		8/13/04 1540	9/1/04 1405	514.2	4.47	bkg	ND			564.8 (1)	4.38	bkg	ND		
N5901	21		9/1/04 1405	9/29/04 1542	514.7	4.96	bkg	ND			565.0 (1)	3.67	bkg	ND		
N6653	21		9/29/04 1542	10/27/04 1059	514.2	6.39	bkg	ND			564.8 (1)	1.58	bkg	ND		
N7513	21		10/27/04 1059	12/3/04 1355	515.6	2.45	bkg	ND			ND			ND		
N7545	21		12/3/04 1355	12/7/04 1055	516.2 (1)	0.720	bkg	ND			ND			ND		
N7775	21		12/7/04 1055	12/21/04 1646	516.1	4.09	bkg	ND			ND			ND		
N8007	21		12/21/04 1646	1/5/05 1105	516.0	4.28	bkg	ND			ND			ND		
N8959	21		1/5/05 1105	2/25/05 1225	515.8 (1)	1.04	bkg	ND			568.6 (1)	1.89	bkg	ND		
N9438	21		2/25/05 1225	3/16/05 1620	517.0 (1)	0.804	bkg	ND			ND			ND		
N3238	22		5/21/04 1010	5/26/04 0930	ND			ND			ND			ND		
N3405	22		5/26/04 1930	6/3/04 0845	514.2 (1)	0.568	bkg	ND			ND			ND		
N3734	22		6/3/04 0845	6/17/04 1520	ND			ND			564.4 (1)	4.24	bkg	ND		
N3882	22		6/17/04 1520	6/24/04 0925	515.0 (1)	0.477	bkg	ND			566.2 (1)	2.33	bkg	ND		
N4046	22		6/24/04 0925	6/30/04 0730	514.8 (1)	0.334	bkg	ND			564.2 (1)	3.29	bkg	ND		
N4244	22		6/30/04 0730	7/9/04 1125	514.9 (1)	0.364	bkg	ND			565.0 (1)	3.13	bkg	ND		

OUL #	Station #	Station Name	Date/Time	Date/Time	Fluorescein Results		Trace #	Eosine Results		Trace #	RWT Results		Trace #	SRB Results		Trace #
			Placed	Recovered	Peak nm	Conc. ppb		Peak nm	Conc. ppb		Peak nm	Conc. ppb		Peak nm	Conc. ppb	
N4485	22		7/9/04 1125	7/18/04 1825	ND		ND				ND		ND			
N4666	22		7/18/04 1825	7/28/04 1640	513.8 (1)	0.407	bkg	ND			565.2 (1)	3.37	bkg	ND		
N4875	22		7/28/04 1640	8/5/04 0825	514.4 (1)	0.542	bkg	ND			564.0 (1)	3.83	bkg	ND		
N5038	22		8/5/04 0825	8/13/04 1545	ND		ND				564.4 (1)	3.85	bkg	ND		
N5308	22		8/13/04 1545	9/1/04 1410	512.6 (1)	0.966	bkg	ND			563.8 (1)	2.5	bkg	ND		
N5902	22		9/1/04 1410	9/29/04 1551	514.6 (1)	0.697	bkg	ND			566.1 (1)	3.10	bkg	ND		
N6654	22		9/29/04 1551	10/27/04 1105	514.2 (1)	0.995	bkg	ND			ND			ND		
N7514	22		10/27/04 1105	12/3/04 1402	514.8 (1)	1.16	bkg	ND			ND			ND		
N7546	22		12/3/04 1402	12/7/04 1100	515.6 (1)	1.04	bkg	ND			ND			ND		
N7776	22		12/7/04 1100	12/21/04 1653	515.0 (1)	1.14	bkg	ND			ND			ND		
N8008	22		12/21/04 1653	1/11/05 1025	515.0	1.72	bkg	ND			ND			ND		
N8961	22		1/11/05 1025	2/25/05 1230	515.0	2.21	bkg	ND			566.8 (1)	2.80	bkg	ND		
N9439	22		2/25/05 1230	3/16/05 1644	515.8 (1)	1.46	bkg	ND			ND			ND		
N9439D	22		2/25/05 1230	3/16/05 1644	515.6 (1)	0.680	bkg	ND			ND			ND		
N3239	23		5/21/04 1055	5/26/04 0945	ND		ND				ND			ND		
N3406	23		5/26/04 0945	6/3/04 0900	ND		ND				ND			ND		
N3735	23		6/3/04 0900	6/17/04 1530	ND		ND				ND			ND		
N3883	23		6/17/04 1530	6/24/04 0935	ND		ND				ND			ND		
N4047	23		6/24/04 0935	6/30/04 0725	ND		ND				ND			ND		
N4245	23		6/30/04 0725	7/9/04 1130	ND		ND				ND			ND		
N4486	23		7/9/04 1130	7/18/04 1830	ND		ND				ND			ND		
N4667	23		7/18/04 1830	7/28/04 1645	ND			539.4 (1)	0.468	bkg	ND			ND		
N4876	23		7/28/04 1645	8/5/04 0830	ND		ND				ND			ND		
N5039	23		8/5/04 0830	8/13/04 1550	ND		ND				ND			ND		
N5309	23		8/13/04 1550	9/1/04 1420	513.2 (1)	0.524	bkg	ND			ND			ND		
N5903	23		9/1/04 1420	9/29/04 1600	515.0 (1)	0.812	bkg	ND			ND			ND		
N6655	23		9/29/04 1600	10/27/04 1112	513.6 (1)	0.613	bkg	ND			ND			ND		
N7515	23		10/27/04 1112	12/3/04 1407	ND		ND				ND			ND		
N7547	23		12/3/04 1407	12/7/04 1105	515.6 (1)	0.648	bkg	ND			ND			ND		
N7777	23		12/7/04 1105	12/21/04 1700	514.6 (1)	0.761	bkg	ND			ND			ND		
N8009	23		12/21/04 1700	1/11/05 1032	513.0 (1)	0.771	bkg	ND			ND			ND		
N8962	23		1/11/05 1032	2/25/05 1235	514.2 (1)	1.21	bkg	ND			ND			ND		
N8962D	23		1/11/05 1032	2/25/05 1235	513.8 (1)	1.04	bkg	ND			ND			ND		
N9441	23		2/25/05 1235	3/16/05 1651	514.4 (1)	0.918	bkg	ND			ND			ND		
N3241	24		5/21/04 1545	5/26/04 1045	514.0 (1)	0.701	Viacom	ND			569.2	4.87	Viacom	ND		
N3407	24		5/26/04 1045	6/3/04 1100	514.2 (1)	0.672	Viacom	ND			568.8	2.07	Viacom	ND		
N3581	24		6/3/04 1100	6/13/04 1515	513.4 (1)	1.11	Viacom	ND			567.3	8.24	Viacom	ND		
N3736	24		6/13/04 1515	6/17/04 0910	514.2 (1)	0.958	Viacom	ND			568.0	7.41	Viacom	ND		
N3884	24		6/17/04 0910	6/23/04 1615	514.1 (1)	0.751	Viacom	ND			568.6	5.99	Viacom	ND		
N4048	24		6/23/04 1615	6/29/04 1420	515.2 (1)	1.45	Viacom	ND			567.9	16.0	Viacom	ND		
N4246	24		6/29/04 1420	7/8/04 1340	514.8 (1)	1.44	Viacom	ND			567.9	15.0	Viacom	ND		
N4487	24		7/8/04 1340	7/18/04 1405	514.4 (1)	0.698	Viacom	ND			569.8 (1)	4.16	Viacom	ND		
N4668	24		7/18/04 1405	7/28/04 1110	513.4 (1)	1.36	Viacom	ND			569.0	8.60	Viacom	ND		
N4877	24		7/28/04 1110	8/4/04 1520	513.8	2.03	Viacom	ND			568.1	17.4	Viacom	ND		
N5041	24		8/4/04 1520	8/13/04 1145	513.9	3.51	Viacom	ND			568.2	21.3	Viacom	ND		
N5041D	24		8/4/04 1520	8/13/04 1145	514.1	3.44	Viacom	ND			568.0	18.7	Viacom	ND		
N5310	24		8/13/04 1145	8/31/04 1710	514.3	3.32	Viacom	ND			568.0	22.9	Viacom	ND		
N5513	24		8/31/04 1710	9/9/04 1143	513.9	3.15	Viacom	ND			568.1	17.4	Viacom	ND		
N5669	24		9/9/04 1143	9/21/04 1408	514.8	3.06	Viacom	ND			567.1	33.7	Viacom	ND		
N5904	24		9/21/04 1408	9/29/04 1136	514.9	3.39	Viacom	ND			567.5	33.0	Viacom	ND		
N6023	24		9/29/04 1136	10/5/04 1340	514.5	4.88	Viacom	ND			568.1	30.0	Viacom	ND		
N6275	24		10/5/04 1340	10/12/04 1650	513.9	4.53	Viacom	ND			568.5	21.0	Viacom	ND		
N6656	24		10/12/04 1650	10/26/04 1200	514.0	5.08	Viacom	ND			568.3	12.0	Viacom	ND		
N6958	24		10/26/04 1200	11/8/04 1005	516.0	1.92	Viacom	ND			ND			578.7	37.0	Viacom
N6958R	24		10/26/04 1200	11/8/04 1005	516.5	1.77	Viacom	ND			ND			578.4	23.4	Viacom
N7225	24		11/8/04 1005	11/17/04 1340	515.8	2.07	Viacom	ND			ND			578.2	61.8	Viacom
N7516	24		11/17/04 1340	12/3/04 1515	515.8	2.78	Viacom	ND			ND			578.9	27.0	Viacom

OUL #	Station #	Station Name	Date/Time		Fluorescein Results		Trace #	Eosine Results		Trace #	RWT Results		Trace #	SRB Results		Trace #
			Placed	Recovered	Peak nm	Conc. ppb		Peak nm	Conc. ppb		Peak nm	Conc. ppb		Peak nm	Conc. ppb	
N7778	24		12/3/04 1515	12/21/04 1453	516.9	3.86	Viacom	540.5	5.58	04-10	ND			577.9	34.1	Viacom
N3242	25		5/21/04 1600	5/26/04 1015	515.3	1.04	Viacom	ND			567.7	22.5	Viacom	ND		
N3408	25		5/26/04 1015	6/3/04 1030	518.6 (1)	0.790	Viacom	ND			567.8	5.82	Viacom	ND		
N3582	25		6/3/04 1030	6/13/04 1520	515.4	1.94	Viacom	ND			567.5	29.8	Viacom	ND		
N3737	25		6/13/04 1520	6/17/04 0850	514.4	2.44	Viacom	ND			567.3	34.8	Viacom	ND		
N3885	25		6/17/04 0850	6/23/04 1600	516.7	1.65	Viacom	ND			567.7	29.4	Viacom	ND		
N4049	25		6/23/04 1600	6/29/04 1455	516.3	2.74	Viacom	ND			567.7	42.0	Viacom	ND		
N4247	25		6/29/04 1455	7/8/04 1420	515.9	3.11	Viacom	ND			567.4	61.5	Viacom	ND		
N4488	25		7/8/04 1420	7/18/04 1425	515.5	1.14	Viacom	ND			567.7	15.3	Viacom	ND		
N4669	25		7/18/04 1425	7/28/04 1205	514.3	3.69	Viacom	ND			567.9	52.2	Viacom	ND		
N4878	25		7/28/04 1205	8/4/04 1510	514.5	7.13	Viacom	ND			567.9	103	Viacom	ND		
N5042	25		8/4/04 1510	8/13/04 1215	514.2	13.7	Viacom	ND			568.0	113	Viacom	ND		
N5311	25		8/13/04 1215	9/1/04 1040	514.9	11.7	Viacom	ND			567.9	156	Viacom	ND		
N5514	25		9/1/04 1040	9/9/04 1118	514.5	9.90	Viacom	ND			567.5	68.4	Viacom	ND		
N5670	25		9/9/04 1118	9/21/04 1437	515.1	10.7	Viacom	ND			567.0	116	Viacom	ND		
N5905	25		9/21/04 1437	9/29/04 1310	514.3	4.54	Viacom	ND			567.8	39.9	Viacom	ND		
N6024	25		9/29/04 1310	10/5/04 1546	514.4	12.2	Viacom	ND			568.1	68.4	Viacom	ND		
N6276	25		10/5/04 1546	10/12/04 1640	514.0	10.1	Viacom	ND			568.5	39.8	Viacom	ND		
N6657	25		10/12/04 1640	10/26/04 1135	514.7	7.13	Viacom	ND			567.5	54.9	Viacom	ND		
N6959	25		10/26/04 1135	11/8/04 1035	517.3	1.97	Viacom	ND			ND			577.5	52.1	Viacom
N6959R	25		10/26/04 1135	11/8/04 1035	517.6	1.56	Viacom	ND			ND			576.9	28.4	Viacom
N7226	25		11/8/04 1035	11/17/04 1345	516.9	1.85	Viacom	ND			ND			578.1	51.0	Viacom
N7517	25		11/17/04 1345	12/3/04 1455	517.6	2.49	Viacom	ND			ND			577.9	35.7	Viacom
N7779	25		12/3/04 1455	12/21/04 1526	515.8 (6)	2.06	Viacom	541.3	17.9	04-10	569.1	22.7	Viacom	ND		
N7779D	25		12/3/04 1455	12/21/04 1526	516.0 (6)	2.37	Viacom	541.7	25.5	04-10	569.1	30.9	Viacom	ND		
N8010	25		12/21/04 1526	1/11/05 1208	516.2	4.07	Viacom	541.5	36.3	04-10	567.9	46.1	Viacom	ND		
N8185	25		1/11/05 1208	1/18/05 1345	517.8	2.71	Viacom	541.0	10.9	04-10	569.0	12.3	Viacom	ND		
N8963	25		1/18/05 1345	2/24/05 1340	517.1	4.22	Viacom	541.3	3.53	04-10	569.1	45.0	Viacom	ND		
N9442	25		2/24/05 1340	3/16/05 1540	515.6	6.29	Viacom	ND			569.8	43.2	Viacom	ND		
N3243	26		5/21/04 1645	5/26/04 1030	514.9	0.757	Viacom	ND			568.1	11.0	Viacom	ND		
N3409	26		5/26/04 1030	6/3/04 1045	516.6 (1)	0.660	Viacom	ND			568.2	5.05	Viacom	ND		
N3583	26		6/3/04 1045	6/13/04 1530	515.4	1.40	Viacom	ND			567.1	14.6	Viacom	ND		
N3738	26		6/13/04 1530	6/17/04 0900	515.5	1.67	Viacom	ND			567.6	15.5	Viacom	ND		
N3886	26		6/17/04 0900	6/23/04 1605	515.5	0.890	Viacom	ND			567.8	10.4	Viacom	ND		
N4050	26		6/23/04 1605	6/29/04 1500	515.1	2.31	Viacom	ND			567.9	27.7	Viacom	ND		
N4248	26		6/29/04 1500	7/8/04 1425	516.3	2.58	Viacom	ND			ND			ND		
N4489	26		7/8/04 1425	7/18/04 1430	514.9	0.896	Viacom	ND			568.3	6.79	Viacom	ND		
N4670	26		7/18/04 1430	7/28/04 1210	514.9	1.69	Viacom	ND			567.9	13.4	Viacom	ND		
N4879	26		7/28/04 1210	8/4/04 1515	513.9	5.85	Viacom	ND			568.9	48.4	Viacom	ND		
N5043	26		8/4/04 1515	8/13/04 1220	514.3	6.62	Viacom	ND			567.9	43.5	Viacom	ND		
N5312	26		8/13/04 1220	9/1/04 1045	514.8	4.58	Viacom	ND			567.6	42.7	Viacom	ND		
N5515	26		9/1/04 1045	9/9/04 1122	514.3	3.07	Viacom	ND			568.1	16.4	Viacom	ND		
N5671	26		9/9/04 1122	9/21/04 1440	514.9	3.06	Viacom	ND			567.1	25.4	Viacom	ND		
N5906	26		9/21/04 1440	9/29/04 1313	514.5	14.3	Viacom	ND			567.7	133	Viacom	ND		
N6025	26		9/29/04 1313	10/5/04 1549	514.3	2.70	Viacom	ND			568.2	12.0	Viacom	ND		
N6277	26		10/5/04 1549	10/12/04 1645	514.1	3.25	Viacom	ND			568.2	11.5	Viacom	ND		
N6658	26		10/12/04 1645	10/26/04 1140	514.5	3.00	Viacom	ND			567.9	16.2	Viacom	ND		
N6961	26		10/26/04 1140	11/8/04 1040	517.1	1.04	Viacom	ND			ND			579.0	81.5	Viacom
N6961D	26		10/26/04 1140	11/8/04 1040	517.0	0.812	Viacom	ND			ND			578.7	50.8	Viacom
N6961R	26		10/26/04 1140	11/8/04 1040	517.6	1.06	Viacom	ND			ND			578.8	44.7	Viacom
	26		11/8/04 1040	11/17/04 1350	(8)											
N7518	26		11/17/04 1350	12/3/04 1458	517.4	1.20	Viacom	539.0 (1)	1.42	04-10	ND			578.9	34.3	Viacom
N7781	26		12/3/04 1458	12/21/04 1530	515.6 (6)	1.51	Viacom	541.5	6.37	04-10	ND			577.7	27.9	Viacom
N8011	26		12/21/04 1530	1/11/05 1215	516.4 (6)	2.76	Viacom	541.4	41.1	04-10	569.2	20.9	Viacom	ND		
N8186	26		1/11/05 1215	1/18/05 1350	517.6	2.51	Viacom	541.3	11.6	04-10	569.0	11.8	Viacom	ND		
N8964	26		1/18/05 1350	2/24/05 1345	515.8	2.70	Viacom	540.4 (1)	0.772	04-10	570.2	12.2	Viacom	ND		
N9443	26		2/24/05 1345	3/16/05 1545	516.1	1.93	Viacom	ND			571.5 (1)	5.64	Viacom	ND		

OUL #	Station #	Station Name	Date/Time	Date/Time	Fluorescein Results		Trace	Eosine Results		Trace	RWT Results		Trace	SRB Results		Trace
			Placed	Recovered	Peak nm	Conc. ppb	#	Peak nm	Conc. ppb	#	Peak nm	Conc. ppb	#	Peak nm	Conc. ppb	#
N3410	27		5/25/04 1400	6/3/04 0930	513.2 (1)	0.712	bkg	ND			ND			ND		
N3584	27		6/3/04 0930	6/13/04 1710	517.6	6.92	bkg	ND			ND			ND		
N3739	27		6/13/04 1710	6/17/04 1540	516.3	3.49	bkg	ND			ND			ND		
N3887	27		6/17/04 1540	6/24/04 0945	516.4	4.73	bkg	ND			ND			ND		
N4051	27		6/24/04 0945	6/30/04 0800	516.3	3.19	bkg	ND			ND			ND		
N4249	27		6/30/04 0800	7/9/04 1140	515.3	1.52	bkg	ND			567.5	20.1	bkg	ND		
N4490	27		7/9/04 1140	7/18/04 1845	514.0	0.989	bkg	ND			ND			ND		
N4671	27		7/18/04 1845	7/28/04 1500	517.0	3.02	bkg	ND			ND			ND		
N4881	27		7/28/04 1500	8/5/04 0900	517.3	3.27	bkg	ND			ND			ND		
N5044	27		8/5/04 0900	8/13/04 1430	515.5	3.22	bkg	ND			565.5 (1)	3.03	bkg	ND		
N5313	27		8/13/04 1430	9/1/04 1503	513.2 (1)	2.63	bkg	ND			ND			ND		
N5907	27		9/1/04 1503	9/29/04 1648	513.0 (1)	1.68	bkg	ND			ND			ND		
N6659	27		9/29/04 1648	10/27/04 1008	516.4	9.28	bkg	ND			ND			ND		
N3411	28		5/25/04 1445	6/3/04 0945	513.6 (1)	0.463	bkg	ND			ND			ND		
N3585	28		6/3/04 0945	6/13/04 1720	517.5	15.5	bkg	ND			ND			ND		
N3741	28		6/13/04 1720	6/17/04 1550	516.1	4.40	bkg	ND			ND			ND		
N3888	28		6/17/04 1550	6/24/04 0955	516.1	3.32	bkg	ND			ND			ND		
N4052	28		6/24/04 0955	6/30/04 0810	516.2	3.10	bkg	ND			ND			ND		
N4250	28		6/30/04 0810	7/9/04 1145	515.9	1.44	bkg	ND			ND			ND		
N4491	28		7/9/04 1145	7/18/04 1850	516.0	1.98	bkg	ND			ND			ND		
N4672	28		7/18/04 1850	7/28/04 1505	517.3	4.89	bkg	ND			ND			ND		
N4882	28		7/28/04 1505	8/5/04 0905	516.9	8.15	bkg	ND			ND			ND		
N5045	28		8/5/04 0905	8/13/04 1425	517.2	5.99	bkg	ND			ND			ND		
N5314	28		8/13/04 1425	9/1/04 1500	513.6	2.00	bkg	ND			567.0 (1)	1.84	bkg	ND		
N5908	28		9/1/04 1500	9/29/04 1645	512.8 (1)	0.743	bkg	ND			ND			ND		
N6661	28		9/29/04 1645	10/27/04 1012	515.7	3.71	bkg	ND			ND			ND		
N6661D	28		9/29/04 1645	10/27/04 1012	515.8	3.60	bkg	ND			ND			ND		
N3412	29		5/25/04 1530	6/3/04 1000	ND			ND			ND			ND		
N3586	29		6/3/04 1000	6/13/04 1745	ND			ND			ND			ND		
N3586D	29		6/3/04 1000	6/13/04 1745	ND			ND			ND			ND		
N3742	29		6/13/04 1745	6/17/04 1630	ND			ND			ND			ND		
N3889	29		6/17/04 1630	6/24/04 1115	ND			ND			572.5	3.02	bkg	ND		
N4053	29		6/24/04 1115	6/30/04 0915	ND			ND			ND			ND		
N4251	29		6/30/04 0915	7/9/04 1200	ND			ND			ND			ND		
N4492	29		7/9/04 1200	7/18/04 1910	ND			ND			ND			ND		
N4673	29		7/18/04 1910	7/28/04 1515	ND			ND			573.0 (1)	1.76	bkg	ND		
N4673V	29		7/18/04 1910	7/28/04 1515	ND			ND			572.6 (1)	1.19	bkg	ND		
N4883	29		7/28/04 1515	8/5/04 0915	ND			ND			572.8 (1)	1.47	bkg	ND		
N4883D	29		7/28/04 1515	8/5/04 0915	ND			ND			574.0 (1)	1.50	bkg	ND		
N5046	29		8/5/04 0915	8/13/04 1440	ND			ND			ND			ND		
N5315	29		8/13/04 1440	9/1/04 1520	ND			ND			ND			ND		
N3413	30		5/25/04 1730	6/3/04 0915	514.0 (1)	0.804	bkg	ND			ND			ND		
N3413D	30		5/25/04 1730	6/3/04 0915	513.0 (1)	0.864	bkg	ND			ND			ND		
N3587	30		6/3/04 0915	6/13/04 1655	512.4 (1)	0.704	bkg	ND			566.2 (1)	1.80	bkg	ND		
N3743	30		6/13/04 1655	6/17/04 1450	ND			ND			ND			ND		
N3890	30		6/17/04 1450	6/24/04 0845	513.6 (1)	0.511	bkg	ND			ND			ND		
N4054	30		6/24/04 0845	6/30/04 0715	513.2 (1)	0.567	bkg	ND			ND			ND		
N4252	30		6/30/04 0715	7/9/04 1055	ND			540.2	27,000	04-03	ND			ND		
N4493	30		7/9/04 1055	7/18/04 1805	ND			539.6	204	04-03	ND			ND		
N4674	30		7/18/04 1805	7/28/04 1615	ND			540.1	1,910	04-03	ND			ND		
N4884	30		7/28/04 1615	8/5/04 0810	ND			539.7	548	04-03	ND			ND		
N5047	30		8/5/04 0810	8/13/04 1525	ND			539.7	548	04-03	ND			ND		
N5316	30		8/13/04 1525	9/1/04 1337	ND			539.7	453	04-03	ND			ND		
N5516	30		9/1/04 1337	9/9/04 1422	ND			539.3	161	04-03	ND			ND		
N5672	30		9/9/04 1422	9/21/04 1543	ND			539.6	218	04-03	ND			ND		
N5909	30		9/21/04 1543	9/29/04 1608	ND			539.4	248	04-03	ND			ND		
N6026	30		9/29/04 1608	10/5/04 1656	ND			539.3	182	04-03	ND			ND		

OUL #	Station #	Station Name	Date/Time		Fluorescein Results		Trace #	Eosine Results		Trace #	RWT Results		Trace #	SRB Results		Trace #
			Placed	Recovered	Peak nm	Conc. ppb		Peak nm	Conc. ppb		Peak nm	Conc. ppb		Peak nm	Conc. ppb	
N6278	30		10/5/04 1656	10/14/04 1000	ND			538.8	180	04-03	ND			ND		
N6662	30		10/14/04 1000	10/27/04 1130	ND (2)		bkg	538.5	49.2	04-03	ND			ND		
N6962	30		10/27/04 1130	11/8/04 1637	513.8 (2)	1.22	bkg	540.5	15.2	04-03	ND			ND		
N7227	30		11/8/04 1637	11/17/04 1440	515.8 (2)	2.25	bkg	540.3	22.8	04-03	ND			ND		
N7519	30		11/17/04 1440	12/3/04 1420	516.0 (2)	2.52	bkg	539.7	13.1	04-03	ND			ND		
N7519D	30		11/17/04 1440	12/3/04 1420	515.8 (2)	2.28	bkg	539.3	12.1	04-03	ND			ND		
N7548	30		12/3/04 1420	12/7/04 1112	515.8 (2)	1.26	bkg	541.5	13.6	04-03	ND			ND		
N7782	30		12/7/04 1112	12/21/04 1708	515.8 (2)	3.66	bkg	541.1	35.4	04-03	ND			ND		
N8012	30		12/21/04 1708	1/5/05 1125	515.8 (2)	5.94	bkg	540.7	40.3	04-03	ND			ND		
N8187	30		1/5/05 1125	1/18/05 1440	515.8 (1)	1.45	bkg	536.6 (1)	0.952	04-03	ND			ND		
N8965	30		1/18/05 1440	2/25/05 1245	516.0 (2)	4.97	bkg	541.0	40.5	04-03	ND			ND		
N9444	30		2/25/05 1245	3/16/05 1703	515.6 (2)	3.65	bkg	541.1	33.4	04-03	ND			ND		
N3414	31		5/26/04 1115	6/3/04 1500	514.3	25.6	Viacom	ND			568.2	256	Viacom	ND		
N3588	31		6/3/04 1500	6/14/04 0845	514.3	65.9	Viacom	ND			568.4	744	Viacom	ND		
N3744	31		6/14/04 0845	6/17/04 0830	513.8	41.3	Viacom	ND			569.0	252	Viacom	ND		
N3891	31		6/17/04 0830	6/23/04 1515	514.5	35.7	Viacom	ND			568.1	329	Viacom	ND		
N4055	31		6/23/04 1515	6/29/04 1440	514.5	84.9	Viacom	ND			568.2	1020	Viacom	ND		
N4253	31		6/29/04 1440	7/8/04 1400	514.7	73.0	Viacom	ND			567.7	814	Viacom	ND		
N4494	31		7/8/04 1400	7/19/04 1115	514.1	51.0	Viacom	ND			568.2	429	Viacom	ND		
N4675	31		7/19/04 1115	7/28/04 1140	514.2	59.4	Viacom	ND			568.5	807	Viacom	ND		
N4885	31		7/28/04 1140	8/4/04 1450	514.1	84.3	Viacom	ND			568.6	1140	Viacom	ND		
N5048	31		8/4/04 1450	8/13/04 1205	514.4	197	Viacom	ND			568.2	1,260	Viacom	ND		
N5317	31		8/13/04 1205	9/1/04 1018	515.0	298	Viacom	ND			567.5	1,730	Viacom	ND		
N5517	31		9/1/04 1018	9/9/04 1304	514.4	187	Viacom	ND			568.2	887	Viacom	ND		
N5673	31		9/9/04 1304	9/21/04 1425	514.6	55.3	Viacom	ND			567.4	309	Viacom	ND		
N5910	31		9/21/04 1425	9/29/04 1300	515.0	467	Viacom	ND			567.1	2,560	Viacom	ND		
N6027	31		9/29/04 1300	10/5/04 1523	514.5	221	Viacom	ND			568.3	1,020	Viacom	ND		
N6279	31		10/5/04 1523	10/12/04 1600	514.8	471	Viacom	ND			569.7	1440	Viacom	ND		
N6663	31		10/12/04 1600	10/26/04 1115	515.7	306	Viacom	ND			568.2	1,320	Viacom	ND		
N6963	31		10/26/04 1115	11/8/04 1022	516.3	66.7	Viacom	ND			569.1	244	Viacom	ND		
N7228	31		11/8/04 1022	11/17/04 1405	516.6	98.9	Viacom	ND			568.9	250	Viacom	ND		
N7521	31		11/17/04 1405	12/3/04 1442	515.6	105	Viacom	541.5	1,150	04-10	570.0	300	Viacom	ND		
N7549	31		12/3/04 1442	12/7/04 1156	517.7	51.2	Viacom	540.9	156	04-10	568.2	140	Viacom	ND		
N7549D	31		12/3/04 1442	12/7/04 1156	517.7	40.4	Viacom	541.1	121	04-10	568.2	108	Viacom	ND		
N7783	31		12/7/04 1156	12/21/04 1510	515.4 (6)	64.3	Viacom	541.8	4,140	04-10	570.6 (10)	860	Viacom	ND		
N8013	31		12/21/04 1510	1/11/05 1228	517.4	85.5	Viacom	541.6	415	04-10	568.5	732	Viacom	ND		
N8188	31		1/11/05 1228	1/18/05 1702	517.5	34.2	Viacom	541.1	83.2	04-10	567.9	129	Viacom	ND		
N8966	31		1/18/05 1702	2/24/05 1328	516.9	147	Viacom	541.4	102	04-10	569.3	1,190	Viacom	ND		
N8985	31		2/24/05 1328	3/1/05 1328	516.2	75.5	Viacom	541.8 (7)	20.3	04-10	569.4	399	Viacom	ND		
N9445	31		3/1/05 1328	3/16/05 1528	515.8	157	Viacom	541.4 (7)	57.3	04-10	569.6	932	Viacom	ND		
N3589	32		6/7/04 1430	6/13/04 1755	ND			ND			ND			ND		
N3745	32		6/13/04 1755	6/17/04 1645	ND			ND			ND			ND		
N3892	32		6/17/04 1645	6/24/04 1130	ND			ND			569.6 (1)	1.12	bkg	ND		
N4056	32		6/24/04 1130	6/30/04 0930	ND			ND			ND			575.0 (1)	0.722	bkg
N4254	32		6/30/04 0930	7/9/04 1210	ND			ND			ND			ND		
N4495	32		7/9/04 1210	7/18/04 1920	ND			ND			ND			574.8 (1)	0.844	bkg
N4676	32		7/18/04 1920	7/28/04 1535	ND			ND			571.4 (1)	1.01	bkg	ND		
N4886	32		7/28/04 1535	8/5/04 0925	ND			ND			ND			ND		
N5049	32		8/5/04 0925	8/13/04 1450	ND			ND			ND			ND		
N5318	32		8/13/04 1450	9/1/04 1528	ND			ND			569.8 (1)	2.51	bkg	ND		
N3590	33		6/7/04 1440	6/13/04 1740	514.9	1.75	bkg	ND			564.4 (1)	4.01	bkg	ND		
N3746	33		6/13/04 1740	6/17/04 1600	513.6	1.01	bkg	ND			ND			ND		
N3893	33		6/17/04 1600	6/24/04 1010	514.8	0.887	bkg	ND			ND			ND		
N4057	33		6/24/04 1010	6/30/04 0820	514.8	1.25	bkg	ND			ND			ND		
N4255	33		6/30/04 0820	7/9/04 1235	514.8	0.506	bkg	ND			ND			ND		
N4496	33		7/9/04 1235	7/19/04 1040	514.2	0.884	bkg	ND			ND			ND		
N4677	33		7/19/04 1040	7/28/04 1545	513.8	1.16	bkg	ND			565.8 (1)	2.86	bkg	ND		

OUL #	Station #	Station Name	Date/Time	Date/Time	Fluorescein Results		Trace #	Eosine Results		Trace #	RWT Results		Trace #	SRB Results		Trace #
			Placed	Recovered	Peak nm	Conc. ppb		Peak nm	Conc. ppb		Peak nm	Conc. ppb		Peak nm	Conc. ppb	
N4887	33		7/28/04 1545	8/5/04 0840	514.6	1.01	bkg	ND			565.4 (1)	1.79	bkg	ND		
N5050	33		8/5/04 0840	8/13/04 1510	513.9	2.65	bkg	ND			564.0 (1)	4.67	bkg	ND		
	33		8/13/04 1510	9/1/04 1433	(8)											
N5911	33		9/1/04 1433	9/29/04 1620	512.8 (1)	1.61	bkg	ND			ND				ND	
N6664	33		9/29/04 1620	10/27/04 1030	514.2	2.55	bkg	ND			ND				ND	
N3591	34		6/7/04 1450	6/13/04 1750	514.0 (1)	0.443	bkg	ND			ND				ND	
N3747	34		6/13/04 1750	6/17/04 1610	512.4 (1)	0.591	bkg	ND			ND				ND	
N3894	34		6/17/04 1610	6/24/04 1020	514.6	0.958	bkg	ND			ND				ND	
N4058	34		6/24/04 1020	6/30/04 0830	ND			ND			ND				ND	
N4256	34		6/30/04 0830	7/9/04 1240	ND			ND			ND				ND	
N4497	34		7/9/04 1240	7/19/04 1045	515.8 (1)	0.718	bkg	ND			ND				ND	
N4678	34		7/19/04 1045	7/28/04 1550	513.8 (1)	0.628	bkg	ND			ND				ND	
N4888	34		7/28/04 1550	8/5/04 0845	515.2 (1)	0.645	bkg	ND			ND				ND	
N5051	34		8/5/04 0845	8/13/04 1515	512.4 (1)	0.794	bkg	ND			ND				ND	
N5319	34		8/13/04 1515	9/1/04 1440	513.8	1.37	bkg	ND			ND				ND	
N5912	34		9/1/04 1440	9/29/04 1625	513.4 (1)	1.37	bkg	ND			ND				ND	
N6665	34		9/29/04 1625	10/27/04 1033	514.5 (1)	0.649	bkg	ND			ND				ND	
N3592	35		6/7/04 1510	6/13/04 1640	512.6 (1)	0.977	bkg	ND			ND				ND	
N3748	35		6/13/04 1640	6/17/04 1310	513.0 (1)	0.790	bkg	ND			570.4 (1)	1.39	bkg	ND		
N3895	35		6/17/04 1310	6/23/04 1815	513.2 (1)	0.623	bkg	ND			ND				ND	
N4059	35		6/23/04 1815	6/29/04 1645	514.0 (1)	0.585	bkg	ND			ND				ND	
N4257	35		6/29/04 1645	7/9/04 0730	514.4 (1)	0.466	bkg	ND			ND				ND	
N4498	35		7/9/04 0730	7/18/04 1630	512.9 (1)	0.629	bkg	ND			ND				ND	
N4679	35		7/18/04 1630	7/28/04 1700	513.6	1.25	bkg	ND			565.0 (1)	1.28	bkg	ND		
N4889	35		7/28/04 1700	8/5/04 0955	513.6 (1)	0.622	bkg	ND			ND				ND	
N5052	35		8/5/04 0955	8/13/04 1600	512.4 (1)	1.38	bkg	ND			ND				ND	
N5321	35		8/13/04 1600	9/1/04 1555	513.1 (1)	2.68	bkg	ND			ND				ND	
N5321D	35		8/13/04 1600	9/1/04 1555	513.5 (1)	3.25	bkg	ND			ND				ND	
N5913	35		9/1/04 1555	9/29/04 1332	513.2 (1)	1.39	bkg	ND			ND				ND	
N6666	35		9/29/04 1332	10/27/04 1145	514.9 (1)	1.81	bkg	ND			ND				ND	
N7550	35		10/27/04 1145	12/7/04 1130	515.2 (1)	1.21	bkg	ND			ND				ND	
N7784	35		12/7/04 1130	12/21/04 1550	513.6 (1)	0.854	bkg	ND			ND				ND	
N8014	35		12/21/04 1550	1/11/05 1140	515.4 (1)	0.902	bkg	ND			ND				ND	
N3749	36		6/13/04 1615	6/17/04 1315	ND			ND			572.0 (1)	3.36	bkg	ND		
N3749D	36		6/13/04 1615	6/17/04 1315	ND			ND			572.6 (1)	3.77	bkg	ND		
N3896	36		6/17/04 1315	6/23/04 1800	ND			ND			570.2 (1)	2.1	bkg	ND		
N4061	36		6/23/04 1800	6/29/04 1655	ND			ND			ND				ND	
N4258	36		6/29/04 1655	7/9/04 0745	ND			ND			ND				ND	
N4499	36		7/9/04 0745	7/18/04 1640	ND			ND			ND			575.2 (1)	1.82	bkg
N4681	36		7/18/04 1640	7/28/04 1705	ND			ND			ND			575.0 (1)	1.67	bkg
N4890	36		7/28/04 1705	8/5/04 1005	ND			ND			ND				ND	
N5053	36		8/5/04 1005	8/13/04 1610	ND			ND			567.2 (1)	1.31	bkg	ND		
N5322	36		8/13/04 1610	9/1/04 1128	ND			ND			571.8 (1)	8.46	bkg	ND		
N5914	36		9/1/04 1128	9/29/04 1346	ND			ND			ND				ND	
N6667	36		9/29/04 1346	10/27/04 1158	ND			ND			ND				ND	
N3593	37		6/7/04 1700	6/13/04 1600	513.8 (1)	0.860	bkg	ND			ND				ND	
N3750	37		6/13/04 1600	6/17/04 1325	513.0 (1)	0.728	bkg	ND			570.8 (1)	1.92	bkg	ND		
N3897	37		6/17/04 1325	6/23/04 1740	514.2	0.829	bkg	ND			ND				ND	
N4062	37		6/23/04 1740	6/29/04 1705	ND			ND			ND				ND	
N4259	37		6/29/04 1705	7/9/04 0750	516.8 (1)	0.693	bkg	ND			ND				ND	
N4501	37		7/9/04 0750	7/18/04 1650	513.2 (1)	0.528	bkg	ND			ND				ND	
N4682	37		7/18/04 1650	7/28/04 1715	513.4 (1)	0.75	bkg	ND			ND				ND	
N4682D	37		7/18/04 1650	7/28/04 1715	513.8 (1)	0.704	bkg	ND			ND				ND	
N4891	37		7/28/04 1715	8/5/04 1010	513.0 (1)	0.591	bkg	ND			ND				ND	
N5054	37		8/5/04 1010	8/13/04 1615	ND			ND			ND				ND	
N5323	37		8/13/04 1615	9/1/04 1138	513.2	3.00	bkg	ND			ND				ND	
N5915	37		9/1/04 1138	9/29/04 1355	513.4 (1)	0.749	bkg	ND			ND				ND	

OUL #	Station #	Station Name	Date/Time		Fluorescein Results		Trace #	Eosine Results		Trace #	RWT Results		Trace #	SRB Results		Trace #
			Placed	Recovered	Peak nm	Conc. ppb		Peak nm	Conc. ppb		Peak nm	Conc. ppb		Peak nm	Conc. ppb	
N6668	37		9/29/04 1355	10/27/04 1205	513.6 (1)	1.72	bkg	ND			ND			ND		
N3594	38		6/7/04 1710	6/13/04 1610	513.6 (1)	1.00	bkg	ND			ND			ND		
N3751	38		6/13/04 1610	6/17/04 1330	513.8	1.27	bkg	ND			ND			ND		
N3898	38		6/17/04 1330	6/23/04 1750	514.0	1.11	bkg	ND			ND			ND		
N4063	38		6/23/04 1750	6/29/04 1710	514.6 (1)	0.448	bkg	ND			ND			ND		
N4261	38		6/29/04 1710	7/9/04 0755	513.4 (1)	0.657	bkg	ND			ND			ND		
N4261D	38		6/29/04 1710	7/9/04 0755	514.4 (1)	0.802	bkg	ND			ND			ND		
N4502	38		7/9/04 0755	7/18/04 1655	513.2 (1)	0.642	bkg	ND			ND			ND		
N4683	38		7/18/04 1655	7/28/04 1720	513.6	0.699	bkg	ND			ND			ND		
N4892	38		7/28/04 1720	8/5/04 1015	513.6 (1)	0.661	bkg	ND			ND			ND		
N5055	38		8/5/04 1015	8/13/04 1620	513.2 (1)	1.02	bkg	ND			ND			ND		
N5324	38		8/13/04 1620	9/1/04 1142	513.8	2.76	bkg	ND			ND			ND		
N5916	38		9/1/04 1142	9/29/04 1357	513.4 (1)	1.17	bkg	ND			ND			ND		
N6669	38		9/29/04 1357	10/27/04 1209	514.8	1.40	bkg	ND			ND			ND		
N3595	39		6/7/04 1745	6/13/04 1540	ND			ND			570.6 (1)	4.62	bkg	ND		
N3752	39		6/13/04 1540	6/17/04 0840	512.0 (1)	1.55	bkg	ND			571.2 (1)	3.26	bkg	ND		
N3899	39		6/17/04 0840	6/23/04 1530	513.9	1.40	bkg	ND			ND			ND		
N4064	39		6/23/04 1530	6/29/04 1450	514.8	0.809	bkg	ND			ND			ND		
N4262	39		6/29/04 1450	7/8/04 1410	ND			ND			ND			ND		
N4503	39		7/8/04 1410	7/18/04 1435	512.6 (1)	1.08	bkg	ND			ND			ND		
N4503D	39		7/8/04 1410	7/18/04 1435	512.2 (1)	1.10	bkg	ND			ND			ND		
N4684	39		7/18/04 1435	7/28/04 1200	ND			ND			571.6 (1)	3.71	bkg	ND		
N4893	39		7/28/04 1200	8/4/04 1500	513.2 (1)	0.756	bkg	ND			ND			ND		
N5325	39		8/4/04 1500	9/1/04 1030	513.0 (1)	7.39	bkg	ND			569.4 (1)	8.59	bkg	ND		
N5917	39		9/1/04 1030	9/29/04 1155	512.7 (1)	0.626	bkg	ND			ND			ND		
N6670	39		9/29/04 1155	10/26/04 1125	514.7	4.16	bkg	ND			ND			ND		
N7785	39		10/26/04 1125	12/21/04 1520	516.1	5.52	bkg	ND			ND			ND		
N8015	39		12/21/04 1520	1/11/05 1240	516.6	3.62	bkg	ND			ND			ND		
N3596	40		6/7/04 1330	6/13/04 1810	ND			ND			ND			ND		
N3753	40		6/13/04 1810	6/17/04 1105	ND			ND			ND			574.8 (1)	2.48	bkg
N3901	40		6/17/04 1105	6/24/04 0820	ND			ND			ND			ND		
N3901D	40		6/17/04 1105	6/24/04 0820	ND			ND			ND			ND		
N4065	40		6/24/04 0820	6/29/04 1545	ND			ND			ND			ND		
N4065D	40		6/24/04 0820	6/29/04 1545	ND			ND			ND			ND		
N4263	40		6/29/04 1545	7/8/04 1450	ND			ND			ND			ND		
N4504	40		7/8/04 1450	7/18/04 1520	ND			ND			ND			ND		
N4685	40		7/18/04 1520	7/28/04 1350	ND			ND			570.8 (1)	1.55	bkg	ND		
N4894	40		7/28/04 1350	8/4/04 1720	ND			ND			ND			ND		
N5056	40		8/4/04 1720	8/13/04 1310	ND			ND			ND			ND		
N5326	40		8/13/04 1310	9/1/04 0828	ND			ND			569.2 (1)	5.40	bkg	ND		
N3597	41		6/8/04 1040	6/13/04 1805	ND			ND			573.0 (1)	8.20	bkg	ND		
N3754	41		6/13/04 1805	6/17/04 1055	ND			ND			571.4 (1)	7.38	bkg	ND		
N3902	41		6/17/04 1055	6/24/04 0830	ND			ND			570.0 (1)	5.58	bkg	ND		
N4066	41		6/24/04 0830	6/29/04 1535	512.6 (1)	0.629	bkg	ND			ND			ND		
N4264	41		6/29/04 1535	7/8/04 1440	513.7	3.11	bkg	ND			573.2 (1)	4.5	bkg	ND		
N4505	41		7/8/04 1440	7/18/04 1510	513.0 (1)	1.07	bkg	ND			573.4 (1)	2.52	bkg	ND		
N4686	41		7/18/04 1510	7/28/04 1340	514.1	9.32	bkg	ND			573.4 (1)	4.19	bkg	ND		
N4895	41		7/28/04 1340	8/4/04 1730	513.7	7.75	bkg	ND			573.8 (1)	4.51	bkg	ND		
N5057	41		8/4/04 1730	8/13/04 1300	513.9	1.28	bkg	ND			ND			ND		
N5327	41		8/13/04 1300	8/31/04 1735	511.6 (1)	5.98	bkg	ND			572.6 (1)	13.2	bkg	ND		
N5918	41		8/31/04 1735	9/27/04 1520	513.3 (1)	2.40	bkg	ND			569.0 (1)	2.59	bkg	ND		
N6028	41		9/27/04 1520	10/5/04 1600	513.0 (1)	2.60	bkg	ND			ND			ND		
N6281	41		10/5/04 1600	10/14/04 1020	512.4 (1)	4.90	bkg	ND			573.8 (1)	6.42	bkg	ND		
N6281D	41		10/5/04 1600	10/14/04 1020	512.2 (1)	5.67	bkg	ND			573.2 (1)	8.06	bkg	ND		
N6671	41		10/14/04 1020	10/27/04 0813	513.8	4.42	bkg	ND			571.3 (1)	5.64	bkg	ND		
N3598	42		6/8/04 1115	6/13/04 1510	514.1	2.00	bkg	ND			ND			ND		
N3755	42		6/13/04 1510	6/17/04 0915	513.6	2.16	bkg	ND			ND			ND		

OUL #	Station #	Station Name	Date/Time		Fluorescein Results		Trace #	Eosine Results		Trace #	RWT Results		Trace #	SRB Results		Trace #
			Placed	Recovered	Peak nm	Conc. ppb		Peak nm	Conc. ppb		Peak nm	Conc. ppb		Peak nm	Conc. ppb	
N3903	42		6/17/04 0915	6/23/04 1630	513.8	2.84	bkg	ND			ND			ND		
N4067	42		6/23/04 1630	6/29/04 1425	514.4	2.39	bkg	ND			ND			ND		
N4265	42		6/29/04 1425	7/8/04 1345	514.2	2.02	bkg	ND			ND			ND		
N4506	42		7/8/04 1345	7/18/04 1410	513.8	3.36	bkg	ND			ND			ND		
N4687	42		7/18/04 1410	7/28/04 1115	514.2	2.18	bkg	ND			ND			ND		
N4896	42		7/28/04 1115	8/4/04 1525	514.0	2.30	bkg	ND			ND			ND		
N5058	42		8/4/04 1525	8/13/04 1150	513.5 (1)	4.29	bkg	ND			ND			ND		
N5328	42		8/13/04 1150	8/31/04 1706	513.9	6.23	bkg	ND			ND			ND		
N5919	42		8/31/04 1706	9/29/04 1142	514.0	6.34	bkg	ND			ND			ND		
N5919D	42		8/31/04 1706	9/29/04 1142	514.1	4.96	bkg	ND			ND			ND		
N6672	42		9/29/04 1142	10/26/04 1205	513.9	1.52	bkg	ND			ND			ND		
N3599	43		6/8/04 1315	6/13/04 1645	515.2	0.880	bkg	ND			ND			ND		
N3756	43		6/13/04 1645	6/17/04 1415	514.6	0.790	bkg	ND			ND			ND		
N3904	43		6/17/04 1415	6/24/04 1220	514.6	1.22	bkg	ND			ND			ND		
N4068	43		6/24/04 1220	6/30/04 0630	515.6 (1)	0.747	bkg	ND			ND			ND		
N4266	43		6/30/04 0630	7/9/04 0845	ND			539.8	102	04-03	ND			ND		
N4507	43		7/9/04 0845	7/18/04 1735	ND			539.4	19.5	04-03	ND			ND		
N4688	43		7/18/04 1735	7/28/04 1755	515.8 (1)	0.637	bkg	539.3	8.48	04-03	ND			ND		
N4897	43		7/28/04 1755	8/5/04 1050	516.0 (1)	0.535	bkg	539.0	3.56	04-03	ND			ND		
N5059	43		8/5/04 1050	8/13/04 0810	517.4	1.31	bkg	535.2	2.24	04-03	ND			ND		
N5329	43		8/13/04 0810	9/1/04 1305	515.9	1.20	bkg	535.8	1.50	04-03	ND			ND		
N5518	43		9/1/04 1305	9/9/04 1346	514.7 (1)	1.99	bkg	535.2 (1)	1.47	04-03	ND			ND		
N5674	43		9/9/04 1346	9/21/04 1504	516.2	2.23	bkg	536.8	1.57	04-03	ND			ND		
N5921	43		9/21/04 1504	9/29/04 1451	515.8	1.65	bkg	ND			ND			ND		
N6029	43		9/29/04 1451	10/6/04 0900	514.1 (1)	0.986	bkg	ND			ND			ND		
N6282	43		10/6/04 0900	10/14/04 0930	514.2 (1)	0.959	bkg	ND			ND			ND		
N6673	43		10/14/04 0930	10/27/04 1512	515.3 (1)	1.67	bkg	535.2 (1)	1.21	bkg	ND			ND		
N6964	43		10/27/04 1512	11/8/04 1617	515.8 (1)	1.02	bkg	ND			ND			ND		
N7229	43		11/8/04 1617	11/17/04 1520	515.0 (1)	0.863	bkg	ND			ND			ND		
N7522	43		11/17/04 1520	12/3/04 1620	515.6 (1)	1.12	bkg	ND			ND			ND		
N7786	43		12/3/04 1620	12/21/04 1600	515.4 (1)	1.64	bkg	ND			ND			ND		
	43		12/21/04 1600	2/25/05 1300	(8)											
N9446	43		2/25/05 1300	3/16/05 1605	514.8 (1)	1.09	bkg	ND			ND			ND		
N9929	43		2/25/05 1300	4/7/05 1041	515.6 (1)	0.972	bkg	540.2	6.79	04-03	ND			ND		
P0444	43		4/7/05 1041	4/15/05 0957	516.1 (1)	1.21	bkg	536.6 (1)	1.09	04-03	ND			ND		
P0617	43		4/15/05 0957	4/20/05 1828	516.0 (1)	0.816	bkg	ND			ND			ND		
N3601	44		6/8/04 1415	6/13/04 1545	514.8 (1)	0.999	IU	539.1	5.88	IU	ND			ND		
N3757	44		6/13/04 1545	6/16/04 2000	515.4 (1)	0.623	IU	538.9	3.47	IU	ND			ND		
N3905	44		6/16/04 2000	6/23/04 1730	514.7	23.5	IU	537.9	20.4	IU	ND			ND		
N4069	44		6/23/04 1730	6/30/04 1410	ND (2)			539.5	77.0	IU	ND			ND		
N4267	44		6/30/04 1410	7/8/04 1325	515.6 (1)	1.13	bkg	539.3	9.85	IU	ND			ND		
N4508	44		7/8/04 1325	7/18/04 1345	515.6 (1)	0.987	bkg	539.1	9.81	IU	ND			574.4 (1)	2.82	bkg
N4689	44		7/18/04 1345	7/28/04 1100	ND			539.4	13.7	IU	ND			ND		
N4898	44		7/28/04 1100	8/4/04 1555	514.6 (1)	1.16	bkg	539.0	18.5	IU	ND			ND		
N5061	44		8/4/04 1555	8/13/04 1135	515.6 (6)	2.12	bkg	538.1	15.2	IU	ND			ND		
N5061D	44		8/4/04 1555	8/13/04 1135	515.8 (6)	1.69	bkg	538.1	11.6	IU	ND			ND		
N5330	44		8/13/04 1135	8/31/04 1656	514.5	14.2	bkg	537.0	15.8	IU	ND			ND		
N5519	44		8/31/04 1656	9/9/04 1152	516.0	2.75	bkg	538.5	12.9	IU	ND			ND		
N5519D	44		8/31/04 1656	9/9/04 1152	515.6	1.93	bkg	538.4	8.90	IU	ND			ND		
N5675	44		9/9/04 1152	9/21/04 1355	514.8 (6)	3.40	bkg	538.5	22.9	IU	ND			ND		
N5922	44		9/21/04 1355	9/29/04 1125	516.7	7.70	bkg	537.3	15.8	IU	ND			ND		
N6030	44		9/29/04 1125	10/5/04 1330	517.8	2.66	bkg	537.5	6.17	IU	ND			ND		
N6283	44		10/5/04 1330	10/12/04 1700	517.2	2.49	bkg	537.9	7.17	IU	ND			ND		
N6674	44		10/12/04 1700	10/26/04 1025	516.4	4.33	bkg	537.1	5.60	IU	ND			ND		
N6965	44		10/26/04 1025	11/8/04 0953	517.8	1.73	bkg	540.0	2.17	IU	ND			ND		
N7230	44		11/8/04 0953	11/17/04 1425	517.4 (1)	2.10	bkg	540.7	5.88	IU	ND			ND		
N7523	44		11/17/04 1425	12/3/04 1526	517.6 (1)	1.46	bkg	537.8	1.27	IU	ND			ND		

OUL #	Station #	Station Name	Date/Time		Fluorescein Results		Trace #	Eosine Results		Trace #	RWT Results		Trace #	SRB Results		Trace #
			Placed	Recovered	Peak nm	Conc. ppb		Peak nm	Conc. ppb		Peak nm	Conc. ppb		Peak nm	Conc. ppb	
N7787	44		12/3/04 1526	12/21/04 1440	517.8	2.54	bkg	540.5	10.0	IU	ND			ND		
N8189	44		12/21/04 1440	1/18/05 1330	517.6	5.55	bkg	540.5	22.3	IU	ND			ND		
N3602	45		6/8/04 1530	6/13/04 1500	513.8 (1)	0.643	bkg	ND			ND			ND		
N3758	45		6/13/04 1500	6/17/04 0910	513.4 (1)	0.490		ND			ND			ND		
N3906	45		6/17/04 0910	6/23/04 1645	514.0 (1)	0.497		ND			ND			ND		
N4070	45		6/23/04 1645	6/29/04 1400	ND			ND			ND			ND		
N4268	45		6/29/04 1400	7/8/04 1320	ND			ND			ND			ND		
N4509	45		7/8/04 1320	7/18/04 1340	512.8 (1)	0.355		ND			ND			ND		
N4690	45		7/18/04 1340	7/28/04 1050	ND			ND			ND			ND		
N4899	45		7/28/04 1050	8/4/04 1535	ND			ND			ND			ND		
N5062	45		8/4/04 1535	8/13/04 1130	ND			ND			ND			ND		
N5331	45		8/13/04 1130	8/31/04 1647	513.2 (1)	2.64	bkg	ND			569.4 (1)	4.71	bkg	ND		
N5923	45		8/31/04 1647	9/29/04 1113	513.6 (1)	1.11	bkg	ND			ND			ND		
N6675	45		9/29/04 1113	10/26/04 1015	513.4 (1)	1.34	bkg	ND			ND			ND		
N3603	46		6/8/04 1615	6/13/04 1430	512.8 (1)	0.571	bkg	ND			ND			ND		
N3759	46		6/13/04 1430	6/17/04 0930	ND			ND			ND			ND		
N3907	46		6/17/04 0930	6/24/04 0720	514.4 (1)	0.544	bkg	ND			ND			ND		
N4071	46		6/24/04 0720	6/29/04 1345	ND			ND			ND			ND		
N4269	46		6/29/04 1345	7/8/04 1300	ND			ND			ND			ND		
N4510	46		7/8/04 1300	7/18/04 1320	ND			ND			ND			ND		
N4691	46		7/18/04 1320	7/28/04 1035	ND			ND			ND			ND		
N5332	46		7/28/04 1035	8/31/04 1630	513.8 (1)	0.646	bkg	ND			ND			ND		
N6676	46		8/31/04 1630	10/26/04 0950	513.2 (1)	0.794	bkg	ND			ND			ND		
N3604	47		6/8/04 1545	6/13/04 1445	ND			ND			ND			ND		
N3761	47		6/13/04 1445	6/17/04 0940	514.0 (1)	0.541	bkg	ND			ND			ND		
N3908	47		6/17/04 0940	6/24/04 1715	ND			ND			ND			ND		
N4072	47		6/24/04 1715	6/29/04 1350	ND			ND			ND			ND		
N4270	47		6/29/04 1350	7/8/04 1310	ND			ND			ND			ND		
N4511	47		7/8/04 1310	7/18/04 1325	ND			ND			ND			ND		
N4692	47		7/18/04 1325	7/28/04 1040	ND			ND			ND			ND		
N5333	47		7/28/04 1040	8/31/04 1638	ND			ND			ND			ND		
N6677	47		8/31/04 1638	10/26/04 1002	ND			ND			ND			ND		
N3605	48		6/9/04 0830	6/11/04 1510	ND			ND			ND			ND		
N3762	48		6/11/04 1510	6/16/04 0830	512.2 (1)	0.481	bkg	ND			ND			ND		
N3909	48		6/16/04 0830	6/23/04 0830	ND			ND			ND			ND		
N4073	48		6/23/04 0830	6/29/04 0900	ND			ND			ND			ND		
N4271	48		6/29/04 0900	7/8/04 0825	512.6 (1)	0.490	bkg	ND			ND			ND		
N4512	48		7/8/04 0825	7/18/04 0810	ND			ND			ND			ND		
N4693	48		7/18/04 0810	7/27/04 1530	ND			ND			ND			ND		
N4901	48		7/27/04 1530	8/4/04 0915	ND			ND			ND			ND		
N5063	48		8/4/04 0915	8/13/04 0730	ND			ND			ND			ND		
N5334	48		8/13/04 0730	8/31/04 0902	514.0 (1)	2.24	bkg	ND			ND			ND		
N5676	48		8/31/04 0902	9/21/04 0935	514.2 (1)	1.93	bkg	ND			ND			ND		
N5924	48		9/21/04 0935	9/28/04 0944	513.0 (1)	0.746	bkg	ND			ND			ND		
N6031	48		9/28/04 0944	10/5/04 1016	512.8 (1)	1.05	bkg	ND			ND			ND		
N6284	48		10/5/04 1016	10/12/04 1000	ND			ND			ND			ND		
N6678	48		10/12/04 1000	10/25/04 1214	ND			ND			ND			ND		
N6966	48		10/25/04 1214	11/8/04 1325	514.4 (1)	0.901	bkg	ND			ND			ND		
N7231	48		11/8/04 1325	11/17/04 0930	ND			ND			ND			ND		
N7524	48		11/17/04 0930	12/6/04 0955	515.2 (1)	1.33	bkg	ND			ND			ND		
N7788	48		12/6/04 0955	12/20/04 0948	ND			541.2	9.82	04-11	ND			ND		
N8016	48		12/20/04 0948	1/5/05 1445	ND			541.2	89.6	04-11	ND			ND		
N8017	48		1/5/05 1445	1/10/05 1502	ND			541.6	12.6	04-11	ND			579.5	662	05-12
N8190	48		1/10/05 1502	1/18/05 1008	ND			541.3	12.6	04-11	ND			578.8	14.1	05-12
N8542	48		1/18/05 1008	2/11/05 0847	ND			541.1	23.0	04-11	ND			578.0	12.5	05-12
N8967	48		2/11/05 0847	2/25/05 0900	ND			541.3	10.2	04-11	ND			577.0 (1)	3.21	05-12
N8986	48		2/25/05 0900	3/1/05 1230	ND			539.4 (5)	9.26	04-11	569.6	799	05-17	ND		

OUL #	Station #	Station Name	Date/Time		Fluorescein Results		Trace #	Eosine Results		Trace #	RWT Results		Trace #	SRB Results		Trace #
			Placed	Recovered	Peak nm	Conc. ppb		Peak nm	Conc. ppb		Peak nm	Conc. ppb		Peak nm	Conc. ppb	
N9451	48		3/1/05 1230	3/16/05 1102	ND			539.0 57)	7.04	04-11	570.0	412	05-17	ND		
N9721	48		3/16/05 1102	3/23/05 1720	ND			541.1	5.74	04-11	570.0	13.5	05-17	ND		
N9763	48		3/23/05 1720	3/31/05 0902	515.8 (1)	1.03	bkg	540.9	5.90	04-11	569.3 (1)	8.51	05-17	ND		
P0483	48		3/31/05 0902	4/8/05 0949	515.6 (1)	0.815	bkg	539.8	3.47	04-11	569.4 (1)	4.27	05-17	ND		
N3606	49		6/9/04 0850	6/11/04 1450	ND			ND			ND			ND		
N3606D	49		6/9/04 0850	6/11/04 1450	ND			ND			ND			ND		
N3763	49		6/11/04 1450	6/16/04 0900	ND			ND			ND			ND		
N3910	49		6/16/04 0900	6/23/04 0845	513.6 (1)	0.414	bkg	ND			ND			ND		
N4074	49		6/23/04 0845	6/29/04 0910	ND			ND			ND			ND		
N4272	49		6/29/04 0910	7/8/04 0835	ND			ND			ND			ND		
N4513	49		7/8/04 0835	7/18/04 0825	513.6 (1)	0.566	bkg	ND			ND			ND		
N4694	49		7/18/04 0825	7/27/04 1550	513.4 (1)	0.506	bkg	ND			ND			ND		
N4902	49		7/27/04 1550	8/4/04 0930	512.0 (1)	0.644	bkg	ND			ND			ND		
N4902D	49		7/27/04 1550	8/4/04 0930	ND			ND			ND			ND		
N5064	49		8/4/04 0930	8/13/04 0745	ND			ND			ND			ND		
N5335	49		8/13/04 0745	8/31/04 0919	512.2 (1)	1.27	bkg	ND			567.2 (1)	1.47	bkg	ND		
N5531	49		8/31/04 0919	9/10/04 1512	ND			ND			ND			ND		
N5677	49		9/10/04 1512	9/21/04 0900	ND			ND			ND			ND		
N5925	49		9/21/04 0900	9/28/04 0915	ND			ND			ND			ND		
N6032	49		9/28/04 1915	10/5/04 0950	ND			ND			ND			ND		
N6285	49		10/5/04 0950	10/12/04 1040	ND			ND			ND			ND		
N6679	49		10/12/04 1040	10/25/04 1142	513.2 (1)	1.15	bkg	ND			ND			ND		
N6679D	49		10/12/04 1040	10/25/04 1142	512.8 (1)	1.61	bkg	ND			ND			ND		
N6967	49		10/25/04 1142	11/8/04 1155	516.0 (1)	0.906	bkg	ND			ND			ND		
N7232	49		11/8/04 1155	11/17/04 1015	ND			ND			ND			ND		
N7525	49		11/17/04 1015	12/6/04 0930	514.0 (1)	0.944	bkg	ND			ND			ND		
N7789	49		12/6/04 0930	12/21/04 1210	514.6 (1)	1.04	bkg	ND			ND			ND		
N8191	49		12/21/04 1210	1/18/05 1030	514.2 (1)	1.38	bkg	ND			ND			ND		
N8968	49		1/18/05 1030	2/25/05 0840	ND			ND			ND			ND		
N8987	49		2/25/05 0840	3/1/05 1300	ND			ND			ND			ND		
N3607	50		6/9/04 0915	6/11/04 1445	ND			ND			ND			ND		
N3764	50		6/11/04 1445	6/16/04 0910	ND			ND			ND			ND		
N3911	50		6/16/04 0910	6/23/04 0850	ND			ND			ND			ND		
N4075	50		6/23/04 0850	6/29/04 0915	ND			ND			ND			ND		
N4273	50		6/29/04 0915	7/8/04 0840	ND			ND			ND			ND		
N4514	50		7/8/04 0840	7/18/04 0830	ND			ND			ND			ND		
N4695	50		7/18/04 0830	7/27/04 1555	ND			ND			ND			ND		
N4903	50		7/27/04 1555	8/4/04 0935	ND			ND			ND			ND		
N5065	50		8/4/04 0935	8/13/04 0750	ND			ND			ND			ND		
N5336	50		8/13/04 0750	8/31/04 0924	ND			ND			ND			ND		
N5532	50		8/31/04 0924	9/10/04 1516	ND (4)			ND			ND			ND		
N5678	50		9/10/04 1515	9/21/04 0903	ND (4)			ND			ND			ND		
N5926	50		9/21/04 0903	9/28/04 0918	ND (4)			ND			ND			ND		
N6033	50		9/28/04 0918	10/5/04 0955	ND (4)			ND			ND			ND		
N6286	50		10/5/04 0955	10/12/04 1045	ND			ND			ND			ND		
N6681	50		10/12/04 1045	10/25/04 1146	ND			ND			ND			ND		
N6968	50		10/25/04 1146	11/8/04 1200	ND			ND			ND			ND		
N7233	50		11/8/04 1200	11/17/04 1020	ND			ND			ND			ND		
N7526	50		11/17/04 1020	12/6/04 0935	ND			ND			ND			ND		
N7790	50		12/6/04 0935	12/21/04 1213	ND			ND			ND			ND		
N8192	50		12/21/04 1213	1/18/05 1034	515.2 (1)	0.686	bkg	ND			ND			ND		
N3608	51		6/9/04 1010	6/11/04 1330	ND			ND			574.8 (1)	1.11	bkg	574.4 (1)	2.79	
N3765	51		6/11/04 1330	6/16/04 0930	ND			ND			ND			574.4 (1)	2.79	
N3912	51		6/16/04 0930	6/23/04 0900	ND			ND			ND			ND		
N4076	51		6/23/04 0900	6/29/04 0925	ND			ND			570.8 (1)	1.95	bkg	ND		
N4274	51		6/29/04 0925	7/8/04 0850	ND			ND			ND			ND		
N4515	51		7/8/04 0850	7/18/04 0840	ND			ND			ND			ND		

OUL #	Station #	Station Name	Date/Time	Date/Time	Fluorescein Results		Trace	Eosine Results		Trace	RWT Results		Trace	SRB Results		Trace
			Placed	Recovered	Peak nm	Conc. ppb	#	Peak nm	Conc. ppb	#	Peak nm	Conc. ppb	#	Peak nm	Conc. ppb	#
N4696	51		7/18/04 0840	7/27/04 1610	ND			ND			573.2 (1)	3.41	bkg	ND		
N4904	51		7/27/04 1610	8/4/04 0945	513.2 (1)	1.55	bkg	ND			573.6 (1)	1.86	bkg	ND		
N5066	51		8/4/04 0945	8/13/04 0755	512.4 (1)	1.25	bkg	ND			ND			ND		
N5337	51		8/13/04 0755	8/31/04 0940	ND			ND			570.2 (1)	9.48	bkg	ND		
N5521	51		8/31/04 0940	9/9/04 0907	ND			ND			ND			ND		
N5679	51		9/9/04 0907	9/21/04 0915	ND			ND			ND			ND		
N5927	51		9/21/04 0915	9/28/04 1105	ND			ND			ND			ND		
N6034	51		9/28/04 1105	10/5/04 0938	ND			ND			ND			ND		
N6287	51		10/5/04 0938	10/12/04 1105	ND			ND			568.4 (1)	1.64	bkg	ND		
N6682	51		10/12/04 1105	10/25/04 1125	513.4 (1)	5.34	bkg	ND			569.8 (1)	3.22	bkg	ND		
N6969	51		10/25/04 1125	11/8/04 1143	515.4 (1)	1.23	bkg	ND			ND			ND		
N7234	51		11/8/04 1143	11/17/04 1040	515.0 (1)	0.973	bkg	ND			ND			ND		
N7527	51		11/17/04 1040	12/6/04 0917	515.5	5.08	bkg	ND			ND			ND		
N7791	51		12/6/04 0917	12/21/04 1225	515.0	1.66	bkg	ND			ND			ND		
N8018	51		12/21/04 1225	1/10/05 1540	513.4 (1)	1.24	bkg	ND			ND			ND		
N8193	51		1/10/05 1540	1/18/05 1045	515.8 (1)	0.673	bkg	ND			ND			ND		
N3609	52		6/9/04 1030	6/11/04 1345	ND			ND			ND			ND		
N3766	52		6/11/04 1345	6/16/04 0945	ND			ND			569.3	458	04-02	ND		
N3913	52		6/16/04 0945	6/23/04 0905	ND			ND			568.8	366	04-02	ND		
N4077	52		6/23/04 0905	6/29/04 0930	ND			ND			568.2	265	04-02	ND		
N4275	52		6/29/04 0930	7/8/04 0855	ND			ND			568.7	102	04-02	ND		
N4516	52		7/8/04 0855	7/18/04 0845	ND			ND			568.5	56.3	04-02	ND		
N4697	52		7/18/04 0845	7/27/04 1615	ND			540.2	7.240	04-04	ND			ND		
N4905	52		7/27/04 1615	8/4/04 0950	ND			540.1	7.130	04-04	ND			ND		
N5067	52		8/4/04 0950	8/13/04 0800	ND			540.3	1.150	04-04	ND			ND		
N5338	52		8/13/04 0800	8/31/04 0937	ND			540.1	764	04-04	ND			ND		
N5522	52		8/31/04 0937	9/9/04 0905	ND			539.9	186	04-04	ND			ND		
N5681	52		9/9/04 0905	9/21/04 0912	514.4 (6)	7.48	04-07	539.7	107	04-04	ND			ND		
N5928	52		9/21/04 0912	9/28/04 1108	516.4	8.24	04-07	539.4	44.3	04-04	ND			ND		
N6035	52		9/28/04 1108	10/5/04 0935	516.0	10.9	04-07	539.4	57.5	04-04	ND			ND		
N6288	52		10/5/04 0935	10/12/04 1100	515.4 (6)	3.74	04-07	539.6	59.4	04-04	ND			ND		
N6683	52		10/12/04 1100	10/25/04 1120	ND			539.8	82.0	04-04	ND			ND		
N6970	52		10/25/04 1120	11/8/04 1138	516.8	1.700	04-07	541.4 (7)	104	04-04	ND			ND		
N6970D	52		10/25/04 1120	11/8/04 1138	516.7	2.460	04-07	539.6 (7)	102	04-04	ND			ND		
N7235	52		11/8/04 1138	11/17/04 1035	515.4	2.87	04-07	541.5	54.8	04-04	ND			ND		
N7528	52		11/17/04 1035	12/6/04 0912	ND			541.7	62.3	04-04	ND			ND		
N7792	52		12/6/04 0912	12/21/04 1222	ND			541.9	90.5	04-04	ND			ND		
N8019	52		12/21/04 1222	1/10/05 1535	ND			541.5	62.8	04-04	ND			ND		
N8019D	52		12/21/04 1222	1/10/05 1535	ND			541.7	31.4	04-04	ND			ND		
N8194	52		1/10/05 1535	1/18/05 1050	ND			541.5	13.5	04-04	ND			ND		
N3610	53		6/9/04 1200	6/11/04 1645	ND			ND			ND			ND		
N3767	53		6/11/04 1645	6/16/04 1930	ND			ND			ND			ND		
N3914	53		6/16/04 1930	6/23/04 1150	ND			ND			ND			ND		
N4078	53		6/23/04 1150	6/29/04 1145	ND			ND			ND			ND		
N4276	53		6/29/04 1145	7/8/04 1055	ND			ND			ND			ND		
N4517	53		7/8/04 1055	7/18/04 1045	ND			ND			ND			ND		
N4698	53		7/18/04 1045	7/28/04 0810	ND			ND			ND			ND		
N4906	53		7/28/04 0810	8/4/04 1225	ND			ND			568.4	3.95	04-05	ND		
	53		8/4/04 1225	8/13/04 0800	(11)											
N5339	53		8/13/04 0800	8/31/04 1400	ND			ND			570.2	7.85	04-05	ND		
N5523	53		8/31/04 1400	9/9/04 1035	ND			ND			ND (4)			ND		
N6684	53		9/9/04 1035	10/25/04 1650	ND			ND			ND			ND		
N7793	53		10/25/04 1650	12/21/04 1414	516.3	5.12	bkg	ND			ND			ND		
N3611	54		6/9/04 1545	6/11/04 1630	ND			ND			ND			ND		
N3768	54		6/11/04 1630	6/17/04 1210	ND			539.5	7.02	04-01	ND			ND		
N3915	54		6/17/04 1210	6/23/04 1140	ND			539.4	2.12	04-01	ND			ND		
N4079	54		6/23/04 1140	6/29/04 1140	ND			ND			ND			ND		

OUL #	Station #	Station Name	Date/Time		Fluorescein Results		Trace #	Eosine Results		Trace #	RWT Results		Trace #	SRB Results		Trace #
			Placed	Recovered	Peak nm	Conc. ppb		Peak nm	Conc. ppb		Peak nm	Conc. ppb		Peak nm	Conc. ppb	
N4277	54		6/29/04 1140	7/8/04 1050	ND			ND			ND			ND		
N4518	54		7/8/04 1050	7/18/04 1040	ND			ND			ND			ND		
N4699	54		7/18/04 1040	7/28/04 0800	ND			ND			ND			ND		
N4907	54		7/28/04 0800	8/4/04 1220	ND			ND			568.0	18.0	04-05	ND		
N5068	54		8/4/04 1220	8/13/04 0930	ND			ND			568.1	53.1	04-05	ND		
N5341	54		8/13/04 0930	8/31/04 1350	512.0 (1)	1.64	bkg	ND			568.6	21.5	04-05	ND		
N5341D	54		8/13/04 0930	8/31/04 1350	512.2 (1)	1.76	bkg	ND			568.8	17.1	04-05	ND		
N5524	54		8/31/04 1350	9/9/04 1042	ND			ND			568.1	321	04-06	ND		
N5682	54		9/9/04 1042	9/21/04 1230	ND			ND			567.6	122	04-06	ND		
N5929	54		9/21/04 1230	9/29/04 0900	ND			ND			568.0	9.38	04-06	ND		
N6036	54		9/29/04 0900	10/5/04 1223	ND			ND			569.0	3.72	04-06	ND		
N6289	54		10/5/04 1223	10/12/04 1340	ND			ND			569.4 (1)	2.28	04-06	ND		
N6685	54		10/12/04 1340	10/25/04 1658	513.6 (1)	1.36	bkg	ND			567.8	9.09	04-06	ND		
N7794	54		10/25/04 1658	12/21/04 1420	516.7 (1)	1.84	bkg	ND			568.1 (1)	9.79	04-06	ND		
N8195	54		12/21/04 1420	1/18/05 1132	516.3	3.56	bkg	ND			ND			ND		
N3612	55		6/9/04 1645	6/11/04 1545	ND			ND			ND			ND		
N3769	55		6/11/04 1545	6/17/04 1145	ND			ND			ND			ND		
N3916	55		6/17/04 1145	6/23/04 1050	ND			ND			ND			ND		
N4081	55		6/23/04 1050	6/29/04 1105	ND			ND			ND			ND		
N4278	55		6/29/04 1105	7/8/04 1015	ND			ND			ND			ND		
N4519	55		7/8/04 1015	7/18/04 1000	ND			ND			ND			ND		
N4701	55		7/18/04 1000	7/28/04 0730	ND			ND			ND			ND		
N4701D	55		7/18/04 1000	7/28/04 0730	ND			ND			ND			ND		
N4908	55		7/28/04 0730	8/4/04 1145	ND			ND			ND			ND		
N5069	55		8/4/04 1145	8/13/04 0900	ND			ND			ND			ND		
N5342	55		8/13/04 0900	8/31/04 1230	ND			ND			567.0 (1)	1.50	bkg	ND		
N5683	55		8/31/04 1230	9/21/04 1122	513.6 (1)	0.540	bkg	ND			ND			ND		
N5683D	55		8/31/04 1230	9/21/04 1122	ND			ND			ND			ND		
N5930	55		9/21/04 1122	9/28/04 1555	513.4 (1)	0.691	bkg	ND			ND			ND		
N6037	55		9/28/04 1555	10/5/04 1150	ND			ND			ND			ND		
N6290	55		10/5/04 1150	10/12/04 1310	ND			ND			ND			ND		
N6686	55		10/12/04 1310	10/25/04 1600	513.8 (1)	0.871	bkg	ND			567.8 (1)	0.966	bkg	ND		
N6971	55		10/25/04 1600	11/8/04 1520	ND			ND			ND			ND		
	55		11/8/04 1520	11/17/04 1230	(8)											
N7529	55		11/17/04 1230	12/6/04 1118	ND			ND			ND			ND		
N7544	55		11/8/04 0000	12/6/04 1118	ND (12)			ND			ND			ND		
N7795	55		12/6/04 1118	12/21/04 1400	ND			ND			ND			ND		
N8021	55		12/21/04 1400	1/10/05 1420	ND			ND			ND			ND		
N8196	55		1/10/05 1420	1/17/05 1705	ND			ND			ND			ND		
N9452	55		1/17/05 1705	3/16/05 1040	ND			ND			ND			ND		
N9722	55		3/16/05 1040	3/23/05 1650	ND			ND			ND			ND		
N9764	55		3/23/05 1650	3/31/05 1223	ND			ND			ND			ND		
P0484	55		3/31/05 1223	4/8/05 1137	ND			ND			ND			ND		
N3613	56		6/10/04 0845	6/11/04 1800	512.2 (1)	0.664	bkg	ND			ND			ND		
N3770	56		6/11/04 1800	6/16/04 1730	ND			ND			ND			ND		
N3917	56		6/16/04 1730	6/23/04 1220	ND			ND			ND			ND		
N4082	56		6/23/04 1220	6/29/04 1220	ND			ND			ND			ND		
N4279	56		6/29/04 1220	7/8/04 1130	ND			ND			ND			ND		
N4521	56		7/8/04 1130	7/18/04 1120	ND			ND			ND			ND		
N4702	56		7/18/04 1120	7/28/04 0840	513.8 (1)	0.567	bkg	ND			ND			ND		
N4909	56		7/28/04 0840	8/4/04 1305	ND			ND			ND			ND		
N5070	56		8/4/04 1305	8/13/04 1005	ND			ND			ND			ND		
N5343	56		8/13/04 1005	8/31/04 1445	512.6 (1)	3.09	bkg	ND			568.6 (1)	4.85	bkg	ND		
N5931	56		8/31/04 1445	9/29/04 0940	ND			ND			ND			ND		
N6687	56		9/29/04 0940	10/26/04 0800	514.6 (1)	0.984	bkg	ND			ND			ND		
N8022	56		10/26/04 0800	1/11/05 1135	515.2 (1)	1.44	bkg	ND			ND			ND		
N8197	56		1/11/05 1135	1/18/05 1152	514.2 (1)	0.752	bkg	ND			ND			ND		

OUL #	Station #	Station Name	Date/Time		Fluorescein Results		Trace #	Eosine Results		Trace #	RWT Results		Trace #	SRB Results		Trace #
			Placed	Recovered	Peak nm	Conc. ppb		Peak nm	Conc. ppb		Peak nm	Conc. ppb		Peak nm	Conc. ppb	
N3614	57		6/10/04 0915	6/11/04 1745	ND			ND			ND		ND			
N3771	57		6/11/04 1745	6/16/04 1740	ND			ND			ND		ND			
N3918	57		6/16/04 1740	6/23/04 1230	ND			ND			ND		ND			
N4083	57		6/23/04 1230	6/29/04 1225	ND			ND			ND		ND			
N4281	57		6/29/04 1225	7/8/04 1135	ND			ND			ND		ND			
N4281D	57		6/29/04 1225	7/8/04 1135	ND			ND			ND		ND			
N4522	57		7/8/04 1135	7/18/04 1125	ND			ND			ND		ND			
N4703	57		7/18/04 1125	7/28/04 0835	ND			ND			ND		ND			
N4910	57		7/28/04 0835	8/4/04 1300	ND			ND			ND		ND			
N5071	57		8/4/04 1300	8/13/04 1000	ND			ND			ND		ND			
N5344	57		8/13/04 1000	8/31/04 1440	ND			ND			ND		ND			
N5932	57		8/31/04 1440	9/29/04 0935	ND			ND			ND		ND			
N6688	57		9/29/04 0935	10/26/04 0753	ND			ND			ND		ND			
N8023	57		10/26/04 0753	1/11/05 1128	ND			ND			ND		ND			
N8198	57		1/11/05 1128	1/18/05 1145	ND			ND			ND		ND			
N3615	58		6/10/04 1045	6/11/04 1730	ND			ND			ND		ND			
N3772	58		6/11/04 1730	6/16/04 1700	ND			ND			ND		ND			
N3919	58		6/16/04 1700	6/23/04 1155	ND			ND			ND		ND			
N4084	58		6/23/04 1155	6/29/04 1205	ND			ND			ND		ND			
N4282	58		6/29/04 1205	7/8/04 1110	ND			ND			ND		ND			
N4523	58		7/8/04 1110	7/18/04 1055	ND			ND			ND		ND			
N4523D	58		7/8/04 1110	7/18/04 1055	ND			ND			ND		ND			
N4704	58		7/18/04 1055	7/28/04 0815	ND			ND			ND		ND			
N4911	58		7/28/04 0815	8/4/04 1240	ND			ND			ND		ND			
N5072	58		8/4/04 1240	8/13/04 0945	ND			ND			ND		ND			
N5345	58		8/13/04 0945	8/31/04 1430	ND			ND			ND		ND			
N5933	58		8/31/04 1430	9/29/04 0922	ND			ND			ND		ND			
N6689	58		9/29/04 0922	10/25/04 1735	ND			ND			ND		ND			
N8024	58		10/25/04 1735	1/11/05 1112	513.2 (1)	1.41	bkg	ND			ND		ND			
N8199	58		1/11/05 1112	1/14/05 1015	513.4 (1)	0.923	bkg	ND			ND		ND			
N8199D	58		1/11/05 1112	1/14/05 1015	512.0 (1)	0.995	bkg	ND			ND		ND			
N9453	58		1/14/05 1015	3/16/05 1230	513.4 (1)	2.23	bkg	ND			ND		ND			
N3616	59		6/10/04 1150	6/11/04 1715	ND			ND			ND		ND			
N3773	59		6/11/04 1715	6/16/04 1715	ND			ND			ND		ND			
N3921	59		6/16/04 1715	6/23/04 1210	ND			ND			ND		ND			
N3921D	59		6/16/04 1715	6/23/04 1210	ND			ND			ND		ND			
N4085	59		6/23/04 1210	6/29/04 1155	ND			ND			ND		ND			
N4283	59		6/29/04 1155	7/8/04 1115	ND			ND			ND		ND			
N4524	59		7/8/04 1115	7/18/04 1105	ND			ND			ND		ND			
N4705	59		7/18/04 1105	7/28/04 1820	ND			ND			ND		ND			
N4912	59		7/28/04 1820	8/4/04 1250	ND			ND			ND		ND			
N5073	59		8/4/04 1250	8/13/04 0950	ND			ND			ND		ND			
N5346	59		8/13/04 0950	8/31/04 1422	513.8	1.64	bkg	ND			ND		ND			
N5934	59		8/31/04 1422	9/29/04 0915	ND			ND			ND		ND			
N6690	59		9/29/04 0915	10/25/04 1725	ND			ND			ND		ND			
N8025	59		10/25/04 1725	1/11/05 1105	ND			ND			ND		ND			
N8201	59		1/11/05 1105	1/14/05 1008	ND			ND			ND		ND			
N3617	60		6/10/04 1350	6/11/04 1820	ND			ND			ND		ND			
N3774	60		6/11/04 1820	6/17/04 1110	ND			ND			ND		ND			
N3922	60		6/17/04 1110	6/24/04 0810	ND			ND			ND		ND			
N4086	60		6/24/04 0810	6/29/04 1555	ND			ND			ND		ND			
N4086D	60		6/24/04 0810	6/29/04 1555	ND			ND			ND		ND			
N4284	60		6/29/04 1555	7/8/04 1505	ND			ND			ND		ND			
N4525	60		7/8/04 1505	7/18/04 1530	ND			ND			574.6 (1)	0.922	bkg	ND		
N4706	60		7/18/04 1530	7/28/04 1355	ND			ND			571.2 (1)	1.98	bkg	ND		
N4913	60		7/28/04 1355	8/4/04 1710	ND			ND			ND		ND			
N5074	60		8/4/04 1710	8/13/04 1315	ND			ND			ND		ND			

OUL #	Station #	Station Name	Date/Time		Fluorescein Results		Trace #	Eosine Results		Trace #	RWT Results		Trace #	SRB Results		Trace #
			Placed	Recovered	Peak nm	Conc. ppb		Peak nm	Conc. ppb		Peak nm	Conc. ppb		Peak nm	Conc. ppb	
N5347	60		8/13/04 1315	9/1/04 0840	ND			ND			568.6 (1)	4.31	bkg	ND		
N3618	61		6/10/04 1440	6/13/04 1830	513.0 (1)	2.05	bkg	ND			573.2 (1)	5.28	bkg	ND		
N3775	61		6/13/04 1830	6/17/04 1030	ND			ND			573.6 (1)	2.98	bkg	ND		
N3923	61		6/17/04 1030	6/24/04 0750	ND			ND			572.6 (1)	4.30	bkg	ND		
N4087	61		6/24/04 0750	6/29/04 1615	ND			ND			ND			ND		
N4285	61		6/29/04 1615	7/8/04 1520	ND			ND			572.0 (1)	1.85	bkg	ND		
N4526	61		7/8/04 1520	7/18/04 1600	ND			ND			572.8 (1)	3.53	bkg	ND		
N4707	61		7/18/04 1600	7/28/04 1425	ND			ND			573.0 (1)	2.80	bkg	ND		
N4914	61		7/28/04 1425	8/4/04 1655	513.4 (1)	1.68	bkg	ND			574.2 (1)	3.08	bkg	ND		
N5075	61		8/4/04 1655	8/13/04 1330	515.0 (1)	0.396	bkg	ND			575.2 (1)	1.03	bkg	ND		
N5348	61		8/13/04 1330	9/1/04 0857	ND			ND			574.0 (1)	11.0	bkg	574.6 (1)	7.09	bkg
N5935	61		9/1/04 0857	9/28/04 1655	514.2 (1)	1.29	bkg	538.8 (1)	1.34	bkg	569.4 (1)	2.39	bkg	ND		
N6038	61		9/28/04 1655	10/5/04 1625	513.4 (1)	0.596	bkg	ND			ND			ND		
N6291	61		10/5/04 1625	10/14/04 1030	513.0 (1)	3.35	bkg	ND			573.0 (1)	3.85	bkg	ND		
N6691	61		10/14/04 1030	10/27/04 0825	514.2 (1)	3.11	bkg	ND			572.4 (1)	4.52	bkg	ND		
N3619	62		6/10/04 1625	6/14/04 0915	ND			ND			ND			ND		
N3776	62		6/14/04 0915	6/16/04 1815	ND			ND			ND			ND		
N3776D	62		6/14/04 0915	6/16/04 1815	ND			ND			ND			ND		
N3924	62		6/16/04 1815	6/23/04 1300	512.4 (1)	0.672	bkg	ND			ND			ND		
N4088	62		6/23/04 1300	6/29/04 1240	ND			ND			ND			ND		
N4286	62		6/29/04 1240	7/8/04 1155	ND			ND			ND			ND		
N4527	62		7/8/04 1155	7/18/04 1145	ND			ND			ND			ND		
N4708	62		7/18/04 1145	7/28/04 0905	ND			ND			ND			ND		
N4915	62		7/28/04 0905	8/4/04 1325	ND			ND			ND			ND		
N5076	62		8/4/04 1325	8/13/04 1225	ND			ND			ND			ND		
N5349	62		8/13/04 1225	8/31/04 1509	511.6 (1, 9)	0.816	bkg	ND			ND			ND		
N5936	62		8/31/04 1509	9/29/04 1005	ND			ND			ND			ND		
N6692	62		9/29/04 1005	10/26/04 0826	512.8 (1)	1.58	bkg	ND			ND			ND		
N8444	62		10/26/04 0826	2/1/05 1704	514.2 (1)	1.51	bkg	ND			ND			ND		
N3621	63		6/10/04 1705	6/14/04 0955	ND			ND			571.8 (1)	1.55	bkg	ND		
N3777	63		6/14/04 0955	6/17/04 1230	ND			ND			ND			ND		
N3925	63		6/17/04 1230	6/23/04 1345	ND			ND			ND			ND		
N4089	63		6/23/04 1345	6/29/04 1310	ND			ND			ND			ND		
N4287	63		6/29/04 1310	7/8/04 1225	ND			ND			ND			ND		
N4528	63		7/8/04 1225	7/18/04 1230	ND			ND			ND			ND		
N4709	63		7/18/04 1230	7/28/04 0850	ND			ND			569.0	5.84	04-05	ND		
	63		7/28/04 0850	2/1/05 1730	(13)											
N8543	63		2/1/05 1730	2/9/05 1801	515.2 (1)	0.930	bkg	ND			572.0 (1)	3.96	bkg	ND		
N8969	63		2/9/05 1801	2/25/05 1135	515.0 (1)	1.46	bkg	ND			571.2 (1)	5.02	bkg	ND		
N3622	64		6/10/04 1750	6/14/04 1030	ND			ND			574.0 (1)	2.67	bkg	ND		
N3778	64		6/14/04 1030	6/17/04 1010	ND			ND			ND			ND		
N3926	64		6/17/04 1010	6/23/04 1415	ND			ND			574.2 (1)	2.18	bkg	ND		
N4090	64		6/23/04 1415	6/29/04 1600	ND			ND			573.2 (1)	1.18	bkg	ND		
N4288	64		6/29/04 1600	7/8/04 1515	ND			ND			573.4 (1)	1.35	bkg	ND		
N4529	64		7/8/04 1515	7/18/04 1350	ND			ND			574.4 (1)	2.14	bkg	ND		
N4710	64		7/18/04 1350	7/28/04 1415	ND			ND			ND			576.4 (1)	1.37	bkg
N4916	64		7/28/04 1415	8/4/04 1645	ND			ND			ND			ND		
N5077	64		8/4/04 1645	8/13/04 1400	ND			ND			ND			ND		
N5350	64		8/13/04 1400	9/1/04 0912	512.8 (1)	2.71	bkg	ND			572.0 (1)	5.06	bkg	ND		
N5937	64		9/1/04 0912	9/27/04 1440	ND			ND			ND			ND		
N6039	64		9/27/04 1440	10/5/04 1412	ND			ND			ND			ND		
N6039D	64		9/27/04 1440	10/5/04 1412	ND			ND			ND			ND		
N6292	64		10/5/04 1412	10/14/04 1045	513.0 (1)	1.87	bkg	ND			573.0 (1)	2.01	bkg	ND		
N6693	64		10/14/04 1045	10/27/04 0912	513.8	2.97	bkg	ND			571.0 (1)	3.07	bkg	ND		
	64		10/27/04 0912	1/10/05 1225	(8)											
N8202	64		1/10/05 1225	1/18/05 1230	516.6 (1)	0.968	bkg	ND			ND			ND		
N8247	64		10/27/04 0912	1/18/05 1230	517.6 (1, 12)	1.25	bkg	ND			ND			ND		

OUL #	Station #	Station Name	Date/Time		Fluorescein Results		Trace #	Eosine Results		Trace #	RWT Results		Trace #	SRB Results		Trace #
			Placed	Recovered	Peak nm	Conc. ppb		Peak nm	Conc. ppb		Peak nm	Conc. ppb		Peak nm	Conc. ppb	
N3779	65		6/15/04 1330	6/17/04 1040	ND		ND				571.8 (1)	1.58	bkg	ND		
N3927	65		6/17/04 1040	6/24/04 0800	ND		ND				ND			ND		
N4091	65		6/24/04 0800	6/29/04 1620	ND		ND				ND			ND		
N4289	65		6/29/04 1620	7/8/04 1530	ND		ND				ND			ND		
N4530	65		7/8/04 1530	7/18/04 1610	ND		ND				571.6 (1)	1.22	bkg	ND		
N4711	65		7/18/04 1610	7/28/04 1435	ND		ND				ND			575.8 (1)	1.09	bkg
N4917	65		7/28/04 1435	8/4/04 1705	ND		ND				ND			ND		
N5078	65		8/4/04 1705	8/13/04 1325	ND		ND				ND			ND		
N5351	65		8/13/04 1325	9/1/04 0850	ND		ND				570.6 (1)	6.58	bkg	ND		
N3928	66		6/17/04 1020	6/24/04 0755	515.8 (1)	0.463	bkg	ND			ND			ND		
N4092	66		6/24/04 0755	6/29/04 1625	ND		ND				ND			ND		
N4290	66		6/29/04 1625	7/8/04 1525	ND		ND				ND			ND		
N4531	66		7/8/04 1525	7/18/04 1605	ND		ND				573.0 (1)	2.80	bkg	ND		
N4712	66		7/18/04 1605	7/28/04 1430	ND		ND				ND			ND		
N4918	66		7/28/04 1430	8/4/04 1700	ND		ND				ND			ND		
N5079	66		8/4/04 1700	8/13/04 1335	ND		ND				ND			ND		
N5352	66		8/13/04 1335	9/1/04 0900	ND		ND				570.4 (1)	10.2	bkg	ND		
N5938	66		9/1/04 0900	9/28/04 1700	ND		ND				ND			ND		
N6694	66		9/28/04 1700	10/27/04 0830	ND		ND				572.2 (1)	3.08	bkg	ND		
N3929	67		6/18/04 0830	6/23/04 1030	514.8 (1)	0.459	bkg	ND			ND			ND		
N4093	67		6/23/04 1030	6/29/04 1045	ND		ND				ND			ND		
N4291	67		6/29/04 1045	7/8/04 0955	ND		ND				ND			ND		
N4532	67		7/8/04 0955	7/18/04 0940	515.6 (1)	0.600	bkg	ND			ND			ND		
N4713	67		7/18/04 0940	7/27/04 1830	ND		ND				ND			ND		
N4919	67		7/27/04 1830	8/4/04 1120	516.0 (1)	0.443	bkg	ND			ND			ND		
N5081	67		8/4/04 1120	8/13/04 0655	ND		ND				ND			ND		
N5081D	67		8/4/04 1120	8/13/04 0655	ND		ND				ND			ND		
N5353	67		8/13/04 0655	8/31/04 1145	516.0 (1)	1.94	bkg	ND			ND			ND		
N5684	67		8/31/04 1145	9/21/04 1028	515.9 (1)	1.24	bkg	ND			ND			ND		
N5939	67		9/21/04 1028	9/28/04 1440	513.1 (1)	1.13	bkg	ND			ND			ND		
N5939D	67		9/21/04 1028	9/28/04 1440	513.6 (1)	1.26	bkg	ND			ND			ND		
N6041	67		9/28/04 1440	10/5/04 1110	513.8 (1)	0.967	bkg	ND			ND			ND		
N6293	67		10/5/04 1110	10/12/04 1225	515.7 (1)	0.980	bkg	ND			ND			ND		
N6695	67		10/12/04 1225	10/25/04 1513	514.4 (1)	1.05	bkg	ND			567.8	4.75		04-08	ND	
N6985	67		10/25/04 1513	11/8/04 1435	ND		ND				570.4	7.79		04-08	ND	
N7236	67		11/8/04 1435	11/17/04 1130	ND		ND				569.8	4.94		04-08	ND	
N7530	67		11/17/04 1130	12/6/04 1110	516.2 (1)	1.01	bkg	ND			569.2 (1)	5.62		04-08	ND	
N7796	67		12/6/04 1110	12/21/04 1335	ND		ND	541.6	1,260	04-11	ND			ND		
N8026	67		12/21/04 1335	1/10/05 1705	ND		ND	540.8	49.5	04-11	ND			ND		
N8203	67		1/10/05 1705	1/18/05 1120	ND		ND	541.3	5.57	04-11	567.8 (1)	4.40		04-08	ND	
N8970	67		1/18/05 1120	2/25/05 1025	ND		ND	540.4	6.42	04-11	566.6 (1)	6.66		04-08	ND	
N9454	67		2/25/05 1025	3/16/05 1215	515.6 (1)	0.781	bkg	540.6	1.87	04-11	570.8 (1)	3.37		04-08	ND	
N9723	67		3/16/05 1215	3/23/05 1635	ND		ND	540.7	5.39	04-11	ND			ND		
N9765	67		3/23/05 1635	3/31/05 1617	ND		ND	540.8	22.3	04-11	ND			ND		
P0485	67		3/31/05 1617	4/8/05 1017	ND		ND	540.4	9.43	04-11	ND			ND		
N3930	68		6/18/04 0900	6/23/04 1040	515.4 (1)	0.525	bkg	ND			569.5	32.8		04-02	ND	
N4094	68		6/23/04 1040	6/29/04 1050	ND		ND				568.7	17.0		04-02	ND	
N4292	68		6/29/04 1050	7/8/04 1000	ND		ND				570.4	6.23		04-02	ND	
N4533	68		7/8/04 1000	7/18/04 0945	ND		ND				572.0 (1)	2.49		04-02	ND	
N4714	68		7/18/04 0945	7/27/04 1845	ND		ND	540.8	2.92	04-04	ND			ND		
N4921	68		7/27/04 1845	8/4/04 1130	ND		ND	540.3	164	04-04	ND			ND		
N4921D	68		7/27/04 1845	8/4/04 1130	ND		ND	540.1	156	04-04	ND			ND		
N5082	68		8/4/04 1130	8/13/04 0650	ND		ND	540.1	4.19	04-04	ND			ND		
N5354	68		8/13/04 0650	8/31/04 1155	515.8 (1)	1.18	bkg	539.4	6.49	04-04	569.0 (1)	3.76		bkg	ND	
N5525	68		8/31/04 1155	9/9/04 0950	515.5	1.17	bkg	538.1	1.49	04-04	568.4 (1)	2.57		bkg	ND	
N5685	68		9/9/04 0950	9/21/04 1035	514.2	6.10	bkg	541.0	2.61	04-04	ND			ND		
N5941	68		9/21/04 1035	9/28/04 1450	ND		ND				ND			ND		

OUL #	Station #	Station Name	Date/Time		Fluorescein Results		Trace #	Eosine Results		Trace #	RWT Results		Trace #	SRB Results		Trace #
			Placed	Recovered	Peak nm	Conc. ppb		Peak nm	Conc. ppb		Peak nm	Conc. ppb		Peak nm	Conc. ppb	
N6042	68		9/28/04 1450	10/5/04 1118	ND			ND			ND			ND		
N6294	68		10/5/04 1118	10/12/04 1235	515.5 (1)	0.897	bkg	ND			ND			ND		
N6696	68		10/12/04 1235	10/25/04 1525	515.8	2.26	bkg	537.2 (1)	1.58	bkg	ND			ND		
N4095	69		6/25/04 1030	6/29/04 0940	ND			ND			ND			ND		
N4293	69		6/29/04 0940	7/8/04 0910	ND			ND			ND			ND		
N4534	69		7/8/04 0910	7/18/04 0855	ND			ND			ND			ND		
N4715	69		7/18/04 0855	7/27/04 1640	ND			ND			ND			ND		
N4922	69		7/27/04 1640	8/4/04 1005	ND			ND			ND			ND		
N5083	69		8/4/04 1005	8/13/04 0810	ND			ND			ND			ND		
N5355	69		8/13/04 0810	8/31/04 1030	516.0 (1)	1.54	bkg	ND			569.4 (1)	2.10	bkg	ND		
N5942	69		8/31/04 1030	9/27/04 1405	ND			ND			ND			ND		
N6697	69		9/27/04 1405	10/25/04 1055	515.6 (1)	1.80	bkg	ND			ND			ND		
N4294	70		6/30/04 1630	7/8/04 1240	ND			ND			ND			575.4 (1)	1.48	bkg
N4535	70		7/8/04 1240	7/18/04 1255	ND			537.7 (1)	0.662	bkg	573.4 (1)	2.27	bkg	ND		
N4716	70		7/18/04 1255	7/28/04 0950	ND			ND			ND			574.6 (1)	1.78	bkg
N4923	70		7/28/04 0950	8/4/04 1415	ND			ND			ND			574.6 (1)	1.53	bkg
N5084	70		8/4/04 1415	8/13/04 1105	ND			ND			ND			573.8 (1)	2.31	bkg
N5356	70		8/13/04 1105	8/31/04 1615	514.8 (1)	2.24	bkg	ND			568.3	128	04-06	ND		
N5686	70		8/31/04 1615	9/21/04 1315	ND			ND			567.3	2,990	04-06	ND		
N5943	70		9/21/04 1315	9/29/04 1107	515.8 (1)	0.925	bkg	ND			567.5	195	04-06	ND		
N6043	70		9/29/04 1107	10/5/04 1506	516.8	1.31	bkg	ND			568.0	128	04-06	ND		
N6698	70		10/5/04 1506	10/26/04 0940	515.2	3.11	bkg	ND			568.3	152	04-06	ND		
N4295	71		6/30/04 1645	7/8/04 1235	ND			ND			ND			ND		
N4295D	71		6/30/04 1645	7/8/04 1235	ND			ND			ND			ND		
	71		7/8/04 1235	7/18/04 1240	(8)											
N4717	71		7/18/04 1240	7/28/04 0935	ND			ND			ND			ND		
N4924	71		7/28/04 0935	8/4/04 1400	ND			ND			ND			ND		
N5085	71		8/4/04 1400	8/13/04 1050	ND			ND			ND			ND		
N5357	71		8/13/04 1050	8/31/04 1604	514.2	1.89	bkg	ND			570.0 (1)	2.14	bkg	ND		
N5944	71		8/31/04 1604	9/29/04 1049	514.1 (1)	1.08	bkg	ND			567.4	22.1	?	ND		
N6295	71		9/29/04 1049	10/12/04 1455	ND			ND			ND			ND		
N6699	71		10/12/04 1455	10/26/04 0933	514.2	1.42	bkg	ND			ND			ND		
N8027	71		10/26/04 0933	1/11/05 1140	514.2 (1)	2.14	bkg	ND			ND			ND		
N4718	72		7/26/04 1507	7/28/04 0940	ND			ND			ND			ND		
N4925	72		7/28/04 0940	8/4/04 1405	ND			ND			ND			ND		
N5086	72		8/4/04 1405	8/13/04 1100	514.2	0.760	bkg	ND			ND			ND		
N5358	72		8/13/04 1100	8/31/04 1558	514.3	6.43	bkg	ND			ND			ND		
N5687	72		8/31/04 1558	9/21/04 1305	514.4	2.25	bkg	ND			ND			ND		
N5945	72		9/21/04 1305	9/29/04 1056	514.5	1.60	bkg	ND			ND			ND		
N6044	72		9/29/04 1056	10/5/04 1058	514.2 (1)	0.662	bkg	ND			ND			ND		
N6296	72		10/5/04 1058	10/12/04 1505	513.8	2.80	bkg	ND			ND			ND		
N6701	72		10/12/04 1505	10/26/04 0925	513.8	3.16	bkg	ND			ND			ND		
N6701D	72		10/12/04 1505	10/26/04 0925	514.0	2.94	bkg	ND			ND			ND		
N8028	72		10/26/04 0925	1/10/05 1248	515.8 (1)	1.18	bkg	ND			ND			ND		
N4719	73		7/24/04 0900	7/27/04 1755	ND			ND			ND			ND		
N4926	73		7/27/04 1755	8/4/04 1110	ND			ND			ND			ND		
N5087	73		8/4/04 1110	8/13/04 0705	ND			ND			ND			ND		
N5359	73		8/13/04 0705	8/31/04 1115	513.6 (1)	1.06	bkg	ND			ND			ND		
N5688	73		8/31/04 1125	9/21/04 1010	ND			ND			ND			ND		
N5946	73		9/21/04 1010	9/28/04 1425	ND			ND			ND			ND		
N6045	73		9/28/04 1425	10/5/04 1102	ND			ND			ND			ND		
N6297	73		10/5/04 1102	10/12/04 1215	ND			ND			ND			ND		
N6702	73		10/12/04 1215	10/25/04 1500	514.2 (1)	0.446	bkg	ND			566.8 (1)	1.45	bkg	ND		
N6972	73		10/25/04 1500	11/8/04 1410	ND			ND			ND			ND		
N7237	73		11/8/04 1410	11/17/04 1100	ND			ND			570.2 (1)	4.52	bkg	ND		
N7531	73		11/17/04 1100	12/6/04 1048	515.4 (1)	0.997	bkg	ND			568.8 (1)	3.74	bkg	ND		
N7797	73		12/6/04 1048	12/21/04 1317	ND			541.4	139	04-11	ND			ND		

OUL #	Station #	Station Name	Date/Time		Fluorescein Results		Trace #	Eosine Results		Trace #	RWT Results		Trace #	SRB Results		Trace #
			Placed	Recovered	Peak nm	Conc. ppb		Peak nm	Conc. ppb		Peak nm	Conc. ppb		Peak nm	Conc. ppb	
N8029	73		12/21/04 1317	1/10/05 1640	ND			540.8	37.9	04-11	ND			ND		
N8204	73		1/10/05 1640	1/17/05 1723	ND			ND			ND			ND		
N8971	73		1/17/05 1723	2/25/05 0955	ND			540.9	9.10	04-11	570.2 (1)	4.48	bkg	ND		
N9455	73		2/25/05 0955	3/16/05 1148	ND			539.8	1.26	04-11	ND			ND		
N9724	73		3/16/05 1148	3/23/05 1608	ND			540.8	4.54	04-11	ND			ND		
N9766	73		3/23/05 1608	3/31/05 1458	ND			541.1	17.6	05-18	ND			ND		
P0486	73		3/31/05 1458	4/8/05 1024	ND			540.5	5.24	05-18	ND			ND		
N4721	74		7/24/04 1000	7/27/04 1805	ND			ND			ND			ND		
N4721D	74		7/24/04 1000	7/27/04 1805	ND			ND			ND			ND		
N4927	74		7/27/04 1805	8/4/04 1100	ND			ND			ND			ND		
N5088	74		8/4/04 1100	8/13/04 0710	ND			ND			ND			ND		
N5361	74		8/13/04 0710	8/31/04 1132	ND			ND			ND			ND		
N5361D	74		8/13/04 0710	8/31/04 1132	ND			ND			ND			ND		
N5689	74		8/31/04 1132	9/21/04 1015	ND			ND			ND			ND		
N6703	74		9/21/04 1015	10/25/04 1505	ND			ND			567.4	139	04-08	ND		
N6973	74		10/25/04 1505	11/8/04 1420	ND			ND			569.1	44.5	04-08	ND		
N7238	74		11/8/04 1420	11/17/04 1110	ND			ND			568.6	17.6	04-08	ND		
N7532	74		11/17/04 1110	12/6/04 1055	ND			ND			569.7	25.1	04-08	ND		
N7798	74		12/6/04 1055	12/21/04 1324	ND			ND			568.8	35.0	04-08	ND		
N8030	74		12/21/04 1324	1/10/05 1650	ND			ND			569.4	17.2	04-08	ND		
N8205	74		1/10/05 1650	1/17/05 1730	ND			ND			569.0	24.7	04-08	ND		
N8972	74		1/17/05 1730	2/25/05 1015	ND			ND			568.6	35.9	04-08	ND		
N9456	74		2/25/05 1015	3/16/05 1153	ND			ND			568.7	26.6	04-08	ND		
N9725	74		3/16/05 1153	3/23/05 1618	ND			ND			570.7	3.84	04-08	ND		
N9767	74		3/23/05 1618	3/31/05 1519	ND			ND			569.4	17.1	04-08	ND		
P0487	74		3/31/05 1519	4/8/05 1050	ND			ND			568.8	18.5	04-08	ND		
N4722	75		7/24/04 1045	7/27/04 1855	515.9	1.40	bkg	ND			ND			ND		
N4928	75		7/27/04 1855	8/4/04 1040	516.4	1.90	bkg	ND			ND			ND		
N5089	75		8/4/04 1040	8/13/04 0845	517.0	0.758	bkg	ND			ND			ND		
N5362	75		8/13/04 0845	8/31/04 1215	516.7	3.89	bkg	538.8 (1)	2.67	bkg	566.4 (1)	3.17	bkg	ND		
N5690	75		8/31/04 1215	9/21/04 1110	517.3	3.64	bkg	538.6	3.57	bkg	ND			ND		
N5947	75		9/21/04 1110	9/28/04 1510	ND			ND			ND			ND		
N6046	75		9/28/04 1510	10/5/04 1142	ND			ND			ND			ND		
N6298	75		10/5/04 1142	10/12/04 1325	ND			ND			ND			ND		
N6704	75		10/12/04 1325	10/25/04 1408	ND			ND			ND			ND		
N6974	75		10/25/04 1408	11/8/04 1353	516.8	2.25	bkg	ND			ND			ND		
N7239	75		11/8/04 1353	11/17/04 1150	516.4	2.59	bkg	ND			ND			ND		
N7239D	75		11/17/04 1150	11/17/04 1150	517.6	1.36	bkg	ND			ND			ND		
N7533	75		11/17/04 1150	12/6/04 1030	516.5	2.49	bkg	ND			ND			ND		
N7799	75		12/6/04 1030	12/21/04 1300	ND			541.7	2,980	04-11	ND			ND		
N8031	75		12/21/04 1300	1/10/05 1615	515.8 (2)	2.73	bkg	540.3	31.7	04-11	ND			ND		
N8206	75		1/10/05 1615	1/17/05 1747	515.6 (1)	0.856	bkg	541.1	8.14	04-11	ND			ND		
N8973	75		1/17/05 1747	2/25/05 1100	517.8	2.66	bkg	540.8	12.1	04-11	ND			ND		
N9457	75		2/25/05 1100	3/16/05 1128	517.9 (1)	1.25	bkg	539.7	1.22	04-11	ND			ND		
N9726	75		3/16/05 1128	3/23/05 1500	ND			540.8	21.2	05-18	ND			ND		
N9768	75		3/23/05 1500	3/31/05 1136	ND			540.9	61.4	05-18	ND			ND		
P0488	75		3/31/05 1136	4/8/05 0839	ND			540.6	5.32	05-18	ND			ND		
N4723	76		7/24/04 1030	7/27/04 1910	515.1	2.26	bkg	ND			ND			ND		
N4929	76		7/27/04 1910	8/4/04 1035	514.8	10.1	bkg	ND			ND			ND		
N5090	76		8/4/04 1035	8/13/04 0840	515.0	8.29	bkg	ND			ND			ND		
N5363	76		8/13/04 0840	8/31/04 1208	514.9	1.63	bkg	ND			ND			ND		
N5691	76		8/31/04 1208	9/21/04 1102	515.1	43.3	bkg	ND			ND			ND		
N5948	76		9/21/04 1102	9/28/04 1505	515.0	19.7	bkg	ND			ND			ND		
N6047	76		9/28/04 1505	10/5/04 1136	514.4	4.12	bkg	ND			ND			ND		
N6299	76		10/5/04 1136	10/12/04 1320	513.8	0.931	bkg	ND			ND			ND		
N6705	76		10/12/04 1320	10/25/04 1412	514.9	5.38	bkg	ND			ND			ND		
N6975	76		10/25/04 1412	11/8/04 1400	516.6	4.14	bkg	ND			ND			ND		

OUL #	Station #	Station Name	Date/Time		Fluorescein Results		Trace #	Eosine Results		Trace #	RWT Results		Trace #	SRB Results		Trace #
			Placed	Recovered	Peak nm	Conc. ppb		Peak nm	Conc. ppb		Peak nm	Conc. ppb		Peak nm	Conc. ppb	
N7241	76		11/8/04 1400	11/17/04 1140	517.0	5.17	bkg	ND			ND			ND		
N7534	76		11/17/04 1140	12/6/04 1035	516.7	3.96	bkg	ND			ND			ND		
N7801	76		12/6/04 1035	12/21/04 1305	ND			541.7	7.210	04-11	ND			ND		
N7801D	76		12/6/04 1035	12/21/04 1305	ND			541.7	6.930	04-11	ND			ND		
N8032	76		12/21/04 1305	1/10/05 1622	516.2 (6)	7.90	bkg	540.7	105	04-11	ND			ND		
N8207	76		1/10/05 1622	1/17/05 1755	516.0 (1)	1.35	bkg	541.4	17.7	04-11	ND			ND		
N8974	76		1/17/05 1755	2/25/05 1040	515.8 (6)	3.73	bkg	541.0	27.4	04-11	ND			ND		
N9458	76		2/25/05 1040	3/16/05 1137	517.8	5.62	bkg	540.1	10.7	04-11	ND			ND		
N9727	76		3/16/05 1137	3/23/05 1514	514.2 (6)	3.87	bkg	540.7	57.9	05-18	ND			ND		
N9769	76		3/23/05 1514	3/31/05 1030	ND			540.9	101	05-18	ND			ND		
P0489	76		3/31/05 1030	4/8/05 0814	ND			540.8	225	05-18	ND			ND		
N5364	77		7/26/04 1410	8/26/04 2100	ND (14)			ND			ND			ND		
N5949	77		8/27/04 1242	9/23/04 0525	ND			ND			ND			ND		
N6048	77		9/23/04 1223	10/4/04 0547	ND			ND			ND			ND		
N6976	77		10/5/04 1236	10/28/04 0620	ND			ND			ND			ND		
N6977	77		10/28/04 0620	11/8/04 0630	ND			ND			ND			ND		
N7535	77		11/8/04 1355	12/3/04 0747	ND			ND			ND			ND		
N5365	78		8/24/04 1712	8/30/04 1137	514.7	1.68	bkg	538.0	2.53	04-01	ND			ND		
N5366	78		8/30/04 1137	9/2/04 0931	516.3	2.60	bkg	537.8	5.72	04-01	ND			ND		
N5526	78		9/2/04 0931	9/9/04 1112	515.6	2.84	bkg	538.3	9.49	04-01	ND			ND		
N5692	78		9/9/04 1112	9/21/04 1335	517.8 (6)	3.14	bkg	538.3	10.3	04-01	ND			ND		
N5950	78		9/21/04 1335	9/29/04 1735	516.0 (6)	3.88	bkg	538.1	17.1	04-01	ND			ND		
N6049	78		9/29/04 1735	10/5/04 1357	ND			537.0	11.4	04-01	ND			ND		
N6301	78		10/5/04 1357	10/12/04 1520	515.8 (6)	0.935	bkg	537.5	2.87	04-01	ND			ND		
N6301D	78		10/5/04 1357	10/12/04 1520	515.6	1.29	bkg	538.0	3.80	04-01	ND			ND		
N6706	78		10/12/04 1520	10/25/04 0958	514.3	8.75	bkg	539.4 (1)	1.79	04-01	ND			ND		
N6978	78		10/25/04 0958	11/8/04 1058	516.9	4.25	bkg	539.6	4.71	04-01	ND			ND		
N7242	78		11/8/04 1058	11/17/04 1315	518.2 (1)	2.59	bkg	540.4	2.23	04-01	ND			ND		
N7536	78		11/17/04 1315	12/6/04 1138	516.7	4.39	bkg	538.6 (1)	1.83	04-01	ND			ND		
N8208	78		12/6/04 1138	1/17/05 1605	517.6	3.38	bkg	540.9	15.3	04-01	ND			ND		
N5367	79		8/24/04 1725	8/30/04 1141	512.8 (1)	4.00	bkg	ND			ND			573.6 (1)	4.51	bkg
N5368	79		8/30/04 1141	9/2/04 0935	ND						567.1	17,900	04-06	ND		
N5527	79		9/2/04 0935	9/9/04 1115	514.2	4.47	bkg	ND			568.5	240	04-06	ND		
N5693	79		9/9/04 1115	9/21/04 1340	514.4	4.91	bkg	ND			567.9	102	04-06	ND		
N5951	79		9/21/04 1340	9/29/04 1740	514.2	3.46	bkg	ND			568.3	50.4	04-06	ND		
N6050	79		9/29/04 1740	10/5/04 1400	514.9	3.40	bkg	ND			568.6	21.2	04-06	ND		
N6302	79		10/5/04 1400	10/12/04 1530	513.0 (1)	2.13	bkg	ND			569.4	17.2	04-06	ND		
N6707	79		10/12/04 1530	10/25/04 1002	513.9	12.8	bkg	ND			568.8	23.4	04-06	ND		
N6979	79		10/25/04 1002	11/8/04 1103	515.5	5.30	bkg	ND			571.6	9.46	04-06	ND		
N6979D	79		10/25/04 1002	11/8/04 1103	515.8	4.76	bkg	ND			571.2	7.93	04-06	ND		
N7243	79		11/8/04 1103	11/17/04 1310	516.0	5.31	bkg	ND			ND			575.2 (1)	2.98	bkg
N7537	79		11/17/04 1310	12/6/04 1144	515.9	11.4	bkg	ND			572.5 (1)	6.48	04-06	ND		
N8209	79		12/6/04 1144	1/17/05 1610	516.0	6.14	bkg	ND			ND			574.8 (1)	6.77	bkg
N5528	80		8/27/04 1115	9/9/04 1010	515.1 (1)	1.19	bkg	ND			568.3	135	04-06	ND		
N5694	80		9/9/04 1010	9/21/04 1055	ND			ND			567.4	55.6	04-06	ND		
N5952	80		9/21/04 1055	9/28/04 1619	516.1 (1)	1.14	bkg	ND			567.8	20.1	04-06	ND		
N6051	80		9/28/04 1619	10/5/04 1205	ND			539.2	1.71	bkg	567.4	4.23	04-06	ND		
N6303	80		10/5/04 1205	10/12/04 1250	ND			ND			569.2	3.44	04-06	ND		
N6708	80		10/12/04 1250	10/25/04 1625	514.1	2.72	bkg	ND			568.1	10.6	04-06	ND		
N8210	80		10/25/04 1625	1/17/05 1645	516.0	2.04	bkg	ND			570.4	7.90	04-06	ND		
N5529	81		8/27/04 1210	9/9/04 0955	515.5 (9)	2.52	bkg	ND			ND			ND		
N5695	81		9/9/04 0955	9/21/04 1043	516.8	24.9	bkg	ND			ND			575.8	16.0	bkg
N5953	81		9/21/04 1043	9/28/04 1455	ND			ND			ND			576.6	12.2	bkg
N6052	81		9/28/04 1455	10/5/04 1125	518.0 (1)	27.4	bkg	ND			ND			576.6	6.74	bkg
N6304	81		10/5/04 1125	10/12/04 1240	519.0 (1)	14.9	bkg	ND			ND			575.0 (1)	0.682	bkg
N6709	81		10/12/04 1240	10/25/04 1540	ND			ND			ND			ND		
N8211	81		10/25/04 1540	1/17/05 1635	519.4 (1)	9.83	bkg	ND			ND			576.5 (1)	7.87	bkg

OUL #	Station #	Station Name	Date/Time	Date/Time	Fluorescein Results		Trace	Eosine Results		Trace	RWT Results		Trace	SRB Results		Trace
			Placed	Recovered	Peak nm	Conc. ppb	#	Peak nm	Conc. ppb	#	Peak nm	Conc. ppb	#	Peak nm	Conc. ppb	#
N5530	82		9/3/04 1335	9/9/04 0930	ND			ND			ND			ND		
N5696	82		9/9/04 0930	9/21/04 0955	ND			ND			ND			ND		
N5954	82		9/21/04 0955	9/28/04 1325	ND			ND			ND			ND		
N6710	82		9/28/04 1325	10/25/04 1428	515.4 (1)	0.918	bkg	ND			ND			ND		
N8975	82		10/25/04 1428	2/25/05 0945	515.2 (1)	1.16	bkg	ND			ND			ND		
N6053	83		9/28/04 0955	10/5/04 1021	513.8	10.2	04-07	ND			ND			ND		
N6305	83		10/5/04 1021	10/12/04 1020	514.1	26.6	04-07	ND			ND			ND		
N6711	83		10/12/04 1020	10/25/04 1220	514.3	48.9	04-07	ND			ND			ND		
N6981	83		10/25/04 1220	11/8/04 1330	515.8	13.7	04-07	ND			ND			ND		
N7244	83		11/8/04 1330	11/17/04 0940	516.3	12.3	04-07	ND			ND			ND		
N7538	83		11/17/04 0940	12/6/04 1000	516.1	11.9	04-07	ND			ND			ND		
N7802	83		12/6/04 1000	12/20/04 0953	516.1	9.62	04-07	ND			ND			ND		
N8033	83		12/20/04 0953	1/10/05 1507	515.0	6.20	04-07	ND			ND			ND		
N8212	83		1/10/05 1507	1/18/05 1012	516.2	1.42	04-07	ND			ND			ND		
N8544	83		1/18/05 1012	2/11/05 0852	515.5	10.9	04-07	ND			ND			ND		
N8976	83		2/11/05 0852	2/25/05 0905	515.7	6.00	04-07	ND			ND			ND		
N8988	83		2/25/05 0905	3/1/05 1236	515.5	3.83	04-07	ND			ND			ND		
N9459	83		3/1/05 1236	3/16/05 1107	515.8	6.31	04-07	ND			ND			ND		
N9459D	83		3/1/05 1236	3/16/05 1107	515.7	5.60	04-07	ND			ND			ND		
N9728	83		3/16/05 1107	3/23/05 1728	515.7	3.69	04-07	ND			ND			ND		
N9770	83		3/23/05 1728	3/31/05 0942	515.5	3.15	04-07	ND			ND			ND		
P0490	83		3/31/05 0942	4/8/05 0928	515.5	2.85	04-07	ND			ND			ND		
N6054	84		9/28/04 1035	10/5/04 1030	514.2	319	04-07	ND			ND			ND		
N6306	84		10/5/04 1030	10/12/04 1030	514.3	156	04-07	ND			ND			ND		
N6712	84		10/12/04 1030	10/25/04 1233	514.7	192	04-07	ND			ND			ND		
N6982	84		10/25/04 1233	11/8/04 1340	516.1	56.0	04-07	ND			ND			ND		
N7245	84		11/8/04 1340	11/17/04 0950	516.4	47.9	04-07	ND			ND			ND		
N7539	84		11/17/04 0950	12/6/04 1007	516.2	32.7	04-07	ND			ND			ND		
N7803	84		12/6/04 1007	12/20/04 0958	516.3	21.1	04-07	ND			ND			ND		
N8034	84		12/20/04 0958	1/10/05 1513	515.7	21.0	04-07	ND			ND			ND		
N8213	84		1/10/05 1513	1/18/05 1017	516.0	6.25	04-07	ND			ND			ND		
N8545	84		1/18/05 1017	2/11/05 0858	515.7	18.5	04-07	ND			ND			ND		
N8977	84		2/11/05 0858	2/25/05 0915	515.9	6.79	04-07	ND			ND			ND		
N8989	84		2/25/05 0915	3/1/05 1242	515.7	7.64	04-07	ND			ND			ND		
N9461	84		3/1/05 1242	3/16/05 1113	515.7	15.4	04-07	ND			ND			ND		
N9729	84		3/16/05 1113	3/23/05 1736	516.2	9.70	04-07	ND			ND			ND		
N9771	84		3/23/05 1736	3/31/05 0953	516.0	7.27	04-07	ND			ND			ND		
P0491	84		3/31/05 0953	4/8/05 0914	515.9	8.50	04-07	ND			ND			ND		
N6055	85		9/28/04 1145	10/5/04 1024	515.1	18.8	04-07	537.9	20.7	04-04	ND			ND		
N6307	85		10/5/04 1024	10/12/04 1010	515.3	12.6	04-07	537.7	11.9	04-04	ND			ND		
N6713	85		10/12/04 1010	10/25/04 1225	514.7	25.7	04-07	537.8	9.70	04-04	ND			ND		
N6056	86		9/28/04 1335	10/5/04 1045	514.3	8.48	04-07	538.0	2.62	04-04	ND			ND		
N6308	86		10/5/04 1045	10/12/04 1200	514.8	5.43	04-07	538.0	1.57	04-04	ND			ND		
N6714	86		10/12/04 1200	10/25/04 1435	514.9	17.5	04-07	538.0	9.31	04-04	ND			ND		
N6057	87		9/29/04 1512	10/6/04 0915	ND			ND			567.0	20,500	04-09	ND		
N6309	87		10/6/04 0915	10/14/04 0840	ND			ND			568.7	1,210	04-09	ND		
N6715	87		10/14/04 0840	10/27/04 1437	518.0 (1)	1.74	bkg	ND			568.2	341	04-09	ND		
N6983	87		10/27/04 1437	11/8/04 1555	515.7 (1)	0.566	bkg	ND			569.0	37.5	04-09	ND		
N7246	87		11/8/04 1555	11/17/04 1500	513.8(1)	0.793	bkg	ND			571.2	17.8	04-09	ND		
N7541	87		11/17/04 1500	12/3/04 1555	516.2 (1)	0.860	bkg	ND			569.8	6.17	04-09	ND		
N7541D	87		11/17/04 1500	12/3/04 1555	516.4 (1)	1.09	bkg	ND			569.6	10.7	04-09	ND		
N7804	87		12/3/04 1555	12/21/04 1613	516.2	4.90	bkg	ND			ND			ND		
N8035	87		12/21/04 1613	1/10/05 1720	514.8 (1)	1.13	bkg	ND			570.2	11.6	04-09	ND		
N8214	87		1/10/05 1720	1/14/05 1115	516.0	29.1	05-14	ND			ND			ND		
N8450	87		1/14/05 1115	1/21/05 0822	516.1	4.92	bkg	ND			ND			ND		
N8546	87		1/21/05 0822	2/11/05 1003	515.1	3.96	bkg	ND			569.4 (1)	10.5	04-09	ND		
N9447	87		2/11/05 1003	3/16/05 1250	515.1	3.04	bkg	ND			569.6 (1)	4.06	04-09	ND		

OUL #	Station #	Station Name	Date/Time		Fluorescein Results		Trace #	Eosine Results		Trace #	RWT Results		Trace #	SRB Results		Trace #
			Placed	Recovered	Peak nm	Conc. ppb		Peak nm	Conc. ppb		Peak nm	Conc. ppb		Peak nm	Conc. ppb	
N9659	87		3/16/05 1250	3/29/05 1555	515.6	2.02	bkg	ND			568.6	8.30	04-09	ND		
N9659D	87		3/16/05 1250	3/29/05 1555	515.6	1.91	bkg	ND			568.8	6.71	04-09	ND		
N9930	87		3/29/05 1555	4/7/05 1009	ND			540.9	96.9	05-24	ND			ND		
P0445	87		4/7/05 1009	4/14/05 1518	ND			540.7	12.6	05-24	ND			ND		
P0618	87		4/14/05 1518	4/20/05 1729	ND			540.5	4.82	05-24	ND			ND		
N6310	88		10/6/04 1015	10/14/04 0850	512.0 (1)	1.35	bkg	ND			567.8 (1)	0.906	bkg	ND		
N6716	88		10/14/04 0850	10/27/04 1420	514.0	2.46	bkg	ND			ND			ND		
N7805	88		10/27/04 1420	12/21/04 1625	516.6 (1)	1.46	bkg	ND			569.8	9.07	bkg	ND		
N8036	88		12/21/04 1625	1/5/05 1005	514.8	1.97	bkg	ND			ND			ND		
N8041	88		1/5/05 1005	1/10/05 1734	512.6 (1)	1.05	bkg	ND			ND			ND		
N8215	88		1/10/05 1734	1/14/05 1055	516.7	536	05-14	ND			ND			ND		
N8451	88		1/14/05 1055	1/21/05 0810	516.8	397	05-14	ND			ND			ND		
N8547	88		1/21/05 0810	2/11/05 0925	515.7	52.1	05-14	ND			ND			ND		
N9448	88		2/11/05 0925	3/16/05 1304	515.7	66.3	05-14	ND			ND			ND		
N9661	88		3/16/05 1304	3/29/05 1536	516.3	49.1	05-14	ND			ND			ND		
P0446	88		3/29/05 1536	4/15/05 0744	516.0	24.1	05-14	ND			ND			ND		
N6311	89		10/6/04 1025	10/14/04 0910	ND		ND				568.9	520	04-09	ND		
N6717	89		10/14/04 0910	10/27/04 1450	517.6 (1)	1.79	bkg	ND			568.0	134	04-09	ND		
N6984	89		10/27/04 1450	11/8/04 1605	ND			ND			570.4	7.74	04-09	ND		
N7247	89		11/8/04 1605	11/17/04 1510	ND			ND			569.8	6.94	04-09	ND		
N7542	89		11/17/04 1510	12/3/04 1605	514.0 (1)	0.748	bkg	ND			570.2	4.79	04-09	ND		
N9931	89		12/3/04 1605	4/7/05 1020	ND			540.7	11.0	05-24	572.4 (1)	4.03	04-09	ND		
P0447	89		4/7/05 1020	4/15/05 0933	ND			540.5	8.50	05-24	ND			ND		
P0619	89		4/15/05 0933	4/20/05 1753	ND			541.2	27.1	05-24	ND			ND		
P0619D	89		4/15/05 0933	4/20/05 1753	ND			540.6	1.24	05-24	ND			ND		
P0619V	89		4/15/05 0933	4/20/05 1753	ND			541.5	27.3	05-24	ND			ND		
P0619X	89		4/15/05 0933	4/20/05 1753	ND			541.0	1.17	05-24	ND			ND		
N7248	90		11/8/04 1425	11/17/04 1115	516.2 (1)	1.27	bkg	ND			571.6	6.84	04-08	ND		
N7543	90		11/17/04 1115	12/6/04 1058	516.6 (1)	1.29	bkg	ND			570.0 (1)	5.01	04-08	ND		
N7806	90		12/6/04 1058	12/21/04 1327	ND			541.7	1,590	04-11	ND			ND		
N8037	90		12/21/04 1327	1/10/05 1655	514.4 (2)	2.65	bkg	540.4	65.7	04-11	ND			ND		
N8216	90		1/10/05 1655	1/17/05 1735	ND			541.2	6.04	04-11	ND			ND		
N8978	90		1/17/05 1735	2/25/05 1005	515.6 (1)	2.15	bkg	540.5	15.6	04-11	ND			ND		
N9462	90		2/25/05 1005	3/16/05 1156	517.6 (1)	1.55	bkg	539.2	2.39	04-11	ND			ND		
N9730	90		3/16/05 1156	3/23/05 1621	ND			541.0	15.3	05-18	ND			ND		
N9772	90		3/23/05 1621	3/31/05 1528	ND			541.1	45.2	05-18	ND			ND		
P0492	90		3/31/05 1528	4/8/05 1044	ND			540.8	24.7	05-18	ND			ND		
N8038	91		12/21/04 1630	1/10/05 1738	515.1 (1)	1.45	bkg	ND			ND			ND		
N8217	91		1/10/05 1738	1/14/05 1100	516.7	688	05-14	ND			ND			ND		
N8452	91		1/14/05 1100	1/21/05 0815	516.3	18.7	05-14	ND			ND			ND		
N8548	91		1/21/05 0815	2/11/05 0930	515.5	11.9	05-14	ND			ND			ND		
N9449	91		2/11/05 0930	3/16/05 1307	515.6	22.8	05-14	ND			ND			ND		
N9662	91		3/16/05 1307	3/29/05 1540	515.8	4.56	05-14	ND			ND			ND		
P0448	91		3/29/05 1540	4/15/05 0748	515.2	3.59	05-14	ND			ND			ND		
N8218	92		1/7/05 0905	1/19/05 1132	ND		ND				ND			ND		
N8549	92		1/19/05 1132	2/9/05 1124	ND			ND			ND			ND		
N8981	92		2/9/05 1124	2/25/05 1028	513.4 (1)	0.844	bkg	ND			ND			ND		
N8981D	92		2/9/05 1124	2/25/05 1028	513.0 (1)	0.776	bkg	ND			ND			ND		
N9464	92		2/25/05 1028	3/22/05 1358	ND			ND			ND			ND		
N9867	92		3/22/05 1358	4/5/05 1331	ND			ND			ND			ND		
P0495	92		4/5/05 1331	4/13/05 1337	ND			ND			ND			ND		
N8219	93		1/7/05 0918	1/19/05 1136	ND		ND				ND			ND		
N8219D	93		01/07/05 0918	01/19/05 1136	ND			ND			ND			ND		
N8550	93		1/19/05 1136	2/9/05 1137	ND			ND			ND			ND		
N8982	93		2/9/05 1137	2/25/05 1033	514.3 (1)	1.00	bkg	ND			ND			ND		
N9465	93		2/25/05 1033	3/22/05 1458	ND (9)			ND			ND			ND		
N9868	93		3/22/05 1458	4/5/05 1403	ND			ND			ND			ND		

OUL #	Station #	Station Name	Date/Time		Fluorescein Results		Trace #	Eosine Results		Trace #	RWT Results		Trace #	SRB Results		Trace #
			Placed	Recovered	Peak nm	Conc. ppb		Peak nm	Conc. ppb		Peak nm	Conc. ppb		Peak nm	Conc. ppb	
P0496	93		4/5/05 1403	4/13/05 1434	ND		ND			ND			ND			
N8221	94		1/7/05 0930	1/19/05 1142	ND		ND			ND			ND			
N8445	94		1/19/05 1142	2/4/05 1445	ND		ND			ND			ND			
N8551	94		2/4/05 1445	2/9/05 1140	ND		ND			568.6	417,000	05-16	ND			
N8983	94		2/9/05 1140	2/25/05 1038	ND		ND			568.9	4,940	05-16	ND			
N9466	94		2/25/05 1038	3/22/05 1450	ND		ND			570.0	1,400	05-16	ND			
N9869	94		3/22/05 1450	4/5/05 1425	ND		ND			569.1	316	05-16	ND			
P0497	94		4/5/05 1425	4/13/05 1348	ND		ND			569.4	323	05-16	ND			
P0581	94		4/13/05 1348	4/19/05 1651	ND		ND			569.6	246	05-16	ND			
N8222	95		1/7/05 0942	1/19/05 1153	ND		ND			ND			ND			
N8552	95		1/19/05 1153	2/9/05 1130	ND		ND			568.8 (1)	3.00	bkg	ND			
N9467	95		2/9/05 1130	3/22/05 1420	ND		ND			ND			ND			
N9870	95		3/22/05 1420	4/5/05 1417	ND		ND			ND			ND			
P0498	95		4/5/05 1417	4/13/05 1439	ND		ND			ND			ND			
N8223	96		1/7/05 1008	1/19/05 1147	ND		ND			ND			ND			
N8446	96		1/19/05 1147	2/4/05 1455	ND		ND			ND			ND			
N8553	96		2/4/05 1455	2/9/05 1145	ND		ND			571.6 (1)	2.69	bkg	ND			
N8984	96		2/9/05 1145	2/25/05 1042	ND		ND			ND			ND			
N9468	96		2/25/05 1042	3/22/05 1436	ND		ND			ND			ND			
N9871	96		3/22/05 1436	4/5/05 1459	ND		ND			ND			ND			
P0499	96		4/5/05 1459	4/13/05 1356	ND		ND			ND			ND			
P0499D	96		4/5/05 1459	4/13/05 1356	ND		ND			ND			ND			
N8224	97		1/7/05 1040	1/19/05 1215	ND		ND			ND			ND			
N8447	97		1/19/05 1215	2/4/05 1512	ND		ND			ND			ND			
N8554	97		2/4/05 1512	2/9/05 1205	ND		ND			ND			ND			
	97		2/9/05 1205	3/22/05 1526	(8)											
N9872	97		3/22/05 1526	4/5/05 1525	ND		ND			ND			ND			
P0501	97		4/5/05 1525	4/13/05 1518	ND		ND			ND			ND			
N8225	98		1/7/05 1128	1/14/05 1600	ND		ND			ND			ND			
N8555	98		1/14/05 1600	2/9/05 1410	513.0 (1)	1.20	bkg	ND		ND			ND			
N9673	98		2/9/05 1410	3/29/05 1203	513.8 (1)	1.21	bkg	ND		ND			ND			
N9873	98		3/29/05 1203	4/5/05 1633	ND		ND			ND			ND			
N8226	99		1/7/05 1148	1/19/05 1431	ND		ND			ND			ND			
N8556	99		1/19/05 1431	2/9/05 1457	ND		ND			ND			ND			
N9674	99		2/9/05 1457	3/29/05 1117	ND		ND			ND			ND			
N9874	99		3/29/05 1117	4/6/05 1743	ND		ND			ND			ND			
P0502	99		4/6/05 1743	4/13/05 1806	ND		ND			ND			ND			
N8227	100		1/7/05 1203	1/19/05 1425	ND		ND			ND			ND			
N8557	100		1/19/05 1425	2/9/05 1450	ND		ND			ND			ND			
N9675	100		2/9/05 1450	3/29/05 1112	ND		ND			ND			ND			
N9875	100		3/29/05 1112	4/4/05 1550	ND		ND			ND			ND			
P0503	100		4/4/05 1550	4/13/05 1752	ND		ND			ND			ND			
N8228	101		1/7/05 1405	1/19/05 1422	ND		ND			ND			ND			
N8558	101		1/19/05 1422	2/9/05 1442	ND		ND			ND			ND			
N9676	101		2/9/05 1442	3/29/05 1107	ND		ND			ND			ND			
N9876	101		3/29/05 1107	4/4/05 1540	ND		ND			ND			ND			
P0504	101		4/4/05 1540	4/13/05 1741	ND		ND			ND			ND			
P0582	101		4/13/05 1741	4/20/05 1008	ND		ND			ND			ND			
N8229	102		1/7/05 1415	1/19/05 1453	ND		ND			ND			ND			
N8559	102		1/19/05 1453	2/9/05 1523	ND		ND			ND			ND			
N9677	102		2/9/05 1523	3/29/05 1144	ND		541.3	3,230	05-19	ND			ND			
N9877	102		3/29/05 1144	4/4/05 1658	ND		540.2	1,270	05-19	567.8	14,700	05-23	ND			
P0505	102		4/4/05 1658	4/13/05 1851	ND		541.1	3,320	05-19	571.4 (10)	378	05-23	ND			
P0583	102		4/13/05 1851	4/20/05 1044	ND		540.8	254	05-19	571.6 (10)	56.5	05-23	ND			
N8230	103		1/7/05 1430	1/19/05 1445	516.3	8.05	bkg	ND		ND			ND			
N8561	103		1/19/05 1445	2/9/05 1513	516.0	28.2	bkg	ND		ND			ND			
N8561D	103		1/19/05 1445	2/9/05 1513	515.9	19.3	bkg	ND		ND			ND			

OUL #	Station #	Station Name	Date/Time		Fluorescein Results		Trace #	Eosine Results		Trace #	RWT Results		Trace #	SRB Results		Trace #
			Placed	Recovered	Peak nm	Conc. ppb		Peak nm	Conc. ppb		Peak nm	Conc. ppb		Peak nm	Conc. ppb	
N9678	103		2/9/05 1513	3/29/05 1134	516.5	48.6	bkg	ND			ND			ND		
N9878	103		3/29/05 1134	4/4/05 1722	515.9	11.3	bkg	ND			ND			ND		
P0506	103		4/4/05 1722	4/13/05 1832	515.7	35.0	bkg	ND			ND			ND		
P0584	103		4/13/05 1832	4/20/05 1031	515.8	18.0	bkg	ND			ND			ND		
N8231	104		1/7/05 1440	1/19/05 1440	516.4	2.27	bkg	ND			ND			ND		
N8562	104		1/19/05 1440	2/9/05 1508	515.7	2.50	bkg	ND			ND			ND		
N9679	104		2/9/05 1508	3/29/05 1127	515.3	3.30	bkg	ND			ND			ND		
N9679D	104		2/9/05 1508	3/29/05 1127	515.0	2.64	bkg	ND			ND			ND		
N9879	104		3/29/05 1127	4/4/05 1620	515.0 (1)	1.11	bkg	ND			ND			ND		
N9879D	104		3/29/05 1127	4/4/05 1620	515.2 (1)	1.29	bkg	ND			ND			ND		
P0507	104		4/4/05 1620	4/13/05 1822	515.2	1.42	bkg	ND			ND			ND		
P0585	104		4/13/05 1822	4/20/05 1021	514.4 (1)	1.31	bkg	ND			ND			ND		
N8232	105		1/7/05 1523	1/14/05 1540	ND			ND			ND			ND		
N8563	105		1/14/05 1540	2/9/05 1221	ND			ND			ND			ND		
N9681	105		2/9/05 1221	3/29/05 1350	ND			ND			ND			ND		
N9881	105		3/29/05 1350	4/5/05 1723	ND			ND			ND			ND		
N8233	106		1/7/05 1540	1/14/05 1535	ND			ND			ND			ND		
N8564	106		1/14/05 1535	2/9/05 1218	ND			ND			ND			ND		
N9682	106		2/9/05 1218	3/29/05 1346	ND			ND			ND			ND		
N9882	106		3/29/05 1346	4/5/05 1709	ND			ND			ND			ND		
N8234	107		1/9/05 1158	1/14/05 1615	ND			ND			ND			ND		
N8565	107		1/14/05 1615	2/9/05 1425	ND			ND			ND			ND		
N9683	107		2/9/05 1425	3/29/05 1224	ND			ND			ND			ND		
N9883	107		3/29/05 1224	4/5/05 1601	ND			ND			ND			ND		
N8235	108		1/9/05 1315	1/19/05 1103	ND			ND			ND			ND		
N8566	108		1/19/05 1103	2/9/05 0952	ND			ND			ND			ND		
N9684	108		2/9/05 0952	3/24/05 1700	515.0	2.82	bkg	ND			ND			ND		
N9884	108		3/24/05 1700	4/6/05 1521	514.6 (1)	1.30	bkg	ND			ND			ND		
P0508	108		4/6/05 1521	4/13/05 1547	514.6 (1)	1.11	bkg	ND			ND			ND		
N8236	109		1/9/05 1332	1/19/05 1110	516.1	1.80	bkg	ND			ND			ND		
N8567	109		1/19/05 1110	2/9/05 1006	515.7	5.21	bkg	ND			ND			ND		
N9685	109		2/9/05 1006	3/24/05 1712	515.7	13.8	bkg	ND			ND			ND		
N9885	109		3/24/05 1712	4/6/05 1537	516.1	13.0	bkg	ND			ND			ND		
P0509	109		4/6/05 1537	4/13/05 1558	515.6	8.68	bkg	ND			ND			ND		
N8237	110		1/9/05 1353	1/19/05 1125	ND			ND			ND			ND		
N8568	110		1/19/05 1125	2/9/05 1046	ND			ND			ND			ND		
N9686	110		2/9/05 1046	3/24/05 1810	513.2 (1)	1.07	bkg	ND			ND			ND		
N9886	110		3/24/05 1810	4/6/05 1434	ND			ND			ND			ND		
P0510	110		4/6/05 1434	4/13/05 1207	ND (4)			ND			ND			ND		
N8238	111		1/9/05 1450	1/19/05 1520	ND			ND			ND			ND		
N8569	111		1/19/05 1520	2/9/05 1618	ND			ND			ND			ND		
N9687	111		2/9/05 1618	3/24/05 1122	514.4 (1)	1.58	bkg	ND			ND			ND		
N9887	111		3/24/05 1122	4/5/05 1748	513.4 (1)	1.12	bkg	ND			ND			ND		
P0511	111		4/5/05 1748	4/12/05 1652	ND			ND			ND			ND		
P0586	111		4/12/05 1652	4/19/05 1444	ND			ND			ND			ND		
N8239	112		1/9/05 1545	1/19/05 1540	ND			ND			ND			ND		
N8570	112		1/19/05 1540	2/10/05 0955	ND			ND			ND			ND		
N9688	112		2/10/05 0955	3/24/05 1018	ND			ND			ND			ND		
N9888	112		3/24/05 1018	4/6/05 1053	ND			ND			ND			ND		
P0512	112		4/6/05 1053	4/12/05 1551	ND			ND			ND			ND		
P0587	112		4/12/05 1551	4/19/05 1353	ND			ND			ND			ND		
N8241	113		1/9/05 1605	1/19/05 1542	ND			ND			ND			ND		
N8241D	113		1/9/05 1605	1/19/05 1542	ND			ND			ND			ND		
N8571	113		1/19/05 1542	2/10/05 1000	ND			ND			ND			ND		
N9689	113		2/10/05 1000	3/24/05 1024	ND			ND			ND			ND		
N9889	113		3/24/05 1024	4/6/05 1048	ND			ND			ND			ND		
P0513	113		4/6/05 1048	4/12/05 1556	ND			ND			ND			ND		

OUL #	Station #	Station Name	Date/Time		Fluorescein Results		Trace #	Eosine Results		Trace #	RWT Results		Trace #	SRB Results		Trace #
			Placed	Recovered	Peak nm	Conc. ppb		Peak nm	Conc. ppb		Peak nm	Conc. ppb		Peak nm	Conc. ppb	
P0588	113		4/12/05 1556	4/19/05 1358	ND											
N8242	114		1/9/05 1610	1/19/05 1544	ND											
N8572	114		1/19/05 1544	2/10/05 1003	ND											
N9690	114		2/10/05 1003	3/24/05 1030	ND											
N9890	114		3/24/05 1030	4/6/05 1117	ND											
P0514	114		4/6/05 1117	4/12/05 1603	ND											
P0589	114		4/12/05 1603	4/19/05 1403	ND											
N8243	115		1/9/05 1625	1/19/05 1550	ND											
N8573	115		1/19/05 1550	2/10/05 1018	ND											
N9691	115		2/10/05 1018	3/24/05 1051	ND											
N9891	115		3/24/05 1051	4/6/05 1138	ND											
P0515	115		4/6/05 1138	4/12/05 1619	ND											
P0590	115		4/12/05 1619	4/19/05 1418	ND											
N8244	116		1/9/05 1635	1/19/05 1555	ND											
N8574	116		1/19/05 1555	2/10/05 1024	ND											
N9692	116		2/10/05 1024	3/24/05 1102	ND											
N9892	116		3/24/05 1102	4/6/05 1149	ND											
P0516	116		4/6/05 1149	4/12/05 1628	ND											
N8248	117		1/13/05 1345	1/18/05 1418	ND											
N9663	117		1/18/05 1418	3/29/05 1612	514.8 (1)	1.39	bkg	ND								
P0449	117		3/29/05 1612	4/14/05 1715	513.0 (1)	1.17	bkg	ND								
N8249	118		1/14/05 1605	1/19/05 1225	ND											
N8575	118		1/19/05 1225	2/9/05 1415	514.9	1.54	bkg	ND								
N9693	118		2/9/05 1415	3/29/05 1209	514.8	1.75	bkg	ND								
N9893	118		3/29/05 1209	4/5/05 1623	514.2 (1)	1.18	bkg	ND								
N8576	119		1/20/05 1050	2/9/05 1026	ND											
N9694	119		2/9/05 1026	3/24/05 1743	ND											
N9894	119		3/24/05 1743	4/6/05 1634	ND											
P0517	119		4/6/05 1634	4/13/05 1635	ND											
N8577	120		1/20/05 1107	2/9/05 1021	ND											
N9695	120		2/9/05 1021	3/24/05 1735	ND											
N9895	120		3/24/05 1735	4/6/05 1651	ND											
P0518	120		4/6/05 1651	4/13/05 1652	ND											
N8578	121		1/20/05 1126	2/9/05 1015	515.4 (1)	0.681	bkg	ND								
N9696	121		2/9/05 1015	3/24/05 1725	516.2 (1)	1.04	bkg	ND								
N9896	121		3/24/05 1725	4/6/05 1703	514.4 (1)	1.09	bkg	ND								
P0519	121		4/6/05 1703	4/13/05 1707	ND											
P0519D	121		4/6/05 1703	4/13/05 1707	ND											
N8579	122		2/1/05 1730	2/9/05 1755	515.0	1.40	bkg	ND			570.8 (1)	3.33	bkg	ND		
N8579D	122		2/1/05 1730	2/9/05 1755	515.3	1.24	bkg	ND								
N8979	122		2/9/05 1755	2/25/05 1145	515.1	2.03	bkg	ND			571.8 (1)	5.36	bkg	ND		
N8581	123		2/2/05 1615	2/9/05 0940	ND											
N9697	123		2/9/05 0940	3/29/05 1326	ND											
N9897	123		3/29/05 1326	4/6/05 1306	ND											
P0554	123		4/6/05 1306	4/13/05 0703	ND											
N8582	124		2/2/05 1805	2/9/05 1630	ND											
N9698	124		2/9/05 1630	3/24/05 1555	ND											
N9898	124		3/24/05 1555	4/6/05 1234	ND											
P0521	124		4/6/05 1234	4/13/05 0948	ND											
P0591	124		4/13/05 0948	4/19/05 1548	ND											
N8583	125		2/2/05 1815	2/9/05 1635	ND											
N9699	125		2/9/05 1635	3/24/05 1602	ND											
N9699D	125		2/9/05 1635	3/24/05 1602	ND											
N9899	125		3/24/05 1602	4/6/05 1226	ND											
N9899D	125		3/24/05 1602	4/6/05 1226	ND											
P0522	125		4/6/05 1226	4/13/05 0942	ND											
P0592	125		4/13/05 0942	4/19/05 1535	ND											

OUL #	Station #	Station Name	Date/Time		Fluorescein Results		Trace		Eosine Results		Trace		RWT Results		Trace		SRB Results		Trace	
			Placed	Recovered	Peak nm	Conc. ppb	#	Peak nm	Conc. ppb	#	Peak nm	Conc. ppb	#	Peak nm	Conc. ppb	#	Peak nm	Conc. ppb	#	
N8584	126		2/3/05 0835	2/9/05 1645	516.7	29,300	05-15	ND												
N9469	126		2/9/05 1645	3/17/05 1034	517.0	876	05-15	ND												
N9701	126		3/17/05 1034	3/24/05 1612	515.9	81.1	05-15	ND												
N9901	126		3/24/05 1612	4/5/05 1238	517.2	36.9	05-15	540.3	100	05-22	ND									
P0523	126		4/5/05 1238	4/12/05 1447	516.7	23.4	05-15	539.5	21.2	05-22	ND									
P0593	126		4/12/05 1447	4/19/05 1331	516.5	24.7	05-15	540.2	10.2	05-22	ND									
N8585	127		2/3/05 0850	2/9/05 1652	515.5	3.97	bkg	ND												
N8585V	127		2/3/05 0850	2/9/05 1652	515.6	3.92	bkg	ND												
N9470	127		2/9/05 1652	3/17/05 1040	ND			ND												
N9702	127		3/17/05 1040	3/24/05 1622	ND			ND												
N9902	127		3/24/05 1622	4/5/05 1221	ND			ND												
P0524	127		4/5/05 1221	4/12/05 1436	ND			ND												
P0594	127		4/12/05 1436	4/19/05 1321	ND			ND												
N8586	128		2/3/05 0905	2/9/05 1702	516.5	5,380	05-15	ND												
N9471	128		2/9/05 1702	3/17/05 1100	517.1	410	05-15	ND												
N9703	128		3/17/05 1100	3/24/05 1631	516.2	9.36	05-15	ND												
N9903	128		3/24/05 1631	4/5/05 1211	517.2	13.6	05-15	539.9	19.8	05-22	ND									
P0525	128		4/5/05 1211	4/12/05 1425	516.6	6.66	05-15	539.7	7.47	05-22	ND									
P0595	128		4/12/05 1425	4/19/05 1311	516.3	5.80	05-15	539.4	2.31	05-22	ND									
N8587	129		2/3/05 0918	2/9/05 1708	515.9	1.48	bkg	ND												
N9472	129		2/9/05 1708	3/17/05 1103	515.8 (1)	1.49	bkg	ND												
N9704	129		3/17/05 1103	3/24/05 1640	ND			ND												
N9904	129		3/24/05 1640	4/5/05 1156	515.2 (1)	0.895	bkg	ND												
P0526	129		4/5/05 1156	4/12/05 1414	ND			ND												
P0596	129		4/12/05 1414	4/19/05 1258	ND			ND												
N8588	130		2/3/05 0945	2/9/05 1540	ND			ND												
N9473	130		2/9/05 1540	3/17/05 1115	ND			ND												
N9705	130		3/17/05 1115	3/29/05 1436	ND			ND												
N9905	130		3/29/05 1436	4/5/05 1158	ND			ND												
P0527	130		4/5/05 1158	4/12/05 1321	ND			ND												
P0597	130		4/12/05 1321	4/19/05 1744	ND			ND												
N8589	131		2/3/05 1000	2/9/05 1546	ND			ND												
N9474	131		2/9/05 1546	3/17/05 1110	ND (9)			ND												
N9706	131		3/17/05 1110	3/29/05 1407	ND			541.0	18.6	05-19	ND									
N9906	131		3/29/05 1407	4/4/05 1833	ND			542.0	6.41	05-19	568.9	33.6	05-23	ND						
P0528	131		4/4/05 1833	4/12/05 1309	ND			541.5	4.13	05-19	570.3	11.5	05-23	ND						
P0598	131		4/12/05 1309	4/19/05 1736	ND			541.4	2.97	05-19	570.4	7.13	05-23	ND						
N8590	132		2/3/05 1022	2/9/05 1553	ND			ND			569.3	191	05-16	ND						
N9475	132		2/9/05 1553	3/17/05 1120	ND			ND			569.7	332	05-16	ND						
N9707	132		3/17/05 1120	3/29/05 1443	ND			ND			569.3	45.9	05-16	ND						
N9907	132		3/29/05 1443	4/4/05 1819	ND			ND			569.0	39.1	05-16	ND						
P0529	132		4/4/05 1819	4/12/05 1256	ND			ND			568.8	25.2	05-16	ND						
P0599	132		4/12/05 1256	4/19/05 1705	ND			ND			569.1	18.4	05-16	ND						
P0599D	132		4/12/05 1256	4/19/05 1705	ND			ND			569.9	8.38	05-16	ND						
N8591	133		2/3/05 1040	2/9/05 1600	ND			ND			ND			ND						
N9476	133		2/9/05 1600	3/17/05 1126	ND			ND			ND			ND						
N9708	133		3/17/05 1126	3/29/05 1450	ND			ND			ND			ND						
N9908	133		3/29/05 1450	4/6/05 1331	ND			ND			ND			ND						
P0530	133		4/6/05 1331	4/12/05 1241	ND			ND			570.0 (1)	3.42	bkg	ND						
P0601	133		4/12/05 1241	4/19/05 1721	ND			ND			ND			ND						
N8592	134		2/3/05 1155	2/10/05 1058	515.4 (1)	0.816	bkg	ND			ND			ND						
N9709	134		2/10/05 1058	3/24/05 1535	ND			ND			ND			ND						
N9909	134		3/24/05 1535	4/5/05 1830	ND			ND			ND			ND						
P0531	134		4/5/05 1830	4/12/05 1725	ND			ND			ND			ND						
P0602	134		4/12/05 1725	4/19/05 1508	ND			ND			ND			ND						
N8593	135		2/3/05 1215	2/10/05 1114	515.4 (1)	0.726	bkg	ND			ND			ND						
N9710	135		2/10/05 1114	3/24/05 1140	514.4 (1)	1.14	bkg	ND			ND			ND						

OUL #	Station #	Station Name	Date/Time		Fluorescein Results		Trace #	Eosine Results		Trace #	RWT Results		Trace #	SRB Results		Trace #
			Placed	Recovered	Peak nm	Conc. ppb		Peak nm	Conc. ppb		Peak nm	Conc. ppb		Peak nm	Conc. ppb	
N9910	135		3/24/05 1140	4/5/05 1845	ND			541.3	3,740	05-22	ND		ND			
P0532	135		4/5/05 1845	4/12/05 1709	ND			541.2	685	05-22	ND		ND			
P0603	135		4/12/05 1709	4/19/05 1457	ND			540.7	167	05-22	ND		ND			
N8594	136		2/4/05 0948	2/10/05 1053	ND			ND			ND		ND			
N9711	136		2/10/05 1053	3/24/05 1517	515.4 (1)	1.49	bkg	ND			ND		ND			
N9911	136		3/24/05 1517	4/5/05 1806	516.2 (1)	1.04	bkg	ND			ND		ND			
P0533	136		4/5/05 1806	4/12/05 1744	515.5 (1)	0.930	bkg	ND			ND		ND			
N8595	137		2/4/05 1008	2/10/05 1102	516.5	169,000	05-15	ND			ND		ND			
N9477	137		2/10/05 1102	3/17/05 1012	517.1	2,710	05-15	ND			ND		ND			
N9712	137		3/17/05 1012	3/24/05 1527	517.2	499	05-15	ND			ND		ND			
N9912	137		3/24/05 1527	4/5/05 1859	516.5	235	05-15	ND			ND		ND			
P0534	137		4/5/05 1859	4/12/05 1733	515.9	238	05-15	ND			ND		ND			
P0604	137		4/12/05 1733	4/20/05 0929	ND			ND			ND		ND			
N8596	138		2/4/05 1240	2/10/05 0948	515.7	15.5	bkg	ND			ND		ND			
N9713	138		2/10/05 0948	3/24/05 0942	ND			ND			ND		ND			
N9913	138		3/24/05 0942	4/5/05 1111	ND			ND			ND		ND			
P0535	138		4/5/05 1111	4/12/05 1528	ND			ND			ND		ND			
P0605	138		4/12/05 1528	4/19/05 1227	ND			ND			ND		ND			
N8597	139		2/4/05 1335	2/10/05 1013	515.7	5.35	bkg	ND			ND		ND			
N9714	139		2/10/05 1013	3/24/05 1040	515.8	3.16	bkg	ND			ND		ND			
N9914	139		3/24/05 1040	4/6/05 1129	515.0	2.09	bkg	ND			ND		ND			
P0536	139		4/6/05 1129	4/12/05 1611	ND			ND			ND		ND			
P0606	139		4/12/05 1611	4/19/05 1411	ND			ND			ND		ND			
N9450	140		2/11/05 0948	3/16/05 1259	ND			ND			ND		ND			
N9664	140		3/16/05 1259	3/29/05 1531	ND			ND			ND		ND			
P0450	140		3/29/05 1531	4/14/05 1548	ND			ND			ND		ND			
N9715	141		2/11/05 1025	3/24/05 0953	ND			ND			ND		ND			
N9915	141		3/24/05 0953	4/5/05 1128	ND			ND			ND		ND			
P0537	141		4/5/05 1128	4/12/05 1511	ND			ND			ND		ND			
P0607	141		4/12/05 1511	4/19/05 1239	ND			ND			ND		ND			
N9716	142		2/11/05 1103	3/24/05 0854	ND			ND			ND		ND			
N9916	142		3/24/05 0854	4/5/05 0851	ND			ND			ND		ND			
P0538	142		4/5/05 0851	4/13/05 1112	ND			ND			ND		ND			
P0608	142		4/13/05 1112	4/20/05 0833	ND			ND			ND		ND			
N9717	143		2/11/05 1120	3/24/05 0905	ND			ND			ND		ND			
N9917	143		3/24/05 0905	4/5/05 0920	ND			ND			ND		ND			
P0539	143		4/5/05 0920	4/13/05 1128	ND			ND			ND		ND			
P0539D	143		4/5/05 0920	4/13/05 1128	ND			ND			ND		ND			
P0609	143		4/13/05 1128	4/20/05 0845	ND			ND			ND		ND			
N9718	144		2/11/05 1144	3/24/05 0918	ND			ND			ND		ND			
N9918	144		3/24/05 0918	4/5/05 0958	ND			ND			ND		ND			
P0541	144		4/5/05 0958	4/13/05 1146	ND			ND			ND		ND			
N9463	145		2/25/05 1050	3/16/05 1132	517.6	1.41	bkg	ND			566.6	7.32	bkg	ND		
N9731	145		3/16/05 1132	3/23/05 1511	ND			ND			ND		ND			
N9773	145		3/23/05 1511	3/31/05 1158	ND			ND			ND		ND			
P0493	145		3/31/05 1158	4/8/05 0822	ND			ND			ND		ND			
N9478	146		2/25/05 1108	3/22/05 1550	514.4 (1)	1.06	bkg	ND			ND		ND			
N9919	146		3/22/05 1550	4/4/05 1450	ND			ND			ND		ND			
N9919D	146		3/22/05 1550	4/4/05 1450	ND			ND			ND		ND			
P0542	146		4/4/05 1450	4/12/05 1351	513.6 (1)	1.13	bkg	ND			ND		ND			
P0610	146		4/12/05 1351	4/19/05 1148	ND			ND			ND		ND			
N9479	147		2/25/05 1120	3/22/05 1553	ND			ND			ND		ND			
N9479D	147		2/25/05 1120	3/22/05 1553	ND			ND			ND		ND			
N9921	147		3/22/05 1553	4/4/05 1502	ND			ND			ND		ND			
P0543	147		4/4/05 1502	4/12/05 1358	ND			ND			ND		ND			
P0611	147		4/12/05 1358	4/19/05 1154	ND			ND			ND		ND			
N9481	148		2/25/05 1145	3/22/05 1640	513.6 (1)	1.19	bkg	ND			ND		ND			

OUL #	Station #	Station Name	Date/Time		Fluorescein Results		Trace #	Eosine Results		Trace #	RWT Results		Trace #	SRB Results		Trace #
			Placed	Recovered	Peak nm	Conc. ppb		Peak nm	Conc. ppb		Peak nm	Conc. ppb		Peak nm	Conc. ppb	
N9719	148		3/22/05 1640	3/29/05 1503	ND			ND			568.7	373	05-20	ND		
N9719D	148		3/22/05 1640	3/29/05 1503	ND			ND			569.1	537	05-20	ND		
N9922	148		3/29/05 1503	4/5/05 1022	ND			ND			567.8	6,140	05-20	ND		
P0544	148		4/5/05 1022	4/13/05 1248	ND			ND			568.5	2,350	05-20	ND		
P0612	148		4/13/05 1248	4/20/05 1141	ND			ND			569.2	1,120	05-20	ND		
N9482	149		2/25/05 1200	3/22/05 1700	ND			ND			ND			ND		
N9923	149		3/22/05 1700	4/5/05 1047	ND			ND			ND			ND		
N9732	150		3/15/05 1730	3/25/05 1320	ND			ND			ND			ND		
N9774	150		3/25/05 1320	3/31/05 1212	ND			ND			ND			ND		
P0494	150		3/31/05 1212	4/8/05 1125	ND			ND			ND			ND		
N9924	151		3/16/05 1635	4/4/05 1315	515.5	1.95	bkg	ND			ND			ND		
N9743	152		3/23/05 0920	3/30/05 1458	ND			ND			ND			ND		
N9932	152		3/30/05 1458	4/7/05 1536	ND			ND			ND			ND		
P0451	152		4/7/05 1536	4/14/05 0941	ND			ND			ND			ND		
P0621	152		4/14/05 0941	4/20/05 1455	ND			ND			ND			ND		
N9933	153		3/16/05 0850	4/7/05 1350	515.7 (1)	1.03	bkg	541.5 (1)	1.30	bkg	565.1 (1)	6.85	bkg	ND		
N9934	154		3/16/05 0920	4/7/05 1330	514.5 (1)	1.02	bkg	ND			ND			ND		
N9935	155		3/16/05 0930	4/7/05 1325	514.6 (1)	2.37	bkg	ND			ND			ND		
N9665	156		3/16/05 1020	3/25/05 0935	514.4 (1)	0.566	bkg	ND			ND			ND		
N9936	156		3/25/05 0935	4/7/05 1638	513.8 (1)	1.01	bkg	ND			ND			ND		
P0452	156		4/7/05 1638	4/14/05 1101	ND			ND			ND			ND		
N9666	157		3/16/05 1050	3/25/05 0916	ND			ND			ND			ND		
N9937	157		3/25/05 0916	4/6/05 1832	ND			ND			ND			ND		
P0453	157		4/6/05 1832	4/14/05 1032	ND			ND			ND			ND		
N9667	158		3/16/05 1120	3/25/05 0910	ND			ND			ND			ND		
N9938	158		3/25/05 0910	4/6/05 1816	ND			ND			ND			ND		
P0454	158		4/6/05 1816	4/14/05 1027	ND			ND			ND			ND		
N9668	159		3/16/05 1145	3/25/05 0856	ND			ND			ND			ND		
N9939	159		3/25/05 0856	4/6/05 1848	ND			ND			ND			ND		
N9939D	159		3/25/05 0856	4/6/05 1848	ND			ND			ND			ND		
P0455	159		4/6/05 1848	4/14/05 1038	ND			ND			ND			ND		
P0622	159		4/14/05 1038	4/20/05 1728	ND			ND			ND			ND		
N9669	160		3/16/05 1205	3/25/05 1025	ND			ND			ND			ND		
N9941	160		3/25/05 1025	4/7/05 1343	ND			ND			ND			ND		
P0456	160		4/7/05 1343	4/14/05 1319	ND			ND			ND			ND		
P0623	160		4/14/05 1319	4/20/05 1614	ND			ND			ND			ND		
N9670	161		3/16/05 1230	3/25/05 1013	ND			ND			ND			ND		
N9942	161		3/25/05 1013	4/7/05 1411	ND			ND			ND			ND		
P0457	161		4/7/05 1411	4/14/05 1258	ND			ND			ND			ND		
P0624	161		4/14/05 1258	4/20/05 1633	ND			ND			ND			ND		
N9671	162		3/16/05 1445	3/25/05 0948	ND			ND			ND			ND		
N9943	162		3/25/05 0948	4/7/05 1651	ND			ND			ND			ND		
P0458	162		4/7/05 1651	4/14/05 1118	ND			ND			ND			ND		
N9744	163		3/23/05 1000	3/30/05 1357	515.2 (1)	0.820	bkg	ND			ND			ND		
N9944	163		3/30/05 1357	4/7/05 1507	ND			541.3	1,160	05-21	ND			ND		
P0459	163		4/7/05 1507	4/14/05 0925	ND			540.9	245	05-21	ND			ND		
P0459D	163		4/7/05 1507	4/14/05 0925	ND			541.1	357	05-21	ND			ND		
P0625	163		4/14/05 0925	4/20/05 1431	ND			541.1	76.9	05-21	ND			ND		
N9745	165		3/23/05 1030	3/30/05 1348	ND			ND			ND			ND		
N9945	165		3/30/05 1348	4/7/05 1459	ND			ND			ND			ND		
P0461	165		4/7/05 1459	4/14/05 0921	ND			ND			ND			ND		
P0626	165		4/14/05 0921	4/20/05 1423	ND			ND			ND			ND		
N9746	166		3/23/05 1110	3/30/05 1425	ND			ND			ND			ND		
N9946	166		3/30/05 1425	4/7/05 1516	ND			ND			ND			ND		
P0462	166		4/7/05 1516	4/14/05 0934	ND			ND			ND			577.4	4.11	05-26
P0627	166		4/14/05 0934	4/20/05 1448	ND			541.0	2.83	05-21	ND			577.0	4.86	05-26
N9747	167		3/23/05 1312	3/30/05 1531	516.0	1.55	bkg	ND			ND			ND		

OUL #	Station #	Station Name	Date/Time		Fluorescein Results		Trace #	Eosine Results		Trace #	RWT Results		Trace #	SRB Results		Trace #
			Placed	Recovered	Peak nm	Conc. ppb		Peak nm	Conc. ppb		Peak nm	Conc. ppb		Peak nm	Conc. ppb	
N9947	167		3/30/05 1531	4/7/05 1605	516.3	2.05	bkg	ND			ND			ND		
P0463	167		4/7/05 1605	4/14/05 1008	516.8	1.80	bkg	ND			ND			ND		
P0628	167		4/14/05 1008	4/20/05 1515	517.9	1.71	bkg	ND			ND			ND		
N9748	168		3/23/05 1420	3/30/05 1517	ND			ND			ND			ND		
N9948	168		3/30/05 1517	4/7/05 1551	ND			ND			ND			ND		
P0464	168		4/7/05 1551	4/14/05 0952	ND			ND			ND			ND		
P0629	168		4/14/05 0952	4/20/05 1503	ND			ND			ND			ND		
N9749	169		3/23/05 1515	3/30/05 1412	ND			ND			ND			ND		
N9949	169		3/30/05 1412	4/7/05 1450	517.0	18,700	05-25	ND			ND			ND		
P0465	169		4/7/05 1450	4/14/05 0914	516.9	833	05-25	ND			ND			ND		
P0630	169		4/14/05 0914	4/20/05 1409	516.9	579	05-25	ND			ND			ND		
N9750	171		3/23/05 1600	3/30/05 1136	ND			ND			ND			ND		
P0466	171		3/30/05 1136	4/14/05 0814	ND			ND			ND			ND		
P0631	171		4/14/05 0814	4/20/05 1331	ND			ND			ND			ND		
N9751	172		3/23/05 1628	3/30/05 1143	ND			ND			ND			ND		
P0467	172		3/30/05 1143	4/14/05 0820	ND			ND			569.1	14.0	05-28	ND		
N9752	173		3/23/05 1640	3/30/05 1114	ND			ND			ND			ND		
N9950	173		3/30/05 1114	4/7/05 1309	ND			ND			568.1	4,110	05-28	ND		
P0468	173		4/7/05 1309	4/14/05 0837	ND			ND			569.9	696	05-28	ND		
P0632	173		4/14/05 0837	4/20/05 1351	516.4 (1)	0.648	bkg	ND			568.8	218	05-28	ND		
N9753	174		3/23/05 1645	3/30/05 1105	ND			ND			ND			ND		
N9951	174		3/30/05 1105	4/7/05 1305	ND			ND			ND			ND		
P0469	174		4/7/05 1305	4/14/05 0842	ND			ND			ND			ND		
P0633	174		4/14/05 0842	4/20/05 1345	ND			ND			ND			ND		
N9754	175		3/23/05 1635	3/30/05 1027	ND			ND			ND			ND		
N9952	175		3/30/05 1027	4/7/05 1704	ND			ND			ND			ND		
P0470	175		4/7/05 1704	4/14/05 1141	ND			ND			ND			ND		
N9755	176		3/23/05 1650	3/30/05 0912	ND			ND			ND			ND		
N9953	176		3/30/05 0912	4/7/05 1234	ND			ND			ND			ND		
P0471	176		4/7/05 1234	4/14/05 0713	ND			ND			ND			ND		
P0634	176		4/14/05 0713	4/20/05 1236	ND			ND			ND			ND		
N9756	177		3/23/05 1750	3/30/05 0925	ND			ND			ND			ND		
N9954	177		3/30/05 0925	4/7/05 1152	ND			ND			ND			ND		
P0472	177		4/7/05 1152	4/14/05 0721	ND			ND			ND			ND		
P0635	177		4/14/05 0721	4/20/05 1244	ND			ND			ND			ND		
N9757	178		3/23/05 1640	3/30/05 0932	ND			ND			ND			ND		
N9955	178		3/30/05 0932	4/7/05 1157	ND			ND			ND			ND		
P0473	178		4/7/05 1157	4/14/05 0726	ND			ND			ND			ND		
P0636	178		4/14/05 0726	4/20/05 1256	ND			ND			ND			ND		
N9758	179		3/23/05 1746	3/30/05 0941	ND			ND			ND			ND		
N9956	179		3/30/05 0941	4/7/05 1202	ND			ND			ND			ND		
P0474	179		4/7/05 1202	4/14/05 0731	ND			ND			ND			ND		
P0637	179		4/14/05 0731	4/20/05 1251	ND			ND			ND			ND		
N9759	180		3/23/05 1800	3/30/05 0951	ND			ND			ND			ND		
N9759D	180		3/23/05 1800	3/30/05 0951	ND			ND			ND			ND		
N9957	180		3/30/05 0951	4/7/05 1209	ND			ND			ND			ND		
P0475	180		4/7/05 1209	4/14/05 0737	ND			ND			ND			ND		
P0638	180		4/14/05 0737	4/20/05 1301	ND			ND			ND			ND		
N9761	181		3/23/05 1809	3/30/05 0958	ND			ND			ND			ND		
N9958	181		3/30/05 0958	4/7/05 1215	ND			ND			ND			ND		
P0476	181		4/7/05 1215	4/14/05 0744	ND			ND			ND			ND		
P0639	181		4/14/05 0744	4/20/05 1308	ND			ND			ND			ND		
P0639D	181		4/14/05 0744	4/20/05 1308	ND			ND			ND			ND		
N9672	182		3/16/05 1100	3/25/05 0840	ND			ND			ND			ND		
N9959	182		3/25/05 0840	4/7/05 0830	ND			ND			ND			ND		
N9959D	182		3/25/05 0840	4/7/05 0830	ND			ND			ND			ND		
P0477	182		4/7/05 0830	4/14/05 1128	ND			ND			ND			ND		

OUL #	Station #	Station Name	Date/Time		Fluorescein Results		Trace #	Eosine Results		Trace #	RWT Results		Trace #	SRB Results		Trace #
			Placed	Recovered	Peak nm	Conc. ppb		Peak nm	Conc. ppb		Peak nm	Conc. ppb		Peak nm	Conc. ppb	
N9762	183		3/25/05 1033	3/30/05 1610	514.8 (1)	1.20	bkg	ND			570.2 (1)	1.67		ND		
N9961	183		3/30/05 1610	4/7/05 1358	ND			540.8	56.6	05-24	ND			ND		
P0478	183		4/7/05 1358	4/14/05 1326	ND			540.7	6.74	05-24	ND			ND		
P0641	183		4/14/05 1326	4/20/05 1622	ND			541.1	2.68	05-24	ND			ND		
N9962	184		3/30/05 1200	4/7/05 0845	ND			ND			ND			ND		
P0479	184		4/7/05 0845	4/15/05 1056	515.4 (1)	1.24	bkg	ND			ND			ND		
P0479D	184		4/7/05 0845	4/15/05 1056	515.0 (1)	0.869	bkg	ND			ND			ND		
P0642	184		4/15/05 1056	4/20/05 1540	ND			ND			ND			ND		
N9963	185		3/30/05 1228	4/7/05 0900	ND			541.3	2.55	05-24	ND			ND		
P0481	185		4/7/05 0900	4/15/05 1127	ND			539.9	1.03	05-24	ND			ND		
N9926	186		3/30/05 1358	4/6/05 1003	ND			ND			ND			ND		
P0545	186		4/6/05 1003	4/13/05 1039	ND			ND			ND			ND		
N9925	187		3/30/05 1408	4/6/05 0952	ND			ND			ND			ND		
P0546	187		4/6/05 0952	4/13/05 1031	ND			ND			ND			ND		
P0613	187		4/13/05 1031	4/20/05 0914	ND			ND			ND			ND		
N9866	188		3/30/05 1448	4/6/05 0805	ND			ND			ND			ND		
P0547	188		4/6/05 0805	4/13/05 0725	ND			ND			ND			ND		
	189			3/30/05 1658	(8)											
N9856	190		4/2/05 0900	4/7/05 0838	515.8	64.8	05-25	ND			ND			ND		
N9857	191		4/2/05 0915	4/7/05 0918	ND			ND			ND			ND		
N9858	192		4/2/05 0930	4/7/05 0815	ND			ND			ND			ND		
P0482	192		4/7/05 0815	4/14/05 1409	ND			ND			ND			ND		
N9859	193		4/3/05 1035	4/6/05 0821	ND			ND			ND			ND		
N9859D	193		4/3/05 1035	4/6/05 0821	ND			ND			ND			ND		
P0548	193		4/6/05 0821	4/13/05 0757	ND			ND			ND			ND		
N9861	194		4/3/05 1043	4/6/05 0826	ND			ND			ND			ND		
P0549	194		4/6/05 0826	4/13/05 0751	ND			ND			ND			ND		
N9862	195		4/3/05 1255	4/6/05 0926	ND			ND			ND			ND		
P0550	195		4/6/05 0926	4/13/05 0917	ND			ND			ND			ND		
P0614	195		4/13/05 0917	4/20/05 0946	ND			ND			ND			ND		
N9863	196		4/3/05 1308	4/6/05 0915	ND			ND			ND			ND		
P0551	196		4/6/05 0915	4/13/05 0903	ND			ND			ND			ND		
N9864	197		4/3/05 1355	4/6/05 0854	ND			ND			ND			ND		
P0552	197		4/6/05 0854	4/13/05 0833	ND			ND			ND			ND		
P0615	197		4/13/05 0833	4/19/05 1618	ND			ND			ND			ND		
N9865	198		4/3/05 1415	4/6/05 0847	ND			ND			568.6	5.37	05-27	ND		
P0553	198		4/6/05 0847	4/13/05 0821	ND			539.0	4.17	bkg	569.4	333	05-27	ND		
P0616	198		4/13/05 0821	4/19/05 1630	ND			ND			568.4	278	05-27	ND		

Table 2. Results for water samples analyzed for the presence of fluorescein, eosine, rhodamine WT (RWT) and sulforhodamine B (SRB) dyes.																
Peak wavelengths are reported in nanometers (nm); dye concentrations are reported in parts per billion (ppb).																
OUL	Station	Station Name	Date/Time	Fluorescein Results			Trace	Eosine Results		Trace	RWT Results		Trace	SRB Results		Trace
Lab #	#		Recovered	Peak nm	Conc. ppb	#	Peak nm	Conc. ppb	#	Peak nm	Conc. ppb	#	Peak nm	Conc. ppb	#	
N2384	1		4/22/04 1010	ND			ND			ND			ND			
N4936	1		8/4/04 1340	ND			ND			ND			ND			
N6105	1		9/29/04 1022	ND			ND			ND			ND			
N6812	1		10/26/04 0855	ND			ND			ND			ND			
N8042	1		1/10/05 1327	ND			ND			ND			ND			
N8265	1		01/13/05 1456	ND			ND			ND			ND			
N8745	1		2/9/05 1745	ND			ND			ND			ND			
N9004	1		2/25/05 1155	ND			ND			ND			ND			
N2385	2		4/22/04 1015	ND			ND			ND			ND			
N3452	2		6/3/04 1150	ND			ND			ND			ND			
N4937	2		8/4/04 1340	ND			ND			ND			ND			
N5417	2		8/31/04 1533	506.2 (3)	0.012	bkg	ND			ND			ND			
N6106	2		9/29/04 1026	507.0	0.030	bkg	ND			ND			ND			
N6813	2		10/26/04 0900	ND			ND			ND			ND			
N8043	2		1/10/05 1312	ND			ND			ND			ND			
N8266	2		01/13/05 1452	ND			ND			ND			ND			
N8476	2		1/21/05 0752	ND			ND			ND			ND			
N8453	2		2/1/05 1755	ND			ND			ND			ND			
N8746	2		2/9/05 1742	ND			ND			ND			ND			
N9005	2		2/25/05 1200	ND			ND			ND			ND			
N3047	3		5/19/04 0955	ND			ND			ND			ND			
N3931	3		6/24/04 1150	ND			ND			ND			ND			
N5096	3		8/14/04 0830	ND			ND			ND			ND			
N3048	4		5/19/04 1050	ND			ND			ND			ND			
N3272	4		5/26/04 0830	ND			ND			ND			ND			
N3932	4		6/24/04 1200	ND			ND			ND			ND			
N4310	4		7/9/04 0855	ND			533.4	0.227	04-03	ND			ND			
N4573	4		7/18/04 1745	ND			ND			ND			ND			
N4739	4		7/29/04 0800	ND			ND			ND			ND			
N4938	4		8/5/04 1110	ND			ND			ND			ND			
N5097	4		8/14/04 0815	ND			ND			ND			ND			
N7249	4		11/17/04 1540	ND			ND			ND			ND			
N3049	5		5/19/04 1125	ND			ND			ND			ND			
N3273	5		5/26/04 0900	ND			ND			ND			ND			
N3453	5		6/3/04 0815	ND			ND			ND			ND			
N3453R	5		6/3/04 0815	ND			ND			ND			ND			
N3933	5		6/24/04 0855	ND			ND			ND			ND			
N4311	5		7/9/04 1105	ND			533.6	7.80	04-03	ND			ND			
N4574	5		7/18/04 1815	ND (2)			531.2	2.10	04-03	ND			ND			
N4741	5		7/28/04 1625	ND (2)			532.2	1.37	04-03	ND			ND			
N4939	5		8/5/04 0805	ND (2)			531.9	1.66	04-03	ND			ND			
N5098	5		8/13/04 1530	507.8 (2)	0.106	bkg	531.7	1.35	04-03	ND			ND			
N5418	5		9/1/04 1355	507.2 (2)	0.026	bkg	532.4	0.352	04-03	ND			ND			
N5537	5		9/9/04 1415	507.2 (2)	0.051	bkg	532.5	0.659	04-03	ND			ND			
N5734	5		9/21/04 1532	510.6 (2)	0.103	bkg	531.6 (3)	0.503	04-03	ND			ND			
N6107	5		9/29/04 1605	ND			531.0 (3)	0.523	04-03	ND			ND			
N6135	5		10/5/04 1635	ND			531.1 (3)	0.500	04-03	ND			ND			
N6334	5		10/14/04 0955	ND			530.3 (3)	0.585	04-03	ND			ND			
N6814	5		10/27/04 1120	ND			533.2	0.097	04-03	ND			ND			
N7021	5		11/8/04 1632	ND			ND			ND			ND			
N7021R	5		11/8/04 1632	ND			ND			ND			ND			
N7568	5		12/3/04 1415	ND			ND			ND			ND			
P0189	5		4/7/05 1055	ND			ND			ND			ND			
P0706	5		4/15/05 1031	ND			ND			ND			ND			
N3050	6		5/19/04 1225	ND			ND			ND			ND			
N3274	6		5/26/04 0800	509.0 (1)	0.013	bkg	ND			ND			ND			

OUL	Station	Station Name	Date/Time	Fluorescein Results		Trace	Eosine Results		Trace	RWT Results		Trace	SRB Results		Trace
Lab #	#		Recovered	Peak nm	Conc. ppb	#	Peak nm	Conc. ppb	#	Peak nm	Conc. ppb	#	Peak nm	Conc. ppb	#
N3781	6		6/17/04 1340	ND			ND			ND			ND		
N8267	6		01/13/05 1358	ND			ND			ND			ND		
P0707	6		4/14/05 1739	ND			ND			ND			ND		
N3051	7		5/19/04 1445	ND			ND			ND			ND		
N3275	7		5/26/04 0715	ND			ND			ND			ND		
N3454	7		6/3/04 0645	ND			ND			ND			ND		
N8268	7		01/18/05 1403	ND			ND			ND			ND		
N3052	8		5/19/04 1500	ND			ND			ND			ND		
N3053	9		5/19/04 1525	ND			ND			ND			ND		
N5099	9		8/14/04 0800	ND			ND			ND			ND		
N5099R	9		8/14/04 0800	ND			ND			ND			ND		
N3054	10		5/19/04 1630	ND			ND			ND			ND		
N4742	10		7/27/04 1655	ND			ND			ND			ND		
N4742R	10		7/27/04 1655	ND			ND			ND			ND		
N5101	10		8/13/04 0825	ND			ND			ND			ND		
N6815	10		10/25/04 1025	ND			ND			ND			ND		
N3055	11		5/19/04 1720	ND			ND			ND			ND		
N3055R	11		5/19/04 1720	ND			ND			ND			ND		
N3056	12		5/19/04 1910	ND			ND			ND			ND		
N3782	12		6/16/04 1110	ND			ND			574.5	0.410	04-02	ND		
N3934	12		6/23/04 1000	ND			ND			575.8 (3)	0.071	04-02	ND		
N4156	12		6/29/04 1040	ND			ND			ND			ND		
N4312	12		7/8/04 0945	ND			ND			ND			ND		
N4743	12		7/27/04 1720	ND			533.9	9.98	04-04	ND			ND		
N4941	12		8/4/04 1020	ND			533.8	0.242	04-04	ND			ND		
N5102	12		8/13/04 0720	ND			534.6	0.048	04-04	ND			ND		
N5419	12		8/31/04 1115	ND			ND			ND			ND		
N5419R	12		8/31/04 1115	ND			ND			ND			ND		
N5538	12		9/9/04 0938	ND			ND			ND			ND		
N5735	12		9/21/04 1000	507.2 (3)	0.012	04-10	ND			ND			ND		
N6816	12		10/25/04 1443	ND			ND			ND			ND		
N3057	13		5/20/04 0845	ND			ND			ND			ND		
N3783	13		6/17/04 1145	ND			532.7	0.238	04-01	ND			ND		
N3783R	13		6/17/04 1145	ND			532.4	0.255	04-01	ND			ND		
N3935	13		6/23/04 1100	ND			ND			ND			ND		
N4942	13		8/4/04 1200	ND			ND			574.8	0.134	04-05	ND		
N4942R	13		8/4/04 1200	ND			ND			576.4	0.166	04-05	ND		
N5103	13		8/13/04 0910	ND			ND			577.6 (3)	0.134	04-05	ND		
N5421	13		8/31/04 1320	ND			ND			ND			ND		
N5539	13		9/9/04 1026	ND			ND			574.3	0.938	04-06	ND		
N5736	13		9/21/04 1130	ND			ND			574.8	0.369	04-06	ND		
N6136	13		10/5/04 1156	ND			ND			574.8	0.072	04-06	ND		
N6335	13		10/12/04 1305	ND			ND			ND			ND		
N6817	13		10/25/04 1615	ND			ND			ND			ND		
N8044	13		1/10/05 1425	ND			ND			ND			ND		
N8269	13		01/17/05 1655	ND			ND			ND			ND		
N3058	14		5/20/04 0930	ND			533.0	0.081	bkg	ND			ND		
N3276	14		5/26/04 1700	ND			ND			ND			ND		
N3455	14		6/3/04 1400	ND			ND			ND			ND		
N3676	14		6/11/04 1615	ND			ND			ND			ND		
N3936	14		6/23/04 1130	ND			ND			ND			ND		
N4157	14		6/29/04 1130	ND			ND			ND			ND		
N4575	14		7/18/04 1030	ND			ND			ND			ND		
N4744	14		7/28/04 0750	508.6	0.023	bkg	ND			ND			ND		
N5104	14		8/13/04 0920	ND			ND			ND			ND		
N5422	14		8/31/04 1335	ND			ND			ND			ND		
N3059	15		5/20/04 1015	ND			ND			ND			ND		
N3784	15		6/16/04 1750	ND			533.3	0.369	04-01	ND			ND		

OUL	Station	Station Name	Date/Time	Fluorescein Results		Trace	Eosine Results		Trace	RWT Results		Trace	SRB Results		Trace
Lab #	#		Recovered	Peak nm	Conc. ppb	#	Peak nm	Conc. ppb	#	Peak nm	Conc. ppb	#	Peak nm	Conc. ppb	#
N3937	15		6/23/04 1140	ND			ND			ND			ND		
N5423	15		8/31/04 1458	ND			ND			573.5	12.2	04-06	ND		
N5541	15		9/9/04 1057	ND			ND			573.9	3.28	04-06	ND		
N5737	15		9/21/04 1240	ND			ND			573.5	1.51	04-06	ND		
N6108	15		9/29/04 0948	ND			ND			573.9	0.711	04-06	ND		
N6137	15		10/5/04 1432	ND			ND			573.4	0.588	04-06	ND		
N6336	15		10/12/04 1405	ND			ND			574.0	0.375	04-06	ND		
N6818	15		10/26/04 0807	ND			ND			ND			ND		
N3061	16		5/20/04 1040	ND			ND			ND			ND		
N4745	16		7/28/04 0900	ND			ND			574.1	0.513	04-05	ND		
N4943	16		8/4/04 1320	ND			ND			573.7	1.52	04-05	ND		
N5105	16		8/13/04 1015	ND			ND			573.6	0.625	04-05	ND		
N5424	16		8/31/04 1453	ND			ND			575.2	0.235	04-05	ND		
N5542	16		9/9/04 1055	ND			ND			573.6 (3)	0.067	04-05	ND		
N5738	16		9/21/04 1245	ND			ND			573.6	0.136	04-05	ND		
N8270	16		01/18/05 1204	508.4	0.114	05-13	ND			ND			ND		
N8454	16		2/1/05 1815	ND			ND			ND			ND		
N3062	17		5/20/04 1130	ND			ND			ND			ND		
N3277	17		5/26/04 1000	ND			ND			ND			ND		
N3456	17		6/3/04 1015	ND			ND			ND			ND		
N3938	17		6/24/04 1140	ND			ND			ND			ND		
N4158	17		6/30/04 0940	ND			ND			ND			ND		
N4313	17		7/9/04 1215	ND			ND			ND			ND		
N3063	18		5/20/04 1505	ND			ND			ND			ND		
N4746	18		7/28/04 0825	ND			ND			573.4	140	04-05	ND		
N4944	18		8/4/04 1350	ND			ND			573.1	8.93	04-05	ND		
N5106	18		8/13/04 1045	ND			ND			573.0	5.96	04-05	ND		
N5425	18		8/31/04 1540	ND			ND			572.6	0.867	04-05	ND		
N5543	18		9/9/04 1135	ND			ND			573.2	0.685	04-05	ND		
N5739	18		9/21/04 1252	ND			ND			572.3	0.645	04-05	ND		
N6109	18		9/29/04 1033	ND			ND			572.0	0.607	04-05	ND		
N6138	18		10/5/04 1445	ND			ND			572.7	0.806	04-05	ND		
N6337	18		10/12/04 1440	ND			ND			573.9	0.886	04-05	ND		
N6819	18		10/26/04 0909	ND			ND			573.2	0.128	04-05	ND		
N6819R	18		10/26/04 0909	ND			ND			572.2	0.093	04-05	ND		
N7022	18		11/8/04 1540	ND			ND			ND			ND		
N7250	18		11/17/04 1250	ND			ND			ND			ND		
N7569	18		12/3/04 1642	ND			ND			ND			ND		
N8045	18		1/10/05 1304	ND			ND			ND			ND		
N8271	18		01/18/05 1216	ND			ND			ND			ND		
N3064	19		5/20/04 1740	ND			ND			ND			ND		
N3278	19		5/26/04 1315	ND			ND			ND			ND		
N3457	19		6/3/04 1115	ND			ND			ND			ND		
N3785	19		6/17/04 0950	ND			533.7	1.36	04-01	ND			ND		
N3939	19		6/23/04 1350	ND			533.7	0.333	04-01	ND			ND		
N4159	19		6/29/04 1330	ND			532.8	0.239	04-01	ND			ND		
N4314	19		7/8/04 1250	ND			ND			ND			ND		
N4576	19		7/18/04 1305	ND			532.2 (3)	0.039	04-01	ND			ND		
N4747	19		7/28/04 1010	ND			ND			ND			ND		
N4945	19		8/4/04 1620	ND			ND			ND			ND		
N5107	19		8/13/04 1115	ND			ND			ND			ND		
N5426	19		8/30/04 1115	ND			ND			ND			ND		
N3065	20		5/20/04 1800	ND			ND			ND			ND		
N5108	20		8/13/04 1120	ND			ND			ND			ND		
N3066	21		5/21/04 0925	ND			ND			ND			ND		
N3279	21		5/26/04 0915	ND			ND			ND			ND		
N3458	21		6/3/04 0830	ND			ND			ND			ND		
N3786	21		6/17/04 1515	ND			ND			ND			ND		

OUL	Station	Station Name	Date/Time	Fluorescein Results		Trace	Eosine Results		Trace	RWT Results		Trace	SRB Results		Trace
Lab #	#		Recovered	Peak nm	Conc. ppb	#	Peak nm	Conc. ppb	#	Peak nm	Conc. ppb	#	Peak nm	Conc. ppb	#
N4161	21		6/30/04 0720	ND			ND			ND			ND		
N4161R	21		6/30/04 0720	ND			ND			ND			ND		
N4315	21		7/9/04 1115	ND			ND			ND			ND		
N4748	21		7/28/04 1630	ND			ND			ND			ND		
N4946	21		8/5/04 0815	ND			ND			ND			ND		
N5109	21		8/13/04 1540	ND			ND			ND			ND		
N5427	21		9/1/04 1405	ND			ND			ND			ND		
N6110	21		9/29/04 1542	ND			ND			ND			ND		
N6821	21		10/27/04 1059	ND			ND			ND			ND		
N7570	21		12/3/04 1355	ND			ND			ND			ND		
N7810	21		12/21/04 1646	ND			ND			ND			ND		
N8046	21		1/5/05 1105	ND			ND			ND			ND		
N3067	22		5/21/04 1010	ND			ND			ND			ND		
N3459	22		6/3/04 0845	ND			ND			ND			ND		
N5110	22		8/13/04 1545	ND			ND			ND			ND		
N3068	23		5/21/04 1055	ND			ND			ND			ND		
N3281	24		5/26/04 1045	ND			ND			ND			ND		
N3281R	24		5/26/04 1045	ND			ND			ND			ND		
N3461	24		6/3/04 1100	ND			ND			ND			ND		
N3677	24		6/13/04 1515	ND			ND			ND			ND		
N3787	24		6/17/04 0910	ND			ND			ND			ND		
N3941	24		6/23/04 1615	ND			ND			ND			ND		
N3941R	24		6/23/04 1615	ND			ND			ND			ND		
N4162	24		6/29/04 1420	ND			ND			ND			ND		
N4316	24		7/8/04 1340	ND			ND			ND			ND		
N4749	24		7/28/04 1110	ND			ND			ND			ND		
N4947	24		8/4/04 1520	ND			ND			ND			ND		
N5111	24		8/13/04 1145	ND			ND			ND			ND		
N5428	24		8/31/04 1710	ND			ND			ND			ND		
N5544	24		9/9/04 1143	ND			ND			ND			ND		
N5741	24		9/21/04 1408	ND			ND			574.2	0.085	Viacom	ND		
N6111	24		9/29/04 1136	ND			ND			575.6	0.110	Viacom	ND		
N6139	24		10/5/04 1340	ND			ND			572.8	0.423	Viacom	ND		
N6139D	24		10/5/04 1340	ND			ND			573.4	0.333	Viacom	ND		
N6338	24		10/12/04 1650	ND			ND			573.5	0.595	Viacom	ND		
N6822	24		10/26/04 1200	ND			ND			ND			ND		
N7023	24		11/8/04 1005	ND			ND			ND			582.2	1.58	Viacom
N7251	24		11/17/04 1340	ND			ND			ND			ND		
N7571	24		12/3/04 1515	ND			ND			ND			ND		
N7811	24		12/21/04 1453	ND			ND			ND			ND		
N3069	25		5/21/04 1600	ND			ND			ND			ND		
N3282	25		5/26/04 1015	ND			ND			576.6	0.076	Viacom	ND		
N3462	25		6/3/04 1030	ND			ND			ND			ND		
N3678	25		6/13/04 1520	ND			ND			574.8	0.101	Viacom	ND		
N3788	25		6/17/04 0850	ND			ND			ND			ND		
N3942	25		6/23/04 1600	ND			ND			ND			ND		
N4163	25		6/29/04 1455	ND			ND			575.0	0.125	Viacom	ND		
N4317	25		7/8/04 1420	ND			ND			ND			ND		
N4577	25		7/18/04 1425	ND			ND			ND			ND		
N5545	25		9/9/04 1118	ND			ND			575.6	0.142	Viacom	ND		
N5742	25		9/21/04 1437	ND			ND			573.5	0.586	Viacom	ND		
N6112	25		9/29/04 1310	ND			ND			574.8	0.345	Viacom	ND		
N7024	25		11/8/04 1035	ND			ND			ND			581.6	0.463	Viacom
N7572	25		12/3/04 1455	ND			ND			ND			ND		
N7812	25		12/21/04 1526	ND			ND			ND			ND		
N8047	25		1/11/05 1208	ND			ND			ND			ND		
N8272	25		01/18/05 1345	ND			ND			ND			ND		
N9006	25		2/24/05 1340	ND			ND			ND			ND		

OUL	Station	Station Name	Date/Time	Fluorescein Results	Trace	Eosine Results	Trace	RWT Results	Trace	SRB Results	Trace				
Lab #	#		Recovered	Peak nm	Conc. ppb	#	Peak nm	Conc. ppb	#	Peak nm	Conc. ppb	#	Peak nm	Conc. ppb	#
N9522	25		3/16/05 1540	ND			ND			ND			ND		
N3070	26		5/21/04 1645	ND			ND			ND			ND		
N3283	26		5/26/04 1030	ND			ND			ND			ND		
N3463	26		6/3/04 1045	ND			ND			ND			ND		
N3679	26		6/13/04 1530	ND			ND			ND			ND		
N3789	26		6/17/04 0900	ND			ND			ND			ND		
N3943	26		6/23/04 1605	ND			ND			ND			ND		
N4164	26		6/29/04 1500	ND			ND	575.6	0.098	Viacom			ND		
N4318	26		7/8/04 1425	ND			ND						ND		
N4578	26		7/18/04 1430	ND			ND						ND		
N5546	26		9/9/04 1122	ND			ND						ND		
N5743	26		9/21/04 1440	ND			ND	574.0	0.405	Viacom			ND		
N6113	26		9/29/04 1313	ND			ND	574.1	0.271	Viacom			ND		
N7025	26		11/8/04 1040	ND			ND						ND		
N7252	26		11/17/04 1350	ND			ND						582.4	0.684	Viacom
N7573	26		12/3/04 1458	ND			ND						ND		
N7813	26		12/21/04 1530	ND			ND						ND		
N8048	26		1/11/05 1215	ND			ND						ND		
N8273	26		01/18/05 1350	ND			ND						ND		
N9523	26		3/16/05 1545	ND			ND						ND		
N3284	27		5/25/04 1400	ND			ND			ND			ND		
N3681	27		6/13/04 1710	ND			ND						ND		
N3790	27		6/17/04 1540	ND			ND						ND		
N3944	27		6/24/04 0945	ND			ND						ND		
N4165	27		6/30/04 0800	ND			ND						ND		
N4319	27		7/9/04 1140	ND			ND						ND		
N4579	27		7/18/04 1845	ND			ND						ND		
N4579D	27		7/18/04 1845	ND			ND						ND		
N4750	27		7/28/04 1500	ND			ND						ND		
N4948	27		8/5/04 0900	ND			ND						ND		
N6823	27		10/27/04 1008	ND			ND						ND		
N3285	28		5/25/04 1445	ND			ND			ND			ND		
N3682	28		6/13/04 1720	ND			ND						ND		
N3791	28		6/17/04 1550	ND			ND						ND		
N3945	28		6/24/04 0955	ND			ND						ND		
N4166	28		6/30/04 0810	ND			ND						ND		
N4321	28		7/9/04 1145	ND			ND						ND		
N4581	28		7/18/04 1850	ND			ND						ND		
N4751	28		7/28/04 1505	ND			ND						ND		
N4949	28		8/5/04 0905	ND			ND						ND		
N5112	28		8/13/04 1425	ND			ND						ND		
N5429	28		9/1/04 1500	ND			ND						ND		
N6824	28		10/27/04 1012	ND			ND						ND		
N3286	29		5/25/04 1530	ND			ND			ND			ND		
N3946	29		6/24/04 1115	ND			ND						ND		
N3287	30		5/25/04 1730	ND			ND			ND			ND		
N3464	30		6/3/04 0915	ND			ND						ND		
N3464R	30		6/3/04 0915	ND			ND						ND		
N4322	30		7/9/04 1055	ND			533.9	1.50	04-03	ND			ND		
N4322R	30		7/9/04 1055	ND			533.8	1.48	04-03	ND			ND		
N4582	30		7/18/04 1805	ND			533.3	6.18	04-03	ND			ND		
N4752	30		7/28/04 1615	ND			533.5	3.25	04-03	ND			ND		
N4950	30		8/5/04 0810	ND			533.4	2.16	04-03	ND			ND		
N5113	30		8/13/04 1525	ND			533.0	1.79	04-03	ND			ND		
N5430	30		9/1/04 1337	ND			533.4	0.865	04-03	ND			ND		
N5547	30		9/9/04 1422	ND			533.4	1.05	04-03	ND			ND		
N5744	30		9/21/04 1543	ND			533.2	1.07	04-03	ND			ND		
N6114	30		9/29/04 1608	ND			533.3	1.15	04-03	ND			ND		

OUL	Station	Station Name	Date/Time	Fluorescein Results		Trace	Eosine Results		Trace	RWT Results		Trace	SRB Results		Trace
Lab #	#		Recovered	Peak nm	Conc. ppb	#	Peak nm	Conc. ppb	#	Peak nm	Conc. ppb	#	Peak nm	Conc. ppb	#
N6143	30		10/5/04 1656	ND			533.2	1.28	04-03	ND			ND		
N6342	30		10/14/04 1000	ND			532.6	0.845	04-03	ND			ND		
N6825	30		10/27/04 1130	ND			533.6 (3)	0.036	04-03	ND			ND		
N7026	30		11/8/04 1637	ND			534.0	0.266	04-03	ND			ND		
N7253	30		11/17/04 1440	ND			534.0	0.208	04-03	ND			ND		
N7574	30		12/3/04 1420	ND			ND			ND			ND		
N7587	30		12/7/04 1112	ND			ND			ND			ND		
N7814	30		12/21/04 1708	ND			535.5	0.289	04-03	ND			ND		
N8049	30		1/5/05 1125	ND			ND			ND			ND		
N9007	30		2/25/05 1245	ND			536.6	0.092	04-03	ND			ND		
N9524	30		3/16/05 1703	ND			535.6	0.146	04-03	ND			ND		
N3288	31		5/26/04 1115	ND			ND			573.5	1.61	Viacom	ND		
N3465	31		6/3/04 1500	ND			ND			574.0	0.566	Viacom	ND		
N3683	31		6/14/04 0845	ND			ND			573.4	1.71	Viacom	ND		
N3792	31		6/17/04 0830	ND			ND			573.8	0.568	Viacom	ND		
N3947	31		6/23/04 1515	ND			ND			573.9	0.997	Viacom	ND		
N4167	31		6/29/04 1440	ND			ND			573.3	1.73	Viacom	ND		
N4323	31		7/8/04 1400	ND			ND			573.8	0.800	Viacom	ND		
N4583	31		7/19/04 1115	ND			ND			573.2	1.07	Viacom	ND		
N5548	31		9/9/04 1304	ND			ND			573.4	1.89	Viacom	ND		
N5745	31		9/21/04 1425	ND			ND			573.1	3.25	Viacom	ND		
N6115	31		9/29/04 1300	ND			ND			573.3	3.05	Viacom	ND		
N7027	31		11/8/04 1022	ND			ND			575.0	0.687	Viacom	ND		
N7575	31		12/3/04 1442	ND			534.3	1.20	04-10	576.0	0.260	Viacom	ND		
N7588	31		12/7/04 1156	ND			534.0	0.463	04-10	576.6 (3)	0.201	Viacom	ND		
N7832	31		12/7/04 1300	ND			534.7	44.2	04-10	ND			ND		
N7833	31		12/7/04 1400	ND			534.7	75.3	04-10	ND			ND		
N7834	31		12/7/04 1500	ND			534.7	63.2	04-10	ND			ND		
N7835	31		12/7/04 1600	ND			534.8	54.8	04-10	ND			ND		
N7815	31		12/21/04 1510	ND			ND			574.6	1.32	Viacom	ND		
N8050	31		1/11/05 1228	ND			ND			576.8	0.301	Viacom	ND		
N8274	31		01/18/05 1702	ND			ND			574.4	0.459	Viacom	ND		
N9008	31		2/24/05 1328	ND			ND			575.4	0.636	Viacom	ND		
N9026	31		3/1/05 1328	ND			534.1	1.00	04-10	576.3	0.426	Viacom	ND		
N9525	31		3/16/05 1528	ND			ND			574.8	1.21	Viacom	ND		
N3545	32		6/7/04 1430	ND			ND			ND			ND		
N3546	33		6/7/04 1440	ND			ND			ND			ND		
N3684	33		6/14/04 1740	ND			ND			ND			ND		
N3793	33		6/17/04 1600	ND			ND			ND			ND		
N3948	33		6/24/04 1010	ND			ND			ND			ND		
N4168	33		6/30/04 0820	506.0 (3)	0.018	bkg	ND			ND			ND		
N4753	33		7/28/04 1545	ND			ND			ND			ND		
N4951	33		8/5/04 0840	ND			ND			ND			ND		
N5114	33		8/13/04 1510	ND			ND			ND			ND		
N3547	34		6/7/04 1450	ND			ND			ND			ND		
N3949	34		6/24/04 1020	ND			ND			ND			ND		
N5115	34		8/13/04 1515	ND			ND			ND			ND		
N3548	35		6/7/04 1510	ND			ND			ND			ND		
N3549	36		6/7/04 1640	ND			ND			ND			ND		
N3685	36		6/13/04 1615	ND			ND			ND			ND		
N3550	37		6/7/04 1700	ND			ND			ND			ND		
N3950	37		6/23/04 1740	ND			ND			ND			ND		
N3551	38		6/7/04 1710	ND			ND			ND			ND		
N3551R	38		6/7/04 1710	ND			ND			ND			ND		
N3794	38		6/17/04 1330	ND			ND			ND			ND		
N3951	38		6/23/04 1750	ND			ND			ND			ND		
N5431	38		9/1/04 1142	ND			ND			ND			ND		
N3552	39		6/7/04 1745	ND			ND			ND			ND		

OUL	Station	Station Name	Date/Time	Fluorescein Results		Trace	Eosine Results		Trace	RWT Results		Trace	SRB Results		Trace
Lab #	#		Recovered	Peak nm	Conc. ppb	#	Peak nm	Conc. ppb	#	Peak nm	Conc. ppb	#	Peak nm	Conc. ppb	#
N3952	39		6/23/04 1530	ND			ND			ND			ND		
N6826	39		10/26/04 1125	ND			ND			ND			ND		
N7816	39		12/21/04 1520	ND			ND			ND			ND		
N8051	39		1/11/05 1240	ND			ND			ND			ND		
N3553	40		6/7/04 1330	ND			ND			ND			ND		
N3554	41		6/8/04 1040	ND			ND			ND			ND		
N4324	41		7/8/04 1440	ND			ND			ND			ND		
N4754	41		7/28/04 1340	507.3	0.946	bkg	ND			ND			ND		
N4952	41		8/4/04 1730	507.0	0.035	bkg	ND			ND			ND		
N5116	41		8/13/04 1300	ND			ND			ND			ND		
N6827	41		10/27/04 0813	ND			ND			ND			ND		
N3555	42		6/8/04 1115	506.2 (3)	0.016	bkg	ND			ND			ND		
N3686	42		6/13/04 1510	505.8 (3)	0.018	bkg	ND			ND			ND		
N3795	42		6/17/04 0915	506.2 (3)	0.019	bkg	ND			ND			ND		
N3953	42		6/23/04 1630	507.0	0.018	bkg	ND			ND			ND		
N4169	42		6/29/04 1425	507.8 (3)	0.017	bkg	ND			ND			ND		
N4325	42		7/8/04 1345	506.8 (3)	0.018	bkg	ND			ND			ND		
N4584	42		7/18/04 1410	507.4 (3)	0.016	bkg	ND			ND			ND		
N4755	42		7/28/04 1115	506.6 (3)	0.014	bkg	ND			ND			ND		
N4953	42		8/4/04 1525	ND			ND			ND			ND		
N5117	42		8/13/04 1150	506.4 (3)	0.015	bkg	ND			ND			ND		
N5432	42		8/31/04 1706	507.0	0.021	bkg	ND			ND			ND		
N6116	42		9/29/04 1142	ND			ND			ND			ND		
N3556	43		6/8/04 1315	ND			ND			ND			ND		
N3687	43		6/13/04 1645	ND			ND			ND			ND		
N3796	43		6/17/04 1415	ND			ND			ND			ND		
N3954	43		6/24/04 1220	ND			ND			ND			ND		
N4326	43		7/9/04 0845	ND			533.0	0.258	04-03	ND			ND		
N4585	43		7/18/04 1735	ND			ND			ND			ND		
N4756	43		7/28/04 1755	ND			ND			ND			ND		
N4954	43		8/5/04 1050	ND			ND			ND			ND		
N5118	43		8/13/04 0810	ND			ND			ND			ND		
N5549	43		9/9/04 1346	ND			ND			ND			ND		
N5746	43		9/21/04 1504	ND			ND			ND			ND		
N6117	43		9/29/04 1451	ND			ND			ND			ND		
N9009	43		2/25/05 1300	ND			ND			ND			ND		
P0190	43		4/7/05 1041	ND			ND			ND			ND		
N3557	44		6/8/04 1415	ND			ND			ND			ND		
N3688	44		6/13/04 1545	ND			ND			ND			ND		
N3797	44		6/16/04 2000	ND			531.9	0.135	IU	ND			ND		
N3955	44		6/23/04 1730	ND			533.5	11.3	IU	ND			ND		
N4170	44		6/29/04 1410	ND			532.2 (3)	0.066	IU	ND			ND		
N4327	44		7/8/04 1325	ND			ND			ND			ND		
N4586	44		7/18/04 1345	ND			ND			ND			ND		
N4757	44		7/28/04 1100	ND			ND			ND			ND		
N4955	44		8/4/04 1555	507.0 (3)	0.018	bkg	532.7	0.297	IU	ND			ND		
N5119	44		8/13/04 1135	ND			530.0 (3)	0.158	IU	ND			ND		
N5119R	44		8/13/04 1135	ND			530.4 (3)	0.167	IU	ND			ND		
N5433	44		8/31/04 1656	506.4(3)	0.012	bkg	531.6 (3)	0.113	IU	ND			ND		
N5550	44		9/9/04 1152	ND			ND			ND			ND		
N5747	44		9/21/04 1355	507.4	0.282	bkg	532.2	0.312	IU	ND			ND		
N6118	44		9/29/04 1125	ND			ND			ND			ND		
N6344	44		10/12/04 1700	508.0	0.085	bkg	532.6 (3)	0.145	IU	ND			ND		
N6828	44		10/26/04 1025	ND			ND			ND			ND		
N7254	44		11/17/04 1425	ND			ND			ND			ND		
N7576	44		12/3/04 1526	ND			ND			ND			ND		
N7817	44		12/21/04 1440	ND			ND			ND			ND		
N8275	44		01/18/05 1330	ND			534.0	0.094	IU	ND			ND		

OUL	Station	Station Name	Date/Time	Fluorescein Results	Trace	Eosine Results	Trace	RWT Results	Trace	SRB Results	Trace
Lab #	#		Recovered	Peak nm	Conc. ppb	Peak nm	Conc. ppb	Peak nm	Conc. ppb	Peak nm	Conc. ppb
N3558	45		6/8/04 1530	ND		ND		ND		ND	
N3559	46		6/8/04 1615	ND		ND		ND		ND	
N3561	47		6/8/04 1645	ND		ND		ND		ND	
N3562	48		6/9/04 0830	ND		ND		ND		ND	
N7818	48		12/20/04 0948	ND		535.7	0.298	04-11		ND	
N8052	48		1/5/05 1445	ND		ND		ND		ND	
N8053	48		1/10/05 1502	ND		ND		ND		ND	
N8276	48		01/18/05 1008	ND		ND		ND		ND	
N8747	48		2/11/05 0847	ND		ND		ND		ND	
N9010	48		2/25/05 0900	ND		ND		ND		ND	
N9027	48		3/1/05 1230	ND		ND		574.9	14.8	05-17	ND
N9531	48		3/16/05 1102	ND		ND		ND		ND	
N9814	48		3/23/05 1720	ND		533.4	0.123	04-11	576.4 (3)	0.329	05-17
N9841	48		3/31/05 0902	ND		533.4	0.078	04-11		ND	
N3563	49		6/9/04 0850	ND		ND		ND		ND	
N3564	50		6/9/04 0915	ND		ND		ND		ND	
N6145	50		10/5/04 0955	ND		ND		ND		ND	
N3565	51		6/9/04 1010	ND		ND		ND		ND	
N4956	51		8/4/04 0945	ND		ND		ND		ND	
N5121	51		8/13/04 0755	ND		ND		ND		ND	
N6829	51		10/25/04 1125	ND		ND		ND		ND	
N7577	51		12/6/04 0917	ND		ND		ND		ND	
N3566	52		6/9/04 1030	ND		ND		ND		ND	
N3798	52		6/16/04 0945	ND		ND		574.1	5.39	04-02	ND
N3956	52		6/23/04 0905	ND		ND		574.1	1.77	04-02	ND
N4171	52		6/29/04 0930	ND		ND		576.4 (3)	0.114	04-02	ND
N4328	52		7/8/04 0855	ND		ND		575.2	0.219	04-02	ND
N4587	52		7/18/04 0845	ND		ND		ND		ND	
N4758	52		7/27/04 1615	ND		534.0	110	04-04		ND	
N4957	52		8/4/04 0950	ND		534.1	4.02	04-04		ND	
N5122	52		8/13/04 0800	ND		533.9	2.63	04-04		ND	
N5434	52		8/31/04 0937	ND		534.2	1.39	04-04		ND	
N5551	52		9/9/04 0905	ND		534.2	0.937	04-04		ND	
N5748	52		9/21/04 0912	ND		533.7	0.566	04-04		ND	
N6119	52		9/28/04 1108	ND		533.9	0.737	04-04		ND	
N6119R	52		9/28/04 1108	ND		533.9	0.723	04-04		ND	
N6146	52		10/5/04 0935	ND		533.7	0.699	04-04		ND	
N6345	52		10/12/04 1100	ND		534.3	0.749	04-04		ND	
N6830	52		10/25/04 1120	ND		533.7	0.494	04-04		ND	
N7028	52		11/8/04 1138	ND		535.8	0.176	04-04		ND	
N7255	52		11/17/04 1035	ND		535.2 (3)	0.075	04-04		ND	
N7578	52		12/6/04 0912	ND		535.1	0.843	04-04		ND	
N7819	52		12/21/04 1222	ND		535.4	0.137	04-04		ND	
N7819R	52		12/21/04 1222	ND		535.8 (3)	0.087	04-04		ND	
N8054	52		1/10/05 1535	ND		ND		ND		ND	
N8277	52		01/18/05 1050	ND		ND		ND		ND	
N3567	53		6/9/04 1200	ND		ND		ND		ND	
N5435	53		8/31/04 1400	ND		ND		ND		ND	
N7821	53		12/21/04 1414	ND		ND		ND		ND	
N3568	54		6/9/04 1545	ND		ND		ND		ND	
N3799	54		6/17/04 1210	ND		532.6	0.088	04-01		ND	
N3957	54		6/23/04 1140	ND		ND		ND		ND	
N4958	54		8/4/04 1220	ND		ND		574.2	0.288	04-05	ND
N4958R	54		8/4/04 1220	ND		ND		575.2	0.308	04-05	ND
N5123	54		8/13/04 0930	ND		ND		575.0	0.246	04-05	ND
N5436	54		8/31/04 1350	ND		ND		ND		ND	
N5552	54		9/9/04 1042	ND		ND		573.7	1.17	04-06	ND
N5749	54		9/21/04 1230	ND		ND		574.5	0.349	04-06	ND

OUL	Station	Station Name	Date/Time	Fluorescein Results		Trace	Eosine Results		Trace	RWT Results		Trace	SRB Results		Trace
Lab #	#		Recovered	Peak nm	Conc. ppb	#	Peak nm	Conc. ppb	#	Peak nm	Conc. ppb	#	Peak nm	Conc. ppb	#
N6121	54		9/29/04 0900	ND			ND			574.2	0.231	04-06	ND		
N6147	54		10/5/04 1223	ND			ND			576.3	0.108	04-06	ND		
N6831	54		10/25/04 1658	ND			ND						ND		
N8278	54		01/18/05 1132	ND			ND						ND		
N3569	55		6/9/04 1645	ND			ND			ND			ND		
N7256	55		11/17/04 1230	ND			ND			ND			ND		
N3570	56		6/10/04 0845	ND			ND			ND			ND		
N3571	57		6/10/04 0915	ND			ND			ND			ND		
N3572	58		6/10/04 1045	ND			ND			ND			ND		
N3573	59		6/10/04 1150	ND			ND			ND			ND		
N5437	59		8/31/04 1422	ND			ND			ND			ND		
N3574	60		6/10/04 1350	ND			ND			ND			ND		
N3575	61		6/10/04 1440	ND			ND			ND			ND		
N3689	61		6/13/04 1830	ND			ND			ND			ND		
N4959	61		8/4/04 1655	ND			ND			ND			ND		
N3576	62		6/10/04 1625	ND			ND			ND			ND		
N3577	63		6/10/04 1705	ND			ND			ND			ND		
N3577R	63		6/10/04 1705	ND			ND			ND			ND		
N8455	63		2/1/05 1730	ND			ND			ND			ND		
N3578	64		6/10/04 1730	ND			ND			ND			ND		
N8055	64		1/10/05 1225	ND			ND			ND			ND		
N3690	65		6/15/04 1330	ND			ND			ND			ND		
N3801	66		6/17/04 1020	ND			ND			ND			ND		
N3802	67		6/18/04 0830	ND			ND			ND			ND		
N6148	67		10/5/04 1110	ND			ND			ND			ND		
N7822	67		12/21/04 1335	ND			535.0	0.156	04-11	ND			ND		
N8056	67		1/10/05 1705	ND			ND			ND			ND		
N8279	67		01/18/05 1120	ND			ND			ND			ND		
N8279R	67		01/18/05 1120	ND			ND			ND			ND		
N9011	67		2/25/05 1025	ND			ND			ND			ND		
N9815	67		3/23/05 1635	ND			534.5	0.953	05-18	ND			ND		
N9842	67		3/31/05 1617	ND			ND			ND			ND		
P0717	67		4/8/05 1017	ND			ND			ND			ND		
N3803	68		6/18/04 0900	ND			ND			575.3	0.287	04-02	ND		
N3958	68		6/23/04 1040	ND			ND			ND			ND		
N4172	68		6/29/04 1050	ND			ND			ND			ND		
N4329	68		7/8/04 1000	ND			ND			ND			ND		
N4759	68		7/27/04 1845	ND			534.1	1.93	04-04	ND			ND		
N4961	68		8/4/04 1130	ND			ND			ND			ND		
N5124	68		8/13/04 0650	ND			ND			ND			ND		
N5438	68		8/31/04 1155	ND			ND			ND			ND		
N5750	68		9/21/04 1035	ND			ND			ND			ND		
N4173	70		6/30/04 1630	ND			ND			ND			ND		
N5125	70		8/13/04 1105	ND			ND			ND			ND		
N5439	70		8/31/04 1615	ND			ND			573.7	27.8	04-06	ND		
N5439R	70		8/31/04 1615	ND			ND			573.6	27.7	04-06	ND		
N5751	70		9/21/04 1315	ND			ND			573.5	1.97	04-06	ND		
N6122	70		9/29/04 1107	ND			ND			573.9	0.863	04-06	ND		
N6149	70		10/5/04 1506	ND			ND			573.6	0.684	04-06	ND		
N6832	70		10/26/04 0940	ND			ND			575.4	0.069	04-06	ND		
N8057	70		1/11/05 1150	ND			ND			ND			ND		
N4174	71		6/30/04 1645	ND			ND			ND			ND		
N4588	71		7/18/04 1240	ND			ND			ND			ND		
N6123	71		9/29/04 1049	ND			ND			ND			ND		
N5126	72		8/13/04 1100	506.6 (3)	0.011	bkg	ND			ND			ND		
N5441	72		8/31/04 1558	ND			ND			ND			ND		
N5752	72		9/21/04 1305	507.3	0.020	bkg	ND			ND			ND		
N6124	72		9/29/04 1056	ND			ND			ND			ND		

OUL	Station	Station Name	Date/Time	Fluorescein Results		Trace	Eosine Results		Trace	RWT Results		Trace	SRB Results		Trace
Lab #	#		Recovered	Peak nm	Conc. ppb	#	Peak nm	Conc. ppb	#	Peak nm	Conc. ppb	#	Peak nm	Conc. ppb	#
N6346	72		10/12/04 1505	507.2	0.032	bkg	ND			ND			ND		
N6833	72		10/26/04 0925	507.0 (3)	0.011	bkg	ND			ND			ND		
N7823	73		12/21/04 1317	ND			536.6 (3)	0.093	04-11	ND			ND		
N8058	73		1/10/05 1640	ND			ND			ND			ND		
N9012	73		2/25/05 0955	ND			ND			ND			ND		
N9816	73		3/23/05 1608	ND			534.9	0.513	05-18	ND			ND		
N9843	73		3/31/05 1458	ND			ND			ND			ND		
P0718	73		4/8/05 1024	ND			ND			ND			ND		
N6834	74		10/25/04 1505	ND			ND			573.2	0.214	04-08	ND		
N7029	74		11/8/04 1420	ND			ND			ND			ND		
N7257	74		11/17/04 1110	ND			ND			ND			ND		
N7579	74		12/6/04 1055	ND			ND			ND			ND		
N7579D	74		12/6/04 1055	ND			ND			ND			ND		
N7824	74		12/21/04 1324	ND			ND			ND			ND		
N8059	74		1/10/05 1650	ND			ND			573.8 (3)	0.086	04-08	ND		
N8059D	74		1/10/05 1650	ND			ND			ND			ND		
N8281	74		01/17/05 1730	ND			ND			ND			ND		
N9013	74		2/25/05 1015	ND			ND			ND			ND		
N9532	74		3/16/05 1153	ND			ND			ND			ND		
N9844	74		3/31/05 1519	ND			ND			ND			ND		
P0719	74		4/8/05 1050	ND			ND			ND			ND		
P0719R	74		4/8/05 1050	ND			ND			ND			ND		
N4761	75		7/27/04 1855	ND			ND			ND			ND		
N4962	75		8/4/04 1040	508	0.015	bkg	ND			ND			ND		
N5127	75		8/13/04 0845	ND			ND			ND			ND		
N5442	75		8/31/04 1215	ND			ND			ND			ND		
N5753	75		9/21/04 1110	ND			ND			ND			ND		
N7030	75		11/8/04 1353	ND			ND			ND			ND		
N7258	75		11/17/04 1150	ND			ND			ND			ND		
N7581	75		12/6/04 1030	ND			ND			ND			ND		
N7825	75		12/21/04 1300	ND			534.8	0.365	04-11	ND			ND		
N8061	75		1/10/05 1615	ND			532.8	0.093	04-11	ND			ND		
N8282	75		01/17/05 1747	ND			ND			ND			ND		
N9014	75		2/25/05 1100	ND			ND			ND			ND		
N9817	75		3/23/05 1500	ND			534.5	6.55	05-18	ND			ND		
N9845	75		3/31/05 1136	ND			534.6	0.380	05-18	ND			ND		
P0721	75		4/8/05 0839	ND			534.8	0.688	05-18	ND			ND		
N4762	76		7/27/04 1910	508.8	0.037	bkg	ND			ND			ND		
N4963	76		8/4/04 1035	508.8	0.041	bkg	ND			ND			ND		
N5128	76		8/13/04 0840	508.0	0.054	bkg	ND			ND			ND		
N5443	76		8/31/04 1208	507.4	0.031	bkg	ND			ND			ND		
N5754	76		9/21/04 1102	507.8	0.049	bkg	ND			ND			ND		
N6125	76		9/28/04 1505	508.6	0.029	bkg	ND			ND			ND		
N6150	76		10/5/04 1136	ND			ND			ND			ND		
N6835	76		10/25/04 1412	507.0	0.023	bkg	ND			ND			ND		
N7031	76		11/8/04 1400	ND			ND			ND			ND		
N7259	76		11/17/04 1140	ND			ND			ND			ND		
N7259R	76		11/17/04 1140	ND			ND			ND			ND		
N7582	76		12/6/04 1035	ND			ND			ND			ND		
N7826	76		12/21/04 1305	ND			534.6	0.546	04-11	ND			ND		
N8062	76		1/10/05 1622	ND			535.4	0.186	04-11	ND			ND		
N8283	76		01/17/05 1755	ND			533.2 (3)	0.083	04-11	ND			ND		
N9015	76		2/25/05 1040	ND			ND			ND			ND		
N9533	76		3/16/05 1137	ND			ND			ND			ND		
N9818	76		3/23/05 1514	ND			534.5	8.14	05-18	ND			ND		
N9846	76		3/31/05 1030	ND			534.2	0.641	05-18	ND			ND		
P0722	76		4/8/05 0814	ND			534.5	1.14	05-18	ND			ND		
N5450	78		8/24/04 1712	ND			ND			ND			ND		

OUL	Station	Station Name	Date/Time	Fluorescein Results		Trace	Eosine Results		Trace	RWT Results		Trace	SRB Results		Trace
Lab #	#		Recovered	Peak nm	Conc. ppb	#	Peak nm	Conc. ppb	#	Peak nm	Conc. ppb	#	Peak nm	Conc. ppb	#
N5444	78		8/30/04 1137	ND			ND			ND			ND		
N5445	78		8/30/04 1611	ND			ND			ND			ND		
N5446	78		9/2/04 0931	ND			533.2	0.044	04-01	ND			ND		
N5553	78		9/9/04 1112	ND			532.4	0.067	04-01	ND			ND		
N5755	78		9/21/04 1335	ND			530.8 (3)	0.066	04-01	ND			ND		
N6126	78		9/29/04 1735	ND			532.8	0.050	04-01	ND			ND		
N6151	78		10/5/04 1357	ND			531.2 (3)	0.052	04-01	ND			ND		
N6347	78		10/12/04 1520	ND			531.4 (3)	0.013	04-01	ND			ND		
N6836	78		10/25/04 0958	ND			ND			ND			ND		
N7032	78		11/8/04 1058	ND			ND			ND			ND		
N7261	78		11/17/04 1315	ND			ND			ND			ND		
N7583	78		12/6/04 1138	ND			ND			ND			ND		
N8284	78		01/17/05 1605	ND			ND			ND			ND		
N5451	79		8/24/04 1725	ND			ND			ND			ND		
N5447	79		8/30/04 1141	ND			ND			ND			ND		
N5448	79		8/30/04 1612	ND			ND			573.8	1.820	04-06	ND		
N5449	79		9/2/04 0935	ND			ND			573.9	2.33	04-06	ND		
N5554	79		9/9/04 1115	ND			ND			575.3	0.163	04-06	ND		
N5756	79		9/21/04 1340	ND			ND			574.4	0.127	04-06	ND		
N6127	79		9/29/04 1740	508.8	0.019	bkg	ND			574.6	0.118	04-06	ND		
N6152	79		10/5/04 1400	ND			ND			ND			ND		
N6348	79		10/12/04 1530	ND			ND			ND			ND		
N6837	79		10/25/04 1002	508.8	0.022	bkg	ND			ND			ND		
N7033	79		11/8/04 1103	ND			ND			ND			ND		
N7262	79		11/17/04 1310	ND			ND			ND			ND		
N7584	79		12/6/04 1144	ND			ND			ND			ND		
N8285	79		01/17/05 1610	ND			ND			ND			ND		
N5555	80		9/9/04 1010	ND			ND			574.1	0.477	04-06	ND		
N5757	80		9/21/04 1055	ND			ND			574.7	0.088	04-06	ND		
N6128	80		9/28/04 1619	ND			ND			ND			ND		
N6838	80		10/25/04 1625	ND			ND			ND			ND		
N8286	80		01/17/05 1645	ND			ND			ND			ND		
N5556	81		9/9/04 0955	ND			ND			ND			ND		
N5758	81		9/21/04 1043	ND			ND			ND			579.9	1.20	bkg
N6129	81		9/28/04 1455	ND			ND			ND			581.6 (3)	0.115	bkg
N6839	81		10/25/04 1540	ND			ND			ND			ND		
N8287	81		01/17/05 1635	ND			ND			ND			ND		
N6130	83		9/28/04 0955	507.9	0.462	04-07	ND			ND			ND		
N6153	83		10/5/04 1021	507.3	0.300	04-07	ND			ND			ND		
N6349	83		10/12/04 1020	507.7	0.195	04-07	ND			ND			ND		
N6841	83		10/25/04 1220	508.2	0.060	04-07	ND			ND			ND		
N6841R	83		10/25/04 1220	507.4	0.061	04-07	ND			ND			ND		
N7034	83		11/8/04 1330	509.4	0.026	04-07	ND			ND			ND		
N7263	83		11/17/04 0940	510.4 (3)	0.021	04-07	ND			ND			ND		
N7585	83		12/6/04 1000	ND			ND			ND			ND		
N7827	83		12/20/04 0953	ND			ND			ND			ND		
N8063	83		1/10/05 1507	ND			ND			ND			ND		
N8748	83		2/11/05 0852	ND			ND			ND			ND		
N9016	83		2/25/05 0905	ND			ND			ND			ND		
N9028	83		3/1/05 1236	ND			ND			ND			ND		
N9534	83		3/16/05 1107	ND			ND			ND			ND		
N9819	83		3/23/05 1728	ND			ND			ND			ND		
N9819R	83		3/23/05 1728	ND			ND			ND			ND		
N9847	83		3/31/05 0942	ND			ND			ND			ND		
P0723	83		4/8/05 0928	ND			ND			ND			ND		
N6131	84		9/28/04 1035	507.8	2.42	04-07	ND			ND			ND		
N6154	84		10/5/04 1030	507.4	1.33	04-07	ND			ND			ND		
N6350	84		10/12/04 1030	507.8	1.07	04-07	ND			ND			ND		

OUL	Station	Station Name	Date/Time	Fluorescein Results		Trace	Eosine Results		Trace	RWT Results		Trace	SRB Results		Trace
Lab #	#		Recovered	Peak nm	Conc. ppb	#	Peak nm	Conc. ppb	#	Peak nm	Conc. ppb	#	Peak nm	Conc. ppb	#
N6842	84		10/25/04 1233	507.9	0.244	04-07	ND			ND			ND		
N7035	84		11/8/04 1340	508.2	0.108	04-07	ND			ND			ND		
N7264	84		11/17/04 0950	509.3	0.102	04-07	ND			ND			ND		
N7586	84		12/6/04 1007	509.2	0.045	04-07	ND			ND			ND		
N7828	84		12/20/04 0958	508.0	0.061	04-07	ND			ND			ND		
N8064	84		1/10/05 1513	509.2	0.027	04-07	ND			ND			ND		
N8288	84		01/18/05 1017	509.4	0.030	04-07	ND			ND			ND		
N8749	84		2/11/05 0858	509.0	0.023	04-07	ND			ND			ND		
N9017	84		2/25/05 0915	508.0 (3)	0.017	04-07	ND			ND			ND		
N9029	84		3/1/05 1242	508.6 (3)	0.021	04-07	ND			ND			ND		
N9535	84		3/16/05 1113	508.6	0.025	04-07	ND			ND			ND		
N9821	84		3/23/05 1736	509.4 (3)	0.036	04-07	ND			ND			ND		
N9848	84		3/31/05 0953	ND			ND			ND			ND		
P0724	84		4/8/05 0914	ND			ND			ND			ND		
N6132	85		9/28/04 1145	508.7	0.110	04-07	532.5	0.210	04-04	ND			ND		
N6155	85		10/5/04 1024	ND			532.7	0.307	04-04	ND			ND		
N6351	85		10/12/04 1010	509.8	0.069	04-07	532.1	0.245	04-04	ND			ND		
N6843	85		10/25/04 1225	508.6	0.028	04-07	533.4	0.087	04-04	ND			ND		
N6133	86		9/28/04 1335	508.4	0.061	04-07	533.2 (3)	0.033	04-04	ND			ND		
N6156	86		10/5/04 1045	507.9	0.033	04-07	533.8 (3)	0.035	04-04	ND			ND		
N6352	86		10/12/04 1200	509.2	0.039	04-07	533.0	0.053	04-04	ND			ND		
N6844	86		10/25/04 1435	507.2	0.014	04-07	ND			ND			ND		
N6134	87		9/29/04 1512	ND			ND			ND			ND		
N6157	87		10/6/04 0915	ND			ND			573.0	25.8	04-09	ND		
N6353	87		10/14/04 0840	ND			ND			573.7	5.95	04-09	ND		
N6845	87		10/27/04 1437	ND			ND			575.2	0.105	04-09	ND		
N7036	87		11/8/04 1555	ND			ND			ND			ND		
N7265	87		11/17/04 1500	ND			ND			ND			ND		
N7829	87		12/21/04 1613	ND			ND			ND			ND		
N8289	87		01/14/05 1115	508.8	0.038	05-14	ND			ND			ND		
N8477	87		1/21/05 0822	ND			ND			ND			ND		
N8750	87		2/11/05 1003	ND			ND			ND			ND		
N9526	87		3/16/05 1250	ND			ND			ND			ND		
P0191	87		4/7/05 1009	ND			536.8	0.063	05-24	ND			ND		
P0708	87		4/14/05 1518	ND			ND			ND			ND		
P0765	87		4/20/05 1729	ND			ND			ND			ND		
N6158	88		10/6/04 1015	ND			ND			ND			ND		
N8065	88		1/5/05 1005	ND			ND			ND			ND		
N8290	88		01/14/05 1055	509.0	2.09	05-14	ND			ND			ND		
N8478	88		1/21/05 0810	509.9	0.087	05-14	ND			ND			ND		
N8751	88		2/11/05 0925	508.3	0.082	05-14	ND			ND			ND		
N9527	88		3/16/05 1304	ND			ND			ND			ND		
N9793	88		3/29/05 1536	508.0	0.070	05-14	ND			ND			ND		
P0709	88		4/15/05 0744	ND			ND			ND			ND		
N6159	89		10/6/04 1025	ND			ND			573.0	14.2	04-09	ND		
N6159R	89		10/6/04 1025	ND			ND			573.0	14.1	04-09	ND		
N6354	89		10/14/04 0910	ND			ND			573.6	4.45	04-09	ND		
N6354R	89		10/14/04 0910	ND			ND			573.3	3.66	04-09	ND		
N6846	89		10/27/04 1450	ND			ND			577.2 (3)	0.053	04-09	ND		
P0192	89		4/7/05 1020	ND			537.4 (3)	0.037	05-24	ND			ND		
P0710	89		4/15/05 0933	ND			ND			ND			ND		
P0766	89		4/20/05 1753	ND			ND			ND			ND		
N7037	90		11/8/04 1425	ND			ND			ND			ND		
N7830	90		12/21/04 1327	ND			534.8	0.249	04-11	ND			ND		
N8066	90		1/10/05 1655	ND			ND			ND			ND		
N8291	90		01/17/05 1735	ND			ND			ND			ND		
N9018	90		2/25/05 1005	ND			ND			ND			ND		
N9822	90		3/23/05 1621	ND			534.7	1.79	05-18	ND			ND		

OUL	Station	Station Name	Date/Time	Fluorescein Results		Trace	Eosine Results		Trace	RWT Results		Trace	SRB Results		Trace
Lab #	#		Recovered	Peak nm	Conc. ppb	#	Peak nm	Conc. ppb	#	Peak nm	Conc. ppb	#	Peak nm	Conc. ppb	#
N9849	90		3/31/05 1528	ND			ND			ND			ND		
P0725	90		4/8/05 1044	ND			535.4	0.105	05-18	ND			ND		
N7831	91		12/21/04 1630	ND			ND			ND			ND		
N8292	91		01/14/05 1100	509.2	0.142	05-14	ND			ND			ND		
N8479	91		1/21/05 0815	ND			ND			ND			ND		
N8752	91		2/11/05 0930	509.1	0.028	05-14	ND			ND			ND		
N9528	91		3/16/05 1307	ND			ND			ND			ND		
N9794	91		3/29/05 1540	ND			ND			ND			ND		
P0711	91		4/15/05 0748	ND			ND			ND			ND		
N8067	92		1/7/05 0905	ND			ND			ND			ND		
N8068	93		1/7/05 0918	ND			ND			ND			ND		
N8069	94		1/7/05 0930	ND			ND			ND			ND		
N8753	94		2/9/05 1140	ND			ND			574.9	41.8	05-16	ND		
N9021	94		2/25/05 1038	ND			ND			574.6	4.22	05-16	ND		
N9537	94		3/22/05 1450	ND			ND			574.7	3.50	05-16	ND		
P0175	94		4/5/05 1425	ND			ND			575.5	0.777	05-16	ND		
P0726	94		4/13/05 1348	ND			ND			574.8	0.927	05-16	ND		
P0754	94		4/19/05 1651	ND			ND			575.0	1.74	05-16	ND		
N8070	95		1/7/05 0942	ND			ND			ND			ND		
N8071	96		1/7/05 1008	ND			ND			ND			ND		
N8072	97		1/7/05 1040	ND			ND			ND			ND		
N9538	97		3/17/05 1140	ND			ND			ND			ND		
N9530	97		3/22/05 1526	ND			ND			ND			ND		
N8073	98		1/7/05 1128	ND			ND			ND			ND		
N8074	99		1/7/05 1148	ND			ND			ND			ND		
N8075	100		1/7/05 1203	ND			ND			ND			ND		
N8076	101		1/7/05 1405	ND			ND			ND			ND		
N8077	102		1/7/05 1415	ND			ND			ND			ND		
N9804	102		3/29/05 1144	ND			534.4	11.7	05-19	ND			ND		
P0176	102		4/4/05 1658	ND			534.5	18.1	05-19	574.7	16.7	05-23	ND		
P0727	102		4/13/05 1851	ND			534.2	9.42	05-19	575.2	3.73	05-23	ND		
P0755	102		4/20/05 1044	ND			534.8	7.15	05-19	575.1	1.27	05-23	ND		
N8078	103		1/7/05 1430	507.8 (3)	0.011	bkg	ND			ND			ND		
N8293	103		01/19/05 1445	ND			ND			ND			ND		
N8754	103		2/9/05 1513	508.2 (3)	0.016	bkg	ND			ND			ND		
N9805	103		3/29/05 1134	ND			ND			ND			ND		
P0177	103		4/4/05 1722	ND			ND			ND			ND		
P0728	103		4/13/05 1832	506.4 (3)	0.022	bkg	ND			ND			ND		
P0756	103		4/20/05 1031	508.8	0.029	bkg	ND			ND			ND		
N8079	104		1/7/05 1440	ND			ND			ND			ND		
N8079D	104		1/7/05 1440	ND			ND			ND			ND		
N8294	104		01/19/05 1440	ND			ND			ND			ND		
N8755	104		2/9/05 1508	ND			ND			ND			ND		
P0729	104		4/13/05 1822	ND			ND			ND			ND		
N8081	105		1/7/05 1523	ND			ND			ND			ND		
N8082	106		1/7/05 1540	ND			ND			ND			ND		
N8756	106		2/9/05 1218	ND			ND			ND			ND		
N8083	107		1/9/05 1158	ND			ND			ND			ND		
N8084	108		1/9/05 1315	ND			ND			ND			ND		
N9806	108		3/24/05 1700	ND			ND			ND			ND		
N8085	109		1/9/05 1332	ND			ND			ND			ND		
N8295	109		01/19/05 1110	ND			ND			ND			ND		
N8757	109		2/9/05 1006	ND			ND			ND			ND		
N9807	109		3/24/05 1712	ND			ND			ND			ND		
P0178	109		4/6/05 1537	ND			ND			ND			ND		
P0730	109		4/13/05 1558	ND			ND			ND			ND		
N8086	110		1/9/05 1353	ND			ND			ND			ND		
N8087	111		1/9/05 1450	ND			ND			ND			ND		

OUL	Station	Station Name	Date/Time	Fluorescein Results		Trace	Eosine Results		Trace	RWT Results		Trace	SRB Results		Trace
Lab #	#		Recovered	Peak nm	Conc. ppb	#	Peak nm	Conc. ppb	#	Peak nm	Conc. ppb	#	Peak nm	Conc. ppb	#
N8088	112		1/9/05 1545	ND			ND			ND			ND		
N8089	113		1/9/05 1605	ND			ND			ND			ND		
N8090	114		1/9/05 1610	ND			ND			ND			ND		
N8091	115		1/9/05 1625	ND			ND			ND			ND		
N8092	116		1/9/05 1635	ND			ND			ND			ND		
N8296	117		01/13/05 1345	ND			ND			ND			ND		
N8297	118		01/14/05 1605	ND			ND			ND			ND		
N8758	118		2/9/05 1415	ND			ND			ND			ND		
N8481	119		1/20/05 1050	ND			ND			ND			ND		
N8482	120		1/20/05 1107	ND			ND			ND			ND		
N8482R	120		1/20/05 1107	ND			ND			ND			ND		
N8483	121		1/20/05 1126	ND			ND			ND			ND		
N8456	122		2/1/05 1741	ND			ND			ND			ND		
N8457	123		2/2/05 1615	ND			ND			ND			ND		
N8458	124		2/2/05 1805	ND			ND			ND			ND		
N8459	125		2/2/05 1815	ND			ND			ND			ND		
N8461	126		2/3/05 0835	ND			ND			ND			ND		
N8461R	126		2/3/05 0835	ND			ND			ND			ND		
N8759	126		2/9/05 1645	508.4	2.87	05-15	ND			ND			ND		
N9539	126		3/17/05 1034	508.8	0.193	05-15	ND			ND			ND		
N9539R	126		3/17/05 1034	508.0	0.197	05-15	ND			ND			ND		
N9808	126		3/24/05 1612	508.8	0.065	05-15	ND			ND			ND		
P0179	126		4/5/05 1238	508.4 (3)	0.015	05-15	536.1	0.115	05-22	ND			ND		
P0179R	126		4/5/05 1238	508.2 (3)	0.013	05-15	537.0	0.084	05-22	ND			ND		
P0731	126		4/12/05 1447	509.4	0.076	05-15	534.0	0.130	05-22	ND			ND		
P0757	126		4/19/05 1331	508.8	0.026	05-15	ND			ND			ND		
N8462	127		2/3/05 0850	ND			ND			ND			ND		
N8761	127		2/9/05 1652	ND			ND			ND			ND		
N8463	128		2/3/05 0905	ND			ND			ND			ND		
N8475	128		2/5/05 1043	509.0	0.038	05-15	ND			ND			ND		
N8762	128		2/9/05 1702	508.7	0.247	05-15	ND			ND			ND		
N9541	128		3/17/05 1100	508.4	0.022	05-15	ND			ND			ND		
N9809	128		3/24/05 1631	ND			ND			ND			ND		
P0181	128		4/5/05 1211	ND			ND			ND			ND		
P0732	128		4/12/05 1425	ND			ND			ND			ND		
P0758	128		4/19/05 1311	ND			ND			ND			ND		
N8464	129		2/3/05 0918	ND			ND			ND			ND		
N8763	129		2/9/05 1708	ND			ND			ND			ND		
N8465	130		2/3/05 0945	ND			ND			ND			ND		
N8466	131		2/3/05 1000	ND			ND			ND			ND		
N9810	131		3/29/05 1407	ND			ND			ND			ND		
P0182	131		4/4/05 1833	ND			ND			575.4	0.830	05-23	ND		
P0733	131		4/12/05 1309	ND			535.2	0.214	05-19	ND			ND		
P0759	131		4/19/05 1736	ND			ND			ND			ND		
P0759R	131		4/19/05 1736	ND			ND			ND			ND		
N8467	132		2/3/05 1022	ND			ND			ND			ND		
N8764	132		2/9/05 1553	ND			ND			574.4	3.18	05-16	ND		
N9542	132		3/17/05 1120	ND			ND			ND			ND		
N9811	132		3/29/05 1443	ND			ND			578.4 (3)	0.194	05-16	ND		
P0183	132		4/4/05 1819	ND			ND			ND			ND		
P0734	132		4/12/05 1256	ND			ND			ND			ND		
P0761	132		4/19/05 1705	ND			ND			ND			ND		
N8468	133		2/3/05 1040	ND			ND			ND			ND		
N8469	134		2/3/05 1155	ND			ND			ND			ND		
N8470	135		2/3/05 1215	ND			ND			ND			ND		
P0184	135		4/5/05 1845	ND			534.5	22.2	05-22	ND			ND		
P0735	135		4/12/05 1709	ND			534.5	6.29	05-22	ND			ND		
P0762	135		4/19/05 1457	ND			534.5	4.52	05-22	ND			ND		

OUL	Station	Station Name	Date/Time	Fluorescein Results		Trace	Eosine Results		Trace	RWT Results		Trace	SRB Results		Trace
Lab #	#		Recovered	Peak nm	Conc. ppb	#	Peak nm	Conc. ppb	#	Peak nm	Conc. ppb	#	Peak nm	Conc. ppb	#
N8471	136		2/4/05 0948	ND			ND			ND			ND		
N8472	137		2/4/05 1008	508.9	1,850	05-15	ND			ND			ND		
N8765	137		2/10/05 1102	508.5	14.0	05-15	ND			ND			ND		
N8765V	137		2/10/05 1102	508.7	13.9	05-15	ND			ND			ND		
N9543	137		3/17/05 1012	508.8	1.20	05-15	ND			ND			ND		
P0185	137		4/5/05 1859	509.1	0.433	05-15	ND			ND			ND		
P0736	137		4/12/05 1733	508.7	0.537	05-15	ND			ND			ND		
N8473	138		2/4/05 1240	ND			ND			ND			ND		
N8766	138		2/10/05 0948	ND			ND			ND			ND		
N8474	139		2/4/05 1335	ND			ND			ND			ND		
N8767	139		2/10/05 1013	ND			ND			ND			ND		
N9812	139		3/24/05 1040	ND			ND			ND			ND		
P0186	139		4/6/05 1129	ND			ND			ND			ND		
N8768	140		2/11/05 0948	ND			ND			ND			ND		
N8769	141		2/11/05 1025	ND			ND			ND			ND		
N8770	142		2/11/05 1103	ND			ND			ND			ND		
N8771	143		2/11/05 1120	ND			ND			ND			ND		
N8772	144		2/11/05 1144	ND			ND			ND			ND		
N9019	145		2/25/05 1050	ND			ND			ND			ND		
N9019R	145		2/25/05 1050	ND			ND			ND			ND		
N9022	146		2/25/05 1108	ND			ND			ND			ND		
N9023	147		2/25/05 1120	ND			ND			ND			ND		
N9024	148		2/25/05 1145	ND			ND			ND			ND		
N9813	148		3/23/05 1411	ND			ND			ND			ND		
P0187	148		4/5/05 1022	ND			ND			574.6	32.3	05-20	ND		
P0737	148		4/13/05 1248	ND			ND			ND			ND		
P0763	148		4/20/05 1141	ND			ND			574.2	8.27	05-20	ND		
N9025	149		2/25/05 1200	ND			ND			ND			ND		
N9536	150		3/15/05 1730	ND			ND			ND			ND		
N9529	151		3/16/05 1635	ND			ND			ND			ND		
P0188	151		4/4/05 1315	ND			ND			ND			ND		
N9823	152		3/23/05 0920	ND			ND			ND			ND		
N9544	153		3/16/05 0850	ND			ND			ND			ND		
N9545	154		3/16/05 0920	ND			ND			ND			ND		
N9546	155		3/16/05 0930	ND			ND			ND			ND		
N9547	156		3/16/05 1020	ND			ND			ND			ND		
N9548	157		3/16/05 1050	ND			ND			ND			ND		
N9549	158		3/16/05 1120	ND			ND			ND			ND		
N9550	159		3/16/05 1145	ND			ND			ND			ND		
N9551	160		3/16/05 1205	ND			ND			ND			ND		
N9552	161		3/16/05 1230	ND			ND			ND			ND		
N9553	162		3/16/05 1445	ND			ND			ND			ND		
N9824	163		3/23/05 1000	ND			ND			ND			ND		
P0193	163		4/7/05 1507	ND			534.4	59.6	05-21	ND			ND		
P0712	163		4/14/05 0925	ND			534.6	2.92	05-21	ND			ND		
P0767	163		4/20/05 1431	ND			534.7	2.20	05-21	ND			ND		
N9825	164		3/23/05 1012	ND			ND			ND			ND		
N9825V	164		3/23/05 1012	ND			ND			ND			ND		
N9826	165		3/23/05 1030	ND			ND			ND			ND		
N9827	166		3/23/05 1110	ND			ND			ND			ND		
P0768	166		4/20/05 1448	ND			ND			ND			ND		
N9828	167		3/23/05 1312	ND			ND			ND			ND		
P0194	167		4/7/05 1605	ND			ND			ND			ND		
P0769	167		4/20/05 1515	ND			ND			ND			ND		
N9829	168		3/23/05 1420	ND			ND			ND			ND		
N9830	169		3/23/05 1515	ND			ND			ND			ND		
P0195	169		4/7/05 1450	508.8	4.78	05-25	ND			ND			ND		
P0713	169		4/14/05 0914	508.4	1.46	05-25	ND			ND			ND		

OUL Lab #	Station #	Station Name	Date/Time		Fluorescein Results		Trace	Eosine Results		Trace	RWT Results		Trace	SRB Results		Trace
			Recovered	Peak nm	Conc. ppb	#	Peak nm	Conc. ppb	#	Peak nm	Conc. ppb	#	Peak nm	Conc. ppb	#	
P0770	169		4/20/05 1409	508.7	1.01	05-25	ND				ND			ND		
N9831	170		3/23/05 1535	ND			ND				ND			ND		
N9832	171		3/23/05 1600	ND			ND				ND			ND		
N9833	172		3/23/05 1628	ND			ND				ND			ND		
P0714	172		4/14/05 0820	ND			ND				ND			ND		
N9834	173		3/23/05 1640	ND			ND				ND			ND		
P0196	173		4/7/05 1309	ND			ND				574.9	43.8	05-28	ND		
P0715	173		4/14/05 0837	ND			ND				574.6	10.7	05-28	ND		
P0771	173		4/20/05 1351	ND			ND				575.0	5.70	05-28	ND		
N9835	174		3/23/05 1645	ND			ND				ND			ND		
N9796	175		3/23/05 1635	ND			ND				ND			ND		
N9797	176		3/23/05 1650	ND			ND				ND			ND		
N9798	177		3/23/05 1750	ND			ND				ND			ND		
N9799	178		3/23/05 1640	ND			ND				ND			ND		
N9799R	178		3/23/05 1640	ND			ND				ND			ND		
N9801	179		3/23/05 1746	ND			ND				ND			ND		
N9802	180		3/23/05 1800	ND			ND				ND			ND		
N9803	181		3/23/05 1809	ND			ND				ND			ND		
N9851	181		3/30/05 0958	ND			ND				ND			ND		
N9795	183		3/25/05 1033	ND			ND				ND			ND		
P0197	183		4/7/05 1358	ND			ND				ND			ND		
P0716	183		4/14/05 1326	ND			ND				ND			ND		
P0772	183		4/20/05 1622	ND			ND				ND			ND		
P0161	184		3/30/05 1200	ND			ND				ND			ND		
P0162	185		3/30/05 1228	ND			ND				ND			ND		
P0198	185		4/7/05 0900	ND			ND				ND			ND		
P0163	186		3/30/05 1358	ND			ND				ND			ND		
P0164	187		3/30/05 1408	ND			ND				ND			ND		
P0165	188		3/30/05 1448	ND			ND				ND			ND		
N9850	189		3/30/05 1658	ND			ND				ND			ND		
P0166	190		4/2/05 0900	ND			ND				ND			ND		
P0167	191		4/2/05 0915	ND			ND				ND			ND		
P0168	192		4/2/05 0930	ND			ND				ND			ND		
P0169	193		4/3/05 1035	ND			ND				ND			ND		
P0170	194		4/3/05 1043	ND			ND				ND			ND		
P0171	195		4/3/05 1255	ND			ND				ND			ND		
P0172	196		4/3/05 1308	ND			ND				ND			ND		
P0173	197		4/3/05 1355	ND			ND				ND			ND		
P0174	198		4/3/05 1415	ND			ND				ND			ND		
P0159	198		4/6/05 0847	ND			ND				576.2 (3)	0.162	05-27	ND		
P0159R	198		4/6/05 0847	ND			ND				575.8 (3)	0.194	05-27	ND		
P0738	198		4/13/05 0821	ND			ND				574.5	2.55	05-27	ND		
P0764	198		4/19/05 1630	ND			ND				574.3	1.54	05-27	ND		

FOOTNOTES:

ND = no dye detected

bkg = background fluorescence

(1) = a fluorescence peak is present which does not meet all the criteria for a positive dye result, but has been calculated as though it were dye for background purposes.

(2) = Fluorescein dye **may be** present in this sample. However, due to the large concentration of eosine dye, the fluorescein cannot be accurately quantified.

(3) = A fluorescence peak is present which does not meet all the criteria for a positive dye result, but has been calculated as though it were dye because some dye was found in the corresponding charcoal sample.

(4) = No flow

(5) = Eosine dye **is** present in this sample. However, due to the large concentration of rhodamine WT dye, the eosine cannot be accurately quantified.

(6) = Fluorescein dye **is** present in this sample. However, due to the large concentration of eosine, the fluorescein dye cannot be accurately quantified.

(7) = Eosine dye **is** present in this sample. However, due to the large concentration of fluorescein dye, the eosine dye cannot be accurately quantified.

(8) = Only a water sample was collected during this sampling period.

(9) = Both charcoal samplers were found out of the water.

(10) = Rhodamine WT (RWT) **is** present in this sample. However, due to the greater concentration of eosine, the RWT cannot be accurately quantified.

(11) = No charcoal or water collected. Site dry.

(12) = An old charcoal packet was recovered and analyzed.

(13) = No sampling occurred during this period.

(14) = The landowner collected these samples and reported dates and times placed and collected.

Viacom = The fluorescence in this sample is related to Viacom activities.

IU = The fluorescence in this sample is from Indiana University activities.



APPENDIX Y FINAL KARST REPORT (REDACTED)

TECHNICAL REPORT APPENDICES

APPENDIX A	Memorandum of Understanding
APPENDIX B	Tabular results for activated carbon and water samples
APPENDIX C	Ozark Underground Laboratory Procedures and Criteria
APPENDIX D	Sampling Station Index and Karst Feature Index
APPENDIX E	Sampling Station and Select Feature Photographs
APPENDIX F	Individual Dye Trace Reports, Summary Table, and Figures
APPENDIX G	Documentation Graphs for All Analyzed Samples
APPENDIX H	Precipitation and Discharge Data from Illinois Central Spring
APPENDIX I	CONFIDENTIAL Data
APPENDIX J	Cave Fauna of the Section 5 Corridor of I-69
APPENDIX K	Indiana Bat Hibernacula Cave Reconnaissance
APPENDIX L	Pollutant Loading Estimate Tables and FHWA Methodology
APPENDIX M	IDNR Water Well Data
APPENDIX N	Detail Maps of Preferred Alternative and Resources



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**PROCEDURES AND CRITERIA
ANALYSIS OF FLUORESCHEIN, EOSINE, RHODAMINE WT,
SULFORHODAMINE B, AND PYRANINE
DYES IN WATER AND CHARCOAL SAMPLERS**

March 21, 2005

**Thomas Aley, PHG 179
President
Ozark Underground Laboratory, Inc.**

PROCEDURES

Introduction

This document describes standard procedures and criteria currently in use at the Ozark Underground Laboratory as of the date shown on the title page. Some samples may be subjected to different procedures and criteria because of unique conditions; such non-standard procedures and criteria are identified in reports for those samples. Standard procedures and criteria change as knowledge and experience increases and as equipment is improved or up-graded. The Ozark Underground Laboratory maintains a summary of changes in standard procedures and criteria.

Dye Nomenclature

Fluorescein is C.I. Acid yellow 73, Color Index Number 45350. Rhodamine WT is Acid Red 388; there is no assigned Color Index Number for this dye. Eosine (sometimes called eosin) is Acid Red 87, Color Index Number 45380. Sulforhodamine B is C.I. Acid Red 52, Color Index Number 45100. Pyranine is Solvent Green 7 (also called D&C Green 8), Color Index Number 59040.

Description of the Samplers

The charcoal samplers are packets of fiberglass screening partially filled with approximately 4.25 grams of activated coconut charcoal. The charcoal used by the Ozark Underground Laboratory is Barnebey and Sutcliffe coconut shell carbon, 6 to 12 mesh, catalog type AC.

The most commonly used samplers are about 4 inches long by two inches wide. A cigar-shaped sampler is made for use in very small diameter wells (such as 1 inch diameter wells); this is a special order item and should be specifically requested when it is needed. All of the samplers are closed by heat sealing.

Placement of Samplers

Samplers (also called charcoal packets) are placed so as to be exposed to as much water as possible. In springs and streams they are typically attached to a rock or other anchor in a riffle area. Attachment of the packets often uses plastic tie wires. In swifter water galvanized wire (such as electric fence wire) is often used. Other types of anchoring wire can be used. Electrical wire with plastic insulation is also good. Packets are attached so that they extend outward from the anchor rather than being flat against it. Two or more separately anchored packets are typically used for sampling springs and streams. The use of fewer packets is discouraged except when the spring or stream is so small that there is not appropriate space for placing multiple packets.

When pumping wells are being sampled, the samplers are placed in sample holders made of PVC pipe fittings. Brass hose fittings are installed at the end of the sample holders so that the sample holders can be installed on outside hose bibs and water which has run through the samplers can be directed to waste through a connected garden hose.

The samplers can be unscrewed in the middle so that charcoal packets can be changed. The middle portions of the samplers consists of 1.5 inch diameter pipe and pipe fittings.

Charcoal packets can also be lowered into monitoring wells for sampling purposes. In general, if the well is screened, samplers should be placed approximately in the middle of the screened interval. Some sort of weight should be added near the charcoal packet to insure that it will not float. The weight should be of such a nature that it will not affect water quality. One common approach is to anchor the packets with a plastic cable tie to the top of a dedicated weighted disposable bailer. We typically run nylon cord from the top of the well to the charcoal packet and its weight. Nylon fishing line should not be used since it can be readily cut by a sharp projection in the well.

In some cases, especially with narrow wells and appreciable well depths, the weighted disposable bailers sink very slowly or may even fail to sink because of friction and floating of the anchoring cord. In such cases a stainless steel weight may be added to the top of the disposable bailer. We have had good success with two to three ounce segments of stainless steel pipe which have an outside diameter of 1.315 inches and an inside diameter of 1.049 inches; such pipe weighs about 1.7 pounds per linear foot. The weight of the stainless steel is approximately 497 pounds per cubic foot. The pipe segments can be attached over the anchoring cord at the top of the bailer. All weights should be cleaned prior to use; the cleaning approach should comply with decontamination procedures in use at the project site.

Placement of samplers requires adjustment to field conditions. The above placement comments are intended as guidance, not firm requirements.

Rinsing of Charcoal Packets Prior to Sampling

Charcoal packets routinely contain some fine powder that washes off rapidly when they are placed in water. Since such material could remain in monitoring wells, charcoal packets to be placed in such wells are triple rinsed with distilled, demineralized, or reagent water known to be free of tracer dyes. This rinsing is typically done by soaking. With this approach, approximately 25 packets are placed in one gallon of water and soaked for at least 10 minutes. The packets are then removed from the water and excess water is shaken off the packets. The packets are then placed in a second gallon of water and again soaked for at least 10 minutes. After this soaking they are removed from the water and excess water is shaken off the packets. The packets are then placed in a third gallon of water and the procedure is again repeated. Rinsed packets are placed in plastic bags and are placed at sampling stations within three days. Packets can also be rinsed in jets of water for about one minute; this requires more water and is typically difficult to do in the field with water known to be free of tracer dyes.

Collection and Replacement of Samplers

Samplers are routinely collected and replaced from each of the sampling stations. The frequency of sampler collection and replacement is determined by the nature of the study. Collections at one week intervals are common, but shorter or longer collection frequencies are acceptable and sometimes more appropriate. Shorter sampling frequencies are often used in the early phases of a study to better characterize time of travel. As an

illustration, we often collect and change charcoal packets 1, 2, 4, and 7 days after dye injection. Subsequent sampling is then weekly.

Where convenient, the collected samplers should be briefly rinsed in the water being sampled. This is typically not necessary with well samples. The packets are shaken to remove excess water. Next, the packet (or packets) are placed in a plastic bag (Whirl-Pak bags are ideal). The bag is labeled on the outside with a permanent type felt marker pen. Use only pens that have black ink; colored inks may contain fluorescent dyes. The notations include station name or number and the date and time of collection. Labels are not inserted inside the sample bags.

For most projects the Ozark Underground Laboratory supplies the Whirl-Pak bags. Prior to use, 1% of the new bags are randomly selected. Each bag is soaked in the standard eluting solution and then analyzed for the presence of any of the tracer dyes being used.

Collected samplers are kept in the dark to minimize algal growth on the charcoal prior to analysis work. We prefer (and in some studies require) that samples be placed on "blue ice" or ice upon collection and that they be shipped refrigerated with "blue ice" by overnight express. Do not ship samplers packed in ice since this can create a potential for cross contamination when the ice melts. Our experience indicates that it is not essential for samplers to be maintained under refrigeration, yet maintaining them under refrigeration clearly minimizes some potential problems. A product known as "green ice" should not be used for maintaining the samples in a refrigerated condition since this product contains a dye which could contaminate samples if the "green ice" container were to break or leak.

New charcoal samplers are routinely placed when used charcoal packets are collected. The last set of samplers placed at a stream or spring is commonly not collected.

Water samples are often collected. They should be collected in either glass or plastic; the Ozark Underground Laboratory routinely uses 50 ml research grade polypropylene copolymer Perfector Scientific vials (Catalog Number 2650) for such water samples. The vials should be placed in the dark and refrigerated immediately after collection. They should be refrigerated until shipment. For most projects the Ozark Underground Laboratory supplies the vials. Prior to use, 1% of the new vials are randomly selected. Each vial is soaked in the standard eluting solution and then analyzed for the presence of any of the tracer dyes being used.

When water or charcoal samplers are collected for shipment to the Ozark Underground Laboratory they should be shipped promptly. We receive good overnight and second day air service from both UPS and Fed Ex; Airborne Service is excessively slow, and the Postal Service does not provide next day service to us.

Each shipment of charcoal samplers or water samples must be accompanied by a sample tracking sheet. These sheets (which bear the title "Samples for Fluorescence Analysis") are provided by the Ozark Underground Laboratory and summarize placement and collection data. These sheets can be augmented by a client's chain of custody forms or any other relevant documentation. Figure 1 is one of our blank sample forms.

Receipt of Samplers

Samplers shipped to the Ozark Underground Laboratory are refrigerated upon receipt. Prior to cleaning and analysis, samplers are assigned a laboratory identification number. All samples are logged in upon receipt.

It sometimes occurs that there are discrepancies between the chain-of-custody sheets and the actual samples received. When this occurs, a "Discrepancy Sheet" form is completed and sent to the shipper of the sample for resolution. A copy of this form is enclosed as Figure 2. The purpose of the form is to help resolve discrepancies, even when they may be minor.

Cleaning of Samplers

Samplers are cleaned by spraying them with jets of clean water. At the Laboratory we use unchlorinated water for the cleansing to minimize dye deterioration. Effective cleansing cannot generally be accomplished simply by washing in a conventional laboratory sink even if the sink is equipped with a spray unit.

The duration of packet washing depends upon the condition of the sampler. Very clean samplers may require less than a minute of washing; dirtier samplers may require several minutes of washing.

After washing, the packets are shaken to remove excess water. Next, the packets are cut open and the charcoal is emptied into a new disposable plastic beaker. The beaker has been pre-labeled with the laboratory identification number. The charcoal is now ready for elution. The emptied fiberglass screen packet is discarded. At stations where two or more charcoal packets are collected, one is selected for analysis and the other is frozen and retained until the end of the study. In some studies the analysis protocol stipulates that a fixed percentage (often 5%) of the samples should be duplicates; in these cases the second charcoal packet is separately analyzed. Note that these are duplicate samples, not replicate samples since each packet is, of necessity, placed in a somewhat different location and is therefore exposed to somewhat different conditions.

Cleaning of Glassware

Most of our work uses disposable plastic containers. A small amount of glassware is occasionally used for preparation of standards. It is dedicated to this use. In the event that any glassware does come in contact with tracer dyes it will be carefully cleaned before re-use. To do this cleaning, containers are rinsed several times in clean water. Glassware that may be contaminated with dyes is washed with detergent, and then again rinsed. Next, the glassware is soaked for one hour or more in a bleach and water solution. Upon removal from this soaking, the glassware is rinsed again and allowed to air dry.

Figure 1. Sample Collection Data Sheet

OZARK UNDERGROUND LABORATORY, INC. 1572 Aley Lane Protom, MO 65733 (417) 785-4289 fax (417) 785-4290 email: oul@tri-lakes.net SAMPLE COLLECTION DATA SHEET for FLUORESCENCE ANALYSIS						
Project: _____		Week No: _____		Samples Collected By: _____		
Samples Shipped By: _____		Samples Received By: _____				
Date Samples Shipped: ____/____/____	Date Samples Received: ____/____/____	Time Samples Received: ____:____		Return Cooler? Yes _____ No _____		
Bill to: _____		Send Results to: _____				
Analyze for: Fluorescein _____ Eosine _____ Rhodamine WT _____ Other _____	Ship cooler to: _____					
<i>OUL use only</i>		<u>Please indicate stations where dye was visible in the field for field technician use - use black ink only</u>			<i>OUL use only</i>	
# CHAR REC'D	LAB NUMBER	STATION NUMBER <small>1-4 Numbers</small>	STATION NAME	PLACED <small>DATE TIME</small>	COLLECTED <small>DATE TIME</small>	# WATER REC'D
COMMENTS: _____						
This sheet filled out by OUL staff? Yes _____ No _____ Charts for samples on this page proofed by OUL: _____						
Page _____ of _____						

Figure 2. Discrepancy Sheet

OZARK UNDERGROUND LABORATORY, INC.					
DISCREPANCIES BETWEEN CHAIN-OF-CUSTODY SHEETS AND ACTUAL SAMPLES RECEIVED					Page _____ of
Company & Project Name:			Date Rec'd by OUL:	Wk #	
Lab #	Sta #	Station Name	Date Pulled	Problem	Solution
Comments:					

Elution of the Charcoal

There are various eluting solutions that can be used for the recovery of tracer dyes. The solutions typically include an alcohol, some water, and a strong basic solution such as aqueous ammonia.

The standard elution solution now used at the Ozark Underground Laboratory is a mixture of 5% aqua ammonia and 95% isopropyl alcohol solution and sufficient potassium hydroxide flakes to saturate the solution. The isopropyl alcohol is 70% alcohol and 30% water. The aqua ammonia solution is 29% ammonia. The potassium hydroxide is added until a super-saturated layer is visible in the bottom of the container. This super-saturated layer is not used for elution. Preparation of eluting solutions uses dedicated glassware which is never used in contact with dyes or dye solutions.

The eluting solution we use will elute fluorescein, eosine, rhodamine WT, sulforhodamine B, and pyranine dyes. It is also suitable for separating fluorescein peaks from peaks of some naturally present materials found in some samplers.

Fifteen ml of the eluting solution is poured over the washed charcoal in a disposable sample beaker. The sample beaker is capped. The sample is allowed to stand for 60 minutes. After this time, the liquid is carefully poured off the charcoal into a new disposable beaker which has been appropriately labeled with the laboratory identification number. A few grains of charcoal may inadvertently pass into the second beaker; no attempt is made to remove these from the second sample beaker. After the pouring, a small amount of the elutant will remain in the initial sample beaker. After the transfer of the elutant to the second sample beaker, the contents of the first sample beaker (the eluted charcoal) are discarded.

Analysis on the Shimadzu RF-5000U or RF-5301

The Laboratory uses two Shimadzu spectrofluorophotometers. One is a model RF-5000U, and the other is a model RF-5301. Both of these instruments are capable of synchronous scanning. The RF-5301 is the primary instrument used; the RF-5000U is primarily used as a back-up instrument except for tracing studies which were begun using this instrument. The OUL also owns a Shimadzu RF-540 spectrofluorometer which is occasionally used for special purposes.

A sample of the elutant is withdrawn from the sample container using a disposable polyethylene pipette. Approximately 3 ml of the elutant is then placed in disposable rectangular polystyrene cuvette. The cuvette has a maximum capacity of 3.5 ml. The cuvette is designed for fluorometric analysis; all four sides and the bottom are clear. The spectral range of the cuvettes is 340 to 800 nm. The pipettes and cuvettes are discarded after one use.

The cuvette is then placed in the RF-5000U or the RF-5301. Both instruments are controlled by a programmable computer. Each instrument is capable of conducting substantial data analysis.

Our instruments are operated and maintained in accordance with the manufacturer's recommendations. On-site installation of the instruments and a training session on the use of spectrofluorophotometers was provided by Delta Instrument Company.

Our typical analysis of an elutant sample where fluorescein, eosine, rhodamine WT, or sulforhodamine B dyes may be present includes synchronous scanning of excitation and emission spectra with a 17 nm separation between excitation and emission wavelengths. For these dyes, the excitation scan is from 443 to 613 nm; the emission scan is from 460 to 630 nm. The emission fluorescence from the scan is plotted on a graph. The typical scan speed setting is "very fast" on the RF-5000U; it is "fast" on the RF-5301. The typical sensitivity setting used on both instruments is "high."

Our typical analysis of an elutant sample where pyranine dye may be present includes a synchronous scanning of excitation and emission spectra with a 35 nm separation between excitation and emission wavelengths. For this dye, the excitation scan is from 360 to 600 nm; the emission scan is from 395 to 635 nm. The emission fluorescence from the scan is plotted on a graph. The typical scan speed setting is "very fast" on the RF-5000U; it is "fast" on the RF-5301. The typical sensitivity setting on both instruments is "high."

Excitation and emission slit width settings vary between the two instruments. The widths vary with the dyes for which we are sampling and for the matrix in which the dyes may be present. Excitation and emission slit width settings are summarized in Table 1.

Table 1. Excitation and emission slit width settings routinely used for dye analysis.
Units are nanometers (nm)

Parameter	RF5000U	RF5301
Excitation slit for Eos, Fl, RWT, and SRB in elutant	5	3
Emission slit for Eos, Fl, RWT, and SRB in elutant	3	1.5
Excitation slit for Eos, Fl, RWT, and SRB in water	5	5
Emission slit for Eos, Fl, RWT, and SRB in water	10	3
Excitation slit for Pyranine in elutant	5	5
Emission slit for Pyranine in elutant	3	3
Excitation slit for Pyranine in pH adjusted water	5	5
Emission slit for Pyranine in pH adjusted water	3	3

Eos = Eosine. Fl = Fluorescein. RWT = Rhodamine WT. SRB = Sulforhodamine B.

The instrument produces a plot of the synchronous scan for each sample; the plot shows emission fluorescence only. The synchronous scans are subjected to computer peak picks; peaks are picked to the nearest 0.1 nm. All samples run on the RF-5000U and RF-5301 are stored on disk and printed on normal typing paper with a laser printer; sample information is printed on the chart.

All samples analyzed are recorded in a bound journal.

Quantification

We calculate the magnitude of fluorescence peaks for fluorescein, eosine, rhodamine WT, sulforhodamine B, and pyranine dyes. Dye quantities are expressed in microgram per liter (parts per billion; ppb). On the RF-5000U and RF-5301 the dye concentrations are calculated by separating fluorescence peaks due to dyes from background fluorescence on the charts, and then calculating the area within the fluorescence peak. This area is proportional to areas obtained from standard solutions.

Where there are multiple fluorescence peaks it is sometimes necessary to calculate dye concentrations based upon the height of the fluorescence peak rather than the area. The heights of the peaks are also proportional to dye concentrations.

We run dye concentration standards each day the machine is used. Ten separate standards are used; the standard or standards appropriate for the analysis work being conducted are selected. All standards are based upon the as-sold weights of the dyes. The standards are as follows:

- 1) 10 ppb fluorescein and 100 ppb rhodamine WT in well water from the Jefferson City-Cotter Formation
- 2) 10 ppb eosine in well water from the Jefferson City-Cotter Formation
- 3) 100 ppb sulforhodamine B in well water from the Jefferson City-Cotter Formation.
- 4) 10 ppb pyranine in well water from the Jefferson City-Cotter Formation. A sample of the standard is placed for at least two hours in a high ammonia atmosphere to adjust the pH to a value of 9.5 or greater.
- 5) 10 ppb fluorescein and 100 ppb rhodamine WT in elutant.
- 6) 10 ppb eosine in elutant.
- 7) 100 ppb sulforhodamine B in elutant.
- 8) 10 ppb pyranine in elutant.

Preparation of Standards

Dye standards are prepared as follows:

Step 1. A small sample of the as-sold dye is placed in a pre-weighed sample vial and the vial is again weighed to determine the weight of the dye. We attempt to use a sample weighing between 1 and 5 grams. This sample is then diluted with well water to make a 1% dye solution by weight (based upon the as-sold weight of the dye). The resulting dye solution is allowed to sit for at least four hours to insure that all dye is fully dissolved.

Step 2. One part of each dye solution from Step 1 is placed in a mixing container with 99 parts of well water. Separate mixtures are made for fluorescein, rhodamine WT, eosine, sulforhodamine B, and pyranine. The resulting solutions contain 100 mg/l dye (100 parts per million dye). The typical prepared volume of this mixture is

appropriate for the sample bottles being used; we commonly prepare about 50 ml. of the Step 2 solutions. The dye solution from Step 1 that is used in making the Step 2 solution is withdrawn with a digital Finnpiquette which is capable of measuring volumes between 0.200 and 1.000 ml at intervals of 0.005 ml. The calibration certificate with this instrument indicates that the accuracy (in percent) is as follows:

At 0.200 ml, 0.90%

At 0.300 ml, 0.28%

At 1.000 ml, 0.30%

The Step 2 solution is called the long term standard. Ozark Underground Laboratory experience indicates that Step 2 solutions, if kept refrigerated, will not deteriorate appreciably over periods of less than a year. Furthermore, these Step 2 solutions may last substantially longer than one year.

Step 3. A series of intermediate-term dye solutions are made. Approximately 45 ml. of each intermediate-term dye solution is made. All volume measurements of less than 5 ml are made with a digital Finnpiquette. (see description in Step 2). All other volume measurements are made with Rheinland Kohn Geprüfte Sicherheit 50 ml. capacity pump dispenser which will pump within plus or minus 1% of the set value. The following solutions are made; all concentrations are based on the as-sold weight of the dyes:

- 1) A solution containing 1 ppm fluorescein dye and 10 ppm rhodamine WT dye.
- 2) A solution containing 1 ppm eosine.
- 3) A solution containing 10 ppm sulforhodamine B dye.
- 4) A solution containing 1 ppm pyranine.

Step 4. A series of eight short-term dye standards are made from solutions in Step 3. These standards were identified earlier in this section. In the experience of the Ozark Underground Laboratory these standards have a useful shelf life in excess of one week. However, in practice, they are kept under refrigeration and new standards are made weekly.

Dilution of Samples

Samples with peaks that have arbitrary fluorescence unit values of 500 or more are diluted a hundred fold to ensure accurate quantification.

Some water samples have high turbidity or color which interferes with accurate detection and measurement of dye concentrations. It is often possible to dilute these samples and then measure the dye concentration in the diluted sample.

The typical dilution is 100 fold. One part of the test sample is combined with 99 parts of water (if the test sample is water) or with 99 parts of the standard elutant (if the test sample is elutant). Typically, 0.300 ml of the test solution is combined with 29.700 ml of water (or elutant as appropriate) to yield a new test solution. All volume measurements of less than 5 ml are made with a digital Finnpiquette. which is capable of

measuring volumes between 0.200 and 1.000 ml at intervals of 0.005 ml. The calibration certificate with this instrument indicates that the accuracy (in percent) is as follows:

At 0.200 ml, 0.90%

At 0.300 ml, 0.28%

At 1.000 ml, 0.30%

All other volume measurements are made with Rheinland Kohn Geprüfte Sicherheit 50 ml. capacity pump dispenser which will pump within plus or minus 1% of the set value.

Quality Control

Laboratory blanks are run for every sample where the last two digits of the laboratory numbers are 00, 20, 40, 60, or 80. A charcoal packet is placed in a pumping well sampler and at least 25 gallons of unchlorinated water is passed through the sampler at a rate of about 2.5 gallons per minute. The sampler is then subjected to the same analytical protocol as all other samplers.

System functioning tests of the analytical instruments are conducted in accordance with the manufacturer's recommendations.

All materials used in sampling and analysis work are routinely analyzed for the presence of any compounds that might create fluorescence peaks in or near the acceptable wavelength ranges for any of the tracer dyes. This testing typically includes approximately 1% of materials used.

Reports

Reports are provided in accordance with the needs of the client. At a minimum we provide copies of the analysis graphs and a listing of stations and samples where dye was detected. The reports indicate dye concentrations.

Work at the Ozark Underground Laboratory is directed by Mr. Thomas Aley. Mr. Aley has 40 years of professional experience in hydrology and hydrogeology. He is certified as a Professional Hydrogeologist (Certificate #179) by the American Institute of Hydrology. Mr. Aley has 35 years of professional experience in groundwater tracing with fluorescent tracing agents.

CRITERIA FOR DETERMINATION OF POSITIVE DYE RECOVERIES

Normal Emission Ranges and Detection Limits

The OUL has established normal emission fluorescence wavelength ranges for each of the five dyes. The normal acceptable range equals mean values plus and minus two standard deviations. These values are derived from actual groundwater tracing studies conducted by the OUL.

The detection limits are based upon concentrations of dye necessary to produce emission fluorescence peaks where the signal to noise ratio is 3. The detection limits are realistic for most field studies since they are based upon results from actual field samples rather than being based upon values from spiked samples in a matrix of reagent water or the elutants from unused activated carbon samplers. In some cases detection limits may be smaller than reported if the water being sampled has very little fluorescent material in it. In some cases detection limits may be greater than reported; this most commonly occurs if the sample is turbid due to suspended material or a coloring agent such as tannic compounds. Turbid samples are typically centrifuged or, if this is not effective, diluted prior to analysis.

Table 2 provides normal emission wavelength ranges and detection limits for the five dyes when analyzed on the OUL's RF-5000U spectrofluorophotometer. Table 3 provides similar data for the OUL's RF-5301. As indicated earlier in Table 1, the analytical protocols used on the two instruments are somewhat different, especially in regard to the widths of excitation and emission slit settings.

Table 2. RF-5000U Spectrofluorophotometer. Normal emission wavelength ranges and detection limits for fluorescein, eosine, rhodamine WT, sulforhodamine B, and pyranine dyes in water and elutant samples. Detection limits are based upon the as-sold weight of the dye mixtures normally used by the OUL.

Dye and Matrix	Normal Acceptable Emission Wavelength Range (nm)	Detection Limit (ppb)
Eosine in Elutant	533.0 to 539.6	0.035
Eosine in Water	529.6 to 538.4	0.008
Fluorescein in Elutant	510.7 to 515.0	0.010
Fluorescein in Water	505.6 to 510.5	0.0005
Pyranine in Elutant	500.4 to 504.6	0.055
Pyranine in Water*	501.2 to 505.2	0.030
Rhodamine WT in Elutant	561.7 to 568.9	0.275
Rhodamine WT in Water	569.4 to 574.8	0.050
Sulforhodamine B in Elutant	567.5 to 577.5	0.150
Sulforhodamine B in Water	576.2 to 579.7	0.040

* pH adjusted water with pH of 9.5 or greater.

Note: The protocols for the analysis of pyranine dye are substantially different than those for the other dyes. As a result, there is less potential interference between pyranine and fluorescein than might otherwise be indicated by the emission wavelength values shown in the table.

Table 3. RF-5301 Spectrofluorophotometer. Normal emission wavelength ranges and detection limits for fluorescein, eosine, rhodamine WT, sulforhodamine B, and pyranine dyes in water and elutant samples. Detection limits are based upon the as-sold weight of the dye mixtures normally used by the OUL.

Dye and Matrix	Normal Acceptable Emission Wavelength Range (nm)	Detection Limit (ppb)
Eosine in Elutant	538.1 to 543.9	0.050
Eosine in Water	533.4 to 537.9	0.015
Fluorescein in Elutant	514.0 to 518.1	0.025
Fluorescein in Water	508.0 to 511.7	0.002
Pyranine in Elutant	502.1 to 508.1	0.015
Pyranine in Water*	504.1 to 510.1	0.010
Rhodamine WT in Elutant	565.4 to 572.0	0.170
Rhodamine WT in Water	572.7 to 578.0	0.015
Sulforhodamine B in Elutant	572.8 to 579.6	0.080
Sulforhodamine B in Water	580.1 to 583.7	0.008

* pH adjusted water with pH of 9.5 or greater.

Note: The protocols for the analysis of pyranine dye are substantially different than those for the other dyes. As a result, there is less potential interference between pyranine and fluorescein than might otherwise be indicated by the emission wavelength values shown in the table.

Criteria for Determining Positive Dye Recoveries

The following sections identify normal criteria used by the OUL for determining positive dye recoveries. Beginning January 1, 2001, the primary analytical instrument in use at the OUL was the RF-5301; the RF-5000U was the principal backup instrument. Studies which were in progress prior to January 1, 2001 continued to have samples analyzed on the RF-5000U.

Except for pyranine dye, the analytical protocol used for the RF-5301 provides for the use of narrower excitation and/or emission slit settings than the RF-5000U protocol. This enhances our ability to discriminate between dyes and other fluorescent compounds. The protocol which is possible with the RF-5301 (as contrasted with the RF-5000U) also provides for a better balance in the sizes of the fluorescence peaks associated with an equal concentration of all of the dyes.

Normal Criteria Used by the Ozark Underground Laboratory for Determining Positive Eosine Dye Recoveries in Elutants from Charcoal Samplers.

There is generally little or no detectable fluorescence background in the general range of eosine dye encountered in most groundwater tracing studies. The following four criteria are used to identify fluorescence peaks which are deemed to be eosine dye.

Criterion 1. There must be at least one fluorescence peak at the station in question in the range of 538.1 to 543.9 nm for samples analyzed by the RF-5301. The range must be 533.0 to 539.6 nm for samples analyzed by the RF-5000U.

Criterion 2. The dye concentration associated with the fluorescence peak must be at least 3 times the detection limit. For the RF-5301, the eosine detection limit in elutant samples is 0.050 ppb, thus this dye concentration limit equals 0.150 ppb. For the RF-5000U the eosine detection limit in elutant samples is 0.035 ppb, thus this dye concentration limit equals 0.105 ppb.

Criterion 3. The dye concentration must be at least 10 times greater than any other concentration reflective of background at the sampling station in question.

Criterion 4. The shape of the fluorescence peak must be typical of eosine. Much background fluorescence yields low, broad, and asymmetrical fluorescence peaks rather than the more narrow and symmetrical fluorescence peaks typical of eosine. In addition, there must be no other factors which suggest that the fluorescence peak may not be eosine dye from our groundwater tracing work.

Normal Criteria Used by the Ozark Underground Laboratory for Determining Positive Eosine Dye Recoveries in Water Samples.

There is generally little or no detectable fluorescence background in the general range of eosine dye encountered in most groundwater tracing studies. The following three criteria are used to identify fluorescence peaks which are deemed to be eosine dye.

Criterion 1. The associated charcoal samplers for the station should also contain eosine dye in accordance with the criteria listed above. These criteria may be waived if no charcoal sampler exists.

Criterion 2. There must be no factors which suggest that the fluorescence peak may not be eosine dye from our groundwater tracing work. For samples analyzed on the RF-5301, the fluorescence peak should generally be in the range of 533.4 to 537.9 nm. For samples analyzed on the RF-5000U, the fluorescence peak should generally be in the range of 529.6 to 538.4 nm.

Criterion 3. The dye concentration associated with the fluorescence peak must be at least three times the detection limit. Our eosine detection limit in water samples analyzed on the RF-5301 is 0.015 ppb, thus this dye concentration limit equals 0.045 ppb. For samples analyzed on the 5000U the detection limit is 0.008 ppb, thus this dye concentration limit equals 0.024 ppb.

Normal Criteria Used by the Ozark Underground Laboratory for Determining Positive Fluorescein Dye Recoveries in Elutants from Charcoal Samplers.

There is often some fluorescence background in the range of fluorescein dye present at some of the stations used in groundwater tracing studies. We routinely conduct background sampling prior to the introduction of any tracer dyes to characterize this background fluorescence and to identify the existence of any tracer dyes which may be present in the area. The fact that a fluorescence peak is identified in our analytical results is not proof that it is fluorescein dye or that it is fluorescein dye from the trace of concern. The following 4 criteria are used to identify fluorescence peaks which are deemed to be fluorescein dye recoveries from our tracing work.

Criterion 1. There must be at least one fluorescence peak at the station in question in the range of 514.0 to 518.1 nm for samples analyzed by the RF-5301. The range must be 510.7 to 515.0 for samples analyzed by the RF-5000U.

Criterion 2. The dye concentration associated with the fluorescence peak must be at least 3 times the detection limit. For the RF-5301, the fluorescein detection limit in elutant samples is 0.025 ppb, thus this dye concentration limit equals 0.075 ppb. For the RF-5000U, the fluorescein detection limit in elutant samples is 0.010 ppb, thus this dye concentration limit equals 0.030 ppb.

Criterion 3. The dye concentration must be at least 10 times greater than any other concentration reflective of background at the sampling station in question.

Criterion 4. The shape of the fluorescence peak must be typical of fluorescein. Much background fluorescence yields low, broad, and asymmetrical fluorescence peaks rather than the more narrow and symmetrical fluorescence peaks typical of fluorescein. In addition, there must be no other factors which suggest that the fluorescence peak may not be fluorescein dye from our groundwater tracing work.

Normal Criteria Used by the Ozark Underground Laboratory for Determining Positive Fluorescein Dye Recoveries in Water Samples.

There is commonly some fluorescence background in the general range of fluorescein dye at some sampling stations used in groundwater tracing studies. The following criteria are used to identify fluorescence peaks which are deemed to be fluorescein dye in water.

Criterion 1. The associated charcoal samplers for the station should also contain fluorescein dye in accordance with the criteria listed above. These criteria may be waived if no charcoal sampler exists.

Criterion 2. There must be no factors which suggest that the fluorescence peak may not be fluorescein dye from our groundwater tracing work. For samples analyzed on the RF-5301, the fluorescence peak should generally be in the range of 508.0 to 511.7 nm. For samples analyzed on the RF-5000U, the fluorescence peak should generally be in the range of 505.6 to 510.5 nm.

Criterion 3. The dye concentration associated with the fluorescence peak must be at least three times the detection limit. Our fluorescein detection limit in water samples analyzed on the RF-5301 is 0.002 ppb, thus this dye concentration limit equals 0.006 ppb. For the RF-5000U the detection limit is 0.0005 ppb, thus this dye concentration limit equals 0.0015 ppb.

Normal Criteria Used by the Ozark Underground Laboratory for Determining Positive Rhodamine WT Dye Recoveries in Elutants from Charcoal Samplers.

There is generally little or no detectable fluorescence background in the general range of Rhodamine WT dye encountered in most groundwater tracing studies. The following four criteria are used to identify fluorescence peaks which are deemed to be Rhodamine WT.

Criterion 1. For samples analyzed on the RF-5301, there must be at least one fluorescence peak at the station in question in the range of 565.4 to 572.0 nm. For samples analyzed on the RF-5000U, there must be at least one fluorescence peak at the station in question in the range of 561.7 to 568.9 nm.

Criterion 2. The dye concentration associated with the Rhodamine WT peak must be at least 3 times the detection limit. For the RF-5301, the detection limit in elutant samples is 0.170 ppb, thus this dye concentration limit equals 0.510 ppb. For the RF-5000U, the detection limit in elutant samples is 0.275 ppb, thus this dye concentration limit equals 0.825 ppb.

Criterion 3. The dye concentration must be at least 10 times greater than any other concentration reflective of background at the sampling station in question.

Criterion 4. The shape of the fluorescence peak must be typical of Rhodamine WT. In addition, there must be no other factors which suggest that the fluorescence peak may not be dye from the groundwater tracing work under investigation.

Normal Criteria Used by the Ozark Underground Laboratory for Determining Positive Rhodamine WT Dye Recoveries in Water Samples.

The following criteria are used to identify fluorescence peaks which are deemed to be Rhodamine WT dye in water.

Criterion 1. The associated charcoal samplers for the station should also contain Rhodamine WT dye in accordance with the criteria listed above. These criteria may be waived if no charcoal sampler exists.

Criterion 2. There must be no factors which suggest that the fluorescence peak may not be Rhodamine WT dye from the tracing work under investigation. For samples analyzed with the RF-5301, the fluorescence peak should generally be in the range of 572.7 to 578.0 nm. For samples analyzed with the RF-5000U, the fluorescence peak should generally be in the range of 569.4 to 574.8 nm.

Criterion 3. The dye concentration associated with the fluorescence peak must be at least three times the detection limit. Our Rhodamine WT detection limit in water samples analyzed on the RF-5301 is 0.015 ppb, thus this dye concentration limit is 0.045 ppb. For samples analyzed on the RF-5000U the detection limit is 0.050 ppb, thus this dye concentration limit equals 0.150 ppb.

Normal Criteria Used by the Ozark Underground Laboratory for Determining Positive Sulforhodamine B Dye Recoveries in Elutants from Charcoal Samplers.

There is generally little or no detectable fluorescence background in the general range of sulforhodamine B dye encountered in most groundwater tracing studies. The following four criteria are used to identify fluorescence peaks which are deemed to be sulforhodamine B.

Criterion 1. For samples analyzed on the RF-5000U, there must be at least one fluorescence peak at the station in question in the range of 567.5 to 577.5 nm. The acceptable range for samples analyzed on the RF-5301 is 572.8 to 579.6 nm.

Criterion 2. The dye concentration associated with the sulforhodamine B peak must be at least 3 times the detection limit. For the RF-5000U, the detection limit in elutant samples is 0.150 ppb, thus this dye concentration limit equals 0.450 ppb. For the RF-5301, the detection limit in elutant samples is 0.080 ppb, thus this dye concentration limit equals 0.240 ppb.

Criterion 3. The dye concentration must be at least 10 times greater than any other concentration reflective of background at the sampling station in question.

Criterion 4. The shape of the fluorescence peak must be typical of sulforhodamine B. In addition, there must be no other factors which suggest that the fluorescence peak may not be dye from the groundwater tracing work under investigation.

Normal Criteria Used by the Ozark Underground Laboratory for Determining Positive Sulforhodamine B dye Recoveries in Water Samples.

The following criteria are used to identify fluorescence peaks which are deemed to be sulforhodamine B dye in water.

Criterion 1. The associated charcoal samplers for the station should also contain sulforhodamine B dye in accordance with the criteria listed earlier. These criteria may be waived if no charcoal sampler exists.

Criterion 2. There must be no factors which suggest that the fluorescence peak may not be sulforhodamine B dye from the tracing work under investigation. For samples analyzed with the RF-5000U, the fluorescence peak should generally be in the range of 576.2 to 579.7 nm. For samples analyzed with the RF-5301, the fluorescence peak should generally be in the range of 580.1 to 583.7 nm.

Criterion 3. The dye concentration associated with the fluorescence peak must be at least three times the detection limit. For samples analyzed on the RF-5301 the detection limit in water is 0.008 ppb, thus this dye concentration limit equals 0.024 ppb. For samples analyzed on the RF-5000U the detection limit in water samples is 0.040 ppb, thus this dye concentration limit equals 0.120 ppb.

Normal Criteria Used by the Ozark Underground Laboratory for Determining Positive Pyranine Dye Recoveries in Elutants from Charcoal Samplers.

It must be remembered that the analysis protocol for pyranine dye is different than the protocol for the other four dyes discussed in this document. If the other dyes are present in a sample analyzed for pyranine dye their emission fluorescence peaks (if any) will be appreciably different than the values presented above. Because of this, there is very little analytical interference between fluorescein and pyranine dyes when both are present in a sample.

There is often some detectable fluorescence background encountered in the general range of pyranine dye in groundwater tracing studies. The following four criteria are used to identify fluorescence peaks which are deemed to be pyranine.

Criterion 1. For samples analyzed on the RF-5000U, there must be at least one fluorescence peak at the station in question in the range of 500.4 to 504.6 nm. The acceptable range for samples analyzed on the RF-5301 is 502.1 to 508.1 nm.

Criterion 2. The dye concentration associated with the pyranine dye peak must be at least 3 times the detection limit. For the RF-5000U, the detection limit in elutant samples is 0.055 ppb, thus this dye concentration limit equals 0.165 ppb. For the RF-5301, the detection limit in elutant samples is 0.015 ppb, thus this dye concentration limit equals 0.045 ppb.

Criterion 3. The dye concentration must be at least 10 times greater than any other concentration reflective of background at the sampling station in question.

Criterion 4. The shape of the fluorescence peak must be typical of pyranine dye. In addition, there must be no other factors which suggest that the fluorescence peak may not be dye from the groundwater tracing work under investigation.

Normal Criteria Used by the Ozark Underground Laboratory for Determining Positive Pyranine Dye Recoveries in Water Samples.

It must be remembered that the analysis protocol for pyranine dye is different than the protocol for the other four dyes discussed in this document. If the other dyes are present in a sample analyzed for pyranine dye their emission fluorescence peaks (if any) will be appreciably different than the values presented above. Because of this, there is very little analytical interference between fluorescein and pyranine dyes when both are present in a sample.

The fluorescence of pyranine decreases below a pH of about 9.5. Prior to analysis water samples are placed in a high ammonia atmosphere for at least two hours. A pyranine dye in water standard is placed in the same atmosphere as the samples. Prior to analysis samples are tested to insure that their pH is 9.5 or greater. If pyranine dye concentrations in a sample are so great as to require dilution for quantification of the dye concentration the diluting water used is OUL reagent water which has been pH adjusted in a high ammonia atmosphere.

The following criteria are used to identify fluorescence peaks which are deemed to be pyranine dye in water.

Criterion 1. The associated charcoal samplers for the station should also contain pyranine dye in accordance with the criteria listed earlier. These criteria may be waived if no charcoal sampler exists.

Criterion 2. There must be no factors which suggest that the fluorescence peak may not be pyranine dye from the tracing work under investigation. For samples analyzed with the RF-5000U, the fluorescence peak should generally be in the range of 501.2 to 505.2 nm. For samples analyzed with the RF-5301, the fluorescence peak should generally be in the range of 504.1 to 510.1 nm.

Criterion 3. The dye concentration associated with the fluorescence peak must be at least three times the detection limit. For samples analyzed on the RF-5301 the detection limit in water is 0.010 ppb, thus this dye concentration limit equals 0.030 ppb. For samples analyzed on the RF-5000U the detection limit in water samples is 0.030 ppb, thus this dye concentration limit equals 0.090 ppb.



APPENDIX Y FINAL KARST REPORT (REDACTED)

TECHNICAL REPORT APPENDICES

APPENDIX A	Memorandum of Understanding
APPENDIX B	Tabular results for activated carbon and water samples
APPENDIX C	Ozark Underground Laboratory Procedures and Criteria
APPENDIX D	Sampling Station Index and Karst Feature Index
APPENDIX E	Sampling Station and Select Feature Photographs
APPENDIX F	Individual Dye Trace Reports, Summary Table, and Figures
APPENDIX G	Documentation Graphs for All Analyzed Samples
APPENDIX H	Precipitation and Discharge Data from Illinois Central Spring
APPENDIX I	CONFIDENTIAL Data
APPENDIX J	Cave Fauna of the Section 5 Corridor of I-69
APPENDIX K	Indiana Bat Hibernacula Cave Reconnaissance
APPENDIX L	Pollutant Loading Estimate Tables and FHWA Methodology
APPENDIX M	IDNR Water Well Data
APPENDIX N	Detail Maps of Preferred Alternative and Resources

Appendix D - Table D-2 - Sampling Station Index

Station Number	Station Name	North Latitude	West Longitude	Elevation (feet msl)
1				768
2				768
3				741
4				692
5				782
6				597
7				703
8				704
9				634
10				734
11				656
12				638
13				658
14				664
15				709
16				711
17				787
18				774
19				763
20				770
21				790
22				779
23				771
24				766
25				790
26				790
27				827
28				828
29				848
30				794
31				816
32				802
33				794
34				795
35				786
36				818
37				812
38				812
39				801
40				842
41				848
42				764
43				718
44				722
45				740
46				798
47				786
48				674
49				761
50				759

Station Number	Station Name	North Latitude	West Longitude	Elevation (feet msl)
51				738
52				712
53				711
				680
54				
55				665
56				698
57				702
58				738
59				747
60				816
61				832
62				773
63				733
64				812
65				838
				832
66				
67				646
68				602
69				662
70				734
71				732
72				744
73				654
74				667
75				704
76				713
77				unknown
78				781
79				790
80				636
81				604
82				669
83				670
84				681
85				670
86				650
87				650
88				688
89				680
90				670
91				688
92				740
93				734
94				729
95				708
96				728
97				741
98				734
99				702
100				710

Station Number	Station Name	North Latitude	West Longitude	Elevation (feet msl)
101				728
102				700
103				708
104				683
105				727
106				713
107				706
108				746
109				750
110				767
111				762
112				750
113				737
114				736
115				704
116				742
117				575
118				715
119				729
120				744
121				733
122				762
123				790
124				656
125				655
126				646
127				625
128				600
129				601
130				586
131				578
132				576
133				574
134				743
135				754
136				721
137				736
138				741
139				722
140				713
141				753
142				718
143				724
144				728
145				720
146				746
147				736
148				730
149				714
150				696
151				769
152				686

Station Number	Station Name	North Latitude	West Longitude	Elevation (feet msl)
153				636
154				629
155				634
156				671
157				665
158				695
159				686
160				611
161				612
162				672
163				683
164				
165				668
166				680
167				680
168				673
169				668
170				691
171				668
172				645
173				670
174				670
175				703
176				688
177				684
178				684
179				672
180				676
181				656
182				712
183				597
184				573
185				569
186				586
187				583
188				772
189				684
190				634
191				612
192				716
193				740
194				753
195				765
196				772
197				753
198				769
199				754
200				710
201				646
202				644
203				637

Station Number	Station Name	North Latitude	West Longitude	Elevation (feet msl)
204				688
205				663
206				716

Appendix D - Table D-2 - Karst Insurgence Feature Index

Karst Feature ID No.	Low Rim Elev. (feet MSL)	High Rim Elev. (feet MSL)	Invert Elev. (feet MSL)	Depth (feet)	Feature Type	Drainage Area (Acres)	Karst Feature ID No.	Low Rim Elev. (feet MSL)	High Rim Elev. (feet MSL)	Invert Elev. (feet MSL)	Depth (feet)	Feature Type	Drainage Area (Acres)
500001	663	800	663	NA	losing stream	326.79	500038	NA	NA	NA	NA	buried sink	0.77
500002	759	783	757.8	1.2	sinkhole	0.35	500039	746	764	745	1	sinkhole	0.31
500003	752	768	750	2	sinkhole	0.18	500040	NA	NA	NA	NA	buried sink	1.80
500004	766	790	763.4	2.6	sinkhole	1.69	500041	734	758	732	2	sinkhole	0.42
500005	758	788	746.5	11.5	sinkhole	2.32	500042	740	756	738	2	sinkhole	0.50
500006	730	749	728	2	sinkhole	0.30	500043	770	780	730		sinkhole	27.19
500007	728	741	726	2	sinkhole	1.41	500044	744	758	743.2	0.8	sinkhole	0.13
500008	727	731	726	1	sinkhole	0.05	500045	770	791	766	4	sinkhole	0.57
500009	738	767	736	2	sinkhole	0.46	500046	755	788	754	1	sinkhole	0.57
500010	732	748	731	1	sinkhole	0.24	500047	755	787	754	1	sinkhole	0.31
500011	729	731	728	1	sinkhole	0.02	500048	750	788	748	2	sinkhole	0.54
500012	789	793	788	1	sinkhole	0.80	500049	762	788	760	2	sinkhole	0.40
500013	741	760	740	1	sinkhole	0.30	500050	775	780	750	25	sinkhole	6.71
500014	748	761	747	1	sinkhole	0.41	500051	780	788	762.7	17.3	sinkhole	9.11
500015	755	769	754	1	sinkhole	0.32	500052	761	789	760	1	sinkhole	0.54
500016	744	758	742	2	sinkhole	0.51	500053	727	800	724	3	sinkhole	12.82
500017			outside		sinkhole	10.33	500054	780	786	778	2	sinkhole	0.59
500018	769	790	766.9	2.1	sinkhole	1.21	500055	773	788	770	3	sinkhole	0.21
500019	730	750	729	1	sinkhole	0.67	500056	772	808	726	46	sinkhole	33.01
500020	732	742	730	2	sinkhole	0.07	500057	744	786	742	2	sinkhole	3.63
500021	770	776	765.8	4.2	sinkhole	0.41	500058	768	800	766	2	sinkhole	1.47
500022	735	786	734	1	sinkhole	1.28	500059	766	772	763	3	sinkhole	0.29
500023	745	755	742	3	sinkhole	0.14	500060	767	782	766	1	sinkhole	0.66
500024	750	762	748	2	sinkhole	0.10	500061	682	686	681	1	sinkhole	74.96
500025	766	790	749.3	16.7	sinkhole	3.17	500062	767	780	764	3	sinkhole	1.21
500026	747	755	746	1	sinkhole	0.07	500063	773	780	771	2	sinkhole	0.64
500027	752	771	751	1	sinkhole	0.21	500064	754	756	752	2	sinkhole	0.05
500028	746	753	745	1	sinkhole	0.08	500065	767	776	763	4	sinkhole	0.27
500029	758	790	756	2	sinkhole	0.50	500066	770	801	766	6	sinkhole	2.28
500030	745	750	730	15	sinkhole	4.06	500067	768	808	752	16	sinkhole	15.47
500031	762	788	759	3	sinkhole	0.50	500068	762	790	751.8	10.2	sinkhole	3.79
500032	742	754	741	1	sinkhole	0.21	500069	766	768	763	3	sinkhole	0.06

Karst Feature ID No.	Low Rim Elev. (feet MSL)	High Rim Elev. (feet MSL)	Invert Elev. (feet MSL)	Depth (feet)	Feature Type	Drainage Area (Acres)	Karst Feature ID No.	Low Rim Elev. (feet MSL)	High Rim Elev. (feet MSL)	Invert Elev. (feet MSL)	Depth (feet)	Feature Type	Drainage Area (Acres)
500033	750	760	740	10	sinkhole	2.87	500070	786	789	783	3	sinkhole	0.19
500034	NA	NA	NA	NA	buried sink	1.00	500071	784	802	782	2	sinkhole	0.67
500035	764	784	762.4	1.6	sinkhole	0.66	500072	787	794	786	1	sinkhole	0.17
500036	766	786	765	1	sinkhole	0.25	500073	764	800	762	2	sinkhole	1.70
500037	750	794	749	1	sinkhole	1.44	500074	NA	NA	NA	NA	buried sink	0.89
500075	806	812	796	10	sinkhole	0.75	500109	813	824	802.9	10.1	sinkhole	1.23
500076	798	822	785.7	12.3	sinkhole	24.20	500110	765	768	764	1	sinkhole	0.02
500077	736	822	734	2	sinkhole	29.19	500111	825	830	810		sinkhole	8.31
500078	812	822	798	14	sinkhole	5.43	500112	772	786	768	4	sinkhole	0.22
500079	823	834	818	5	sinkhole	2.98	500113	806	822	801	5	sinkhole	5.99
500080	770	776	767.3	2.7	sinkhole	0.18	500114	763	784	762	1	sinkhole	0.27
500081	812	832	803.7	8.3	sinkhole	3.39	500115	753	766	752	1	sinkhole	0.08
500082	814	827	803.2	10.8	sinkhole	4.26	500116	752	768	751	1	sinkhole	0.22
500083	767	809	760.5	6.5	sinkhole	0.51	500117	771	776	769	2	sinkhole	0.04
500084/ 500096	810	828	807.6	2.4	sinkhole	2.18	500118	806	821	805.4	0.6	sinkhole	0.68
500085	812	822	809.5	2.5	sinkhole	3.12	500119			outside		sinkhole	0.46
500086		880	outside		sinkhole	1.12	500120	806	820	803.7	2.3	sinkhole	1.14
500087	814	834	813.8	0.2	sinkhole	3.40	500121	805	820	803	2	sinkhole	1.29
500088	803	822	801	2	sinkhole	2.29	500122		880	outside		sinkhole	0.35
500089	825	830	810	15	sinkhole	7.59	500123		880	outside		sinkhole	0.17
500090	839	850	830	9	sinkhole	2.84	500124		880	outside		sinkhole	0.09
500091	NA	NA	NA	NA	buried sink	0.89	500125	825	830	800		sinkhole	6.09
500092	810	827	800.7	9.3	sinkhole	3.75	500126	753	767	outside		sinkhole	0.31
500093	804	813	802	2	sinkhole	5.33	500127	777	799	775	1	sinkhole	0.37
500094	NA	NA	NA	NA	buried sink	8.36	500128	825	830	805	20	sinkhole	4.68
500095	845	850	830		sinkhole	2.80	500129		820	outside		sinkhole	0.00
500096/ 500084	810	828	807.6	2.4	sinkhole	2.18	500130			outside		sinkhole	0.40
500097	840	845	820		sinkhole	5.43	500131			outside		sinkhole	0.09
500098	802	814	797.3	4.7	sinkhole	3.48	500132	823	845	803	20	sinkhole	2.90
500099	NA	NA	NA	NA	buried sink	6.69	500133	830	837	818.5	11.5	sinkhole	9.07
500100	771	779	769	2	sinkhole	0.02	500134	NA	NA	NA	NA	buried sink	1.97
500101	785	798	783	2	sinkhole	0.34	500135	801	832	800	1	sinkhole	0.88
500102	790	814	784	6	sinkhole	1.65	500136		780	outside		sinkhole	0.02
500103	766	786	765	1	sinkhole	0.13	500137	NA	NA	NA	NA	buried sink	1.05
500104	770	792	768	2	sinkhole	0.27	500138	NA	NA	NA	NA	buried sink	4.85
500105	767	788	766	1	sinkhole	0.26	500139	NA	NA	NA	NA	buried sink	1.51
500106	767	786	766	1	sinkhole	0.31	500140	NA	NA	NA	NA	buried sink	3.92

Karst Feature ID No.	Low Rim Elev. (feet MSL)	High Rim Elev. (feet MSL)	Invert Elev. (feet MSL)	Depth (feet)	Feature Type	Drainage Area (Acres)	Karst Feature ID No.	Low Rim Elev. (feet MSL)	High Rim Elev. (feet MSL)	Invert Elev. (feet MSL)	Depth (feet)	Feature Type	Drainage Area (Acres)
500107	759	776	758	1	sinkhole	0.17	500141	NA	NA	NA	NA	buried sink	0.82
500108	762	774	761	1	sinkhole	0.12	500142	828	834	814	14	sinkhole	6.17

500143	NA	NA	NA	NA	buried sink	11.07	500175	880	905	870	10	sinkhole	8.64
500144	NA	NA	NA	NA	buried sink	0.78	500176	868	907	852.7	15.3	sinkhole	15.00
500145	NA	NA	NA	NA	buried sink	0.87	500177	868	893	858.5	9.5	sinkhole	5.42
500146	NA	NA	NA	NA	buried sink	0.67	500178	851	900	848	3	sinkhole	1.83
500147	NA	NA	NA	NA	buried sink	1.15	500179	NA	NA	NA	NA	buried sink	10.90
500148	NA	NA	NA	NA	buried sink	2.15	500180	NA	NA	NA	NA	buried sink	0.41
500149	NA	NA	NA	NA	buried sink	2.39	500181	798	804	797	1	sinkhole	0.06
500150	NA	NA	NA	NA	buried sink	3.05	500182	802	822	800	2	sinkhole	0.09
500151	840	843	839.2	0.8	sinkhole	0.40	500183	809	826	807	2	sinkhole	0.11
500152	NA	NA	NA	NA	buried sink	5.37	500184	805	823	803	2	sinkhole	0.19
500153	850	868	848	2	sinkhole	1.44	500185	805	827	803	2	sinkhole	0.28
500154	832	852	812.3	19.7	sinkhole	7.80	500186	812	834	810	2	sinkhole	0.48
500155	847	852	843	4	sinkhole	0.39	500187	700	920	700		losing stream	1475.39
500156	NA	NA	NA	NA	buried sink	4.00	500188			outside		sinkhole	0.01
500157	845	847	839	6	sinkhole	0.55	500189			outside		sinkhole	0.01
500158	834	852	828.2	5.8	sinkhole	1.05	500190			outside		sinkhole	0.01
500159	842	858	830	12	sinkhole	4.20	500191	792	796	791	1	sinkhole	0.03
500160	841	844	839	2	sinkhole	0.12	500192	796	799	795	1	sinkhole	0.02
500161	848	853	842	2	sinkhole	1.53	500193			outside		sinkhole	0.03
500162	837	846	835	2	sinkhole	0.35	500194	790	805	798	2	sinkhole	0.35
500163	832	890	828.7	3.3	losing stream	280.60	500195	803	806	801	2	sinkhole	0.03
500164	866	880	856	10	sinkhole	12.54	500196	791	804	789	2	sinkhole	0.43
500165	871	882	868	3	sinkhole	3.96	500197			outside		sinkhole	0.06
500166	878	922	876	2	sinkhole	3.22	500198	800	807	798.3	1.7	sinkhole	0.12
500167	870	920	866	4	sinkhole	8.70	500199	788	804	785.7	2.3	sinkhole	0.87
500168	868	898	864	4	sinkhole	29.06	500200	792	795	790	2	sinkhole	0.03
500169	864	889	856	8	sinkhole	2.60	500201	791	808	789	2	sinkhole	0.32
500170	879	881	877	2	sinkhole	1.40	500202	806	814	805	1	sinkhole	0.03
500171	873	910	854	19	sinkhole	19.90	500203			outside		sinkhole	0.17

Karst Feature ID No.	Low Rim Elev. (feet MSL)	High Rim Elev. (feet MSL)	Invert Elev. (feet MSL)	Depth (feet)	Feature Type	Drainage Area (Acres)	Karst Feature ID No.	Low Rim Elev. (feet MSL)	High Rim Elev. (feet MSL)	Invert Elev. (feet MSL)	Depth (feet)	Feature Type	Drainage Area (Acres)
500172	869	910	866.3	2.7	sinkhole	3.16	500204	808	810	807	1	sinkhole	0.01
500173	864	886	843.1	20.9	sinkhole	32.14	500205	788	792	786	2	sinkhole	0.10
500174	NA	NA	NA	NA	buried sink	1.80	500206	812	814	810	2	sinkhole	0.02
500207	794	798	792	2	sinkhole	0.14	500252	715	720	713	2	sinkhole	0.26
500208	809	810	808	1	sinkhole	0.01	500253	699	708	695	4	sinkhole	0.14
500209	732	757	733	1	sinkhole	1.67	500254	720	733	718	2	sinkhole	0.37
500210	801	803	800	1	sinkhole	0.02	500255	704	718	703.5	0.5	sinkhole	0.15
500211	799	804	798	2	sinkhole	0.04	500256	720	723	719	1	sinkhole	0.06
500212	806	811	804	2	sinkhole	0.04	500257	721	728	719	2	sinkhole	0.18
500213	802	809	800	2	sinkhole	0.06	500258	703	720	701	2	sinkhole	0.23
500214	796	806	794	2	sinkhole	0.13	500259	701	708	699	2	sinkhole	0.09
500215	754	774	756	2	sinkhole	0.56	500260	707	718	703	4	sinkhole	0.34
500216	808	809	806	2	sinkhole	0.02	500261	703	713	701	2	sinkhole	0.13
500217	800	806	799	1	sinkhole	0.05	500262	712	715	711	1	sinkhole	0.04
500218	796	802	795	1	sinkhole	0.05	500263	708	721	706	2	sinkhole	0.31
500219	796	800	795	1	sinkhole	0.04	500264	724	727	723	1	sinkhole	0.56
500220	792	795	791	1	sinkhole	0.02	500265	709	724	708	1	sinkhole	1.48
500221	793	796	792	1	sinkhole	0.04	500266	704	723	702	2	sinkhole	1.14
500222	788	791	786	2	sinkhole	0.09	500267	707	726	704	3	sinkhole	1.00
500223	788	790	786	2	sinkhole	0.06	500268	701	710	699	2	sinkhole	0.29
500224	787	800	785	2	sinkhole	0.50	500269	708	720	706	2	sinkhole	0.97
500225	784	804	782.9	1.1	sinkhole	1.21	500270	737	752	736.5	0.5	sinkhole	0.36
500226	775	789	772.5	2.5	sinkhole	0.27	500271	746	746	744	1.5	sinkhole	0.01
500227	788	808	786	2	sinkhole	0.21	500272	742	747	739.5	2.5	sinkhole	0.22
500228	789	807	786	3	sinkhole	0.34	500273	768	783	760	8	sinkhole	0.29
500229	799	802	797	2	sinkhole	0.03	500274			outside		sinkhole	0.51
500230	770	784	767	3	sinkhole	0.17	500275	770	790	760	10	sinkhole	0.79
500231	702	714	700	2	sinkhole	0.32	500276	742	748	741.5	0.5	sinkhole	0.03
500232	719	730	717	2	sinkhole	0.16	500277	740	743	738	2	sinkhole	0.11
500233	730	742	727.5	2.5	sinkhole	4.48	500278	752	768	744	8	sinkhole	0.50
500234	714	724	713.4	0.6	sinkhole	0.93	500279	763	773	762.2	0.8	sinkhole	0.47
500235	717	732	716.5	0.5	sinkhole	0.14	500280	755	776	754	1	sinkhole	1.33
500236	706	725	703	3	sinkhole	0.67	500281	758	770	748	10	sinkhole	0.24
500237	705	718	703	2	sinkhole	0.23	500282	739	759	736	3	sinkhole	0.42
500238	709	738	707	2	sinkhole	1.61	500283	780	786	778	2	sinkhole	0.56
500239	711	736	708	3	sinkhole	0.58	500284	778	784	775.1	2.9	sinkhole	1.42
500240	696	703	694	2	sinkhole	0.12	500285	745	764	743.5	1.5	sinkhole	0.30
500241	698	698	697	1	sinkhole	0.00	500286	759	760	758	0.5	sinkhole	0.23
500242	678	706	676	2	sinkhole	0.25	500287	746	752	744	2	sinkhole	0.17
500243	721	731	719	2	sinkhole	1.87	500288	755	778	754	1	sinkhole	0.42
500244	698	720	697	1	sinkhole	0.19	500289	755	756	745.5	0.5	sinkhole	0.01
500245	724	730	720.7	3.3	sinkhole	2.01	500290	755	756	745.5	0.5	sinkhole	0.01
500246	701	706	699	1	sinkhole	0.15	500291	779	786	778	1	sinkhole	0.72
500247	721	732	720	1	sinkhole	0.30	500292	780	795	777	3	sinkhole	0.23
500248	715	733	713	2	sinkhole	0.78	500293	753	754	752	1	sinkhole	0.46

Karst Feature ID No.	Low Rim Elev. (feet MSL)	High Rim Elev. (feet MSL)	Invert Elev. (feet MSL)	Depth (feet)	Feature Type	Drainage Area (Acres)	Karst Feature ID No.	Low Rim Elev. (feet MSL)	High Rim Elev. (feet MSL)	Invert Elev. (feet MSL)	Depth (feet)	Feature Type	Drainage Area (Acres)
500249	715	736	713	2	sinkhole	2.05	500294	789	791	788	1	sinkhole	0.01
500250	717	729	715	2	sinkhole	0.01	500295	792	795	789	2.5	sinkhole	0.04
500251	722	732	718	4	sinkhole	0.14	500296	785	795	783	2	sinkhole	0.34
500297	780	795	772	8	sinkhole	0.38	500340	754	774	753	1	sinkhole	0.42
500298	780	793	778	2	sinkhole	0.20	500341	782	795	777.3	4.7	sinkhole	3.44
500299	792	794	790	2	sinkhole	0.01	500342	762	804	760	2	sinkhole	6.29
500300	782	783	781	1	sinkhole	0.01	500343	774	778	768	6	sinkhole	1.10
500301	784	800	782	2	sinkhole	0.21	500344	770	774	768.7	1.3	sinkhole	0.05
500302	784	787	782.5	1.5	sinkhole	0.08	500345	769	774	764	5	sinkhole	0.07
500303	789	803	787	2	sinkhole	0.29	500346	783	784	781	2	sinkhole	0.00
500304	786	796	783.5	2.5	sinkhole	0.11	500347	780	786	777	3	sinkhole	0.14
500305	789	798	788	1	sinkhole	0.07	500348			outside		sinkhole	0.04
500306	790	794	788.5	1.5	sinkhole	0.04	500349	772	774	770.5	1.5	sinkhole	0.06
500307	791	804	788	3	sinkhole	0.18	500350			outside		sinkhole	0.52
500308	780	788	778	2	sinkhole	0.07	500351			outside		sinkhole	0.60
500309	781	789	779	2	sinkhole	0.05	500352			outside		sinkhole	0.53
500310	755	766	752	3	sinkhole	1.41	500353	778	780	776	2	sinkhole	0.14
500311	790	797	788	2	sinkhole	0.07	500354	770	800	757.9	12.1	sinkhole	35.35
500312	775	777	773.5	1.5	sinkhole	0.03	500355			outside		sinkhole	0.03
500313	775	778	773	2	sinkhole	0.05	500356			outside		sinkhole	0.17
500314	777	777	774	3	sinkhole	0.02	500357	768	798	763.1	4.9	sinkhole	12.99
500315	777	777	774	3	sinkhole	0.02	500358	780	796	779	1	sinkhole	3.15
500316	777	777	776	1	sinkhole	0.01	500359	778	783	775.3	2.7	sinkhole	0.36
500317	778	778	776.5	1	sinkhole	0.01	500360	770	782	766.8	3.2	sinkhole	0.97
500318	775	806	772	4	sinkhole	3.97	500361	770	771	769	1	sinkhole	0.01
500319	778	779	776	2.2	sinkhole	0.03	500362	778	780	776	2	sinkhole	0.06
500320	780	781	779	1	sinkhole	0.01	500363	782	786	780.5	1.5	sinkhole	0.02
500321	778	778	778	0.1	sinkhole	0.00	500364	779	794	776	3	sinkhole	0.58
500322	779	780	778	1	sinkhole	0.01	500365	781	790	779	2	sinkhole	0.34
500323	779	780	777	1.7	sinkhole	0.01	500366	787	794	783	4	sinkhole	0.38
500324	765	767	764	1	sinkhole	0.01	500367	802	804	800	2	sinkhole	0.04
500325	762	764	760.5	1.5	sinkhole	0.01	500368	800	804	778	2	sinkhole	0.20
500326	780	783	778	2	sinkhole	0.03	500369	786	806	780.3	5.7	sinkhole	7.83
500327	781	782	780	1	sinkhole	0.00	500370	792	800	791	1	sinkhole	0.09
500328	783	790	781	2	sinkhole	0.08	500371			outside		sinkhole	0.45
500329	758	771	755	3	sinkhole	0.10	500372	783	790	778	5	sinkhole	0.35
500330	787	799	783	4	sinkhole	0.44	500373	NA	NA	NA	NA	buried sink	1.96
500331	764	776	761	3	sinkhole	0.42	500374	790	790	789	1	sinkhole	0.19
500332	756	757	755	1	sinkhole	0.02	500375	NA	NA	NA	NA	buried sink	3.53
500333	756	757	755	1	sinkhole	0.01	500376	791	809	778	13	sinkhole	14.42
500334	756	757	755	1	sinkhole	0.01	500377	810	835	801	9	sinkhole	3.87
500335	757	757	756	1	sinkhole	0.01	500378	745	750	743	2	sinkhole	0.02
500336	756	778	755	1	sinkhole	2.08	500379	783	814	780	3	sinkhole	0.57

Karst Feature ID No.	Low Rim Elev, (feet MSL)	High Rim Elev. (feet MSL)	Invert Elev. (feet MSL)	Depth (feet)	Feature Type	Drainage Area (Acres)	Karst Feature ID No.	Low Rim Elev, (feet MSL)	High Rim Elev. (feet MSL)	Invert Elev. (feet MSL)	Depth (feet)	Feature Type	Drainage Area (Acres)
500337	762	774	761.3	0.7	sinkhole	0.46	500380	761	763	760.5	0.5	sinkhole	0.00
500338	753	755	752	1	sinkhole	0.04	500381			outside		sinkhole	0.06
500339	762	774	760.4	1.6	sinkhole	0.50	500382			outside		sinkhole	0.07
500383			outside		sinkhole	0.16	500392	880	896	878	2	sinkhole	3.58
500384			outside		sinkhole	0.10	500393	857	895	848	9	sinkhole	10.06
500385			outside		sinkhole	0.14	500394	760	764	759	1	sinkhole	0.06
500395	735	740	734	1	sinkhole	0.02	500395	735	740	734	1	sinkhole	0.02
500396	730	737	728	2	sinkhole	0.02	500401	754	773	752	2	sinkhole	0.47
500397	725	731	724	1	sinkhole	0.05	500402	750	758	748	2	sinkhole	0.50
500398	720	732	718	2	sinkhole	0.10	500403	742	750	741	1	sinkhole	0.29
500399	718	722	717	1	sinkhole	0.03	500404	707	748	705	2	sinkhole	1.31
500400	758	773	756	2	sinkhole	0.26	500405	703	707	702	1	sinkhole	0.11
500386			outside		sinkhole	0.19	500406	816	839	813	3	sinkhole	0.20
500387			outside		sinkhole	0.16	500407	822	846	815	7	sinkhole	0.29
500388	867	884	850	17	sinkhole	6.02	500408	819	843	817	2	sinkhole	0.09
500389	848	922	840	8	sinkhole	13.07	500409	827	831	826	1	sinkhole	0.05
500390	863	922	850	13	sinkhole	11.81	500410	799	867	798	1	losing stream	7.88
500391	847	896	838	9	sinkhole	7.72	500411	754	816	752	2	losing stream	10.57



APPENDIX Y FINAL KARST REPORT (REDACTED)

TECHNICAL REPORT APPENDICES

APPENDIX A	Memorandum of Understanding
APPENDIX B	Tabular results for activated carbon and water samples
APPENDIX C	Ozark Underground Laboratory Procedures and Criteria
APPENDIX D	Sampling Station Index and Karst Feature Index
APPENDIX E	Sampling Station and Select Feature Photographs
APPENDIX F	Individual Dye Trace Reports, Summary Table, and Figures
APPENDIX G	Documentation Graphs for All Analyzed Samples
APPENDIX H	Precipitation and Discharge Data from Illinois Central Spring
APPENDIX I	CONFIDENTIAL Data
APPENDIX J	Cave Fauna of the Section 5 Corridor of I-69
APPENDIX K	Indiana Bat Hibernacula Cave Reconnaissance
APPENDIX L	Pollutant Loading Estimate Tables and FHWA Methodology
APPENDIX M	IDNR Water Well Data
APPENDIX N	Detail Maps of Preferred Alternative and Resources

Appendix E

Karst Photographs

Redacted for confidential reasons related to karst.