Los Alamos NATIONAL LABORATORY EST. 1943

Environmental Protection Division
Water Quality & RCRA Group (ENV-RCRA)
P.O. Box 1663, M704
Los Alamos, New Mexico 87545
(505) 667-0666

National Nuclear Security Administration
Los Alamos Site Office, A316
3747 West Jemez Road
Los Alamos, New Mexico 87545
(505) 667-5794/FAX (505) 667-5948

Date: APR 17 2012
Refer To: ENV-RCRA-12-0085
LAUR: 12-20344

Mr. Jerry Schoeppner, Acting Chief
Ground Water Quality Bureau
New Mexico Environment Department
Harold Runnels Building, Room N2261
1190 St. Francis Drive
P.O. Box 26110
Santa Fe, NM 87502

SUBJECT: FINAL REPORT FROM THE LAND APPLICATION OF UNTREATED GROUNDWATER FROM MONITORING WELL R-66 PUMP TEST

Dear Mr. Schoeppner:

On January 9, 2012, Los Alamos National Security LLC submitted to the New Mexico Environment Department (NMED) Ground Water Quality Bureau a Notice of Intent (NOI) to discharge untreated groundwater from a pump test at monitoring well R-66. In a February 24, 2012, letter (Enclosure 1) the NMED Ground Water Quality Bureau determined that a Discharge Permit was not required for the above referenced discharge as long as the pump test water was containerized and sampled to ensure that no toxic pollutants were present or exceedances in groundwater were detected in accordance with 20.6.2.3103 NMAC. Additionally, a final project report was required, as specified below:

- *Within 30 days following the conclusion of the pump test, Los Alamos National Laboratory shall submit a final report to NMED which includes the total volumes discharged, locations of discharges and the analytical results for the discharges.*

On March 7, 2012, personnel from Los Alamos National Security LLC and the NMED Ground Water Quality Bureau held a telephone conference regarding the R-66 pump test. Los Alamos National Security LLC personnel asked the NMED Ground Water Quality Bureau if the final project report could be submitted 30 days following the completion of land application instead of 30 days following the conclusion of the pump test. Understandably, the total volume of the discharge and locations of the discharge would not be available until land application was completed. The NMED Ground Water Quality Bureau gave verbal approval to the proposed change.

The following enclosures provide the requested information concerning analytical results for the discharges, total volumes discharged, and locations of discharges:

- **Enclosure 2** presents the analytical results from sampling of groundwater from monitoring well R-66. No toxic pollutants were present or exceedances in groundwater were detected in accordance with 20.6.2.3103 NMAC.

- **Enclosure 3** presents a record of the date, volume, and location of each truck load of groundwater land applied under this project. Approximately 88,000 gallons of groundwater were discharged to the land surface at designated land application sites using a 5000-gallon water truck outfitted with a high-pressure sprayer capable of dispersing water up to 100 ft.

- **Enclosure 4** is a map showing the land application sites in Los Alamos Canyon receiving groundwater from monitoring well R-66.

Please contact Robert S. Beers at (505) 667-7969 of the Water Quality and RCRA Group (ENV-RCRA) if you have questions.

Sincerely,

Alison M. Dorries
Division Leader
Environmental Protection Division
Los Alamos National Laboratory

Sincerely,

Gene E. Turner
Environmental Permitting Manager
Environmental Projects Office
Los Alamos Site Office
Department of Energy

AMD:GET:BB/lm

Enclosures:

1. February 24, 2012, letter from the NMED Ground Water Quality Bureau
2. Analytical results from sampling R-66 pump test water
3. Record of date, volume, and location of R-66 land application
4. Map showing the locations of land applied groundwater from R-66

Cy: James P. Bearzi, NMED/SWQB, Santa Fe, NM, w/enc.
John E. Kieling, NMED/HWB, Santa Fe, NM, w/enc.
Steve M. Yanicak, NMED/DOE/OB, w/enc., M894, (E-File)
Hai Shen, LASO-EPO, w/enc., A316, (E-File)
Gene E. Turner, LASO-EPO, w/enc., A316, (E-File)
Carl A. Beard, PADOPS, w/o enc., A102
Michael T. Brandt, ADESH, w/o enc., K491, (E-File)
Michael J. Graham, ADEP, w/o enc., M991, (E-File)
Alison M. Dorries, ENV-DO, w/o enc., K491, (E-File)
Scotty W. Jones, ENV-DO, w/o enc., K491, (E-File)
Victoria A. George, REG-DO, w/o enc., M991, (E-File)
Michael T. Saladen, ENV-RCRA, w/o enc., K490, (E-File)
Taylor A. Valdez, w/o enc., K404, (E-File)
Linda M. Salazar, w/o enc., K491, (E-File)
Kathryn D. Lynnes, REG-DO, w/enc., M992, (E-File)
Theodore T. Ball, MNGRFCT-DO, w/enc., J590, (E-File)
Robert S. Beers, ENV-RCRA, w/enc., K490
IRM-RMMSO, (U1200349), w/enc., A150 or locatesteam@lanl.gov
ENV-RCRA Correspondence File, w/enc., M704

Los Alamos NATIONAL LABORATORY EST.1943

Signature/Review/Coordination Sheet

This form is to accompany all documents requiring review, approval, or signature by the Laboratory Director or Designee.

Date: APR 17 2012 Deadline: 4/15/2012	Is this a response to an action item? Yes ☒ No ☐
From: ENV-RCRA Group Name: Robert Beers MS: K490	☒ Call for Pick-up Name: Linda Salazar Phone: 7-7407

Title: Identify document, briefly describing subject matter.

ENV-RCRA-12-0085. FINAL REPORT FROM THE LAND APPLICATION OF UNTREATED GROUNDWATER FROM MONITORING WELL R-66 PUMP TEST [Action Item # U1200349]

☒ Action ☐ Information Only

Background/Issues:

On January 9, 2012, LANS submitted an NOI to discharge untreated groundwater from a pump test at monitoring well R-66. In a February 24, 2012, letter the NMED determined that a Discharge Permit was not required for the above referenced discharge as long as the pump test water was containerized and sampled to ensure that groundwater standards were not exceeded. Additionally, a final project report was required by the NMED 30 days after the conclusion of the pump test. In subsequent telephone discussions, the NMED confirmed that it was acceptable if the final report was submitted 30 days after the completion of land application. This letter and enclosures constitute the final project report.

This is a routine submittal to the NMED.

ACTION requested of Laboratory Director or Designee:

Review and Endorse.

PAD Endorsement

Name (print)	Signature	Date
Carl A. Beard for		4/12/12

AD Endorsement

Name (print)	Signature	Date
Michael T. Brandt		4/11/12

Coordinated with

1. Name (print) Alison M. Dorries	Signature	Date 4/11/12
2. Name (print) Victoria A. George	Signature Kathryn Lynnes for	Date 04/11/12
3. Name (print) Anthony R. Grieggs	Signature	Date 4/9/12
4. Name (print) Michael T. Saladen	Signature	Date 4/5/12
5. Name (print) Robert S. Beers	Signature	Date 4/5/2012

Please ensure appropriate inter/intra Directorate/Divisional coordination and review prior to submittal to the Director's Office.

Form 1824 (1/07)

ENCLOSURE 1

February 24, 2012, letter from the NMED Ground Water Quality Bureau

ENV-RCRA-12-0085

LAUR-12-20344

U1200349

Date: APR 17 2012

NEW MEXICO
ENVIRONMENT DEPARTMENT

Ground Water Quality Bureau

Harold Runnels Building
1190 St. Francis Drive
PO Box 5469, Santa Fe, NM 87502-5469
Phone (505) 827-2918 Fax (505) 827-2965
www.nmenv.state.nm.us

SUSANA MARTINEZ
Governor
JOHN A. SANCHEZ
Lieutenant Governor

DAVE MARTIN
Secretary
BUTCH TONGATE
Deputy Secretary

EP2012-5045

CERTIFIED MAIL – RETURN RECEIPT REQUESTED

February 24, 2012

Michael Graham
Associate Director, Environmental Programs
Los Alamos National Laboratory
PO Box 1663, MS-K490
Los Alamos, NM 87544

Michael Brandt
Acting Associate Director ESH
Los Alamos National Laboratory
PO Box 1663, MS-K490
Los Alamos, NM 87544

RE: Response to Notice of Intent to Discharge; Discharge Permit Not Required for Untreated Well Development and Pump Test Ground Water Discharge at Regional Monitoring Well R-66, AI:856 (PRD20120001)

Dear Messrs. Graham and Brandt:

The New Mexico Environment Department (NMED) received a Notice of Intent on January 11, 2012 (copy enclosed) for a one-time discharge of approximately 75,000 gallons of pump test water, from monitoring well R-66, to approximately four miles of dirt road within Los Alamos Canyon. The ground water from monitoring well R-66 is not believed to present any toxic pollutant(s) as defined under Subsection WW of 20.6.2.7 NMAC nor exceed any ground water quality standard listed under 20.6.2.3103 NMAC. The notice satisfies the requirements of Subsection A of 20.6.2.1201 NMAC of the New Mexico Water Quality Control Commission (WQCC) Regulations (20.6.2 NMAC). The proposed discharge is located in Los Alamos Canyon, approximately two miles east of Los Alamos, in Section 13, Township 19N, Range 06E, within the boundaries of Los Alamos National Laboratory, Los Alamos County.

Based on the information provided in the Notice of Intent, NMED has determined that a Discharge Permit is not required as long as the discharge is as described. The Notice of Intent states all pump test water shall be containerized and sampled to ensure no toxic pollutants are present or exceedances in ground water are detected in accordance with 20.6.2.3103 NMAC. **Within 30 days following the conclusion of the pump test, Los Alamos National Laboratory shall submit a final report to NMED which includes the total volumes discharged, locations**

of discharges and analytical results for the discharges. A Discharge Permit is not required at this time because the information provided indicates it is unlikely that the discharge will adversely affect ground water quality.

Although a Discharge Permit is not being required for this discharge at this time, LANL is not relieved of liability should this operation result in actual pollution of surface or ground waters. Further, this decision by NMED does not relieve LANL of the responsibility to comply with any other applicable federal, state, and/or local laws and regulations, such as zoning requirements, plumbing codes and nuisance ordinances.

If at some time in the future you intend to change the amount, character or location of your discharge changes, or if observation or monitoring shows that the discharge is not as described in the Notice of Intent, a revised Notice of Intent must be filed with the Ground Water Quality Bureau.

If you have any questions, please contact either Jennifer Fullam at (505) 827-2909 or me at (505) 827-0027.

Sincerely,

Clint Marshall, Program Manager
Pollution Prevention Section
Ground Water Quality Bureau

CM:JF

Enc: Notice of Intent dated January 9, 2012

Cc: Robert Italiano, District Manager, NMED District II
NMED Santa Fe Field Office
County File
James Bearzi, NMED SWQB
Richard Powell, NMED SWQB
John Kieling, NMED HWB
Steven Yanicak, NMED-DOE-Oversight Bureau
Hai Shen, LASO-EO, Los Alamos National Laboratory, A316, Los Alamos, NM 87545 (w/o enclosures)
Gene Turner, LASO-EO, Los Alamos National Laboratory, A316, Los Alamos, NM 87545
Carl Beard, PADOPS, Los Alamos National Laboratory, A102, Los Alamos, NM 87545
Michael Saladen ENV-RCRA, Los Alamos National Laboratory, K490, Los Alamos, NM 87545

Victoria George, REG-DO, Los Alamos National Laboratory, M991, Los Alamos, NM 87545
Kate Lynnes, REG-COM, Los Alamos National Laboratory, M991, Los Alamos, NM 87545
Craig Douglass, CAP, Los Alamos National Laboratory, M992, Los Alamos, NM 87545
Ted Ball, PMF-FUNCT, Los Alamos National Laboratory, M996, Los Alamos, NM 87545
Mark Everett, ET-EI, Los Alamos National Laboratory, M992, Los Alamos, NM 87545
Mike Alexander, CAP-FS, Los Alamos National Laboratory, K497, Los Alamos, NM 87545
Bob Beers, ENV-RCRA, Los Alamos National Laboratory, K490, Los Alamso NM, 87545

ENCLOSURE 2

Analytical results from sampling R-66 pump test water

ENV-RCRA-12-0085

LAUR-12-20344

U1200349

Date: APR 17 2012

SAMPLE NAME	DATE	ANALYTE CODE	ANALYTE DESC	ANALYTICAL METHOD CODE	FIELD PREP CODE	RESULT	UNITS	LAB QUAL CODE	VALID QUAL CODE	MDL	MDA	UNCERT	REQUEST NUMBER	LAB CODE
Well R-66	1/20/12	Ag	Silver	SW-846:6020	F	1	ug/L	U	U	0.2			12-633	GELC
Well R-66	1/20/12	Al	Aluminum	SW-846:6010B	F	200	ug/L	U	U	68			12-633	GELC
Well R-66	1/20/12	As	Arsenic	SW-846:6020	F	3.4	ug/L	J	U	1.7			12-633	GELC
Well R-66	1/20/12	B	Boron	SW-846:6010B	F	42.5	ug/L	J	J	15			12-633	GELC
Well R-66	1/20/12	Ba	Barium	SW-846:6010B	F	15.2	ug/L		NQ	1			12-633	GELC
Well R-66	1/20/12	Be	Beryllium	SW-846:6010B	F	5	ug/L	U	U	1			12-633	GELC
Well R-66	1/20/12	Cd	Cadmium	SW-846:6020	F	1	ug/L	U	U	0.11			12-633	GELC
Well R-66	1/20/12	Cl(-1)	Chloride	EPA:300.0	F	4.05	mg/L		NQ	0.066			12-633	GELC
Well R-66	1/20/12	ClO4	Perchlorate	SW-846:6850	UF	0.516	ug/L		NQ	0.05			12-633	GELC
Well R-66	1/20/12	ClO4	Perchlorate	SW-846:6850	F	0.467	ug/L		NQ	0.05			12-633	GELC
Well R-66	1/20/12	CN(TOTAL)	Cyanide (Total)	EPA:335.4	F	5	ug/L	U	U	1.5			12-633	GELC
Well R-66	1/20/12	Co	Cobalt	SW-846:6010B	F	5	ug/L	U	U	1			12-633	GELC
Well R-66	1/20/12	Cr	Chromium	SW-846:6020	F	10	ug/L	U	U	2			12-633	GELC
Well R-66	1/20/12	Cr	Chromium	SW-846:6020	UF	3.86	ug/L	J	J	2			12-633	GELC
Well R-66	1/20/12	Cu	Copper	SW-846:6010B	F	10	ug/L	U	U	3			12-633	GELC
Well R-66	1/20/12	F(-1)	Fluoride	EPA:300.0	F	0.365	mg/L		NQ	0.033			12-633	GELC
Well R-66	1/20/12	Hg	Mercury	EPA:245.2	F	0.2	ug/L	U	U	0.066			12-633	GELC
Well R-66	1/20/12	Hg	Mercury	EPA:245.2	UF	0.2	ug/L	U	U	0.066			12-633	GELC
Well R-66	1/20/12	Fe	Iron	SW-846:6010B	F	293	ug/L		NQ	30			12-633	GELC
Well R-66	1/20/12	Mn	Manganese	SW-846:6010B	F	28	ug/L		NQ	2			12-633	GELC
Well R-66	1/20/12	Mo	Molybdenum	SW-846:6020	F	3.72	ug/L		NQ	0.17			12-633	GELC
Well R-66	1/20/12	Ni	Nickel	SW-846:6020	F	1.18	ug/L	J	J	0.5			12-633	GELC
Well R-66	1/20/12	NO3+NO2-N	Nitrate-Nitrite as Nitrogen	EPA:353.2	F	0.0307	mg/L	J	J+	0.01			12-633	GELC
Well R-66	1/20/12	Pb	Lead	SW-846:6020	F	2	ug/L	U	U	0.5			12-633	GELC
Well R-66	1/20/12	pH	pH	EPA:150.1	UF	7.92	SU	H	J-	0.01			12-633	GELC
Well R-66	1/20/12	Sb	Antimony	SW-846:6020	F	2.55	ug/L	J	J	1			12-633	GELC
Well R-66	1/20/12	Se	Selenium	SW-846:6020	F	5	ug/L	U	U	1.5			12-633	GELC
Well R-66	1/20/12	SO4(-2)	Sulfate	EPA:300.0	F	3.98	mg/L		NQ	0.1			12-633	GELC
Well R-66	1/20/12	Ra-226	Radium-226	EPA:903.1	UF	0.277	pCi/L		U		0.22	0.099	12-633	GELC
Well R-66	1/20/12	Ra-228	Radium-228	EPA:904	UF	0.047	pCi/L	U	U		0.57	0.15	12-633	GELC
Well R-66	1/20/12	TDS	Total Dissolved Solids	EPA:160.1	UF	177	mg/L		NQ	3.4			12-633	GELC
Well R-66	1/20/12	TDS	Total Dissolved Solids	EPA:160.1	F	150	mg/L		NQ	3.4			12-633	GELC
Well R-66	1/20/12	U	Uranium	SW-846:6020	F	0.511	ug/L		NQ	0.067			12-633	GELC
Well R-66	1/20/12	Zn	Zinc	SW-846:6010B	F	3.79	ug/L	J	J	3.3			12-633	GELC
Well R-66	1/20/12	100-01-6	Nitroaniline[4-]	SW-846:8270C	UF	10.3	ug/L	U	U	3.1			12-632	GELC
Well R-66	1/20/12	100-02-7	Nitrophenol[4-]	SW-846:8270C	UF	10.3	ug/L	U	U	3.1			12-632	GELC
Well R-66	1/20/12	100-41-4	Ethylbenzene	SW-846:8260B	UF	1	ug/L	U	U	0.25			12-632	GELC
Well R-66	1/20/12	100-42-5	Styrene	SW-846:8260B	UF	1	ug/L	U	U	0.25			12-632	GELC
Well R-66	1/20/12	100-51-6	Benzyl Alcohol	SW-846:8270C	UF	10.3	ug/L	U	U	3.1			12-632	GELC
Well R-66	1/20/12	10061-01-5	Dichloropropene[cis-1,3-]	SW-846:8260B	UF	1	ug/L	U	U	0.25			12-632	GELC
Well R-66	1/20/12	10061-02-6	Dichloropropene[trans-1,3-]	SW-846:8260B	UF	1	ug/L	U	U	0.25			12-632	GELC
Well R-66	1/20/12	101-55-3	Bromophenyl-phenylether[4-]	SW-846:8270C	UF	10.3	ug/L	U	U	3.1			12-632	GELC

SAMPLE NAME	DATE	ANALYTE CODE	ANALYTE DESC	ANALYTICAL METHOD CODE	FIELD PREP CODE	RESULT	UNITS	LAB QUAL CODE	VALID QUAL CODE	MDL	MDA	UNCERT	REQUEST NUMBER	LAB CODE
Well R-66	1/20/12	1024-57-3	Heptachlor Epoxide	SW-846:8081A	UF	0.0213	ug/L	U	U	0.0071			12-632	GELC
Well R-66	1/20/12	1031-07-8	Endosulfan Sulfate	SW-846:8081A	UF	0.0426	ug/L	U	U	0.011			12-632	GELC
Well R-66	1/20/12	103-33-3	Azobenzene	SW-846:8270C	UF	10.3	ug/L	U	U	3.1			12-632	GELC
Well R-66	1/20/12	103-65-1	Propylbenzene[1-]	SW-846:8260B	UF	1	ug/L	U	U	0.25			12-632	GELC
Well R-66	1/20/12	104-51-8	Butylbenzene[n-]	SW-846:8260B	UF	1	ug/L	U	U	0.25			12-632	GELC
Well R-66	1/20/12	105-67-9	Dimethylphenol[2,4-]	SW-846:8270C	UF	10.3	ug/L	U	U	3.1			12-632	GELC
Well R-66	1/20/12	106-43-4	Chlorotoluene[4-]	SW-846:8260B	UF	1	ug/L	U	U	0.25			12-632	GELC
Well R-66	1/20/12	106-44-5	Methylphenol[4-]	SW-846:8270C	UF	10.3	ug/L	U	U	3.1			12-632	GELC
Well R-66	1/20/12	106-46-7	Dichlorobenzene[1,4-]	SW-846:8260B	UF	1	ug/L	U	U	0.25			12-632	GELC
Well R-66	1/20/12	106-46-7	Dichlorobenzene[1,4-]	SW-846:8270C	UF	10.3	ug/L	U	U	3.1			12-632	GELC
Well R-66	1/20/12	106-47-8	Chloroaniline[4-]	SW-846:8270C	UF	10.3	ug/L	U	U	3.1			12-632	GELC
Well R-66	1/20/12	106-93-4	Dibromoethane[1,2-]	SW-846:8260B	UF	1	ug/L	U	U	0.25			12-632	GELC
Well R-66	1/20/12	107-02-8	Acrolein	SW-846:8260B	UF	5	ug/L	U	UJ	1.3			12-632	GELC
Well R-66	1/20/12	107-05-1	Chloro-1-propene[3-]	SW-846:8260B	UF	5	ug/L	U	U	1.5			12-632	GELC
Well R-66	1/20/12	107-06-2	Dichloroethane[1,2-]	SW-846:8260B	UF	1	ug/L	U	U	0.25			12-632	GELC
Well R-66	1/20/12	107-12-0	Propionitrile	SW-846:8260B	UF	5	ug/L	U	UJ	1.5			12-632	GELC
Well R-66	1/20/12	107-13-1	Acrylonitrile	SW-846:8260B	UF	5	ug/L	U	U	1			12-632	GELC
Well R-66	1/20/12	108-05-4	Vinyl acetate	SW-846:8260B	UF	5	ug/L	U	U	1.5			12-632	GELC
Well R-66	1/20/12	108-10-1	Methyl-2-pentanone[4-]	SW-846:8260B	UF	5	ug/L	U	U	1.3			12-632	GELC
Well R-66	1/20/12	108-60-1	Oxybis(1-chloropropane)[2,2'-]	SW-846:8270C	UF	10.3	ug/L	U	U	3.1			12-632	GELC
Well R-66	1/20/12	108-67-8	Trimethylbenzene[1,3,5-]	SW-846:8260B	UF	1	ug/L	U	U	0.25			12-632	GELC
Well R-66	1/20/12	108-86-1	Bromobenzene	SW-846:8260B	UF	1	ug/L	U	U	0.25			12-632	GELC
Well R-66	1/20/12	108-88-3	Toluene	SW-846:8260B	UF	1	ug/L	U	U	0.25			12-632	GELC
Well R-66	1/20/12	108-90-7	Chlorobenzene	SW-846:8260B	UF	1	ug/L	U	U	0.25			12-632	GELC
Well R-66	1/20/12	108-95-2	Phenol	SW-846:8270C	UF	10.3	ug/L	U	U	3.1			12-632	GELC
Well R-66	1/20/12	110-86-1	Pyridine	SW-846:8270C	UF	10.3	ug/L	U	UJ	3.1			12-632	GELC
Well R-66	1/20/12	11096-82-5	Aroclor-1260	SW-846:8082	UF	0.105	ug/L	U	U	0.035			12-632	GELC
Well R-66	1/20/12	11097-69-1	Aroclor-1254	SW-846:8082	UF	0.105	ug/L	U	U	0.035			12-632	GELC
Well R-66	1/20/12	11104-28-2	Aroclor-1221	SW-846:8082	UF	0.105	ug/L	U	U	0.035			12-632	GELC
Well R-66	1/20/12	11141-16-5	Aroclor-1232	SW-846:8082	UF	0.105	ug/L	U	U	0.035			12-632	GELC
Well R-66	1/20/12	111-44-4	Bis(2-chloroethyl)ether	SW-846:8270C	UF	10.3	ug/L	U	U	3.1			12-632	GELC
Well R-66	1/20/12	111-91-1	Bis(2-chloroethoxy)methane	SW-846:8270C	UF	10.3	ug/L	U	U	3.1			12-632	GELC
Well R-66	1/20/12	117-81-7	Bis(2-ethylhexyl)phthalate	SW-846:8270C	UF	10.3	ug/L	U	U	3.1			12-632	GELC
Well R-66	1/20/12	117-84-0	Di-n-octylphthalate	SW-846:8270C	UF	10.3	ug/L	U	U	3.1			12-632	GELC
Well R-66	1/20/12	118-74-1	Hexachlorobenzene	SW-846:8270C	UF	10.3	ug/L	U	U	3.1			12-632	GELC
Well R-66	1/20/12	118-96-7	Trinitrotoluene[2,4,6-]	SW-846:8321A	UF	0.325	ug/L	U	U	0.1			12-632	GELC
Well R-66	1/20/12	120-12-7	Anthracene	SW-846:8270C	UF	1.03	ug/L	U	U	0.31			12-632	GELC
Well R-66	1/20/12	120-36-5	Dichlorprop	SW-846:8151A	UF	0.266	ug/L	U	U	0.088			12-632	GELC
Well R-66	1/20/12	120-82-1	Trichlorobenzene[1,2,4-]	SW-846:8260B	UF	1	ug/L	U	U	0.3			12-632	GELC
Well R-66	1/20/12	120-82-1	Trichlorobenzene[1,2,4-]	SW-846:8270C	UF	10.3	ug/L	U	U	3.1			12-632	GELC
Well R-66	1/20/12	120-83-2	Dichlorophenol[2,4-]	SW-846:8270C	UF	10.3	ug/L	U	U	3.1			12-632	GELC

SAMPLE NAME	DATE	ANALYTE CODE	ANALYTE DESC	ANALYTICAL METHOD CODE	FIELD PREP CODE	RESULT	UNITS	LAB QUAL CODE	VALID QUAL CODE	MDL	MDA	UNCERT	REQUEST NUMBER	LAB CODE
Well R-66	1/20/12	121-14-2	Dinitrotoluene[2,4-]	SW-846:8321A	UF	0.325	ug/L	U	U	0.1			12-632	GELC
Well R-66	1/20/12	121-14-2	Dinitrotoluene[2,4-]	SW-846:8270C	UF	10.3	ug/L	U	U	3.1			12-632	GELC
Well R-66	1/20/12	121-82-4	RDX	SW-846:8321A	UF	0.325	ug/L	U	U	0.1			12-632	GELC
Well R-66	1/20/12	122-39-4	Diphenylamine	SW-846:8270C	UF	10.3	ug/L	U	U	3.1			12-632	GELC
Well R-66	1/20/12	123-91-1	Dioxane[1,4-]	SW-846:8270C	UF	10.3	ug/L	U	U	3.1			12-632	GELC
Well R-66	1/20/12	124-48-1	Chlorodibromomethane	SW-846:8260B	UF	1	ug/L	U	U	0.3			12-632	GELC
Well R-66	1/20/12	12672-29-6	Aroclor-1248	SW-846:8082	UF	0.105	ug/L	U	U	0.035			12-632	GELC
Well R-66	1/20/12	12674-11-2	Aroclor-1016	SW-846:8082	UF	0.105	ug/L	U	U	0.035			12-632	GELC
Well R-66	1/20/12	126-98-7	Methacrylonitrile	SW-846:8260B	UF	5	ug/L	U	U	1			12-632	GELC
Well R-66	1/20/12	126-99-8	Chloro-1,3-butadiene[2-]	SW-846:8260B	UF	1	ug/L	U	U	0.3			12-632	GELC
Well R-66	1/20/12	127-18-4	Tetrachloroethene	SW-846:8260B	UF	1	ug/L	U	UJ	0.3			12-632	GELC
Well R-66	1/20/12	129-00-0	Pyrene	SW-846:8270C	UF	1.03	ug/L	U	U	0.31			12-632	GELC
Well R-66	1/20/12	131-11-3	Dimethyl Phthalate	SW-846:8270C	UF	10.3	ug/L	U	U	3.1			12-632	GELC
Well R-66	1/20/12	132-64-9	Dibenzofuran	SW-846:8270C	UF	10.3	ug/L	U	U	3.1			12-632	GELC
Well R-66	1/20/12	135-98-8	Butylbenzene[sec-]	SW-846:8260B	UF	1	ug/L	U	U	0.25			12-632	GELC
Well R-66	1/20/12	142-28-9	Dichloropropane[1,3-]	SW-846:8260B	UF	1	ug/L	U	U	0.3			12-632	GELC
Well R-66	1/20/12	156-59-2	Dichloroethene[cis-1,2-]	SW-846:8260B	UF	1	ug/L	U	U	0.3			12-632	GELC
Well R-66	1/20/12	156-60-5	Dichloroethene[trans-1,2-]	SW-846:8260B	UF	1	ug/L	U	U	0.3			12-632	GELC
Well R-66	1/20/12	1634-04-4	Methyl tert-Butyl Ether	SW-846:8260B	UF	1	ug/L	U	U	0.25			12-632	GELC
Well R-66	1/20/12	1912-24-9	Atrazine	SW-846:8270C	UF	10.3	ug/L	U	U	3.1			12-632	GELC
Well R-66	1/20/12	191-24-2	Benzo(g,h,i)perylene	SW-846:8270C	UF	1.03	ug/L	U	U	0.31			12-632	GELC
Well R-66	1/20/12	1918-00-9	Dicamba	SW-846:8151A	UF	0.266	ug/L	U	U	0.088			12-632	GELC
Well R-66	1/20/12	193-39-5	Indeno(1,2,3-cd)pyrene	SW-846:8270C	UF	1.03	ug/L	U	U	0.31			12-632	GELC
Well R-66	1/20/12	19406-51-0	Amino-2,6-dinitrotoluene[4-]	SW-846:8321A	UF	0.325	ug/L	U	U	0.1			12-632	GELC
Well R-66	1/20/12	205-99-2	Benzo(b)fluoranthene	SW-846:8270C	UF	1.03	ug/L	U	U	0.31			12-632	GELC
Well R-66	1/20/12	206-44-0	Fluoranthene	SW-846:8270C	UF	1.03	ug/L	U	U	0.31			12-632	GELC
Well R-66	1/20/12	207-08-9	Benzo(k)fluoranthene	SW-846:8270C	UF	1.03	ug/L	U	U	0.31			12-632	GELC
Well R-66	1/20/12	208-96-8	Acenaphthylene	SW-846:8270C	UF	1.03	ug/L	U	U	0.31			12-632	GELC
Well R-66	1/20/12	218-01-9	Chrysene	SW-846:8270C	UF	1.03	ug/L	U	U	0.31			12-632	GELC
Well R-66	1/20/12	2691-41-0	HMX	SW-846:8321A	UF	0.325	ug/L	U	U	0.1			12-632	GELC
Well R-66	1/20/12	3058-38-6	TATB	SW-846:8321A	UF	1.3	ug/L	U	U	0.39			12-632	GELC
Well R-66	1/20/12	309-00-2	Aldrin	SW-846:8081A	UF	0.0213	ug/L	U	U	0.0071			12-632	GELC
Well R-66	1/20/12	319-84-6	BHC[alpha-]	SW-846:8081A	UF	0.0213	ug/L	U	U	0.0071			12-632	GELC
Well R-66	1/20/12	319-85-7	BHC[beta-]	SW-846:8081A	UF	0.0213	ug/L	U	U	0.0071			12-632	GELC
Well R-66	1/20/12	319-86-8	BHC[delta-]	SW-846:8081A	UF	0.0213	ug/L	U	U	0.0071			12-632	GELC
Well R-66	1/20/12	33213-65-9	Endosulfan II	SW-846:8081A	UF	0.0426	ug/L	U	U	0.011			12-632	GELC
Well R-66	1/20/12	35572-78-2	Amino-4,6-dinitrotoluene[2-]	SW-846:8321A	UF	0.325	ug/L	U	U	0.1			12-632	GELC
Well R-66	1/20/12	37324-23-5	Aroclor-1262	SW-846:8082	UF	0.105	ug/L	U	U	0.035			12-632	GELC
Well R-66	1/20/12	479-45-8	Tetryl	SW-846:8321A	UF	0.649	ug/L	U	UJ	0.1			12-632	GELC
Well R-66	1/20/12	50-29-3	DDT[4,4'-]	SW-846:8081A	UF	0.0426	ug/L	U	U	0.011			12-632	GELC
Well R-66	1/20/12	50-32-8	Benzo(a)pyrene	SW-846:8270C	UF	1.03	ug/L	U	U	0.31			12-632	GELC

SAMPLE NAME	DATE	ANALYTE CODE	ANALYTE DESC	ANALYTICAL METHOD CODE	FIELD PREP CODE	RESULT	UNITS	LAB QUAL CODE	VALID QUAL CODE	MDL	MDA	UNCERT	REQUEST NUMBER	LAB CODE
Well R-66	1/20/12	5103-71-9	Chlordane[alpha-]	SW-846:8081A	UF	0.0213	ug/L	U	U	0.0071			12-632	GELC
Well R-66	1/20/12	5103-74-2	Chlordane[gamma-]	SW-846:8081A	UF	0.0213	ug/L	U	U	0.0071			12-632	GELC
Well R-66	1/20/12	51-28-5	Dinitrophenol[2,4-]	SW-846:8270C	UF	20.6	ug/L	U	UJ	5.2			12-632	GELC
Well R-66	1/20/12	534-52-1	Dinitro-2-methylphenol[4,6-]	SW-846:8270C	UF	10.3	ug/L	U	U	3.1			12-632	GELC
Well R-66	1/20/12	53469-21-9	Aroclor-1242	SW-846:8082	UF	0.105	ug/L	U	U	0.035			12-632	GELC
Well R-66	1/20/12	53494-70-5	Endrin Ketone	SW-846:8081A	UF	0.0426	ug/L	U	U	0.011			12-632	GELC
Well R-66	1/20/12	53-70-3	Dibenz(a,h)anthracene	SW-846:8270C	UF	1.03	ug/L	U	U	0.31			12-632	GELC
Well R-66	1/20/12	541-73-1	Dichlorobenzene[1,3-]	SW-846:8260B	UF	1	ug/L	U	U	0.25			12-632	GELC
Well R-66	1/20/12	541-73-1	Dichlorobenzene[1,3-]	SW-846:8270C	UF	10.3	ug/L	U	U	3.1			12-632	GELC
Well R-66	1/20/12	55-18-5	Nitrosodiethylamine[N-]	SW-846:8270C	UF	10.3	ug/L	U	U	3.1			12-632	GELC
Well R-66	1/20/12	56-23-5	Carbon Tetrachloride	SW-846:8260B	UF	1	ug/L	U	UJ	0.3			12-632	GELC
Well R-66	1/20/12	563-58-6	Dichloropropene[1,1-]	SW-846:8260B	UF	1	ug/L	U	U	0.25			12-632	GELC
Well R-66	1/20/12	56-55-3	Benzo(a)anthracene	SW-846:8270C	UF	1.03	ug/L	U	U	0.31			12-632	GELC
Well R-66	1/20/12	58-89-9	BHC[gamma-]	SW-846:8081A	UF	0.0213	ug/L	U	U	0.0071			12-632	GELC
Well R-66	1/20/12	58-90-2	Tetrachlorophenol[2,3,4,6-]	SW-846:8270C	UF	10.3	ug/L	U	U	3.1			12-632	GELC
Well R-66	1/20/12	591-78-6	Hexanone[2-]	SW-846:8260B	UF	5	ug/L	U	U	1.3			12-632	GELC
Well R-66	1/20/12	59229-75-3	2,6-Diamino-4-nitrotoluene	SW-846:8321A	UF	3.25	ug/L	U	U	0.65			12-632	GELC
Well R-66	1/20/12	594-20-7	Dichloropropane[2,2-]	SW-846:8260B	UF	1	ug/L	U	UJ	0.3			12-632	GELC
Well R-66	1/20/12	59-50-7	Chloro-3-methylphenol[4-]	SW-846:8270C	UF	10.3	ug/L	U	U	3.1			12-632	GELC
Well R-66	1/20/12	60-29-7	Diethyl Ether	SW-846:8260B	UF	1	ug/L	U	U	0.3			12-632	GELC
Well R-66	1/20/12	60-57-1	Dieldrin	SW-846:8081A	UF	0.0426	ug/L	U	U	0.011			12-632	GELC
Well R-66	1/20/12	606-20-2	Dinitrotoluene[2,6-]	SW-846:8321A	UF	0.325	ug/L	U	U	0.1			12-632	GELC
Well R-66	1/20/12	606-20-2	Dinitrotoluene[2,6-]	SW-846:8270C	UF	10.3	ug/L	U	U	3.1			12-632	GELC
Well R-66	1/20/12	608-93-5	Pentachlorobenzene	SW-846:8270C	UF	10.3	ug/L	U	U	3.1			12-632	GELC
Well R-66	1/20/12	618-87-1	3,5-Dinitroaniline	SW-846:8321A	UF	1.3	ug/L	U	U	0.39			12-632	GELC
Well R-66	1/20/12	621-64-7	Nitroso-di-n-propylamine[N-]	SW-846:8270C	UF	10.3	ug/L	U	U	3.1			12-632	GELC
Well R-66	1/20/12	62-53-3	Aniline	SW-846:8270C	UF	10.3	ug/L	U	U	3.1			12-632	GELC
Well R-66	1/20/12	62-75-9	Nitrosodimethylamine[N-]	SW-846:8270C	UF	10.3	ug/L	U	U	3.1			12-632	GELC
Well R-66	1/20/12	630-20-6	Tetrachloroethane[1,1,1,2-]	SW-846:8260B	UF	1	ug/L	U	U	0.3			12-632	GELC
Well R-66	1/20/12	65-85-0	Benzoic Acid	SW-846:8270C	UF	20.6	ug/L	U	U	6.2			12-632	GELC
Well R-66	1/20/12	6629-29-4	2,4-Diamino-6-nitrotoluene	SW-846:8321A	UF	3.25	ug/L	U	UJ	0.65			12-632	GELC
Well R-66	1/20/12	67-64-1	Acetone	SW-846:8260B	UF	10	ug/L	U	U	3.5			12-632	GELC
Well R-66	1/20/12	67-66-3	Chloroform	SW-846:8260B	UF	1	ug/L	U	U	0.25			12-632	GELC
Well R-66	1/20/12	67-72-1	Hexachloroethane	SW-846:8270C	UF	10.3	ug/L	U	U	3.1			12-632	GELC
Well R-66	1/20/12	7005-72-3	Chlorophenyl-phenyl[4-] Ether	SW-846:8270C	UF	10.3	ug/L	U	U	3.1			12-632	GELC
Well R-66	1/20/12	71-36-3	Butanol[1-]	SW-846:8260B	UF	50	ug/L	U	UJ	15			12-632	GELC
Well R-66	1/20/12	71-43-2	Benzene	SW-846:8260B	UF	1	ug/L	U	U	0.3			12-632	GELC
Well R-66	1/20/12	71-55-6	Trichloroethane[1,1,1-]	SW-846:8260B	UF	1	ug/L	U	U	0.33			12-632	GELC
Well R-66	1/20/12	72-20-8	Endrin	SW-846:8081A	UF	0.0426	ug/L	U	U	0.011			12-632	GELC
Well R-66	1/20/12	72-43-5	Methoxychlor[4,4'-]	SW-846:8081A	UF	0.213	ug/L	U	U	0.053			12-632	GELC
Well R-66	1/20/12	72-54-8	DDD[4,4'-]	SW-846:8081A	UF	0.0426	ug/L	U	U	0.011			12-632	GELC
Well R-66	1/20/12	72-55-9	DDE[4,4'-]	SW-846:8081A	UF	0.0426	ug/L	U	U	0.011			12-632	GELC
Well R-66	1/20/12	7421-93-4	Endrin Aldehyde	SW-846:8081A	UF	0.0426	ug/L	U	U	0.0071			12-632	GELC

SAMPLE NAME	DATE	ANALYTE CODE	ANALYTE DESC	ANALYTICAL METHOD CODE	FIELD PREP CODE	RESULT	UNITS	LAB QUAL CODE	VALID QUAL CODE	MDL	MDA	UNCERT	REQUEST NUMBER	LAB CODE
Well R-66	1/20/12	74-83-9	Bromomethane	SW-846:8260B	UF	1	ug/L	U	U	0.3			12-632	GELC
Well R-66	1/20/12	74-87-3	Chloromethane	SW-846:8260B	UF	1	ug/L	U	U	0.3			12-632	GELC
Well R-66	1/20/12	74-88-4	Iodomethane	SW-846:8260B	UF	5	ug/L	U	U	1.3			12-632	GELC
Well R-66	1/20/12	74-95-3	Dibromomethane	SW-846:8260B	UF	1	ug/L	U	U	0.3			12-632	GELC
Well R-66	1/20/12	74-97-5	Bromochloromethane	SW-846:8260B	UF	1	ug/L	U	U	0.3			12-632	GELC
Well R-66	1/20/12	75-00-3	Chloroethane	SW-846:8260B	UF	1	ug/L	U	U	0.3			12-632	GELC
Well R-66	1/20/12	75-01-4	Vinyl Chloride	SW-846:8260B	UF	1	ug/L	U	U	0.5			12-632	GELC
Well R-66	1/20/12	75-05-8	Acetonitrile	SW-846:8260B	UF	25	ug/L	U	UJ	6.3			12-632	GELC
Well R-66	1/20/12	75-09-2	Methylene Chloride	SW-846:8260B	UF	10	ug/L	U	U	3			12-632	GELC
Well R-66	1/20/12	75-15-0	Carbon Disulfide	SW-846:8260B	UF	5	ug/L	U	U	1.3			12-632	GELC
Well R-66	1/20/12	75-25-2	Bromoform	SW-846:8260B	UF	1	ug/L	U	UJ	0.25			12-632	GELC
Well R-66	1/20/12	75-27-4	Bromodichloromethane	SW-846:8260B	UF	1	ug/L	U	U	0.25			12-632	GELC
Well R-66	1/20/12	75-34-3	Dichloroethane[1,1-]	SW-846:8260B	UF	1	ug/L	U	U	0.3			12-632	GELC
Well R-66	1/20/12	75-35-4	Dichloroethene[1,1-]	SW-846:8260B	UF	1	ug/L	U	U	0.3			12-632	GELC
Well R-66	1/20/12	75-69-4	Trichlorofluoromethane	SW-846:8260B	UF	1	ug/L	U	U	0.3			12-632	GELC
Well R-66	1/20/12	75-71-8	Dichlorodifluoromethane	SW-846:8260B	UF	1	ug/L	U	UJ	0.3			12-632	GELC
Well R-66	1/20/12	75-99-0	Dalapon	SW-846:8151A	UF	5.32	ug/L	U	U	1.3			12-632	GELC
Well R-66	1/20/12	76-13-1	Trichloro-1,2,2-trifluoroethane[1,1,2-]	SW-846:8260B	UF	5	ug/L	U	U	1			12-632	GELC
Well R-66	1/20/12	76-44-8	Heptachlor	SW-846:8081A	UF	0.0213	ug/L	U	U	0.0071			12-632	GELC
Well R-66	1/20/12	77-47-4	Hexachlorocyclopentadiene	SW-846:8270C	UF	10.3	ug/L	U	U	3.1			12-632	GELC
Well R-66	1/20/12	78-11-5	PETN	SW-846:8321A	UF	0.649	ug/L	U	U	0.13			12-632	GELC
Well R-66	1/20/12	78-30-8	Tris (o-cresyl) phosphate	SW-846:8321A	UF	1.3	ug/L	U	UJ	0.39			12-632	GELC
Well R-66	1/20/12	78-59-1	Isophorone	SW-846:8270C	UF	10.3	ug/L	U	U	3.1			12-632	GELC
Well R-66	1/20/12	78-83-1	Isobutyl alcohol	SW-846:8260B	UF	50	ug/L	U	UJ	13			12-632	GELC
Well R-66	1/20/12	78-87-5	Dichloropropane[1,2-]	SW-846:8260B	UF	1	ug/L	U	U	0.25			12-632	GELC
Well R-66	1/20/12	78-93-3	Butanone[2-]	SW-846:8260B	UF	5	ug/L	U	U	1.3			12-632	GELC
Well R-66	1/20/12	79-00-5	Trichloroethane[1,1,2-]	SW-846:8260B	UF	1	ug/L	U	U	0.25			12-632	GELC
Well R-66	1/20/12	79-01-6	Trichloroethene	SW-846:8260B	UF	1	ug/L	U	U	0.25			12-632	GELC
Well R-66	1/20/12	79-34-5	Tetrachloroethane[1,1,2,2-]	SW-846:8260B	UF	1	ug/L	U	U	0.25			12-632	GELC
Well R-66	1/20/12	8001-35-2	Toxaphene (Technical Grade)	SW-846:8081A	UF	0.532	ug/L	U	U	0.16			12-632	GELC
Well R-66	1/20/12	80-62-6	Methyl Methacrylate	SW-846:8260B	UF	5	ug/L	U	U	1			12-632	GELC
Well R-66	1/20/12	83-32-9	Acenaphthene	SW-846:8270C	UF	1.03	ug/L	U	U	0.31			12-632	GELC
Well R-66	1/20/12	84-66-2	Diethylphthalate	SW-846:8270C	UF	10.3	ug/L	U	U	3.1			12-632	GELC
Well R-66	1/20/12	84-74-2	Di-n-butylphthalate	SW-846:8270C	UF	10.3	ug/L	U	U	3.1			12-632	GELC
Well R-66	1/20/12	85-01-8	Phenanthrene	SW-846:8270C	UF	1.03	ug/L	U	U	0.31			12-632	GELC
Well R-66	1/20/12	85-68-7	Butylbenzylphthalate	SW-846:8270C	UF	10.3	ug/L	U	U	3.1			12-632	GELC
Well R-66	1/20/12	86-73-7	Fluorene	SW-846:8270C	UF	1.03	ug/L	U	U	0.31			12-632	GELC
Well R-66	1/20/12	87-61-6	Trichlorobenzene[1,2,3-]	SW-846:8260B	UF	1	ug/L	U	U	0.33			12-632	GELC
Well R-66	1/20/12	87-68-3	Hexachlorobutadiene	SW-846:8260B	UF	1	ug/L	U	U	0.3			12-632	GELC
Well R-66	1/20/12	87-68-3	Hexachlorobutadiene	SW-846:8270C	UF	10.3	ug/L	U	U	3.1			12-632	GELC
Well R-66	1/20/12	87-86-5	Pentachlorophenol	SW-846:8270C	UF	10.3	ug/L	U	U	3.1			12-632	GELC
Well R-66	1/20/12	88-06-2	Trichlorophenol[2,4,6-]	SW-846:8270C	UF	10.3	ug/L	U	U	3.1			12-632	GELC
Well R-66	1/20/12	88-72-2	Nitrotoluene[2-]	SW-846:8321A	UF	0.325	ug/L	U	U	0.11			12-632	GELC

SAMPLE NAME	DATE	ANALYTE CODE	ANALYTE DESC	ANALYTICAL METHOD CODE	FIELD PREP CODE	RESULT	UNITS	LAB QUAL CODE	VALID QUAL CODE	MDL	MDA	UNCERT	REQUEST NUMBER	LAB CODE
Well R-66	1/20/12	88-74-4	Nitroaniline[2-]	SW-846:8270C	UF	10.3	ug/L	U	U	3.1			12-632	GELC
Well R-66	1/20/12	88-75-5	Nitrophenol[2-]	SW-846:8270C	UF	10.3	ug/L	U	U	3.1			12-632	GELC
Well R-66	1/20/12	88-85-7	Dinoseb	SW-846:8151A	UF	0.266	ug/L	U	U	0.088			12-632	GELC
Well R-66	1/20/12	88-85-7	Dinoseb	SW-846:8270C	UF	10.3	ug/L	U	U	3.1			12-632	GELC
Well R-66	1/20/12	90-12-0	Methylnaphthalene[1-]	SW-846:8270C	UF	1.03	ug/L	U	U	0.31			12-632	GELC
Well R-66	1/20/12	91-20-3	Naphthalene	SW-846:8260B	UF	1	ug/L	U	U	0.25			12-632	GELC
Well R-66	1/20/12	91-20-3	Naphthalene	SW-846:8270C	UF	1.03	ug/L	U	U	0.31			12-632	GELC
Well R-66	1/20/12	91-57-6	Methylnaphthalene[2-]	SW-846:8270C	UF	1.03	ug/L	U	U	0.31			12-632	GELC
Well R-66	1/20/12	91-58-7	Chloronaphthalene[2-]	SW-846:8270C	UF	1.03	ug/L	U	U	0.31			12-632	GELC
Well R-66	1/20/12	91-94-1	Dichlorobenzidine[3,3'-]	SW-846:8270C	UF	10.3	ug/L	U	U	3.1			12-632	GELC
Well R-66	1/20/12	924-16-3	Nitroso-di-n-butylamine[N-]	SW-846:8270C	UF	10.3	ug/L	U	UJ	3.1			12-632	GELC
Well R-66	1/20/12	92-87-5	Benzidine	SW-846:8270C	UF	10.3	ug/L	U	UJ	3.1			12-632	GELC
Well R-66	1/20/12	930-55-2	Nitrosopyrrolidine[N-]	SW-846:8270C	UF	10.3	ug/L	U	U	3.1			12-632	GELC
Well R-66	1/20/12	93-65-2	MCPP	SW-846:8151A	UF	53.2	ug/L	U	U	11			12-632	GELC
Well R-66	1/20/12	93-72-1	TP[2,4,5-]	SW-846:8151A	UF	0.266	ug/L	U	U	0.088			12-632	GELC
Well R-66	1/20/12	93-76-5	T[2,4,5-]	SW-846:8151A	UF	0.266	ug/L	U	U	0.088			12-632	GELC
Well R-66	1/20/12	94-74-6	MCPA	SW-846:8151A	UF	53.2	ug/L	U	U	12			12-632	GELC
Well R-66	1/20/12	94-75-7	D[2,4-]	SW-846:8151A	UF	0.266	ug/L	U	U	0.088			12-632	GELC
Well R-66	1/20/12	94-82-6	DB[2,4-]	SW-846:8151A	UF	0.266	ug/L	U	U	0.088			12-632	GELC
Well R-66	1/20/12	95-47-6	Xylene[1,2-]	SW-846:8260B	UF	1	ug/L	U	U	0.3			12-632	GELC
Well R-66	1/20/12	95-48-7	Methylphenol[2-]	SW-846:8270C	UF	10.3	ug/L	U	U	3.1			12-632	GELC
Well R-66	1/20/12	95-49-8	Chlorotoluene[2-]	SW-846:8260B	UF	1	ug/L	U	U	0.25			12-632	GELC
Well R-66	1/20/12	95-50-1	Dichlorobenzene[1,2-]	SW-846:8260B	UF	1	ug/L	U	U	0.25			12-632	GELC
Well R-66	1/20/12	95-50-1	Dichlorobenzene[1,2-]	SW-846:8270C	UF	10.3	ug/L	U	U	3.1			12-632	GELC
Well R-66	1/20/12	95-57-8	Chlorophenol[2-]	SW-846:8270C	UF	10.3	ug/L	U	U	3.1			12-632	GELC
Well R-66	1/20/12	95-63-6	Trimethylbenzene[1,2,4-]	SW-846:8260B	UF	1	ug/L	U	U	0.25			12-632	GELC
Well R-66	1/20/12	95-94-3	Tetrachlorobenzene[1,2,4,5]	SW-846:8270C	UF	10.3	ug/L	U	U	3.1			12-632	GELC
Well R-66	1/20/12	95-95-4	Trichlorophenol[2,4,5-]	SW-846:8270C	UF	10.3	ug/L	U	U	3.1			12-632	GELC
Well R-66	1/20/12	959-98-8	Endosulfan I	SW-846:8081A	UF	0.0213	ug/L	U	U	0.0071			12-632	GELC
Well R-66	1/20/12	96-12-8	Dibromo-3-Chloropropane[1,2-]	SW-846:8260B	UF	1	ug/L	U	UJ	0.3			12-632	GELC
Well R-66	1/20/12	96-18-4	Trichloropropane[1,2,3-]	SW-846:8260B	UF	1	ug/L	U	U	0.3			12-632	GELC
Well R-66	1/20/12	97-63-2	Ethyl Methacrylate	SW-846:8260B	UF	5	ug/L	U	U	1			12-632	GELC
Well R-66	1/20/12	98-06-6	Butylbenzene[tert-]	SW-846:8260B	UF	1	ug/L	U	U	0.25			12-632	GELC
Well R-66	1/20/12	98-82-8	Isopropylbenzene	SW-846:8260B	UF	1	ug/L	U	U	0.25			12-632	GELC
Well R-66	1/20/12	98-95-3	Nitrobenzene	SW-846:8321A	UF	0.325	ug/L	U	U	0.1			12-632	GELC
Well R-66	1/20/12	98-95-3	Nitrobenzene	SW-846:8270C	UF	10.3	ug/L	U	U	3.1			12-632	GELC
Well R-66	1/20/12	99-08-1	Nitrotoluene[3-]	SW-846:8321A	UF	0.325	ug/L	U	U	0.1			12-632	GELC
Well R-66	1/20/12	99-09-2	Nitroaniline[3-]	SW-846:8270C	UF	10.3	ug/L	U	U	3.1			12-632	GELC
Well R-66	1/20/12	99-35-4	Trinitrobenzene[1,3,5-]	SW-846:8321A	UF	0.325	ug/L	U	U	0.1			12-632	GELC
Well R-66	1/20/12	99-65-0	Dinitrobenzene[1,3-]	SW-846:8321A	UF	0.325	ug/L	U	U	0.1			12-632	GELC
Well R-66	1/20/12	99-87-6	Isopropyltoluene[4-]	SW-846:8260B	UF	1	ug/L	U	U	0.25			12-632	GELC
Well R-66	1/20/12	99-99-0	Nitrotoluene[4-]	SW-846:8321A	UF	0.649	ug/L	U	UJ	0.2			12-632	GELC
Well R-66	1/20/12	Xylene	Xylene[1,3-]+Xylene[1,4-]	SW-846:8260B	UF	2	ug/L	U	U	0.5			12-632	GELC

ENCLOSURE 3

Record of date, volume, and location of R-66 land application

ENV-RCRA-12-0085

LAUR-12-20344

U1200349

Date: APR 17 2012

Batch Number	Date of Application	Volume Applied (gallons)	Location of Application
PT1	3/13/2012	4,757	R-66 Land Application Zone
PT2	3/13/2012	4,757	R-66 Land Application Zone
PT3	3/13/2012	4,757	R-66 Land Application Zone
PT4	3/13/2012	4,757	R-66 Land Application Zone
PT5	3/13/2012	4,757	R-8 Land Application Zone
PT6	3/13/2012	4,757	R-8 Land Application Zone
PT7	3/13/2012	4,757	R-8 Land Application Zone
PT8	3/14/2012	4,757	R-66 Land Application Zone
PT9	3/14/2012	4,757	R-66 Land Application Zone
PT10	3/14/2012	4,757	R-8 Land Application Zone
PT11	3/14/2012	4,757	R-8 Land Application Zone
PT12	3/14/2012	4,757	R-9 Land Application Zone
PT13	3/14/2012	4,757	R-9 Land Application Zone
PT14	3/15/2012	4,757	R-66 Land Application Zone
PT15	3/15/2012	4,757	R-66 Land Application Zone
PT16	3/15/2012	2,378	R-66 Land Application Zone
PT17	3/15/2012	4,757	R-8 Land Application Zone
PT18	3/15/2012	4,757	R-8 Land Application Zone
PT19	3/15/2012	4,757	R-9 Land Application Zone
TOTAL VOLUME DISCHARGED:		88,004	

ENCLOSURE 4

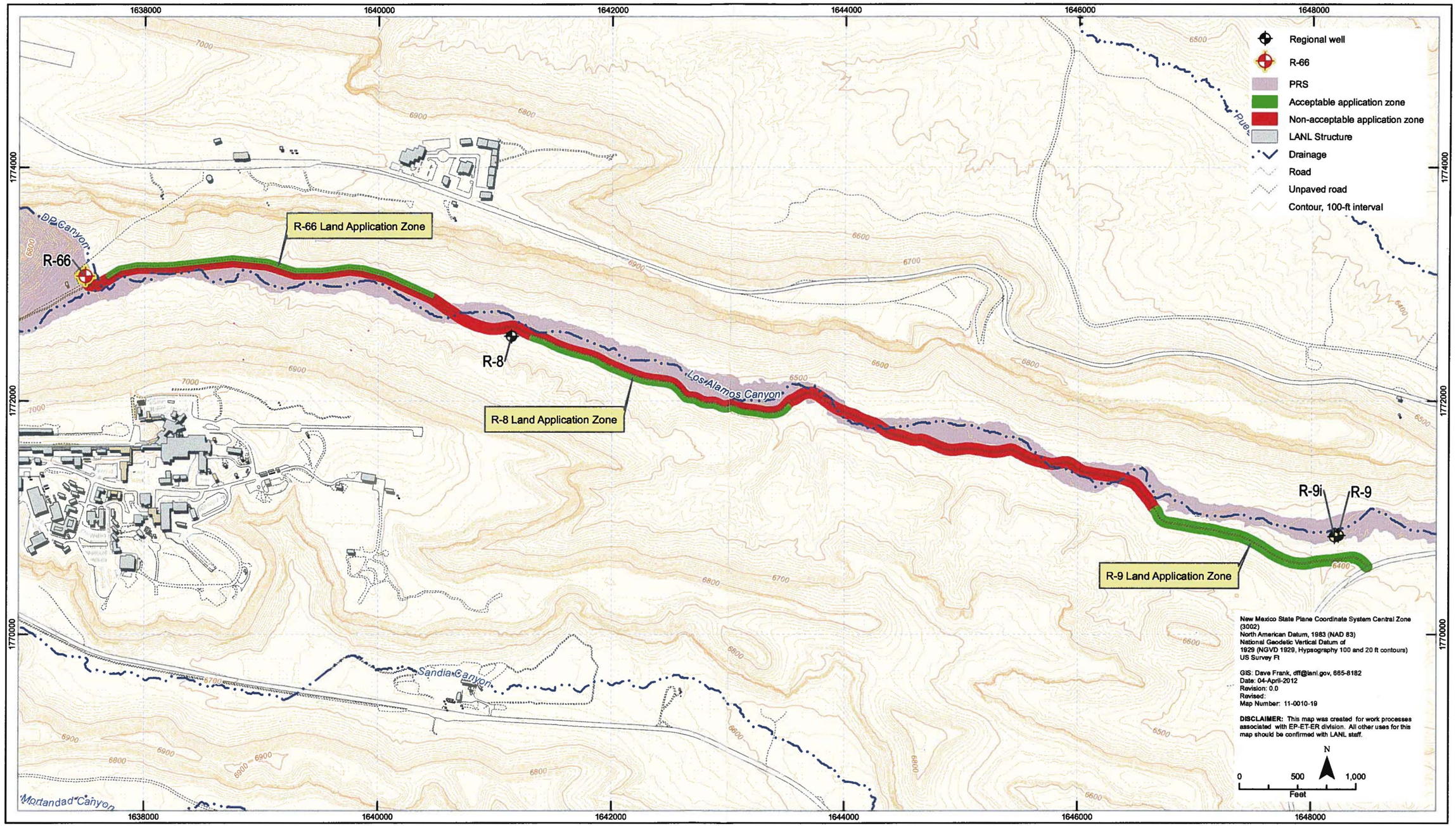
Map showing the locations of land applied groundwater from R-66

ENV-RCRA-12-0085

LAUR-12-20344

U1200349

Date: APR 17 2012


1638000
1640000
1642000
1644000
1646000
1648000
1774000
1772000
1770000
Regional well
R-66
PRS
Acceptable application zone
Non-acceptable application zone
LANL Structure
Drainage
Road
Unpaved road
Contour, 100-ft interval
DP Canyon
R-66
R-66 Land Application Zone
R-8
R-8 Land Application Zone
Los Alamos Canyon
R-9i
R-9
R-9 Land Application Zone
Sandia Canyon
Mortandad Canyon
New Mexico State Plane Coordinate System Central Zone (3002)
North American Datum, 1983 (NAD 83)
National Geodetic Vertical Datum of 1929 (NGVD 1929, Hypsography 100 and 20 ft contours)
US Survey Ft
GIS: Dave Frank, dff@lanl.gov, 665-8182
Date: 04-April-2012
Revision: 0.0
Revised:
Map Number: 11-0010-19
DISCLAIMER: This map was created for work processes associated with EP-ET-ER division. All other uses for this map should be confirmed with LANL staff.
N
0 500 1,000
Feet