Department of Energy
Field Office, Albuquerque
Los Alamos Area Office
Los Alamos, New Mexico 87544

APR. 3 1995

Mr. Edward Kelley, Director
Water and Waste Management Division
New Mexico Environment Department
1190 St. Francis Drive
Santa Fe, NM 87502

Dear Mr. Kelley:

Subject: Transmittal of NMHWA Compliance Order 95-03 Ten-Day Response

On behalf of the University of California and the Department of Energy (DOE), this letter transmits the *"Initial LANL Response to 10-day Ordered Actions, NMED March 22, 1995 Compliance Order 95-03"* to the New Mexico Environment Department (NMED). This is being submitted on April 6, 1995 by DOE and the Los Alamos National Laboratory (LANL) in response to the New Mexico Environment Department's Compliance Order 95-03 (hereinafter referred to as the "Order"). Note that LANL officially received the Order on March 24, 1995.

In response to the Order, LANL has performed the corrective actions required to be completed within five and ten working days, as stated on page 11 of the Order. While we are reserving our right to admit or deny the allegations referenced in the Order, we are providing documents responsive to the ten day Ordered Actions, namely:

Within ten (10) working days from the receipt of this Order, submit copies of the required documents noted in paragraph 56, 66, and 67 to the Complainant.

Within ten (10) working days from the receipt of this Order, submit documentation that proves the "knowledge of process" claimed regarding the wastes noted in paragraph 73 or submit a revised waste analysis plan which addresses the wastes noted.

A set of documents is enclosed herewith in response to each of the conclusions 56, 66, 67, and 73. Each set of documents is identified by finding number and conclusion number, and is prefaced by a brief description of the contents of the package.

16644

Please contact Jon Mack at (505) 665-5026 or Paul Schumann at (505) 667-5840 if you have any questions regarding this document.

Sincerely,

Joseph C. Vozella
Acting Assistant Area Manager
Office of Environment and Projects

LAAMEP:5JV-014

Enclosures

cc w/o enclosures:
J. Mack, AAMEP, LAAO
J. Nunz, AAMEP, LAAO
D. Erickson, ESH-DO, LANL, MS-K491
M. Devaurs, ER/WM, LANL, MS-J552
J. White, ESH-19, LANL, MS-K490
J. Rochelle, LC-GEN, LANL, MS-A183
A. Grieggs, ESH-19, LANL, MS-K498
P. Schumann, ESH-19, LANL, MS-K498
ESH-19 Group File, LANL, MS-K490
T. Sena, EPD, AL
R. Nevarez, WMD, AL

State of New Mexico
ENVIRONMENT DEPARTMENT
Hazardous & Radioactive Materials Bureau
525 Camino De Los Marquez
P.O. Box 26110
Santa Fe, New Mexico 87502
(505) 827-4358
Fax (505) 827-4361

Gary E. Johnson
Governor

Mark E. Weidler
Secretary

Edgar T. Thornton, II
Deputy Secretary

CERTIFIED MAIL -- RETURN RECEIPT REQUESTED

March ~~20~~ 22, 1995

Earl Bean, Area Manager
U.S. Department of Energy
Los Alamos Area Office
Los Alamos, NM 87544

Seigfried S. Hecker, Director
Los Alamos National Laboratory
P.O. Box 1663
MSK 490
Los Alamos, NM 87545

Dear Mr. Bean and Mr. Hecker:

RE: Compliance Order - NM0890010515

The Hazardous and Radioactive Materials Bureau of the New Mexico Environment Department (NMED) issues the enclosed Compliance Order to the U.S. Department of Energy (DOE) and the Regents of the University of California (Regents), pursuant to the New Mexico Hazardous Waste Act, NMSA 1978 §74-4-10 (Repl. Pamp. 1993). The Compliance Order states that Los Alamos National Laboratory (LANL) has failed to comply with the New Mexico Hazardous Waste Management Regulations (HWMR-7). The violations are specifically set out in the Compliance Order.

The Compliance Order sets forth a schedule of compliance required of LANL as well as an assessment of penalties. DOE and the Regents may be subject to additional civil penalties of up to $25,000 for each day of noncompliance with the Compliance Order, as set forth in §74-4-10 NMSA 1978.

Any inquiries concerning this Compliance Order should be directed to Coby Muckelroy, RCRA Enforcement/Inspection Program Manager, Hazardous and Radioactive Materials Bureau, New Mexico Environment Department, at (505) 827-4308.

Sincerely,

Ed Kelley

Ed Kelley, Director
Water and Waste Management Division

cc: Benito Garcia, Bureau Chief, H&RMB
Coby Muckelroy, RCRA Program Manager, H&RMB
Lourdes Monserrat, Office of General Counsel, NMED
NMED District II Office

STATE OF NEW MEXICO
ENVIRONMENT DEPARTMENT

IN THE MATTER OF
THE UNITED STATES DEPARTMENT OF ENERGY
AND REGENTS OF THE UNIVERSITY OF CALIFORNIA
LOS ALAMOS, NEW MEXICO,

RESPONDENTS.

COMPLIANCE ORDER
NMHWA 95-03

COMPLIANCE ORDER AND CIVIL PENALTY

This Administrative Order (Order) is issued to the United States Department of Energy and the Regents of the University of California (Respondents) pursuant to the New Mexico Hazardous Waste Act (HWA), NMSA 1978 §74-4-10 (Repl. Pamp. 1993). The authority to issue this Order has been delegated by the Secretary of the New Mexico Environment Department (NMED) to the Director of the Water and Waste Management Division (Complainant).

FINDINGS

1. Complainant is the agency within the executive branch of the New Mexico state government charged with administration and enforcement of the New Mexico Hazardous Waste Act §§74-4-1 et seq.

2. Respondents are the U.S. Department of Energy (DOE) and the Regents of the University Of California(UC).

3. DOE is an agency of the federal government and the owner and a co-operator of Los Alamos National Laboratory (LANL).

4. UC is a public educational institution of the State of California and the management and operating contractor for LANL pursuant to a contract with DOE, and is a co-operator of LANL.

5. LANL is principally located in Los Alamos County, New Mexico, approximately sixty (60) miles northeast of Albuquerque and twenty-five (25) miles northwest of Santa Fe. The LANL site encompasses approximately forty-three (43) square miles.

6. LANL was chosen in 1942 as the site for the wartime development of the atomic bomb. The facility was established as a military reservation, and operations began in 1943. Since 1943, the primary mission of LANL has been nuclear weapons research and development. In addition, the facility does work in magnetic and inertial fusion, nuclear fission, nuclear safeguards and security, laser isotope separation, and medical isotope development.

7. In association with the activities identified above, LANL generates, treats, and stores hazardous wastes and mixed hazardous and radioactive wastes.

8. On September 14-22, 1994, NMED inspectors John Tymkowych, James Seubert, Michael Le Scouarnec, and Frank Sanchez conducted a hazardous waste inspection (inspection) at LANL.

9. At the time of the inspection, at TA-3, Bldg. 38, in the paint booth in Room 103, one (1) five gallon pail of paint related hazardous waste was not labeled with the words "Hazardous Waste" or other words that identify the contents.

10. At the time of the inspection, at the TA-3, Bldg. SM-43, Rooms C-4 and C-4A satellite accumulation points, two (2) five gallon containers holding spent photographic fixer, a hazardous waste, were not labeled with the words "Hazardous Waste" or other words that identify the contents.

11. At the time of the inspection, at the TA-3, Bldg. 132, Room 260-A where spent kerosene hazardous waste is accumulated in a Cal-Corp machine, at least four (4) one quart containers were not labeled with the words "Hazardous Waste" or other words that identify the contents.

12. At the time of the inspection, at the TA-9, Bldg. 21, Room 121 satellite accumulation point, approximately seventy 50 ml vials of hazardous waste were not labeled with the words "Hazardous Waste" or other words that identify the contents.

13. At the time of the inspection, at the TA-61, Bldg. 23 satellite accumulation point, at least 5 containers holding hazardous waste were not labeled with the words "Hazardous Waste" or other words that identify the contents.

14. At the time of the inspection, at the TA-3, Bldg. 32, Room 104 satellite accumulation point, a one liter bottle of spent anodizing dye was found labeled pending analysis. The analysis request for this spent material was dated 6/9/93.

15. At the time of the inspection, at the TA-3, Bldg. 38, outside of Room 105 near the loading dock, one (1) 55 gallon container was found holding the contents from an adjacent sump. No effort by Respondents to perform a hazardous waste determination on the contents had been made.

16. At the time of the inspection, at the TA-55, Bldg. PF-4 storage area, a five gallon container was found with unknown contents. No effort by Respondents to perform a hazardous waste determination on the contents had been made.

17. At the time of the inspection, at the TA-16, Bldg. 207 satellite accumulation point, two 55 gallon containers marked as "acetone", one 55 gallon container marked "MEK", one 30 gallon container with unknown contents, one 5 gallon container marked as "chloroform", one box labeled "marking ink", one box marked electroetching solution pH 0.5, and one 2 gallon container marked "kodak developer", were found. The wastes have been present in the area for over one year and the process generator of these wastes is not known. The current operator of this area could not confirm that the markings on the containers identified the contents and no effort by Respondents to perform a hazardous waste determination on the contents had been made.

18. At the time of the inspection, at the TA-3, Bldg. 34, Room B14 satellite accumulation point, rags and gloves contaminated with silver, methanol, and acetone were found. No record of Respondents' performance of a hazardous waste determination of this waste stream was made available.

19. At the time of the inspection, at the TA-48, Bldg. RC-46, Room 101 satellite accumulation point, a plastic container holding acid contaminated wipes, a hazardous waste, was found open.

20. At the time of the inspection, at the TA-21, Bldg. 152, Room 5201 satellite accumulation point, a container holding hazardous waste was found open.

21. At the time of the inspection, at the TA-59, CST-9, Room 116 satellite accumulation point, a plastic container holding solvent contaminated lab trash, a hazardous waste, was found open.

22. At the time of the inspection, the TA-21, Bldg. 3, Room 362 satellite accumulation point which is located outside of the building in a separate building at least 100 feet away, was not under the control of the process generator. Specifically, a container of hazardous waste was found sitting on top of the storage cabinet when it should have been inside the locked cabinet.

23. At the time of the inspection, the TA-51, Northeast corner Field Site satellite accumulation point which is located over 500 feet from the generator, was not under the control of the

process generator. Specifically, a container with approximately 15 gallons of contaminated gasoline, a hazardous waste, was not secured in any way to prevent unauthorized handling.

24. At the time of the inspection, at the TA-9, Bldg. 39 Transportainer <90 day storage area, two (2) containers of hazardous waste were not labeled with the words "Hazardous Waste".

25. At the time of the inspection, at the TA-9, Bldg. 39 Magazine <90 day storage area, three (3) containers of hazardous waste were not labeled with the words "Hazardous Waste".

26. At the time of the inspection, at the TA-3, Bldg. 132, Room 187 <90 day storage area, two (2) containers of hazardous waste were found that did not have accumulation start dates on them.

27. At the time of the inspection, at the TA-59, CST-9, South Lot <90 day storage area, a container of hazardous waste was found that did not have the accumulation start date on it.

28. At the time of the inspection, at the TA-60, O-Sigma <90 day storage area, at least four (4) fifty-five gallon containers were found and Respondents could not produce documentation which could verify the contents of the containers and their accumulation start dates.

29. At the time of the inspection, at the TA-3, Bldg. SM-30, Southwest parking lot <90 day storage area, five (5) fifty-five gallon containers were found and Respondents could not produce documentation which could verify the contents of the containers and their accumulation start dates.

30. At the time of the inspection, at the TA-3, Bldg. SM-2133 <90 day storage area, the required decontamination equipment was not found. Specifically, there was no eye wash or shower unit in or near the area, nor was there any water of adequate volume in close proximity. The nearest available water source for decontamination was over 300 feet away inside a building.

31. At the time of the inspection, at the TA-52, Bldg. 122 <90 day storage area, the required decontamination equipment was not found. Specifically, there was no eye wash or water of adequate volume in close proximity. The nearest available water and decontamination equipment was on a trailer over 100 feet but less than 200 feet away.

32. At the time of the inspection, at the TA-55, Pad 4 storage area, the required decontamination equipment was not found. Specifically, there was no eye wash or water of adequate volume in close proximity. The nearest available water was over 200 feet away.

33. At the time of the inspection, at the TA-55, Pad 4 storage area, a container storing spent light bulbs contaminated with mercury, a hazardous waste, did not have the accumulation start date on it.

34. At the time of the inspection, upon information and belief, LANL employees Peter Velarde and Robert Garcia who work at TA-16 had not received the required annual hazardous waste training in over seven months.

35. At the time of the inspection, upon information and belief, at the TA-16, Bldg. O, S-site Burning Ground, the required physical and chemical analysis on hazardous wastes prior to thermal treatment has not been performed.

36. At the time of the inspection, upon information and belief, at the TA-54, Area G storage area, LANL employee Andrew Vigil who works at TA-54, had not received the required first aid training on 9/16/94 as required by the facility operating permit.

37. On August 2-12, 1993, May 4-8, 1992, April 29 to May 3, 1991, March 5-9 1990, and August 7-11, 1989, Complainant conducted hazardous waste inspections of Respondents' facility. During these inspections, violations concerning failure to keep containers of hazardous waste closed, failure to mark containers of hazardous waste as to their contents, failure to keep hazardous waste under the control of the operator generating the waste, failure to provide adequate decontamination equipment, failure to conduct adequate hazardous waste determinations, failure to provide required hazardous waste training, and failure to mark containers with accumulation start dates along with other violations, were noted. These violations were set forth in either Compliance Orders issued as a result of the August '93 and May '92 inspections, or in Notices of Violation issued as a result of the May '91, March '90, and August '89 inspections.

CONCLUSIONS

38. Respondents are a "person" as defined at §74-4-3.K. of HWA, and §101 of Hazardous Waste Management Regulations ("HWMR-7"), which, with a few exceptions, incorporates federal regulation 40 CFR §260.10.

39. Respondents are a "generator" as defined at §74-4-3.F. of HWA, and §101 of HWMR-7, which, with a few exceptions, incorporates federal regulation 40 CFR §260.10.

40. Respondents generate "hazardous waste" as defined at §74-4-3.I. of HWA, and §101 of HWMR-7, which, with a few exceptions, incorporates federal regulation 40 CFR §260.10.

41. Respondent DOE is an "owner" of an "existing hazardous waste management facility" as those terms are defined at §101 of HWMR-7, which with a few exceptions, incorporates federal regulation 40 CFR §260.10.

42. Respondent UC is an "operator" of an "existing hazardous waste management facility" as those terms are defined at §101 of HWMR-7, which, with a few exceptions, incorporates federal regulation 40 CFR §260.10.

43. Respondents engage in the "disposal", "storage", and/or "treatment" of hazardous waste as defined at §74-4-3.C.,N., and Q. respectively, of HWA, and §101 of HWMR-7, which, with few exceptions, incorporates federal regulation 40 CFR §260.10.

44. Respondents store hazardous waste in "containers" as defined at §101 of HWMR-7, which, with few exceptions, incorporates federal regulation 40 CFR §260.10.

45. Certain of Respondents hazardous waste management units may not have "interim status" as legally defined under NMSA 1978, §74-4-9 (Repl. Pamp. 1993) and HWMR-7, §901, which incorporates by reference federal regulations 40 CFR Part 270, and are not operating under a permit. HWMR-7, §601, which incorporates 40 CFR 265, governs hazardous waste management units that have interim status. HWMR-7, §501, which incorporates federal regulation 40 CFR §264, governs hazardous waste management units which are permitted and do not have interim status.

46. §301 of HWMR-7, which incorporates federal regulation 40 CFR §262.10(a), makes the regulations in Part 262 (Standards Applicable to Generators of Hazardous Waste) applicable to Respondents, and Respondents have violated regulations in Part 262 as specified below. §501 of HWMR-7, which incorporates federal regulation 40 CFR §264.10(a), makes the regulations in Part 264 (General Facility Standards) applicable to Respondents, and Respondents have violated regulations in Part 264 as specified below. §601 of HWMR-7, which incorporates federal regulation 40 CFR §265.10, makes the regulations in Part 265 (General Facility Standards), applicable to Respondents, and Respondents have violated regulations in Part 265 as specified below. §801 of HWMR-7, which incorporates federal regulation 40 CFR §268.1(a), makes the regulations in Part 268 (Land Disposal Restrictions) applicable to the Respondents, and Respondents have violated regulations in Part 268 as specified below.

47. Respondents have failed to label a container of hazardous waste with the words "Hazardous Waste" or other words that identify the contents at the TA-3, Bldg. 38, Room 103 paint booth. This is in violation of §301 of HWMR-7, which incorporates 40 CFR §262.34 (c)(1)(ii).

48. Respondents have failed to label two containers of hazardous waste with the words "Hazardous Waste" or other words that identify the contents at the TA-3, Bldg. SM-43, Rooms C-4 and C-4A satellite accumulation points. This is in violation of §301 of HWMR-7, which incorporates 40 CFR §262.34(c)(1)(ii).

49. Respondents have failed to label at least four (4) one quart containers in the Cal-Corp machine with the words "Hazardous Waste" or other words that identify the contents at TA-3, Bldg. 132, Room 260-A. This is in violation of §301 of HWMR-7, which incorporates 40 CFR §262.34(c)(1)(ii).

50. Respondents have failed to label approximately 70 vials of hazardous waste with the words "Hazardous Waste" or other words that identify the contents at the TA-9, Bldg. 21, Room 121 satellite accumulation point. This is in violation of §301 of HWMR-7, which incorporates 40 CFR § 262.34(c)(1)(ii).

51. Respondents have failed to label at least five (5) containers of hazardous waste with the words "Hazardous Waste" or other words that identify the contents at the TA-61, Bldg. 23 satellite accumulation point. This is in violation of §301 of HWMR-7, which incorporates 40 CFR §262.34(c)(1)(ii).

52. Respondents have failed to perform a hazardous waste determination on a one liter bottle of anodizing dye at the TA-3, Bldg. 32, Room 104 satellite accumulation point. This is in violation of §301 of HWMR-7, which incorporates 40 CFR §262.11.

53. Respondents have failed to perform a hazardous waste determination on the contents of a 55 gallon container at TA-3, Bldg. 38, outside of Room 105 near the loading dock. This is in violation of §301 of HWMR-7, which incorporates 40 CFR §262.11.

54. Respondents have failed to perform a hazardous waste determination on the contents of a 5 gallon container at the TA-55, Bldg. PF-4 storage area. This is in violation of §301 of HWMR-7, which incorporates 40 CFR §262.11.

55. Respondents have failed to perform a hazardous waste determination on the contents of at least six containers at the TA-16, Bldg. 207 satellite accumulation point. This is in violation of §301 of HWMR-7, which incorporates 40 CFR §262.11.

56. Respondents have failed to maintain records of hazardous waste determinations on rags and gloves contaminated with silver, methanol, and acetone at the TA-3, Bldg. 34, Room B14 satellite accumulation point. This is in violation of §301 of HWMR-7, which incorporates 40 CFR §262.40(c).

57. Respondents have failed to keep a hazardous waste container closed at the TA-48, Bldg. RC-46, Room 101 satellite accumulation point This is in violation of §301 of HWMR-7, which incorporates 40 CFR §262.34(c)(1)(i).

58. Respondents have failed to keep a hazardous waste container closed at the TA-21, Bldg. 152, Room 5201 satellite accumulation point. This is in violation of §301 of HWMR-7, which incorporates 40 CFR §262.34(c)(1)(i).

59. Respondents have failed to keep a hazardous waste container closed at the TA-59, CST-9, Room 116 satellite accumulation point. This is in violation of §301 of HWMR-7, which incorporates 40 CFR §262.34(c)(1)(i).

60. Respondents have failed to keep the satellite accumulation point at TA-21, Bldg. 3, Room 362, under the control of the process generator. This is in violation of §301 of HWMR-7, which incorporates 40 CFR §262.34(c)(1).

61. Respondents have failed to keep the satellite accumulation point at TA-51, Northeast Corner Field Site, under the control of the of the process generator. This is in violation of §301 of HWMR-7, which incorporates 40 CFR §262.34(c)(1).

62. Respondents have failed to label two containers of hazardous waste with the words "Hazardous Waste" at the TA-9, Bldg. 39, Transportainer <90 day storage area. This is in violation of §301 of HWMR-7, which incorporates 40 CFR §262.34(a)(3).

63. Respondents have failed to label three containers of hazardous waste with the words "Hazardous Waste" at the TA-9, Bldg. 39, Magazine <90 day storage area. This is in violation of §301 of HWMR-7, which incorporates 40 CFR §262.34(a)(3).

64. Respondents have failed to place the accumulation start date on two containers of hazardous waste at the TA-3, Bldg. 132, Room 187 <90 day storage area. This is in violation of §301 of HWMR-7, which incorporates 40 CFR §262.34(a)(2).

65. Respondents have failed to place the accumulation start date on a container of hazardous waste at the TA-59, CST-9, South Lot <90 day storage area. This is in violation of §301 of HWMR-7, which incorporates 40 CFR §262.34(a)(2).

66. Respondents have failed to maintain records of hazardous waste determinations for the waste stored at the TA-60, O-Sigma <90 day storage area. This is in violation of §301 of HWMR-7, which incorporates 40 CFR §262.40(c).

67. Respondents have failed to maintain records of hazardous waste determinations for the five (5) 55 gallon containers of waste at the TA-3, Bldg. SM-30, Southwest Parking Lot <90 day storage area. This is in violation of §301 of HWMR-7, which incorporates 40 CFR §262.40(c).

68. Respondents have failed to provide the required decontamination equipment at the TA-3, Bldg. SM-2133 <90 day storage area as specified in ¶31. This is in violation of §301 of HWMR-7, which incorporates 40 CFR §262.34(a)(4).

69. Respondents have failed to provide the required decontamination equipment at the TA-52, Bldg. 122 <90 day storage area as specified in ¶31. This is in violation of §301 of HWMR-7, which incorporates 40 CFR §262.34(a)(4).

70. Respondents have failed to provide the required decontamination equipment at the TA-55, Pad 4 storage area as specified in ¶32. This is in violation of §601 of HWMR-7, which incorporates 40 CFR §265.32(c) or §501 of HWMR-7, which incorporates 40 CFR §264.32(c).

71. Respondents have failed to place the accumulation start date on a container at the TA-55, Pad 4 storage area as specified in ¶33. This is in violation of §801 of HWMR-7, which incorporates 40 CFR §268.50(a)(2)(i).

72. Respondents have failed to provide the required training for LANL employees Peter Velarde and Robert Garcia at TA-16. This is in violation of §601 of HWMR-7, which incorporates 40 CFR §265.16(c) or §501 of HWMR-7, which incorporates 40 CFR 264.16(c).

73. Respondents have failed to perform the required physical and chemical analysis on hazardous wastes prior to thermal treatment at the TA-16, Bldg. O, S-site burning ground. This is in violation of §601 of HWMR-7, which incorporates 40 CFR §265.13(a) or §501 of HWMR-7, which incorporates 40 CFR §264.13(a).

74. Respondents have failed to provide the required training for LANL employee Andrew Vigil at the TA-54, Area G storage area. This is in violation of Module II, Section F of LANL's permit.

Respondents have adequately addressed the violations noted in paragraphs 47 through 51, 57 through 65, 72 and 74. No further action is required by the Respondents regarding these violations.

NOTICE

If you fail to take the corrective actions within the time specified in the Order, the Secretary may assess a civil penalty of not more than twenty-five thousand dollars ($25,000) for each day of continued noncompliance with the Order, pursuant to §74-4-10.C. of HWA.

NOTICE OF OPPORTUNITY TO ANSWER AND REQUEST A HEARING

Where Respondents (a) contest any material fact or legal matter upon which the Order is based; (b) contend the amount of the penalty proposed is inappropriate; (c) contend that Respondents are entitled to prevail as a matter of law; or (d) otherwise contest the appropriateness of the Order, Respondents shall file a written Request for Hearing, a copy of the Order, and an answer to the Order with the Hearing Clerk within thirty (30) calendar days after service of the Order. The answer must clearly and directly identify, with specificity, what Respondents are appealing.

The answer shall clearly and directly admit or deny, with explanation, each factual allegation contained in the Order with regard to which Respondents have any knowledge. Where Respondents have no knowledge of a particular factual allegation and so state, the allegation may be denied on that basis. Any allegation of the Order not specifically denied shall be deemed admitted. The answer shall also state (1) the circumstances or arguments which are alleged to constitute the grounds of defense; (2) any affirmative defenses upon which Respondents intend to rely; (3) the facts which Respondents intend to place at issue; and (4) whether a hearing is requested. A hearing upon the issues raised by the Order and answer shall be held upon the request of the Respondents.

The Hearing Clerk's address is:

Roberta Lopez, Hearing Clerk
P.O. Box 26110
1190 St. Francis Drive
Harold Runnels Building, S-4100
Santa Fe, New Mexico, 87502
(505) 827-2850

FINALITY OF ORDER

The Order shall become final unless Respondents file a written Request for Hearing with an answer within thirty (30) calendar days of the service of this Order. For purposes of this action, failure by the Respondents to file an answer constitutes as admission of all facts alleged in the Order and a waiver of Respondents right to a hearing under §74-4-10 of HWA concerning such factual allegations.

SETTLEMENT CONFERENCE

Whether or not Respondents request a hearing, Respondents may confer with Complainant concerning settlement. A request for a settlement conference does not extend the thirty (30) day period during which the written answer and a Request for Hearing must be submitted. A settlement conference may be pursued as an alternative to and simultaneously with the hearing proceedings. Respondents may appear at the settlement conference themselves and/or be represented by counsel.

Any settlement reached by the parties shall be finalized by written Order by the Secretary of NMED. The issuance of such an Order shall constitute a waiver of Respondents right to request a hearing on any such matter stipulated therein.

To explore the possibility of settlement in this matter, Contact Mr. Coby Muckelroy, of the Environment Department, P.O. Box 26110, 525 Camino de Los Marquez, Suite 4, Santa Fe, New Mexico, 87502, telephone number 827-4308.

Compliance with the requirements of this Order does not relieve Respondents of their obligation to comply with all applicable laws and regulations.

The Order shall terminate when Respondents certify that all requirements of this Order have been completed, and NMED has approved such certification.

MARK WEIDLER, SECRETARY

22 March 1995
DATE

By: Ed Kelley
ED KELLEY, Director
Water and Waste Management
Division

CERTIFICATE OF SERVICE

I hereby certify that the foregoing Administrative Order Requiring Compliance was mailed postage prepaid as follows on this 22 day of March, 1995 to the following:

Via Certified Mail, Return Receipt Requested:

Earl Bean, Area Manager
Department of Energy
Los Alamos Area Office
Los Alamos, NM 87544

Seigfried S. Hecker, Director
Los Alamos National Laboratory
P.O. Box 1663
Los Alamos, NM 87545

Lourdes Monserrat
LOURDES MONSERRAT

FACILITY NAME: LANL

EPA ID NUMBER: NMD 089001051 5

265 SUBPART G - CLOSURE AND POST-CLOSURE

Closure Performance Standards (265.111)

1. Have all active portions of the facility undergone closure? ___ Yes___No

   If yes,

   a. Has the owner/operator minimized the need for further maintenance? ___ Yes___No

   b. Are there controls to minimize or eliminate leachate, run-off, or contamination to the groundwater? ___ Yes___No

Closure Plan and Amendments (265.112)

1. Does the plan include the following:

   i. A description of how each hazardous waste management facility will be closed? ✓ Yes___No

   ii. A description of how final closure will be conducted in accordance with 265.111? ✓ Yes___No

   iii. An up-to-date estimate of the maximum inventory of wastes ever on site over the life of the facility? ✓ Yes___No

   If yes,

   A. Does it include a detailed description of the methods to be used during partial and final closure and; ✓ Yes___No

   B. Methods for removing, transporting, treating, or disposing of all hazardous wastes? ✓ Yes___No

   iv. A detailed description of the steps needed to remove or decontaminate all hazardous waste residues and contaminated containment system components, equipment, structures, and soils? ✓ Yes___No

FACILITY NAME:_____

EPA ID NUMBER:_____

v. A schedule for closure of each hazardous waste management unit? ✓Yes___No

vi. An estimate of expected year of closure? (not applicable to federal, state, or local facilities) ✓Yes___No

2. Does the plan include a schedule for final closure? ✓Yes___No

If yes, does it include:

a. Time estimates for each phase of closure for each area? ✓Yes___No

b. Total time estimate for closure? ✓Yes___No

3. Has the plan been amended as necessary to reflect changes in facility operations or design? ✓Yes___No

If yes,

a. Were the plans amended 60 days prior to change in facility design or operation? ✓Yes___No

4. Have closure activities begun at the facility? ✓Yes___No

If yes,

a. Was the closure plan submitted to the Regional Administrator at least 180 days prior to beginning these activities? ✓Yes___No

b. Were all wastes treated or disposed of within 30 days of the final receipt of wastes? ___Yes ✓No

need for the 90 day storage (89th day) ⇒ taking to TA-54 Area L. recently ~~stop~~ shipped offsite

5. Did actual closure activities correspond to those written in the closure plan? ✓Yes___No

Attach a copy of the most current Closure Plan.

description of variances w/in closure plan.

* - something in schedule that wasn't met
site restoration w/10 days. Not completed for
that 30 days as had to schedule backhoe.

FACILITY NAME:_____

EPA ID NUMBER:_____

Time Allowed for Closure (265.113)

1. Was closure completed within 180 days of receipt of final volume of wastes? ___Yes___No n/a

   If no, explain.

Disposal or Decontamination of Equipment, Structures, and Soil (265.114)

1. Were all equipment, structures, and soil disposed or decontaminated properly during partial, or complete closure of the facility? ✓ Yes___No

   If yes,

   a. Did the owner/operator treat residues and discarded, contaminated equipment as hazardous waste? ✓ Yes___No

   if soil sample proved hazardous waste, PPE and other equipment was disposed of as such.

Certification of Closure (265.115)

1. Within 60 days of final closure, did the facility submit a certification of closure to the Regional Administrator? ✓ Yes___No

   If yes,

   a. Was it signed by both the owner/operator and an independent, registered professional engineer? ✓ Yes___No

   signed by P. Scott Don-Baxo (IT Inc.)

Survey Plat (265.116)

1. Upon certification of closure, did the owner/operator submit a survey plat which indicates the location of all hazardous waste disposal units? ✓ Yes___No

   If yes,

   a. Was this plat prepared and certified by a professional land surveyor? ___Yes___No

FACILITY NAME:_____

EPA ID NUMBER:_____

Note: The remainder of this checklist is applicable only to facilities with hazardous waste land disposal units (i.e. landfills, surface impoundments, etc...).

Post-Closure Care and Use of Property (265.117)

1. Are there any hazardous waste management units which have been certified closed and undergoing post-closure care? ___Yes___No

   If yes,

   a. Is the facility on a 30-day post-closure care schedule? ___Yes___No

      If no,

      i. Did the Regional Administrator grant a variance? ___Yes___No

      If yes,

      i. Indicate the length of the approved variance:

      _____

      ii. Indicate how long post-closure care has occurred:

      _____

2. Has the area undergoing post-closure care been disturbed by other than post-closure care activities? ___Yes___No

   If yes, explain

Post-Closure Plan (265.118)

1. Does the facility have a post-closure plan? ___Yes___No

FACILITY NAME:_____

EPA ID NUMBER:_____

If yes,

a. Does the plan include:

i. A description of planned groundwater monitoring activities and frequencies? ___Yes___No

ii. A description of planned maintenance activities and frequencies to ensure the following:

A. Integrity of cap, final cover or other containment? ___Yes___No

B. Proper function of groundwater monitoring equipment? ___Yes___No

iii. Name, address and phone number of facility contact for post-closure activities? ___Yes___No

2. Has the plan been amended, during the operating life of the facility, to reflect changes in operation or design? ___Yes___No

Give a summary of planned post-closure activities.

3. Has a notation been made on the deed to the property to show that the land has been used to manage hazardous wastes and that further use must not disturb the integrity of post-closure maintenance? ___Yes___No

4. Have post-closure activities begun at the facility? ___Yes___No

If yes,

a. Do these activities correspond to planned activities written in the post-closure plan? ___Yes___No

FACILITY NAME:_____

EPA ID NUMBER:_____

Post-Closure Notices (265.119)

1. Have changes in monitoring or maintenance events during the post-closure period necessitated changes in the plan? ___Yes___No

   If yes,

   i. Was a petition filed with the Regional Administrator? ___Yes___No

   ii. Has the facility received a written response from the Regional Administrator? ___Yes___No

Certification of Post-Closure Care Completion (265.120)

1. Has the owner/operator completed the post-closure care period? ___Yes___No

   If yes,

   a. Was a certification submitted to the Regional Administrator that the post-closure care period was performed according to the approved post-closure plan? ___Yes___No

   If yes,

   i. Was this certification signed by both the owner/operator and an independent, registered professional engineer? ___Yes___No

P.O. BOX 82178
BATON ROUGE, LOUISIANA 70884-2178

45008

PLEASE PRINT OR TYPE (Form designed for use on elite (pitch) typewriter.)

Form Approved. OMB No. 2050-0039. Expires 9-30-94

UNIFORM HAZARDOUS WASTE MANIFEST

1. Generator's US EPA ID No. NM0890015159000 — Manifest Document No.

2. Page 1 of

Information in the shaded areas is not required by Federal law.

3. Generator's Name and Mailing Address
In Emergency see box # 15
LOS ALAMOS NATIONAL LABORATORY
P.O. BOX 1663 MS J593
LOS ALAMOS, NM 87545-

4. Generator's Phone ( ) (505)667-7579 ATTN: DON OAKLEY

A. State Manifest Document Number LA AS264485

B. State Generator's ID

5. Transporter 1 Company Name: CUSTOM ENVIRONMENTAL TRANSPORT

6. US EPA ID Number: DED980918855

C. State Transporter's ID

7. Transporter 2 Company Name

8. US EPA ID Number

D. Transporter's Phone

9. Designated Facility Name and Site Address
ROLLINS ENVIRONMENTAL SERVICE (LA), INC.
13351 SCENIC HIGHWAY
BATON ROUGE, LA 70807

10. US EPA ID Number: LAD041039512 7

E. State Facility's ID

F. Facility's Phone

11. US DOT Description (Including Proper Shipping Name, Hazard Class, and ID Number)	12. Container No.	Type	13. Total Quantity	14. Unit Wt./Vol.
a. WASTE PAINT RELATED MATERIAL, 3, UN1263, PG II, RQ (D001)	001	DM	0039	P
b. NON-REGULATED WASTE, LIQUID	003	DE	0049	P
c. NON-REGULATED WASTE, LIQUID	007	DM	0021	P
d. NON-REGULATED WASTE, SOLID	002	DE	0001	P

J. Additional Descriptions for Materials Listed Above
11a) BR-033A00-05 D001
11b) BR-033A00-[illegible]
11c) BR-033A00-[illegible]
11d) BR-033A00-50

15. Special Handling Instructions and Additional Information
In case of emergency contact EM&R at (505)667-6211 and mention 'Labpack.' If undeliverable return to generator. If spilled in Louisiana contact the Department of Public Safety at (504)925-6595. Avoid ingestion, inhalation and skin contact. D.O.T. Emergency Response #'s 11a. 26 11b. 11c. 11d.

16. GENERATOR'S CERTIFICATION: I hereby declare that the contents of this consignment are fully and accurately described above by proper shipping name and are classified, packed, marked, and labeled, and are in all respects in proper condition for transport by highway according to applicable international and national government regulations.

If I am a large quantity generator, I certify that I have a program in place to reduce the volume and toxicity waste generated to the degree I have determined to be economically practicable and that I have selected the practicable method of treatment, storage, or disposal currently available to me which minimize the present and future threat to human health and the environment; OR, if I am a small quantity generator, I have made a good faith effort to minimize my waste generation and select the best waste management method that is available to me and that I can afford.

Printed/Typed Name: ALBERT STADELMAIER — Signature: Albert Stadelmaier — Month Day Year: 10/12/95

17. Transporter 1 Acknowledgement of Receipt of Materials
Printed/Typed Name: Wendell Gresham — Signature: Wendell Gresham — Month Day Year

18. Transporter 2 Acknowledgement of Receipt of Materials
Printed/Typed Name — Signature — Month Day Year

19. Discrepancy Indication Space

RECEIVED MAR 2 1995

20. Facility Owner or Operator: Certification of receipt of hazardous materials covered by this manifest except as noted in Item 19.
Printed/Typed Name: Don Armstrong — Signature — Month Day Year: 02/12/95

GENERATOR — TRANSPORTER — FACILITY

COPY 2

EPA Form 8700-22 k(Rev. 9/88) Previous edition is obsolete.

COPY 2: FACILITY TO GENERATOR
SIGNATURE AND INFORMATION MUST BE LEGIBLE ALL COPIES

DEQ FORM HW-3 (R 9/89)

6264485

Please print or type. (Form designed for use on elite (12 pitch) typewriter.)

Form Approved. OMB No. 2050-0039 Expires 9-30-94

UNIFORM HAZARDOUS WASTE MANIFEST

1. Generator's US EPA ID No. NM8900105159 | Manifest Document No. 50024

2. Page 1 of 2

Information in the shaded areas is not required by Federal law.

3. Generator's Name and Mailing Address
ATTN: DAN OAKLEY
Los Alamos National Laboratory
P.O. Box 1663 MS; J579
Los Alamos, NM 87545

4. Generator's Phone (505) 667-7579

A. State Manifest Document Number

B. State Generator's ID

5. Transporter 1 Company Name: Chemical Waste Management, INC.

6. US EPA ID Number: ILD099202681

C. State Transporter's ID

D. Transporter's Phone: 303-289-4827

7. Transporter 2 Company Name

8. US EPA ID Number

E. State Transporter's ID

F. Transporter's Phone

9. Designated Facility Name and Site Address
Chemical Waste Management, INC.
9131 East 96th Ave.
Henderson, CO. 80640

10. US EPA ID Number: COD980591184

G. State Facility's ID

H. Facility's Phone: 303-289-4827

	11. US DOT Description (Including Proper Shipping Name, Hazard Class and ID Number)	HM	12. Containers No.	Type	13. Total Quantity	14. Unit Wt/Vol	[redacted]
a.	Hazardous Waste, Liquid, N.O.S. 9, NA3082 PG. III RQ (D007, D008, D009)	X	01	DM	50	P	D008, D009
b.	Hazardous Waste Solid, N.O.S. 9, NA3077 PG. III (D008)	X	02	DM	157	P	D008
c.	Waste Flammable Solids, N.O.S. 4.1, UN1325, PG. III (Acetone, Petroleum, Naptha)	X	01	DM	109	P	D003
d.	Hazardous Waste Solid, N.O.S. 9, NA3077 PG. III RQ (D006, D007, D008)	X	01	DM	100	P	D005, D006, D007, D008

J. Additional Descriptions for Materials Listed Above
A) K23970 - 94046026
B) J29483 - 94046206-6207
C) J29483 - 94046297
D) J38121 - 94043548

K. Handling Codes for Wastes Listed Above

15. Special Handling Instructions and Additional Information
Emergency Guidebook # A) 31 B) 31 C) 32 D) 31
24-Hour Emergency Contact Phone # (505)667-6211

23869

16. GENERATOR'S CERTIFICATION: I hereby declare that the contents of this consignment are fully and accurately described above by proper shipping name and are classified, packed, marked, and labeled, and are in all respects in proper condition for transport by highway according to applicable international and national government regulations.

If I am a large quantity generator, I certify that I have a program in place to reduce the volume and toxicity of waste generated to the degree I have determined to be economically practicable and that I have selected the practicable method of treatment, storage, or disposal currently available to me which minimizes the present and future threat to human health and the environment; OR, if I am a small quantity generator, I have made a good faith effort to minimize my waste generation and select the best waste management method that is available to me and that I can afford.

GENERATOR

Printed/Typed Name: DAN OAKLEY | Signature: Dan Oakley | Month Day Year: 02 01 95

TRANSPORTER

17. Transporter 1 Acknowledgement of Receipt of Materials

Printed/Typed Name: LES YOUNG | Signature: Les Young | Month Day Year: 02 01 95

18. Transporter 2 Acknowledgement of Receipt of Materials

Printed/Typed Name | Signature | Month Day Year

FACILITY

19. Discrepancy Indication Space

RECEIVED FEB 27 1995

20. Facility Owner or Operator: Certification of receipt of hazardous materials covered by this manifest except as noted in Item 19.

Printed/Typed Name: MARK C. HIMBERGER | Signature: Mark C. Himberger | Month Day Year: 02 03 95

Style CF17-6 LABELMASTER, AN AMERICAN LABELMARK CO., CHICAGO, IL 60646 (800)621-5808

EPA Form 8700-22 (Rev. 9-88) Previous editions are obsolete.

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ORIGINAL - RETURN TO GENERATOR

Please print or type. (Form designed for use on elite (12 pitch) typewriter.)

Form Approved. OMB No. 2050-0039 Expires 9-30-96

UNIFORM HAZARDOUS WASTE MANIFEST

Generator's US EPA ID No.: NM0890010515

Manifest Document No.: 95095

2. Page 1 of 2

Information in the shaded areas is not required by Federal law.

3. Generator's Name and Mailing Address
Los Alamos National Laboratory
P.O. Box 1663, MS J579, Los Alamos, NM 87545

4. Generator's Phone (505) 667-4000 7579 Ely.

5. Transporter 1 Company Name: Chemical Waste Management, Inc.
6. US EPA ID Number: ILD099202681

7. Transporter 2 Company Name
8. US EPA ID Number

9. Designated Facility Name and Site Address
Chemical Waste Management, Inc.
9131 East 96th Avenue
Henderson, CO 90640
10. US EPA ID Number: COD980591184

A. State Manifest Document Number
B. State Generator's ID
C. State Transporter's ID
D. Transporter's Phone 303-289-4827
E. State Transporter's ID
F. Transporter's Phone
G. State Facility's ID
H. Facility's Phone 303-289-4827

	11. US DOT Description (Including Proper Shipping Name, Hazard Class and ID Number)	HM	12. Containers No.	Type	13. Total Quantity	14. Unit Wt/Vol	I. Waste No.
a.	WASTE FLAMMABLE LIQUIDS, N.O.S., 3, UN1993, II, (TOLUENE, ACETONE)	x	1	DM	175	p	[redacted]
b.	WASTE GASOLINE, 3, UN1203, II, RQ(D001)	x	1	DM	210	p	D001 D008 D018
c.	WASTE PAINT RELATED MATERIAL, 3, UN1263, II, RQ(D001)	x	1	DM	390	p	D001
d.	WASTE FLAMMABLE SOLIDS, N.O.S., 4.1, UN1325, II, (ETHANOL, ACETONE)	x	1	DF	45	p	F003

J. Additional Descriptions for Materials Listed Above
11a. C95047044 G91105
11b. C95047453 G91105 [illegible]
11c. C95047053 G91105
11d. C95047445 J29493

K. Handling Codes for Wastes Listed Above

15. Special Handling Instructions and Additional Information
EMERGENCY PHONE NO: (505) 667-6211
11a. ERGNO: 27 11b. ERGNO: 27 11c. ERGNO: 26 11d. ERGNO: 32
24073
HMTF#: 10003

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GENERATOR

Printed/Typed Name: Dan Oakley
Signature: Dan Oakley
Month Day Year: 03 02 95

TRANSPORTER

17. Transporter 1 Acknowledgement of Receipt of Materials
Printed/Typed Name: Les Young
Signature: Les Young
Month Day Year: 03 02 95

18. Transporter 2 Acknowledgement of Receipt of Materials
Printed/Typed Name
Signature
Month Day Year

FACILITY

19. Discrepancy Indication Space
RECEIVED MAR 20 1995

20. Facility Owner or Operator: Certification of receipt of hazardous materials covered by this manifest except as noted in Item 19.
Printed/Typed Name: Thomas J Ugh
Signature
Month Day Year: 03 03 95

Style CF17-6 LABELMASTER, AN AMERICAN LABELMARK CO., CHICAGO, IL 60646 (800)621-5808

EPA Form 8700-22 (Rev. 9-88) Previous editions are obsolete

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ORIGINAL-RETURN TO GENERATOR

Form Approved OMB No. 2050-0039 (Expires 9-30-97) 1165-1 and Front of Page 7 95143 Sacramento, California

Please print or type. Form designed for use on elite (12-pitch typewriter).

UNIFORM HAZARDOUS WASTE MANIFEST

1. Generator's US EPA ID No. 0 8 9 0 0 1 9 5 1 3 | Manifest Document No. | 2. Page 1 of 1 | Information in the shaded areas is not required by Federal law.

3. Generator's Name and Mailing Address
Los Alamos National Laboratory
P.O. Box 1663, MS J593, Los Alamos, NM 87545

4. Generator's Phone (505) 667-7579 CH0083003699

A. State Manifest Document Number 91028516

B. State Generator's ID

5. Transporter 1 Company Name Future Trucking Chemical Waste Management, Inc.

6. US EPA ID Number CAD083007677

C. State Transporter's ID 605-61

D. Transporter's Phone 209-386-9711 524-486

7. Transporter 2 Company Name

8. US EPA ID Number

E. State Transporter's ID

F. Transporter's Phone

9. Designated Facility Name and Site Address
Chemical Waste Management, Inc.
35251 Old Skyline Road
Kettleman City, CA 93239

10. US EPA ID Number CAT000646117

G. State Facility's ID CAT000646117

H. Facility's Phone 209-386-9711

11. US DOT Description (Including Proper Shipping Name, Hazard Class, and ID Number)	12. Containers No.	Type	13. Total Quantity	14. Unit Wt/Vol	I. Waste No.
a. HAZARDOUS WASTE, SOLID, N.O.S., 9, NA3077, III, (D008), RQ(D008)	1	CM	[illegible]		[illegible]
b.			6-14-95		State / EPA/Other
c.					State / EPA/Other
d.					State / EPA/Other

J. Additional Descriptions for Materials Listed Above
11a. C95047496
A05599

K. Handling Codes for Wastes Listed Above
a. M43 b.
c. d.

15. Special Handling Instructions and Additional Information
EMERGENCY PHONE NO: (505) 667-6211
11a. ERGNO: 31 MXXT#: 0

16. GENERATOR'S CERTIFICATION: I hereby declare that the contents of this consignment are fully and accurately described above by proper shipping name and are classified, packed, marked, and labeled, and are in all respects in proper condition for transport by highway according to applicable international and national government regulations.

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Printed/Typed Name: Dave Kelly | Signature: [signature] | Month Day Year: 06 14 95

17. Transporter 1 Acknowledgement of Receipt of Materials
Printed/Typed Name: Mike Lark | Signature: [signature] | Month Day Year: 06 14 95

18. Transporter 2 Acknowledgement of Receipt of Materials
Printed/Typed Name | Signature | Month Day Year

19. Discrepancy Indication Space
RECEIVED JUN 28 1995

20. Facility Owner or Operator Certification of receipt of hazardous materials covered by this manifest except as noted in Item 19.
Printed/Typed Name: E BERNABE | Signature: E. Bernabe | Month Day Year: 06 15 95

GENERATOR

TRANSPORTER

FACILITY

IN CASE OF AN EMERGENCY OR SPILL, CALL THE NATIONAL RESPONSE CENTER 1-800-424-8802; WITHIN CALIFORNIA CALL 1-800-852-7550

DHS 8022 A
EPA 8700—22
(Rev. 6-89) Previous editions are obsolete.

Do Not Write Below This Line

Yellow: TSDF SENDS THIS COPY TO GENERATOR WITHIN 30 DAYS

WASTE DATA FORM

COPY

Container # : C95047496	WMC : ESSINGTON EDWARD
	Z # : 080701
WDR #: 3000169	Phone : 73057
	TA : 40
DIS/TRE #: 95143	Building: SDS
	Room: OUTSIDE

LESS THAN 90 DAYS (START DATE: 12-DEC-94)
WASTE GENERATED OR ACCUMULATED IN A RADIOACTIVE MATERIALS MANAGEMENT AREA:

Shipping Name: HAZARDOUS WASTE, SOLID, N.O.S.

Hazard Class : 9 DOT ID# : NA3077 Packing Group : III
Secondary Label :
Technical Name : (D008)
Additional Desc :
ERG# : 31
Haz Substance : RQ(D008)

Waste Code: C0 - CHEMICAL WASTE	Other Con # :
Storage Code : UNSTOR	Container Type: CM
RGN # :	Container Vol: 540 F Wgt:
Treat/Disp Loc : KET	Reviewed By : 076046
Transported By : LUTREL	Data Entry By : 100600
	DOT Check By :
Other Document : 91028516	
AreaG/J Loc :	Picked Up By/Date&Time: 112617 / 11-MAR-95 00:00
	Load Check By/Date: 094923 / 14-MAR-95
Treat/Disp By: CWM	Pickup Update Check By :
Treat/Disp Date: 14-JUN-95	
	Off-Site Check By/Date :
TSDF Date : 15-JUN-95	
Destruction # :	Update By/Date : 111093 / 28-JUN-95
Destruction Date :	Final Update Check By :

Item 2012905: CWM ROLLOFF #5219*
Generator : ESSINGTON EDWARD H Group : EES15 Phone : 73057
WPN : 20072 Phy_state: S Volume : 270 F Weight : 14.67 T
EPA Code : D008 LEAD

Please print or type. Form designed for use on elite (12-pitch typewriter).

Sacramento, California

UNIFORM HAZARDOUS WASTE MANIFEST

1. Generator's US EPA ID No. N 8 9 0 0 1 0 6 1 5 9 5 | Manifest Document No. 147

2. Page 1 of 1

Information in the shaded areas is not required by Federal law.

3. Generator's Name and Mailing Address
Los Alamos National Laboratory
P.O. Box 1663, MS J593, Los Alamos, NM 87545

4. Generator's Phone (505) 667-7579

A. State Manifest Document Number: 91028511

B. State Generator's ID

5. Transporter 1 Company Name: Lutrel Trucking Inc.

6. US EPA ID Number: C A D 0 8 3 0 0 3 6 9 9

C. State Transporter's ID: 603560

D. Transporter's Phone: 805-834-5986

7. Transporter 2 Company Name

8. US EPA ID Number

E. State Transporter's ID

F. Transporter's Phone

9. Designated Facility Name and Site Address
Chemical Waste Management, Inc.
35251 Old Skyline Road
Kettleman City, CA 93239

10. US EPA ID Number: C A T 0 0 0 6 4 6 1 1 7

G. State Facility's ID: CAT000646117

H. Facility's Phone: 209-386-9711

11. US DOT Description (Including Proper Shipping Name, Hazard Class, and ID Number)	12. Containers No.	Type	13. Total Quantity	14. Unit Wt/Vol	I. Waste No.
a. HAZARDOUS WASTE, SOLID, N.O.S., 9, NA3077, III, (D008), RQ(D008)	1	CM	18480	P	State / EPA/Other: D008
b.			6-14-95		State / EPA/Other
c.					State / EPA/Other
d.					State / EPA/Other

J. Additional Descriptions for Materials Listed Above

K. Handling Codes for Wastes Listed Above: 15/03

15. Special Handling Instructions and Additional Information
EMERGENCY PHONE NO: (505) 667-6211
11a. ERCNO: 31 HMTF#: U

16. GENERATOR'S CERTIFICATION: I hereby declare that the contents of this consignment are fully and accurately described above by proper shipping name and are classified, packed, marked, and labeled, and are in all respects in proper condition for transport by highway according to applicable international and national government regulations.

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Printed/Typed Name: DAN OAKLEY | Signature: Dan Oakley | Month Day Year: 06 14 95

17. Transporter 1 Acknowledgement of Receipt of Materials

Printed/Typed Name: PAUL KLEINNA | Signature: [illegible] | Month Day Year: 06 14 95

18. Transporter 2 Acknowledgement of Receipt of Materials

Printed/Typed Name | Signature | Month Day Year

19. Discrepancy Indication Space

20. Facility Owner or Operator Certification of receipt of hazardous materials covered by this manifest except as noted in Item 19.

Printed/Typed Name: [illegible] | Signature: [illegible] | Month Day Year: 06 16 95

Do Not Write Below This Line

GENERATOR — TRANSPORTER — FACILITY

S 5022 A
A 8700-22
rv. 6-89) Previous editions are obsolete.

White: TSDF SENDS THIS COPY TO DOHS WITHIN 30 DAYS
To: P.O. Box 3000, Sacramento, CA 95812

WASTE DATA FORM

COPY

Container # : C95047497	WMC : ESSINGTON EDWARD
	Z # : 080701
WDR # : 3000169	Phone : 73057
	TA : 40
DIS/TRE #: 95147	Building: SDS
	Room: OUTSIDE

LESS THAN 90 DAYS (START DATE: 12-DEC-94)
WASTE GENERATED OR ACCUMULATED IN A RADIOACTIVE MATERIALS MANAGEMENT AREA:

Shipping Name : HAZARDOUS WASTE, SOLID, N.O.S.

Hazard Class : 9 DOT ID# : NA3077 Packing Group : III
Secondary Label :
Technical Name : (D008)
Additional Desc :
ERG# : 31
Haz Substance : RQ(D008)

Waste Code : C0 - CHEMICAL WASTE	Other Con # :
Storage Code : UNSTOR	Container Type : CM
RGN # :	Container Vol : 540 F Wgt:
Treat/Disp Loc : KET	Reviewed By : 076046
Transported By : LUTREL	Data Entry By : 100600
	DOT Check By :
Other Document : 91028511	
AreaG/J Loc :	Picked Up By/Date&Time: 112617 / 11-MAR-95 00:00
	Load Check By/Date : 094923 / 14-MAR-95
Treat/Disp By: CWM	Pickup Update Check By :
Treat/Disp Date: 14-JUN-95	
	Off-Site Check By/Date :
TSDF Date :	
Destruction # :	Update By/Date : 111093 / 14-JUN-95
Destruction Date :	Final Update Check By :

Item 2012906: CWM ROLLOFF #129007*
Generator : ESSINGTON EDWARD H **Group** : EES15 **Phone** : 73057
WPN : 20072 **Phy_state:** S **Volume** : 270 F **Weight** : 11.99 T
EPA Code : D008 LEAD

Please print or type. Form designed for use on elite (12-pitch typewriter). and front of page 1 Sacramento, Cal

UNIFORM HAZARDOUS WASTE MANIFEST

1. Generator's US EPA ID No. | Manifest Document No. | Page 1 of | Information in the shaded areas is not required by Federal law.

A. State Manifest Document Number: 91028527

3. Generator's Name and Mailing Address
Los Alamos National Laboratory
P.O. Box 1663, MS J593, Los Alamos, NM 87545

B. State Generator's ID

4. Generator's Phone: 505-667-7579

5. Transporter 1 Company Name: Intersol Trucking Inc. | 6. US EPA ID Number

C. State Transporter's ID: 436985

D. Transporter's Phone: 805-834-55

7. Transporter 2 Company Name | 8. US EPA ID Number

E. State Transporter's ID

F. Transporter's Phone

9. Designated Facility Name and Site Address
Chemical Waste Management, INC.
35251 Old Skyline Road
Kettleman City, CA 93239

10. US EPA ID Number

G. State Facility's ID: CAT080014611 7

H. Facility's Phone: 209-386-97

11. US DOT Description (Including Proper Shipping Name, Hazard Class, and ID Number)	12. Containers No.	Type	13. Total Quantity	14. Unit Wt/Vol	Waste No.
a. x HAZARDOUS WASTE, SOLID, N.O.S., 9, NA3077, III, (D008),RQ(D008)	1	CM	21940	P	State 181 611 EPA/Other D008
b.					State / EPA/Other
c.					State / EPA/Other
d.					State / EPA/Other

J. Additional Descriptions for Materials Listed Above
11a. 805589 C059437495

K. Handling Codes for Wastes Listed Above
a. 15103 b.
c. d.

15. Special Handling Instructions and Additional Information
EMERGENCY PHONE NO: (505) 667-6211
11a. ERGNO: 31

16. GENERATOR'S CERTIFICATION: I hereby declare that the contents of this consignment are fully and accurately described above by proper shipping name and are classified, packed, marked, and labeled, and are in all respects in proper condition for transport by highway according to applicable international and national government regulations.

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Printed/Typed Name: Dan Oakley | Signature: Dan Oakley | Month Day Y: 06 27 9

17. Transporter 1 Acknowledgement of Receipt of Materials
Printed/Typed Name: Tom MASENGALE | Signature: Tom Masengale | Month Day Y: 06 27 9

18. Transporter 2 Acknowledgement of Receipt of Materials
Printed/Typed Name | Signature | Month Day Y:

19. Discrepancy Indication Space

20. Facility Owner or Operator Certification of receipt of hazardous materials covered by this manifest except as noted in Item 19.
Printed/Typed Name: Larry Tan | Signature | Month Day Y: 06 30 9

GENERATOR / TRANSPORTER / FACILITY

IN CASE OF AN EMERGENCY OR SPILL, CALL THE NATIONAL RESPONSE CENTER 1-800-424-8802; WITHIN CALIFORNIA CALL 1-800-852-7550

DHS 8022 A
EPA 8700—22
(Rev. 6-89) Previous editions are obsolete.

Do Not Write Below This Line

White: TSDF SENDS THIS COPY TO DOHS WITHIN 30 D
To: P.O. Box 3000 Sacramento, CA 95812

WASTE DATA FORM

COPY

Container # : C95047495	WMC : ESSINGTON EDWARD
	Z # : 080701
WDR #: 3000169	Phone : 73057
	TA : 40
DIS/TRE #: 95153	Building: SDS
	Room: OUTSIDE

LESS THAN 90 DAYS (START DATE: 12-DEC-94)
WASTE GENERATED OR ACCUMULATED IN A RADIOACTIVE MATERIALS MANAGEMENT AREA:

Shipping Name: HAZARDOUS WASTE, SOLID, N.O.S.

Hazard Class : 9 DOT ID# : NA3077 Packing Group : III
Secondary Label:
Technical Name : (D008)
Additional Desc :
ERG# : 31
Haz Substance : RQ(D008)

Waste Code: C0 - CHEMICAL WASTE	Other Con # :
Storage Code : UNSTOR	Container Type: CM
RGN # :	Container Vol: 540 F Wgt: 10.47 T
Treat/Disp Loc : KET	Reviewed By : 076046
Transported By : LUTREL	Data Entry By : 100600
	DOT Check By :
Other Document : 95153	
AreaG/J Loc :	Picked Up By/Date&Time: 112617 / 11-MAR-95 00:00
	Load Check By/Date: 094923 / 14-MAR-95
Treat/Disp By: CWM	Pickup Update Check By :
Treat/Disp Date: 27-JUN-95	
	Off-Site Check By/Date :
TSDF Date :	
Destruction # :	Update By/Date : 111093 / 26-JUN-95
Destruction Date :	Final Update Check By :

Item 2012904: CWM ROLLOFF #52314*
Generator : ESSINGTON EDWARD H **Group :** EES15 **Phone :** 73057
WPN : 20072 **Phy_state:** S **Volume :** 270 F **Weight :** 13.72 T
EPA Code : D008 LEAD

Form Approved OMB No. 2050—0039 (Expires 9-30-9[illegible])

Please print or type. Form designed for use on elite (12-pitch typewriter).

and Front of Page 7

Sacramento, California

UNIFORM HAZARDOUS WASTE MANIFEST

1. Generator's US EPA ID No. NM0890010515 95154

Manifest Document No.

Page 1 of 1

Information in the shaded areas is not required by Federal law.

3. Generator's Name and Mailing Address
Los Alamos National Laboratory
P.O. Box 1663, MS J593, Los Alamos, NM 87545

4. Generator's Phone 505-667-7579

A. State Manifest Document Number 91028528

B. State Generator's ID

5. Transporter 1 Company Name: Intrel Recycling Inc.

6. US EPA ID Number

C. State Transporter's ID 603560

D. Transporter's Phone

7. Transporter 2 Company Name

8. US EPA ID Number CHD[illegible]

E. State Transporter's ID 805-834-3986

F. Transporter's Phone

9. Designated Facility Name and Site Address
Chemical Waste Management, INC.
35251 Old Skyline Road
Kettleman City, CA 93239

10. US EPA ID Number CAT000646117

G. State Facility's ID CAT000646117

H. Facility's Phone (209)386-9711

209-386-9711

11. US DOT Description (Including Proper Shipping Name, Hazard Class, and ID Number)	12. Containers No.	Type	13. Total Quantity	14. Unit Wt/Vol	Waste No.
a. x HAZARDOUS WASTE, SOLID, N.O.S., 9, NA3077, III, (D008),RQ(D008)	1	CM	17760	P	State 181 611 EPA/Other D008
b.					State / EPA/Other
c.					State / EPA/Other
d.					State / EPA/Other

J. Additional Descriptions for Materials Listed Above
11a. 805599 095847498

K. Handling Codes for Wastes Listed Above
a. 15/03 b. c. d.

15. Special Handling Instructions and Additional Information
EMERGENCY PHONE NO: (505) 667-6211
11a. ERGNO: 31

16. GENERATOR'S CERTIFICATION: I hereby declare that the contents of this consignment are fully and accurately described above by proper shipping name and are classified, packed, marked, and labeled, and are in all respects in proper condition for transport by highway according to applicable international and national government regulations.

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Printed/Typed Name: Dan Ackley | Signature: Dan Ackley | Month Day Year: 06 27 95

17. Transporter 1 Acknowledgement of Receipt of Materials
Printed/Typed Name: Paul Kleinau | Signature: P. Kl[illegible] | Month Day Year: 06 27 95

18. Transporter 2 Acknowledgement of Receipt of Materials
Printed/Typed Name | Signature | Month Day Year

19. Discrepancy Indication Space

20. Facility Owner or Operator Certification of receipt of hazardous materials covered by this manifest except as noted in Item 19.
Printed/Typed Name: [illegible] | Signature: [illegible] | Month Day Year: 06 30 95

Do Not Write Below This Line

IN CASE OF AN EMERGENCY OR SPILL, CALL THE NATIONAL RESPONSE CENTER 1-800-424-8802; WITHIN CALIFORNIA CALL [illegible]

GENERATOR

TRANSPORTER

FACILITY

HS 8022 A
PA 8700—22
Rev. 6-89) Previous editions are obsolete.

[illegible] TO DOHS WITHIN 30 DAYS
[illegible] Sacramento, CA 95[illegible]

WASTE DATA FORM

COPY

Container # : C95047498	WMC : ESSINGTON EDWARD
	Z # : 080701
WDR #: 3000169	Phone : 73057
	TA : 40
	Building: SDS
DIS/TRE #: 95154	Room: OUTSIDE

LESS THAN 90 DAYS (START DATE: 12-DEC-94)
WASTE GENERATED OR ACCUMULATED IN A RADIOACTIVE MATERIALS MANAGEMENT AREA:

Shipping Name: HAZARDOUS WASTE, SOLID, N.O.S.

Hazard Class : 9 DOT ID# : NA3077 Packing Group : III
Secondary Label:
Technical Name : (D008)
Additional Desc :
ERG# : 31
Haz Substance : RQ(D008)

Waste Code: C0 - CHEMICAL WASTE	Other Con # :
Storage Code : UNSTOR	Container Type: CM
RGN # :	Container Vol: 540 F Wgt: 8.88 T
Treat/Disp Loc : KET	Reviewed By : 076046
Transported By : LUTREL	Data Entry By : 100600
	DOT Check By :
Other Document : 95154	
AreaG/J Loc :	Picked Up By/Date&Time: 112617 / 11-MAR-95 00:00
	Load Check By/Date: 094923 / 14-MAR-95
Treat/Disp By: CWM	Pickup Update Check By :
Treat/Disp Date: 27-JUN-95	
	Off-Site Check By/Date :
TSDF Date :	
Destruction # :	Update By/Date : 111093 / 26-JUN-95
Destruction Date :	Final Update Check By :

Item 2012907: CWM ROLLOFF #52215*
Generator : ESSINGTON EDWARD H **Group :** EES15 **Phone :** 73057
WPN : 20072 **Phy_state:** S **Volume :** 270 F **Weight :** 12.13 T
EPA Code : D008 LEAD

Form Approved OMB No. 3080—0008 (Expires 9-30-91) and Front of Page 7 Sacramento, California

Please print or type. Form designed for use on elite (12-pitch typewriter).

UNIFORM HAZARDOUS WASTE MANIFEST

1. Generator's US EPA ID No. NM0890010515 | Manifest Document No. 06156 | Page 1 of 1

Information in the shaded areas is not required by Federal law.

2. Generator's Name and Mailing Address
Los Alamos National Laboratory
P.O. Box 1663, MS J593, Los Alamos, NM 87545

A. State Manifest Document Number 91028531

B. State Generator's ID

4. Generator's Phone (505) 667-7579

5. Transporter 1 Company Name: Lutrel Trucking Inc. | 6. US EPA ID Number: CAD980816319

C. State Transporter's ID 603561

D. Transporter's Phone 805-834-3986

7. Transporter 2 Company Name | 8. US EPA ID Number

E. State Transporter's ID

F. Transporter's Phone

9. Designated Facility Name and Site Address
Chemical Waste Management, INC.
35251 Old Skyline Road
Kettleman City, CA 93239 | 10. US EPA ID Number: CAD008246117

G. State Facility's ID CAT000646117

H. Facility's Phone 209-386-9711

11. US DOT Description (Including Proper Shipping Name, Hazard Class, and ID Number)	12. Containers No.	Type	13. Total Quantity	14. Unit Wt/Vol	I. Waste No.
a. x HAZARDOUS WASTE, SOLID, N.O.S., 9, NA3077, III, (D008), RQ(D008)	1	CM	257,780	P	State 181 Other D008
b.					State / EPA/Other
c.					State / EPA/Other
d.					State / EPA/Other

J. Additional Descriptions for Materials Listed Above

K. Handling Codes for Wastes Listed Above: a. 15703 b.

c. d.

15. Special Handling Instructions and Additional Information

EMERGENCY PHONE NO: (505) 667-6211
11a. ERGNO: 31

16. GENERATOR'S CERTIFICATION: I hereby declare that the contents of this consignment are fully and accurately described above by proper shipping name and are classified, packed, marked, and labeled, and are in all respects in proper condition for transport by highway according to applicable international and national government regulations.

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Printed/Typed Name: Dan Oakley | Signature: Dan Oakley | Month Day Year: 06 27 95

17. Transporter 1 Acknowledgement of Receipt of Materials

Printed/Typed Name: John Stevens | Signature: John Stevens | Month Day Year: 06 27 95

18. Transporter 2 Acknowledgement of Receipt of Materials

Printed/Typed Name | Signature | Month Day Year

19. Discrepancy Indication Space

20. Facility Owner or Operator Certification of receipt of hazardous materials covered by this manifest except as noted in Item 19.

Printed/Typed Name: P. Andy Tanner | Signature | Month Day Year: 06 30 95

Do Not Write Below This Line

GENERATOR

TRANSPORTER

FACILITY

CALL 1-800-852-7550

S 8022 A
A 8700—22
rv. 9-89) Previous editions are obsolete.

White: TSDF SENDS THIS COPY TO DOHS WITHIN 30 DAYS
To: P.O. Box 3000, Sacramento, CA 95812

WASTE DATA FORM

COPY

Container # : C95047500	WMC : ESSINGTON EDWARD
	Z # : 080701
WDR # : 3000169	Phone : 73057
	TA : 40
	Building : SDS
DIS/TRE # : 95155	Room : OUTSIDE

LESS THAN 90 DAYS (START DATE: 12-DEC-94)
WASTE GENERATED OR ACCUMULATED IN A RADIOACTIVE MATERIALS MANAGEMENT AREA:

Shipping Name : HAZARDOUS WASTE, SOLID, N.O.S.

Hazard Class : 9 DOT ID# : NA3077 Packing Group : III
Secondary Label :
Technical Name : (D008)
Additional Desc :
ERG# : 31
Haz Substance : RQ(D008)

Waste Code :	C0 - CHEMICAL WASTE	Other Con # :	
Storage Code :	UNSTOR	Container Type :	CM
RGN # :		Container Vol :	540 F Wgt: 12.89 T
Treat/Disp Loc :	KET	Reviewed By :	076046
Transported By :	LUTREL	Data Entry By :	100600
		DOT Check By :	
Other Document :	95155		
AreaG/J Loc :		Picked Up By/Date&Time:	112617 / 11-MAR-95 00:00
		Load Check By/Date :	094923 / 14-MAR-95
Treat/Disp By:	CWM	Pickup Update Check By :	
Treat/Disp Date:	27-JUN-95		
		Off-Site Check By/Date :	
TSDF Date :			
Destruction # :		Update By/Date :	111093 / 26-JUN-95
Destruction Date :		Final Update Check By :	

Item 2012909: CWM ROLLOFF #52197*
Generator : ESSINGTON EDWARD H **Group** : EES15 **Phone** : 73057
WPN : 20072 **Phy_state:** S **Volume** : 270 F **Weight** : 16.4 T
EPA Code : D008 LEAD

Please print or type. (Form designed for use on elite (12-pitch) typewriter.)

15160

Form Approved. OMB No. 2050-0039. Expires 9-30-96

UNIFORM HAZARDOUS WASTE MANIFEST

1. Generator's US EPA ID No. N M 0 8 9 0 0 1 0 5 1 5 9 5 1 6 0

Manifest Document No.

2. Page 1 of

Information in the shaded areas is not required by Federal law.

3. Generator's Name and Mailing Address In emergency see box # 15
LOS ALAMOS NATIONAL LABORATORY
P.O. BOX 1663 MS J593
LOS ALAMOS, NM 87545-

4. Generator's Phone ((505) 667-7579 ATTN: DAN OAKLEY

A. State Manifest Document Number

B. State Generator's ID

5. Transporter 1 Company Name
MATLACK, INC

6. US EPA ID Number
D E D 9 8 1 1 1 0 1 6 6

C. State Transporter's ID 40810

D. Transporter's Phone (888) 433-8470

7. Transporter 2 Company Name

8. US EPA ID Number

E. State Transporter's ID

F. Transporter's Phone

9. Designated Facility Name and Site Address
ROLLINS ENVIRONMENTAL SERVICES(CO), INC.
108555 E. HIGHWAY 36
DEER TRAIL, CO 80105

10. US EPA ID Number
C O D 9 9 1 3 0 0 4 8 4

G. State Facility's ID NONE

H. Facility's Phone 303-386-2293

GENERATOR

	11. US DOT Description (Including Proper Shipping Name, Hazard Class and ID Number)	HM	12. Containers No.	Type	13. Total Quantity	14. Unit Wt/Vol	I. Waste No.
a.	Hazardous waste, solid, n.o.s., 9, NA3077, PG III, RQ (D008)	X	0 0 1	CM	12 420 ~~3 8 0 0~~ 9/28 7-11-95	P	D [illegible] B
b.							
c.							
d.							

J. Additional Descriptions for Materials Listed Above
a) CO-011528-005 DOOR
b)
c)
d)
WORK ORDER Number 209223

K. Handling Codes for Wastes Listed Above

15. Special Handling Instructions and Additional Information
Interview and swab contact. Use protective gear when handling waste. Avoid 667-6211 If undeliverable return to generator. B.O.L.#
D.O.T. Emergency Response #'s 11a. 31 Project 21M-94-0064-054

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Printed/Typed Name: Dan Oakley | Signature: Dan Oakley | Month Day Year: 0 7 1 1 9 5

TRANSPORTER

17. Transporter 1 Acknowledgement of Receipt of Materials
Printed/Typed Name: Mark Jackson | Signature: Mark Jackson | Month Day Year: 0 7 1 1 9 5

18. Transporter 2 Acknowledgement of Receipt of Materials
Printed/Typed Name | Signature | Month Day Year

FACILITY

19. Discrepancy Indication Space

20. Facility Owner or Operator: Certification of receipt of hazardous materials covered by this manifest except as noted in Item 19.
Printed/Typed Name | Signature | Month Day Year

PRINTED ON RECYCLED PAPER USING SOYBEAN INK
PRINTED WITH SOY INK

WASTE DATA FORM

COPY

Container # : C95047499	WMC : ESSINGTON EDWARD
	Z # : 080701
WDR #: 3000169	Phone : 73057
	TA : 40
DIS/TRE #: 95160	Building: SDS
	Room: OUTSIDE

LESS THAN 90 DAYS (START DATE: 12-DEC-94)
WASTE GENERATED OR ACCUMULATED IN A RADIOACTIVE MATERIALS MANAGEMENT AREA:

Shipping Name : HAZARDOUS WASTE, SOLID, N.O.S.

Hazard Class : 9 DOT ID# : NA3077 Packing Group : III
Secondary Label :
Technical Name : (D008)
Additional Desc :
ERG# : 31
Haz Substance : RQ(D008)

Waste Code : C0 - CHEMICAL WASTE	Other Con # :
Storage Code : UNSTOR	Container Type : DM
RGN # :	Container Vol : 540 F Wgt:
Treat/Disp Loc : CO	Reviewed By : 076046
Transported By : MATLAC	Data Entry By : 100600
	DOT Check By :
Other Document : 95160	
AreaG/J Loc :	Picked Up By/Date&Time: 112617 / 11-MAR-95 00:00
	Load Check By/Date: 094923 / 14-MAR-95
Treat/Disp By: RES	Pickup Update Check By :
Treat/Disp Date: 11-JUL-95	
	Off-Site Check By/Date :
TSDF Date :	
Destruction # :	Update By/Date : 100600 / 10-JUL-95
Destruction Date :	Final Update Check By :

Item 2012908: ROLLINS ROLLOFF #2342*
Generator : ESSINGTON EDWARD H **Group :** EES15 **Phone :** 73057
WPN : 20072 **Phy_state:** S **Volume :** 270 F **Weight :** 15.14 T
EPA Code : D008 LEAD

Print or Type. Form designed for use on elite (12-pitch typewriter).

UNIFORM HAZARDOUS WASTE MANIFEST

1. Generator's US EPA ID No.: CA9890010515
Manifest Document No.: 95148
2. Page 1 of 1
Information in the shaded areas is not required by Federal law.

3. Generator's Name and Mailing Address
Los Alamos National Laboratory
P.O. Box 1663, MS J593, Los Alamos, NM 87545
4. Generator's Phone (505) 667-7579

A. State Manifest Document Number: 91028521
B. State Generator's ID:

5. Transporter 1 Company Name: Luker Trucking #4 6-26-95
6. US EPA ID Number: CHD093038699
C. State Transporter's ID: 6035-50
D. Transporter's Phone: 209-386-9711
E. State Transporter's ID: 6035-50 #4
F. Transporter's Phone: 4/26/95

7. Transporter 2 Company Name
8. US EPA ID Number

9. Designated Facility Name and Site Address
Chemical Waste Management, INC.
35251 Old Skyline Road
Kettleman City, CA 93239
10. US EPA ID Number: CAT000646117

G. State Facility's ID: CAT000646117
H. Facility's Phone: 209-386-9711

11. US DOT Description (Including Proper Shipping Name, Hazard Class, and ID Number)	12. Containers No.	Type	13. Total Quantity	14. Unit Wt/Vol	I. Waste No.
a. x HAZARDOUS WASTE, SOLID, N.O.S., 9, NA3077, III, (CONTAINS BARIUM AND LEAD)	24	DM	16963	P	State: 181,172 EPA/Other: D005
b. x HAZARDOUS WASTE, SOLID, N.O.S., 9, NA3077, III, (CADMIUM, CHROMIUM)	1	CM	400	P	State: 181, D004 EPA/Other: D007 D009 D011
c. NON-REGULATED WASTE, SOLID	2	DM	1098	P	State: NONE EPA/Other:
d. NON-REGULATED WASTE, SOLID	32	DM	16476	P	State: NONE EPA/Other:

J. Additional Descriptions for Materials Listed Above
[redacted]
[redacted]
[redacted]

K. Handling Codes for Wastes Listed Above
a. 5-03 b. 99-03
c. 03 d. 03

15. Special Handling Instructions and Additional Information
EMERGENCY PHONE NO: (505) 667-6211
11a. ERGNO: 31 11b. ERGNO: 31 11c. ERGNO: 0 11d. ERGNO: 0
HMTF#:

16. GENERATOR'S CERTIFICATION: I hereby declare that the contents of this consignment are fully and accurately described above by proper shipping name and are classified, packed, marked, and labeled, and are in all respects in proper condition for transport by highway according to applicable international and national government regulations.

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Printed/Typed Name: Dan Oakley
Signature: Dan Oakley
Month Day Year: AG 2 6 95

17. Transporter 1 Acknowledgement of Receipt of Materials
Printed/Typed Name: Mike Dart
Signature: Mike Dart
Month Day Year: 06 26 95

18. Transporter 2 Acknowledgement of Receipt of Materials
Printed/Typed Name:
Signature:
Month Day Year:

19. Discrepancy Indication Space
~~11.B EPA CODE DOES NOT APPLY~~
11.C STATE WASTE CODES 181, 141 APPLY
11.D STATE WASTE CODES 611, 181, 35 APPLY
RESOLVED WITH LARRY SHERMAN. 6/28/95 RS

20. Facility Owner or Operator Certification of receipt of hazardous materials covered by this manifest except as noted in Item 19.
Printed/Typed Name: Richard Salazar
Signature:
Month Day Year: 06 27 95

Do Not Write Below This Line

GENERATOR — IN CASE OF AN EMERGENCY OR SPILL, CALL THE NATIONAL RESPONSE CENTER 1-800-424-8802; WITHIN CALIFORNIA CALL 1-800-852-7550

TRANSPORTER

FACILITY

HS 8022 A
PA 8700—22
(Rev. 6-80) Previous editions are obsolete.

White. TSDF SENDS THIS COPY TO DOHS WITHIN 30 DAYS
To: P.O. Box 3000, Sacramento, CA 95812

FINDING NUMBER: 18

CONCLUSION NUMBER: 56

FINDING NUMBER: 18

CONCLUSION NUMBER: 56

DISCUSSION:

Compliance Order NMHWA 95-03 requires that within ten (10) days from the receipt of this Order, the U.S. Department of Energy and Los Alamos National Laboratory must submit copies showing records of hazardous waste determination on rags and gloves contaminated with silver, methanol, and acetone at Technical Area 3 (TA-3), Building 34, Room B14 satellite accumulation point.

Attached are the following documents:

- WASTE PROFILE FORM, dated 6/10/93 showing waste not hazardous.
- WASTE PROFILE FORM (WPF) QUESTIONNAIRE, to Dan Campbell from Michelle Cash, dated 6/10/94 reflecting the waste identified on WPF 6126 is the same type of waste being produced at this location and no change in process has been made.
- Memo from Roben Rudy-Hinker to Dennis Erickson dated October 14, 1994 Subject: MST DIVISION RESPONSE TO APPARENT RCRA FINDINGS with attachments.

Attachment B

LOS ALAMOS
Los Alamos National Laboratory
Los Alamos, New Mexico 87545

WASTE PROFILE FORM

EM-8 USE ONLY
Reference Number
061126

Complete both sides of this form using a black or blue pen. Incomplete forms will be rejected. Send form to ATTN: WPF MS K490

Division/Group	Telephone	Mail Stop	Technical Area	Building	Room
STC	5-3732	K-763	3	34	B14

Method of Characterization
- [x] Knowledge of Process (KOP)
- [ ] MSDS attached (optional)
- OR -
- [ ] Chemical/Physical Analysis (specify below)
- [ ] Request for analysis
- [ ] Analysis attached

Waste Category *(Choose one or more of the categories below that most accurately describe your waste)*

[x] Flammable	[ ] Pesticide	[ ] Photographic	[ ] Spent coolant	[ ] Plastics
[x] Combustible	[ ] Beryllium	[ ] Sanitary	[x] Aerosol cans	[ ] Filter media
[ ] High explosive	[ ] Asbestos	[ ] Radiochemistry	[ ] Motor oil	[ ] Vacuum filter media
[ ] DOT oxidizer	[x] Solvent	[ ] Paint waste	[x] Pump oil	[ ] Cement paste
[ ] Pyrophoric	[x] Waste rags	[ ] Laboratory trash	[ ] Capacitor oil	[ ] Nonsalvageable
[ ] Cyanide	[ ] Glass	[ ] Metallurgic	[ ] UST remediation	[ ] Nonrecycleable
[x] Heavy metal	[ ] Plating solution	[ ] Scrap metal	[ ] Contaminated soils	[ ] Building debris
[x] Corrosive	[ ] Etchant	[ ] Medical/Biological	[ ] Environmental/SWMU	[ ] Firing site debris

General Description *(provide a general description of the waste and/or waste-generating process below)*

Kimwipes + Q-tips contacted by the following Acetone, Methanol, $VBaCuO_7$, Ni, Silver Ag, Nitric Acid (10% solution), Aerosol oils

Waste Description

Form	Ignitability (F)	Corrosivity (pH)	Reactivity	PCBs
[x] Solid	[ ] < 100°	[ ] 2.0 or less	[ ] Unstable	[ ] < 50 ppm
[ ] Semisolid/sludge	[ ] 100° to 139°	[x] 2.1 to 12.4	[ ] Water reactive	[ ] 50 to 500 ppm
[x] Absorbed liquid	[ ] 140° to 200°	[ ] 12.5 or greater	[ ] Cyanides	[ ] > 500 ppm
[ ] Liquid	[x] > 200°	[x] Not aqueous	[ ] Sulfides	[x] None
[ ] Gas cylinder or vessel	[ ] Not ignitable		[ ] Shock sensitive	
[ ] Multilayered			[ ] Class A or B explosive	
[ ] Suspended solids			[x] Nonreactive	
[ ] Powder or ash				

Waste Origination

A. Is this waste generated in a radiation controlled area? [ ] Yes [x] No

B. If yes, is the waste generated or accumulated in a properly defined, registered radioactive materials management area (RMMA)? (RMMA # _____) [ ] Yes [ ] No

C. If A is yes and you have determined that your waste is nonradioactive, provide justification in the additional comments section on the reverse side of this form.

Radioactivity

[x] Nonradioactive [ ] Suspect [ ] Radioactive

Activity Measure	Radiation Type	Half-life
[ ] ≤ 2.0 nC/g	[ ] alpha	[ ] $t^{1/2}$ < 20 yr
[ ] > 2.0 nC/g	[ ] beta	[ ] $t^{1/2}$ ≥ 20 yr
[ ] > 10.0 nC/g	[ ] gamma	
[ ] > 100 nC/g	[ ] tritium	

WASTE GENERATOR CERTIFICATION: *Based on my knowledge of the waste and/or chemical/physical analysis, I certify that the information on this form is correct. I understand that this information will be made available to regulatory agencies and that there are significant penalties for submitting false information, including the possibility of fines and imprisonment for knowing violations.*

Waste Generator's Name (last, first, middle)	Z Number	Signature	Date
Campbell, Ian H	106526	[signature]	6·10·93

If your waste management coordinator is the custodian of your waste management documentation, provide the name and mail stop of this person (optional). —>	Name (last, first, middle)	Mail Stop
	Salazar Kenneth V	K763

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Toxic Metals *(indicate if each of the following heavy metals exists in your waste at the posted concentrations)*

arsenic	☐ None	☐ < 5.0 ppm	☐ ≥ 5.0 ppm	☐ TCLP	☐ Other _____
barium	☐ None	☐ < 100.0 ppm	☐ ≥ 100.0 ppm	☐ TCLP	☐ Other _____
cadmium	☐ None	☐ < 1.0 ppm	☐ ≥ 1.0 ppm	☐ TCLP	☐ Other _____
chromium	☐ None	☐ < 5.0 ppm	☐ ≥ 5.0 ppm	☐ TCLP	☐ Other _____
lead	☐ None	☐ < 5.0 ppm	☐ ≥ 5.0 ppm	☐ TCLP	☐ Other _____
mercury	☐ None	☐ < 0.2 ppm	☐ ≥ 0.2 ppm	☐ TCLP	☐ Other _____
nickel	☐ None	☐ < 134.0 ppm	☐ ≥ 134.0 ppm	☐ TCLP	☐ Other _____
selenium	☐ None	☐ < 1.0 ppm	☐ ≥ 1.0 ppm	☐ TCLP	☐ Other _____
silver	☐ None	☐ < 5.0 ppm	☐ ≥ 5.0 ppm	☐ TCLP	☐ Other _____
thallium	☐ None	☐ < 130.0 ppm	☐ ≥ 130.0 ppm	☐ TCLP	☐ Other _____

Organic Compounds *(indicate if each of the following organic compounds exists in your waste at the posted concentrations)*

benzene	☐ None	☐ < 0.5 ppm	☐ ≥ 0.5 ppm	☐ TCLP	☐ Other _____
carbon tetrachloride	☐ None	☐ < 0.5 ppm	☐ ≥ 0.5 ppm	☐ TCLP	☐ Other _____
chlorobenzene	☐ None	☐ < 100.0 ppm	☐ ≥ 100.0 ppm	☐ TCLP	☐ Other _____
chloroform	☐ None	☐ < 6.0 ppm	☐ ≥ 6.0 ppm	☐ TCLP	☐ Other _____
cresol	☐ None	☐ < 200.00 ppm	☐ ≥ 200.0 ppm	☐ TCLP	☐ Other _____
1,4-dichlorobenzene	☐ None	☐ < 7.5 ppm	☐ ≥ 7.5 ppm	☐ TCLP	☐ Other _____
1,2-dichloroethane	☐ None	☐ < 0.5 ppm	☐ ≥ 0.5 ppm	☐ TCLP	☐ Other _____
1,1-dichloroethylene	☐ None	☐ < 0.7 ppm	☐ ≥ 0.7 ppm	☐ TCLP	☐ Other _____
2,4-dinitrotoluene	☐ None	☐ < 0.13 ppm	☐ ≥ 0.13 ppm	☐ TCLP	☐ Other _____
hexachlorobenzene	☐ None	☐ < 0.13 ppm	☐ ≥ 0.13 ppm	☐ TCLP	☐ Other _____
hexachlorobutadiene	☐ None	☐ < 0.5 ppm	☐ ≥ 0.5 ppm	☐ TCLP	☐ Other _____
hexachloroethane	☐ None	☐ < 3.0 ppm	☐ ≥ 3.0 ppm	☐ TCLP	☐ Other _____
methyl ethyl ketone	☐ None	☐ < 200.0 ppm	☐ ≥ 200.0 ppm	☐ TCLP	☐ Other _____
nitrobenzene	☐ None	☐ < 2.0 ppm	☐ ≥ 2.0 ppm	☐ TCLP	☐ Other _____
pentachlorophenol	☐ None	☐ < 100.0 ppm	☐ ≥ 100.0 ppm	☐ TCLP	☐ Other _____
pyridine	☐ None	☐ < 5.0 ppm	☐ ≥ 5.0 ppm	☐ TCLP	☐ Other _____
tetrachloroethylene/perchloroethylene	☐ None	☐ < 0.7 ppm	☐ ≥ 0.7 ppm	☐ TCLP	☐ Other _____
trichloroethylene	☐ None	☐ < 0.5 ppm	☐ ≥ 0.5 ppm	☐ TCLP	☐ Other _____
2,4,5-trichlorophenol	☐ None	☐ < 400.0 ppm	☐ ≥ 400.0 ppm	☐ TCLP	☐ Other _____
2,4,6-trichlorophenol	☐ None	☐ < 2.0 ppm	☐ ≥ 2.0 ppm	☐ TCLP	☐ Other _____
vinyl chloride	☐ None	☐ < 0.2 ppm	☐ ≥ 0.2 ppm	☐ TCLP	☐ Other _____

Hazardous Constituents *(Identify hazardous constituents for F- and K-listed wastes and substances causing waste to exhibit a characteristic)*

Additional Comments *(Provide comments regarding the chemical or radiological nature of the waste)*

Do not write in this box - EM-8 use only

Waste Classification

- ☐ Non-RCRA waste
- ☐ RCRA-regulated solid waste
- ☐ RCRA-regulated hazardous waste
- ☐ Radioactive only
- ☐ PCB
- ☐ non-PCB TSCA waste
- ☐ asbestos
- ☐ municipal refuse
- ☐ nonhazardous chemical waste
- ☐ administrative controlled waste
- ☐ sanitary/industrial sludges
- ☐ hazardous waste
- ☐ mixed low-level waste
- ☐ mixed transuranic waste
- ☐ low-level waste
- ☐ transuranic waste

RCRA Code 1	RCRA Code 2	RCRA Code 3	RCRA Code 4	RCRA Code 5	RCRA Code 6	RCRA Code 7	RCRA Code 8

EM-8 Reviewer's Signature	Date	Cost Center/Program Code for Analysis	Reference Number
Michelle Cash	6/14/93		06126

Form 1346 (6/92)

WASTE PROFILE FORM (WPF) QUESTIONNAIRE

TO: Don Campbell MS K763

FROM: Michelle Cash, ESH-8, K498, 5-0223

Our files indicate that your WPF, # 6126 was submitted approximately one year ago. Please answer the following questions concerning your waste stream to determine whether to renew or void your WPF. Please send the completed questionnaire to me. If your waste stream remains the same, then your WPF will be extended for another year. If the original generator is no longer with the generating group or generating this waste, a new WPF will need to be filled out with a new generator. Upon receipt of this questionnaire, we will send you a return receipt indicating that your WPF is valid for another year. If there are changes in your waste stream, a new WPF will need to be completed.

Are you currently producing the same type of waste as indicated on your WPF?

YES X NO _____

If yes, please sign below.

If no, will you be producing the same type of waste in the near future?

YES _____ NO _____

If yes, please sign below.

If no, will you be producing a different type of waste?

YES _____ NO _____

If no, sign below to indicate that your WPF should be voided.

If yes, please submit a new WPF, along with this memo. We will then void your previous WPF and process a new one.

I am producing or will produce the same type of waste as indicated in WPF #6126.

Signed [signature] Date 6·10·94

I will no longer be generating or will be producing a different type or composition (a new WPF will be submitted) of waste as indicated in WPF #_____.

Signed_____ Date_____

WASTE MANAGEMENT COORDINATOR: _____ ***GROUP*** _____

NOTE: PLEASE FOLD AND STAPLE AND RETURN TO ADDRESS ON THE BACK OF FORM.

DATE: 6/17/93

TO: Kenneth Salazar MS K763

FROM: Michelle Cash, HSE-8, MS K490 665-0223

SUBJ: **WASTE PROFILE REQUEST (WPR)**

The HSE-8 Hazardous and Solid Waste Section has reviewed and logged the information you provided on the attached WPR(s). Based on the information you provided, your waste(s) is:

A. Non-RCRA waste

- ☐ PCB
- ☐ non-PCB TSCA waste
- ☐ Asbestos

B. RCRA-Regulated solid waste

- ☐ Municipal refuse
- ☑ Non-hazardous chemical waste
- ☐ Administratively controlled waste
- ☐ Sanitary/industrial sludges

C. Hazardous or Mixed

- ☐ Hazardous waste
- ☐ Mixed low-level
- ☐ Mixed transuranic waste

D. Radioactive

- ☐ Low-level waste
- ☐ Transuranic waste

You are required to keep a copy of the WPR(s) in your files for at least 3 years. This WPR(s) is valid for one year or as long as the composition of the waste you have characterized remains the same. Should your waste change, submit a new WPR to EM-8 and attach a copy of the WPR which is being replaced.

Attachment(s)

FINDING NUMBER: 28

CONCLUSION NUMBER: 66

FINDING NUMBER: 28

CONCLUSION NUMBER: 66

DISCUSSION:

Compliance Order NMHWA 95-03 requires that within ten (10) days from the receipt of this Order, the U.S. Department of Energy and Los Alamos National Laboratory must submit copies showing records of hazardous waste determination and accumulation start dates for drums stored at TA-60, O-Sigma <90 storage area.

The following documentation characterizes all the materials removed or managed at this Solid Waste Management Unit (SWMU). The four drums in question contained decontamination materials associated with final cleanup operations at the SWMU. The generator and waste management personnel indicated in the enclosed decumentation that this material was derived from the same source and would contain only the same potential constituents as were found in the SWMU characterization samples. These were all identified as being non-hazardous.

Attached are the following documents:

- Memo, dated April 6, 1995, Subject: SIGNMA MESA <90 DAY STORAGE AREA, NMED SEPTEMBER 22, 1994, INSPECTION, UNMARKED DRUMS (4).
- Memo dated July 29, 1994, Subject: SEPTIC TANK REMOVAL, SWMU (C), PI 15018 CANYON STREET AT MANHATTAN LOOP FINAL CLEANUP.
- Memorandum dated 26 July 1994, Subject: UPDATE ON WASTE CHARACTERIZATION SAMPLES FOR 0-030(c).
- REVOVAL ACTION WASTE CHARACTERIZATION SAMPLES SHEET (untitled) (PR3 00-030(c)).
- EM-9 VOLATILE ORGANIC ANALYSIS SUMMARY OF ANALYTICAL RESULTS, dated 06/30/94; EXHIBIT A., Summary of Sample Analyses and Rad Van Screening Results, Septic Tank 0-030(c), Field Unit 1.
- "Excerpt from"ENVIRONMENTAL RESTORATION PROGRAM SITE-SPECIFIC WASTE MANAGEMENT PLAN SWMUs 0-030(c),(e),(f),(h),(k),and (q).

Los Alamos

NATIONAL LABORATORY

memorandum

Facilities Project Delivery Group (FSS-6)
Facilities, Security, and Safeguards Division

To/Mail Stop: *DAN BROUGHTON, JCI, A199*
WALDO ULIBARRI, JCI, A199

From/Mail Stop: Henry Nunes, FSS-6, M721

Telephone/FAX: 7-3322/5-3355

Symbol No.: FSS-6/HPN/94-95

Date: July 29, 1994

SUBJECT: SEPTIC TANK REMOVAL, SWMU (C), PI 15018
CANYON STREET AT MANHATTAN LOOP FINAL CLEANUP

Please remove the excess materials and fencing at the subject SWMU site. Compiled analytical data indicates that there are no hazards present. The materials may be disposed of at the Los Alamos County Landfill. Excess soil may be used as backfill. Please coordinate this cleanup with SG Western, who will complete the work.

If you have any questions, please call me at 667-3322.

HPN/gka

Cy:
Jim Aldrich, EES-1, D462
Dale Conover, EM/ER/CON, M327
Craig Bachmeier, FSS-6, M721
PI 15018 (7.71), M703
CRM-4, A150
File HPN

Los Alamos
NATIONAL LABORATORY

memorandum

Facility, Security, and Safeguards
FSS-6, Facility Project Delivery

To/Ms: Patricia Shanley, ESH-19, MS K498
From/Ms: Henry Nunes, FSS-6, MS M984 HPN
Phone/FAX: 73755/78785
Symbol: FSS-6/hpn/95-19
Date: April 6, 1995

SUBJECT: SIGMA MESA <90 DAY STORAGE AREA, NMED SEPTEMBER 22, 1994, INSPECTION, UNMARKED DRUMS (4)

This memo confirms that on September 23, 1994, following the NMED inspection, I returned to Sigma Mesa and opened the four drums that were stored in with TA-01, Trinity Drive Sanitary Waste Line materials and found the four drums to contain non-hazardous materials. These materials consisted of work clothing, equipment, and disposable materials from another work activity. The materials were from the Butler/Benson septic tank removal site, SWMU 0-030(c), PI# 15018. These four drums were generated from the final cleanup and demobilization activities at the Benson property. I had the four drums removed from the storage area that morning.

Attached is the detailed information that was used to determine that material from the site was not hazardous. If you have questions, please call me at the above numbers.

Cy: Garry Allen CST-18, MS E525
Carl Newton, EES-3, MS E525
Jan Novak, EES-1, MS E525
Craig Bachmeier, FSS-6, MS M984

MEMORANDUM

ERM/Golder Associates Los Alamos Project Team

To: H. Nunes, EES-6
M721

Fr: D. Conover D E Conover
M327

Date: 26 July 1994

Re: UPDATE ON WASTE CHARACTERIZATION SAMPLES FOR 0-030(c)

Following is a list of waste characterization samples for RCRA waste characterization of soil, rubble and fill materials excavated from the former septic tank SWMU 0 - 030(c) site and stockpiled onsite. The first set of results are from three hand-augered borings completed inside the 030(c) tank during the pre-characterization phase of the RFI. These qualify for three of the four waste characterization sample points for characterizing the septic tank contents.

The last sample listed, AAB 0190, was taken during the tank removal, from a point inside the south tank wall, just below the inlet line's entry point. This sample qualifies as the fourth, and final waste characterization sample as defined in the Site-Specific Waste Management Plan of 11 May 1994.

PRE-CHARACTERIZATION SAMPLES

SAMPLE ID	DATE SAMPLED	COMPLETED ANALYSES	SAMPLE DESCRIPTION
AAB0282	04/05/94	< DL or Bkgnd.	Soil from H-26, NW Corner Tank 4'6" - 5'
AAB0286	04/05/94	<DL or Bkgnd.	Soil from H-26, 6' - 6'6"
AAB0289	04/05/94	<DL or Bkgnd.	Soil from H-26, 8' 8" - 9' 2"
AAB0288	04/06/94	<DL or Bkgnd.	Soil from H-27d, NE Corner Tank 4' - 4'3"
AAB0280	04/06/94	<DL or Bkgnd.	Soil from H-27d, 7'9" - 7' 11"
AAB0277	04/06/94	<DL or Bkgnd.	Soil from H-28d, South Half Tank, Center, 3'8" - 4' 6"
AAB0284	04/06/94	<DL or Bkgnd.	Soil from H-28d, 9'6" - 9' 9"

REMOVAL ACTION
WASTE CHARACTERIZATION SAMPLES

SAMPLE ID	DATE SAMPLED	COMPLETED ANALYSES	SAMPLE DESCRIPTION
AAB0190	05/23/94	< DL or Bkgnd. (Isotopic Results Pending)	Soil from South Wall of Tank, Beneath Inlet Pipe Location

DL = Detection Limit

Analytical Backup Attached

cc (without attachment):

J. Aldrich
J. Novak
A. Funk
D. Katzman
Project File (A9450.14)

PRS : 00-030(c) AAB0190 AAB0195 AAB0198

Request Number	Report Number	Analyte Code	ANALYTE	Status	Due Date	Report Date	Received	Comment
17506	26054	0VOA	CST-9 EPA VOA SUITE AAB0190	I	5/25/94	7/12/94	7/20/94	VOA
17511	~~24590~~ 24950	0TAL	TAL SUITE AAB0190	I	5/25/94	5/26/94	6/10/94	AG;BA;BE;CD;CR;NI AS, HG, SE, PB, SB, TL
17521		1336363	Aroclor [Mixed-] AAB0190	I	5/25/94			
17521	26046	0SVOA	CST-9 EPA SVOA SUITE AAB0190	I	5/25/94	7/12/94	7/19/94	SVOA
17521	26101	0PEST	PEST SUITE AAB0190	I	5/25/94	7/13/94	7/19/94	PESTICIDES
17706		0PEST	PEST SUITE	I	6/8/94			
17706		1336363	Aroclor [Mixed-]	I	6/8/94			
17706	S-CUBED PRE	0SVOA	CST-9 EPA SVOA SUITE	I	6/8/94			
17706	S-CUBED PRE	0VOA	CST-9 EPA VOA SUITE	I	6/8/94			
17711	25619	0TAL	TAL SUITE	C	6/8/94	6/23/94	7/19/94	METALS
17711	25695	0TAL	TAL SUITE	C	6/8/94	6/28/94	7/19/94	METALS
17711	25702	0TAL	TAL SUITE	C	6/8/94	6/28/94	7/19/94	METALS
17711	25702	0TAL	TAL SUITE	I	6/8/94	6/28/94	7/19/94	METALS
17921		GSCAN	GAMMA SPEC	I	9/8/94			
17921		PU-238	Plutonium-238	I	9/8/94			
17921		PU-239	Plutonium-239	I	9/8/94			
17921		U	Uranium	I	9/8/94			
18071		AM-241	Americium-241	I	8/1/94			
18071		GSCAN	GAMMA SPEC	I	8/1/94			
18071		PU-238	Plutonium-238	I	8/1/94			
18071		PU-239	Plutonium-239	I	8/1/94			
18071		U	Uranium	I	8/1/94			

End of Report

COPY -12
Ok, All <'s.
Req 17506

EM-9 VOLATILE ORGANIC ANALYSIS
SUMMARY OF ANALYTICAL RESULTS

To: James Aldrich
Thru: Chris Leibman, Organic Analysis Section Leader
From: Don Dale

Request Number: 17506
Matrix: Soil
Summary Date: 06/30/94

Page 1 of 1

Results Summary:

_x__: No target compounds were found in the sample(s) submitted

_x__: No target compounds were found in the method blank.

____: Target compounds were found in the following samples(s)

Method Summary:

Extra Samples Analyzed:_1_Blanks_0__Blind QC_0__MS/MSD

Sample #	Date Collected	Date Analyzed
94.09322	05/23/94	06/09/94

Holding Time: **Holding times were <u>not</u> met for all samples.**
Surrogate Recoveries: Surrogate recoveries were in control.
Matrix Spike Recoveries: Matrix spike and matrix spike duplicate were not analyzed.

Analytical Method: EPA method 8260, SW-846 or equivalent. A 5 gm aliquot of soil was analyzed using a Delta Perspective auto-sampler, an TEKMAR purge and trap, a HP 5890 GC with a:

_x_: 70 X 3 micron film X 0.53id DB-624 column and an HP 5970 MSD.

Tentatively Identified Compounds:
_x_:No TIC'S were found in the samples submitted.
___:TIC'S were found in the samples submitted. If you need additional on these contact Chris Leibman at 665-6789.

Additional comments:
The prescribed 14 day holding time for sample 94.09322 ended 06/05/94. The sample was analyzed 06/09/94, outside the holding time. Therefore any conclusions based on this data should qualified accordingly.

RECEIVED
7-20-94

SOURCE : FIMAD DATABASE

Exhibit A. Summary of Sample Analyses and Rad Van Screening Results, Septic Tank 0-030(c), Field Unit 1

Sample ID	Location	Analyte	Sample Value	Analytical Uncertainty	Units	Units Converted (mg/kg or pCi/g)	Screening Action Level	Comments
AAB 0190	Tank Floor Below Inlet	Acenaphthene	< 360	0	ug/kg	0.36	4800 mg/kg	
AAB 0190	Tank Floor Below Inlet	Acenaphthylene	< 360	0	ug/kg	NA	b	
AAB 0190	Tank Floor Below Inlet	Acetone	< 20	0	ug/kg	0.02	8000 mg/kg	
AAB 0190	Tank Floor Below Inlet	Aldrin	< 1.85	0	ug/kg	0.00185	0.04 mg/kg	
AAB 0190	Tank Floor Below Inlet	Americium-241	< 0.183	0	pCi/g	0.183	17 pCi/g	
AAB 0190	Tank Floor Below Inlet	Aniline	< 360	0	ug/kg	0.36	120 mg/kg	
AAB 0190	Tank Floor Below Inlet	Anthracene	< 360	0	ug/kg	0.36	24000 mg/kg	
AAB 0190	Tank Floor Below Inlet	Aroclor 1016	< 35.9	0	ug/kg	NA	b	
AAB 0190	Tank Floor Below Inlet	Aroclor 1221	< 72.9	0	ug/kg	NA	b	
AAB 0190	Tank Floor Below Inlet	Aroclor 1232	< 35.9	0	ug/kg	NA	b	
AAB 0190	Tank Floor Below Inlet	Aroclor 1242	< 35.9	0	ug/kg	NA	b	
AAB 0190	Tank Floor Below Inlet	Aroclor 1248	< 35.9	0	ug/kg	NA	b	
AAB 0190	Tank Floor Below Inlet	Aroclor 1254	< 35.9	0	ug/kg	NA	b	
AAB 0190	Tank Floor Below Inlet	Aroclor 1260	< 35.9	0	ug/kg	NA	b	
AAB 0190	Tank Floor Below Inlet	Aroclor [Mixed-]	< 35.9	0	ug/kg	0.0359	0.09 mg/kg	
AAB 0190	Tank Floor Below Inlet	Azobenzene	< 360	0	ug/kg	0.36	6.4 mg/kg	
AAB 0190	Tank Floor Below Inlet	Benzene	< 5	0	ug/kg	0.005	0.67 mg/kg	
AAB 0190	Tank Floor Below Inlet	Benzoic acid	< 1700	0	ug/kg	1.7	320000 mg/kg	
AAB 0190	Tank Floor Below Inlet	Benzo[a]anthracene	< 360	0	ug/kg	0.36	1 mg/kg	
AAB 0190	Tank Floor Below Inlet	Benzo[a]pyrene	< 360	0	ug/kg	0.36	0.1 mg/kg	Detection limit is greater than SAL
AAB 0190	Tank Floor Below Inlet	Benzo[b]fluoranthene	< 360	0	ug/kg	0.36	1 mg/kg	
AAB 0190	Tank Floor Below Inlet	Benzo[g,h,i]perylene	< 360	0	ug/kg	NA	b	
AAB 0190	Tank Floor Below Inlet	Benzo[k]fluoranthene	< 360	0	ug/kg	0.36	1 mg/kg	
AAB 0190	Tank Floor Below Inlet	Benzyl alcohol	< 360	0	ug/kg	0.36	24000 mg/kg	
AAB 0190	Tank Floor Below Inlet	BHC [alpha-]	< 1.85	0	ug/kg	0.00185	0.1 mg/kg	
AAB 0190	Tank Floor Below Inlet	BHC [beta-]	< 1.85	0	ug/kg	0.00185	4 mg/kg	
AAB 0190	Tank Floor Below Inlet	BHC [delta-]	< 1.85	0	ug/kg	NA	b	
AAB 0190	Tank Floor Below Inlet	Bis(2-chloroethoxy)methane	< 360	0	ug/kg	NA	b	
AAB 0190	Tank Floor Below Inlet	Bis(2-chloroethyl)ether	< 720	0	ug/kg	0.72	0.12 mg/kg	Detection limit is greater than SAL
AAB 0190	Tank Floor Below Inlet	Bis(2-chloroisopropyl)ether	< 360	0	ug/kg	0.36	100 mg/kg	
AAB 0190	Tank Floor Below Inlet	Bis(2-ethylhexyl)phthalate	< 360	0	ug/kg	0.36	50 mg/kg	
AAB 0190	Tank Floor Below Inlet	Bromobenzene	< 5	0	ug/kg	NA	b	
AAB 0190	Tank Floor Below Inlet	Bromochloromethane	< 5	0	ug/kg	NA	b	
AAB 0190	Tank Floor Below Inlet	Bromodichloromethane	< 5	0	ug/kg	0.005	11 mg/kg	
AAB 0190	Tank Floor Below Inlet	Bromoform	< 5	0	ug/kg	0.005	89 mg/kg	
AAB 0190	Tank Floor Below Inlet	Bromomethane	< 10	0	ug/kg	0.01	0.43 mg/kg	
AAB 0190	Tank Floor Below Inlet	Bromophenylphenyl ether [4-]	< 360	0	ug/kg	NA	b	
AAB 0190	Tank Floor Below Inlet	Butanone [2-]	< 20	0	ug/kg	0.02	4000 mg/kg	
AAB 0190	Tank Floor Below Inlet	Butyl benzyl phthalate	< 360	0	ug/kg	0.36	16000 mg/kg	
AAB 0190	Tank Floor Below Inlet	Butylbenzene [n-]	< 5	0	ug/kg	NA	b	
AAB 0190	Tank Floor Below Inlet	Butylbenzene [sec-]	< 5	0	ug/kg	NA	b	
AAB 0190	Tank Floor Below Inlet	Butylbenzene [tert-]	< 5	0	ug/kg	NA	b	
AAB 0190	Tank Floor Below Inlet	Carbon disulfide	< 5	0	ug/kg	0.005	7.4 mg/kg	
AAB 0190	Tank Floor Below Inlet	Carbon tetrachloride	< 5	0	ug/kg	0.005	0.21 mg/kg	
AAB 0190	Tank Floor Below Inlet	Cesium-137	< 0.155	0	pCi/g	0.155	4 pCi/g	
AAB 0190	Tank Floor Below Inlet	Chlordane [alpha-]	< 1.85	0	ug/kg	NA	b	
AAB 0190	Tank Floor Below Inlet	Chlordane [gamma-]	< 1.85	0	ug/kg	NA	b	
AAB 0190	Tank Floor Below Inlet	Chloro-3-methylphenol [4-]	< 360	0	ug/kg	0.36	16000 mg/kg	
AAB 0190	Tank Floor Below Inlet	Chloroaniline [4-]	< 360	0	ug/kg	0.36	320 mg/kg	

a Compound should be compared to background levels
b No SAL or background established
< Analytical result is below detection limit shown to right of symbol
TI Tentatively identified compound
NA Not applicable

3/3/95

DRAFT

Sample ID	Location	Analyte	Sample Value	Analytical Uncertainty	Units	Units Converted (mg/kg or pCi/g)	Screening Action Level	Comments
AAB 0190	Tank Floor Below Inlet	Chlorobenzene	< 5	0	ug/kg	0.005	67 mg/kg	
AAB 0190	Tank Floor Below Inlet	Chlorodibromomethane	< 5	0	ug/kg	0.005	83 mg/kg	
AAB 0190	Tank Floor Below Inlet	Chloroethane	< 10	0	ug/kg	0.01	2900 mg/kg	
AAB 0190	Tank Floor Below Inlet	Chloroform	< 5	0	ug/kg	0.005	0.21 mg/kg	
AAB 0190	Tank Floor Below Inlet	Chloromethane	< 10	0	ug/kg	0.01	6.4 mg/kg	
AAB 0190	Tank Floor Below Inlet	Chloronaphthalene [2-]	< 360	0	ug/kg	0.36	6400 mg/kg	
AAB 0190	Tank Floor Below Inlet	Chlorophenol [o-]	< 360	0	ug/kg	0.36	400 mg/kg	
AAB 0190	Tank Floor Below Inlet	Chlorophenylphenyl ether [4-]	< 360	0	ug/kg	NA	b	
AAB 0190	Tank Floor Below Inlet	Chlorotoluene [o-]	< 5	0	ug/kg	0.005	1600 mg/kg	
AAB 0190	Tank Floor Below Inlet	Chlorotoluene [p-]	< 5	0	ug/kg	NA	b	
AAB 0190	Tank Floor Below Inlet	Chrysene	< 360	0	ug/kg	0.36	96 mg/kg	
AAB 0190	Tank Floor Below Inlet	DDD [p,p'-]	39.4	11.82	ug/kg	0.0394	2.9 mg/kg	
AAB 0190	Tank Floor Below Inlet	DDE [p,p'-]	57.5	17.25	ug/kg	0.0575	2.1 mg/kg	
AAB 0190	Tank Floor Below Inlet	DDT [p,p'-]	65	19.5	ug/kg	0.065	2.1 mg/kg	
AAB 0190	Tank Floor Below Inlet	Di-n-butyl phthalate	< 360	0	ug/kg	0.36	8000 mg/kg	
AAB 0190	Tank Floor Below Inlet	Di-n-octyl phthalate	< 360	0	ug/kg	0.36	1600 mg/kg	
AAB 0190	Tank Floor Below Inlet	Dibenzofuran	< 360	0	ug/kg	NA	b	
AAB 0190	Tank Floor Below Inlet	Dibenzo[a,h]anthracene	< 360	0	ug/kg	0.36	0.1 mg/kg	Detection limit is greater than SAL
AAB 0190	Tank Floor Below Inlet	Dibenzo[a,h]anthracene	< 360	0	ug/kg	0.36	0.1 mg/kg	
AAB 0190	Tank Floor Below Inlet	Dibromo-3-chloropropane [1,2-]	< 10	0	ug/kg	0.01	0.5 mg/kg	
AAB 0190	Tank Floor Below Inlet	Dibromoethane [1,2-]	< 5	0	ug/kg	NA	b	
AAB 0190	Tank Floor Below Inlet	Dibromomethane	< 5	0	ug/kg	0.005	0.0082 mg/kg	
AAB 0190	Tank Floor Below Inlet	Dichlorobenzene (1,2) [o-]	< 5	0	ug/kg	0.005	1600 mg/kg	
AAB 0190	Tank Floor Below Inlet	Dichlorobenzene (1,3) [m-]	< 5	0	ug/kg	0.005	7200 mg/kg	
AAB 0190	Tank Floor Below Inlet	Dichlorobenzene (1,4) [p-]	< 5	0	ug/kg	0.005	29 mg/kg	
AAB 0190	Tank Floor Below Inlet	Dichlorobenzidine [3,3'-]	< 360	0	ug/kg	0.36	1.6 mg/kg	
AAB 0190	Tank Floor Below Inlet	Dichlorodifluoromethane	< 10	0	ug/kg	0.01	16000 mg/kg	
AAB 0190	Tank Floor Below Inlet	Dichloroethane [1,1-]	< 5	0	ug/kg	0.005	410 mg/kg	
AAB 0190	Tank Floor Below Inlet	Dichloroethane [1,2-]	< 5	0	ug/kg	0.005	0.2 mg/kg	
AAB 0190	Tank Floor Below Inlet	Dichloroethene [1,1-]	< 5	0	ug/kg	0.005	0.4 mg/kg	
AAB 0190	Tank Floor Below Inlet	Dichloroethene [trans-1,2-]	< 5	0	ug/kg	0.005	1600 mg/kg	
AAB 0190	Tank Floor Below Inlet	Dichloroethylene [cis-1,2-]	< 5	0	ug/kg	0.005	800 mg/kg	
AAB 0190	Tank Floor Below Inlet	Dichlorophenol [2,4-]	< 360	0	ug/kg	0.36	240 mg/kg	
AAB 0190	Tank Floor Below Inlet	Dichloropropane [1,2-]	< 5	0	ug/kg	0.005	6.5 mg/kg	
AAB 0190	Tank Floor Below Inlet	Dichloropropane [1,3-]	< 5	0	ug/kg	NA	b	
AAB 0190	Tank Floor Below Inlet	Dichloropropane [2,2-]	< 5	0	ug/kg	NA	b	
AAB 0190	Tank Floor Below Inlet	Dichloropropene [1,1-]	< 5	0	ug/kg	NA	b	
AAB 0190	Tank Floor Below Inlet	Dichloropropene [cis-1,3-]	< 5	0	ug/kg	0.005	0.17 mg/kg	
AAB 0190	Tank Floor Below Inlet	Dichloropropene [trans-1,3-]	< 5	0	ug/kg	0.005	0.17 mg/kg	
AAB 0190	Tank Floor Below Inlet	Dieldrin	< 3.59	0	ug/kg	0.00359	0.044 mg/kg	
AAB 0190	Tank Floor Below Inlet	Diethyl phthalate	< 360	0	ug/kg	0.36	64000 mg/kg	
AAB 0190	Tank Floor Below Inlet	Dimethyl phthalate	< 360	0	ug/kg	0.36	800000 mg/kg	
AAB 0190	Tank Floor Below Inlet	Dimethylphenol [2,4-]	< 360	0	ug/kg	0.36	1600 mg/kg	
AAB 0190	Tank Floor Below Inlet	Dinitrophenol [2,4-]	< 870	0	ug/kg	0.87	160 mg/kg	
AAB 0190	Tank Floor Below Inlet	Dinitrotoluene [2,4-]	< 360	0	ug/kg	0.36	1 mg/kg	
AAB 0190	Tank Floor Below Inlet	Dinitrotoluene [2,6-]	< 360	0	ug/kg	0.36	1 mg/kg	
AAB 0190	Tank Floor Below Inlet	Endosulfan I	< 1.85	0	ug/kg	NA	b	
AAB 0190	Tank Floor Below Inlet	Endosulfan II	< 3.59	0	ug/kg	NA	b	
AAB 0190	Tank Floor Below Inlet	Endosulfan sulfate	< 3.59	0	ug/kg	0.00359	4 mg/kg	
AAB 0190	Tank Floor Below Inlet	Endrin	< 3.59	0	ug/kg	0.00359	24 mg/kg	
AAB 0190	Tank Floor Below Inlet	Endrin aldehyde	< 3.59	0	ug/kg	NA	b	
AAB 0190	Tank Floor Below Inlet	Endrin ketone	< 3.59	0	ug/kg	NA	b	

a. Compound should be compared to background levels
b. No SAL or background established
< Analytical result is below detection limit shown to right of symbol
TI Tentatively identified compound
NA Not applicable

Sample ID	Location	Analyte	Sample Value	Analytical Uncertainty	Units	Units Converted (mg/kg or pCi/g)	Screening Action Level		Comments
AAB 0190	Tank Floor Below Inlet	Ethylbenzene	< 5	0	ug/kg	0.005	3100	mg/kg	
AAB 0190	Tank Floor Below Inlet	Fluoranthene	< 360	0	ug/kg	0.36	3200	mg/kg	
AAB 0190	Tank Floor Below Inlet	Fluorene	< 360	0	ug/kg	0.36	3200	mg/kg	
AAB 0190	Tank Floor Below Inlet	Heptachlor	< 1.85	0	ug/kg	0.00185	0.16	mg/kg	
AAB 0190	Tank Floor Below Inlet	Heptachlor epoxide	< 1.85	0	ug/kg	0.00185	0.077	mg/kg	
AAB 0190	Tank Floor Below Inlet	Hexachlorobenzene	< 360	0	ug/kg	0.36	0.44	mg/kg	
AAB 0190	Tank Floor Below Inlet	Hexachlorobutadiene	< 360	0	ug/kg	0.36	90	mg/kg	
AAB 0190	Tank Floor Below Inlet	Hexachlorocyclopentadiene	< 360	0	ug/kg	0.36	560	mg/kg	
AAB 0190	Tank Floor Below Inlet	Hexachloroethane	< 360	0	ug/kg	0.36	80	mg/kg	
AAB 0190	Tank Floor Below Inlet	Hexanone [2-]	< 20	0	ug/kg	NA	b		
AAB 0190	Tank Floor Below Inlet	Indeno[1,2,3-cd]pyrene	< 360	0	ug/kg	0.36	1	mg/kg	
AAB 0190	Tank Floor Below Inlet	Isophorone	< 360	0	ug/kg	0.36	7400	mg/kg	
AAB 0190	Tank Floor Below Inlet	Isopropylbenzene	< 5	0	ug/kg	0.005	3200	mg/kg	
AAB 0190	Tank Floor Below Inlet	Isopropyltoluene [4-]	< 5	0	ug/kg	NA	b		
AAB 0190	Tank Floor Below Inlet	Lindane	< 1.85	0	ug/kg	0.00185	0.54	mg/kg	
AAB 0190	Tank Floor Below Inlet	Methoxychlor	< 18.5	0	ug/kg	0.0185	400	mg/kg	
AAB 0190	Tank Floor Below Inlet	Methyl iodide	< 5	0	ug/kg	NA	b		
AAB 0190	Tank Floor Below Inlet	Methyl-2-pentanone [4-]	< 20	0	ug/kg	0.02	510	mg/kg	
AAB 0190	Tank Floor Below Inlet	Methyl-4,6-dinitrophenol [2-]	< 870	0	ug/kg	NA	b		
AAB 0190	Tank Floor Below Inlet	Methylene chloride	< 5	0	ug/kg	0.005	5.6	mg/kg	
AAB 0190	Tank Floor Below Inlet	Methylnaphthalene [2-]	< 360	0	ug/kg	NA	b		
AAB 0190	Tank Floor Below Inlet	Methylphenol [2-]	< 360	0	ug/kg	0.36	4000	mg/kg	
AAB 0190	Tank Floor Below Inlet	Methylphenol [4-]	< 360	0	ug/kg	0.36	400	mg/kg	
AAB 0190	Tank Floor Below Inlet	Naphthalene	< 360	0	ug/kg	0.36	3200	mg/kg	
AAB 0190	Tank Floor Below Inlet	Nitroaniline [2-]	< 870	0	ug/kg	NA	b		
AAB 0190	Tank Floor Below Inlet	Nitroaniline [3-]	< 870	0	ug/kg	0.87	240	mg/kg	
AAB 0190	Tank Floor Below Inlet	Nitroaniline [4-]	< 720	0	ug/kg	0.72	240	mg/kg	
AAB 0190	Tank Floor Below Inlet	Nitrobenzene	< 360	0	ug/kg	0.36	5.3	mg/kg	
AAB 0190	Tank Floor Below Inlet	Nitrophenol [2-]	< 360	0	ug/kg	NA	b		
AAB 0190	Tank Floor Below Inlet	Nitrophenol [4-]	< 870	0	ug/kg	0.87	5000	mg/kg	
AAB 0190	Tank Floor Below Inlet	Nitrosodi-n-propylamine [N-]	< 360	0	ug/kg	0.36	0.1	mg/kg	Detection limit is greater than SAL
AAB 0190	Tank Floor Below Inlet	Nitrosodimethylamine [N-]	< 360	0	ug/kg	0.36	0.014	mg/kg	Detection limit is greater than SAL
AAB 0190	Tank Floor Below Inlet	Nitrosodiphenylamine [N-]	< 360	0	ug/kg	0.36	140	mg/kg	
AAB 0190	Tank Floor Below Inlet	Pentachlorophenol	< 870	0	ug/kg	0.87	5.8	mg/kg	
AAB 0190	Tank Floor Below Inlet	Phenanthrene	< 360	0	ug/kg	NA	b		
AAB 0190	Tank Floor Below Inlet	Phenol	< 360	0	ug/kg	0.36	48000	mg/kg	
AAB 0190	Tank Floor Below Inlet	Plutonium-238	0.03	0.095	pCi/g	0.03	20	pCi/g	
AAB 0190	Tank Floor Below Inlet	Plutonium-239	0.141	0.107	pCi/g	0.141	18	pCi/g	
AAB 0190	Tank Floor Below Inlet	Potassium-40	25.2	1.275	pCi/g	NA	b		No background established
AAB 0190	Tank Floor Below Inlet	Propylbenzene	< 5	0	ug/kg	NA	b		
AAB 0190	Tank Floor Below Inlet	Pyrene	< 360	0	ug/kg	0.36	2400	mg/kg	
AAB 0190	Tank Floor Below Inlet	Radium-226	1.21	0.075	pCi/g	1.21	5	pCi/g	
AAB 0190	Tank Floor Below Inlet	Radvan Gross Alpha Screening	-3.69	83.28	pCi/g	NA	b		
AAB 0190	Tank Floor Below Inlet	Radvan Gross Beta Screening	-3.2	90.73	pCi/g	NA	b		
AAB 0190	Tank Floor Below Inlet	Radvan Gross Gamma Screening	-0.17	2.16	pCi/g	NA	b		
AAB 0190	Tank Floor Below Inlet	Styrene	< 5	0	ug/kg	0.005	3300	mg/kg	
AAB 0190	Tank Floor Below Inlet	Tetrachloroethane [1,1,1,2-]	< 5	0	ug/kg	0.005	270	mg/kg	
AAB 0190	Tank Floor Below Inlet	Tetrachloroethane [1,1,2,2-]	< 5	0	ug/kg	0.005	3.9	mg/kg	
AAB 0190	Tank Floor Below Inlet	Tetrachloroethylene	< 5	0	ug/kg	0.005	5.9	mg/kg	
AAB 0190	Tank Floor Below Inlet	Toluene	< 5	0	ug/kg	0.005	910	mg/kg	
AAB 0190	Tank Floor Below Inlet	Toxaphene	< 185	0	ug/kg	0.185	0.64	mg/kg	
AAB 0190	Tank Floor Below Inlet	Trichloro-1,2,2-trifluoroethane [1,1,2-]	< 5	0	ug/kg	NA	b		

a. Compound should be compared to background levels
b. No SAL or background established
< Analytical result is below detection limit shown to right of symbol
TI Tentatively identified compound
NA Not applicable

Sample ID	Location	Analyte	Sample Value	Analytical Uncertainty	Units	Units Converted (mg/kg or pCi/g)	Screening Action Level	Comments
AAB 0190	Tank Floor Below Inlet	Trichlorobenzene [1,2,4-]	< 360	0	ug/kg	0.36	160 mg/kg	
AAB 0190	Tank Floor Below Inlet	Trichloroethane [1,1,1-]	< 5	0	ug/kg	0.005	1000 mg/kg	
AAB 0190	Tank Floor Below Inlet	Trichloroethane [1,1,2-]	< 5	0	ug/kg	0.005	6.3 mg/kg	
AAB 0190	Tank Floor Below Inlet	Trichloroethene	< 5	0	ug/kg	0.005	3.2 mg/kg	
AAB 0190	Tank Floor Below Inlet	Trichlorofluoromethane	< 5	0	ug/kg	0.005	24000 mg/kg	
AAB 0190	Tank Floor Below Inlet	Trichlorophenol [2,4,5-]	< 870	0	ug/kg	0.87	8000 mg/kg	
AAB 0190	Tank Floor Below Inlet	Trichlorophenol [2,4,6-]	< 360	0	ug/kg	0.36	64 mg/kg	
AAB 0190	Tank Floor Below Inlet	Trichloropropane [1,2,3-]	< 5	0	ug/kg	0.005	480 mg/kg	
AAB 0190	Tank Floor Below Inlet	Trimethylbenzene [1,2,4-]	< 5	0	ug/kg	0.005	40 mg/kg	
AAB 0190	Tank Floor Below Inlet	Trimethylbenzene [1,3,5-]	< 5	0	ug/kg	0.005	32 mg/kg	
AAB 0190	Tank Floor Below Inlet	Unknown organic compound	TI 980	0	ug/kg	NA	NA	
AAB 0190	Tank Floor Below Inlet	Uranium	2.57	0.1255	ug/g	2.57	a	Below Background of 3.41 mg/kg
AAB 0190	Tank Floor Below Inlet	Vinyl chloride	< 10	0	ug/kg	0.01	0.013 mg/kg	
AAB 0190	Tank Floor Below Inlet	Xylenes (o + m + p) [Mixed-]	< 5	0	ug/kg	0.005	160000 mg/kg	
AAB 0195	Under Drainline, South	Acenaphthene	< 360	0	ug/kg	0.36	4800 mg/kg	
AAB 0195	Under Drainline, South	Acenaphthylene	< 380	0	ug/kg	NA	b	
AAB 0195	Under Drainline, South	Acetone	< 22	0	ug/kg	0.022	8000 mg/kg	
AAB 0195	Under Drainline, South	Aldrin	< 1.95	0	ug/kg	0.00195	0.04 mg/kg	
AAB 0195	Under Drainline, South	Americium-241	< 0.169	0	pCi/g	0.169	17 pCi/g	
AAB 0195	Under Drainline, South	Aniline	< 360	0	ug/kg	0.36	120 mg/kg	
AAB 0195	Under Drainline, South	Anthracene	< 380	0	ug/kg	0.38	24000 mg/kg	
AAB 0195	Under Drainline, South	Aroclor 1016	< 35.8	0	ug/kg	NA	b	
AAB 0195	Under Drainline, South	Aroclor 1221	< 76.7	0	ug/kg	NA	b	
AAB 0195	Under Drainline, South	Aroclor 1232	< 35.8	0	ug/kg	NA	b	
AAB 0195	Under Drainline, South	Aroclor 1242	< 37.8	0	ug/kg	NA	b	
AAB 0195	Under Drainline, South	Aroclor 1248	< 35.8	0	ug/kg	NA	b	
AAB 0195	Under Drainline, South	Aroclor 1254	< 37.8	0	ug/kg	NA	b	
AAB 0195	Under Drainline, South	Aroclor 1260	< 37.8	0	ug/kg	NA	b	
AAB 0195	Under Drainline, South	Azobenzene	< 360	0	ug/kg	0.36	6.4 mg/kg	
AAB 0195	Under Drainline, South	Benzene	< 6	0	ug/kg	0.006	0.67 mg/kg	
AAB 0195	Under Drainline, South	Benzoic acid	< 1700	0	ug/kg	1.7	320000 mg/kg	
AAB 0195	Under Drainline, South	Benzo[a]anthracene	< 380	0	ug/kg	0.38	1 mg/kg	
AAB 0195	Under Drainline, South	Benzo[a]pyrene	< 360	0	ug/kg	0.36	0.1 mg/kg	Detection limit is greater than SAL
AAB 0195	Under Drainline, South	Benzo[a]pyrene	< 380	0	ug/kg	0.38	0.1 mg/kg	
AAB 0195	Under Drainline, South	Benzo[b]fluoranthene	< 360	0	ug/kg	0.36	1 mg/kg	
AAB 0195	Under Drainline, South	Benzo[g,h,i]perylene	< 380	0	ug/kg	NA	b	
AAB 0195	Under Drainline, South	Benzo[k]fluoranthene	< 360	0	ug/kg	0.36	1 mg/kg	
AAB 0195	Under Drainline, South	Benzyl alcohol	< 920	0	ug/kg	0.92	24000 mg/kg	
AAB 0195	Under Drainline, South	BHC [alpha-]	< 1.85	0	ug/kg	0.00185	0.1 mg/kg	
AAB 0195	Under Drainline, South	BHC [beta-]	< 1.95	0	ug/kg	0.00195	4 mg/kg	
AAB 0195	Under Drainline, South	BHC [delta-]	< 1.95	0	ug/kg	NA	b	
AAB 0195	Under Drainline, South	Bis(2-chloroethoxy)methane	< 360	0	ug/kg	NA	b	
AAB 0195	Under Drainline, South	Bis(2-chloroethyl)ether	< 870	0	ug/kg	0.87	0.12 mg/kg	Detection limit is greater than SAL
AAB 0195	Under Drainline, South	Bis(2-chloroethyl)ether	< 920	0	ug/kg	0.92	0.12 mg/kg	Detection limit is greater than SAL
AAB 0195	Under Drainline, South	Bis(2-chloroethyl)ether	< 870	0	ug/kg	0.87	0.12 mg/kg	
AAB 0195	Under Drainline, South	Bis(2-chloroisopropyl)ether	< 360	0	ug/kg	0.36	100 mg/kg	
AAB 0195	Under Drainline, South	Bis(2-ethylhexyl)phthalate	< 380	0	ug/kg	0.38	50 mg/kg	
AAB 0195	Under Drainline, South	Bromobenzene	< 6	0	ug/kg	NA	b	
AAB 0195	Under Drainline, South	Bromochloromethane	< 6	0	ug/kg	NA	b	
AAB 0195	Under Drainline, South	Bromodichloromethane	< 6	0	ug/kg	0.006	11 mg/kg	
AAB 0195	Under Drainline, South	Bromoform	< 6	0	ug/kg	0.006	89 mg/kg	
AAB 0195	Under Drainline, South	Bromomethane	< 11	0	ug/kg	0.011	0.43 mg/kg	

a Compound should be compared to background levels
b. No SAL or background established
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TI Tentatively identified compound
NA Not applicable

Sample ID	Location	Analyte	Sample Value	Analytical Uncertainty	Units	Units Converted (mg/kg or pCi/g)	Screening Action Level	Comments
AAB 0195	Under Drainline, South	Bromophenylphenyl ether [4-]	< 360	0	ug/kg	NA	b	
AAB 0195	Under Drainline, South	Butanone [2-]	< 23	0	ug/kg	0.023	4000 mg/kg	
AAB 0195	Under Drainline, South	Butyl benzyl phthalate	< 360	0	ug/kg	0.36	16000 mg/kg	
AAB 0195	Under Drainline, South	Butylbenzene [n-]	< 6	0	ug/kg	NA	b	
AAB 0195	Under Drainline, South	Butylbenzene [sec-]	< 5	0	ug/kg	NA	b	
AAB 0195	Under Drainline, South	Butylbenzene [tert-]	< 6	0	ug/kg	NA	b	
AAB 0195	Under Drainline, South	Carbon disulfide	< 6	0	ug/kg	0.006	7.4 mg/kg	
AAB 0195	Under Drainline, South	Carbon tetrachloride	< 6	0	ug/kg	0.006	0.21 mg/kg	
AAB 0195	Under Drainline, South	Cesium-137	< 0.238	0	pCi/g	0.238	4 pCi/g	
AAB 0195	Under Drainline, South	Chlordane [alpha-]	< 1.85	0	ug/kg	NA	b	
AAB 0195	Under Drainline, South	Chlordane [gamma-]	< 1.85	0	ug/kg	NA	b	
AAB 0195	Under Drainline, South	Chloro-3-methylphenol [4-]	< 870	0	ug/kg	0.87	16000 mg/kg	
AAB 0195	Under Drainline, South	Chloroaniline [4-]	< 870	0	ug/kg	0.87	320 mg/kg	
AAB 0195	Under Drainline, South	Chlorobenzene	< 5	0	ug/kg	0.005	67 mg/kg	
[illegible] 0195	Under Drainline, South	Chlorodibromomethane	< 5	0	ug/kg	0.005	83 mg/kg	
[illegible] 0195	Under Drainline, South	Chloroethane	< 11	0	ug/kg	0.011	2900 mg/kg	
AAB 0195	Under Drainline, South	Chloroform	< 5	0	ug/kg	0.005	0.21 mg/kg	
AAB 0195	Under Drainline, South	Chloromethane	< 11	0	ug/kg	0.011	6.4 mg/kg	
AAB 0195	Under Drainline, South	Chloronaphthalene [2-]	< 360	0	ug/kg	0.36	6400 mg/kg	
AAB 0195	Under Drainline, South	Chlorophenol [o-]	< 360	0	ug/kg	0.36	400 mg/kg	
AAB 0195	Under Drainline, South	Chlorophenylphenyl ether [4-]	< 360	0	ug/kg	NA	b	
AAB 0195	Under Drainline, South	Chlorotoluene [o-]	< 5	0	ug/kg	0.005	1600 mg/kg	
AAB 0195	Under Drainline, South	Chlorotoluene [p-]	< 5	0	ug/kg	NA	b	
AAB 0195	Under Drainline, South	Chrysene	< 360	0	ug/kg	0.36	96 mg/kg	
AAB 0195	Under Drainline, South	DDD [p,p'-]	< 358	0	ug/kg	0.358	2.9 mg/kg	
AAB 0195	Under Drainline, South	DDE [p,p'-]	105	17.76	ug/kg	0.105	2.1 mg/kg	
AAB 0195	Under Drainline, South	DDT [p,p'-]	110	5.76	ug/kg	0.11	2.1 mg/kg	
AAB 0195	Under Drainline, South	Di-n-butyl phthalate	< 360	0	ug/kg	0.36	8000 mg/kg	
AAB 0195	Under Drainline, South	Di-n-octyl phthalate	< 360	0	ug/kg	0.36	1600 mg/kg	
AAB 0195	Under Drainline, South	Dibenzofuran	< 360	0	ug/kg	NA	b	
AAB 0195	Under Drainline, South	Dibenzo[a,h]anthracene	< 360	0	ug/kg	0.36	0.1 mg/kg	Detection limit is greater than SAL
AAB 0195	Under Drainline, South	Dibenzo[a,h]anthracene	< 380	0	ug/kg	0.38	0.1 mg/kg	Detection limit is greater than SAL
AAB 0195	Under Drainline, South	Dibromo-3-chloropropane [1,2-]	< 11	0	ug/kg	0.011	0.5 mg/kg	
AAB 0195	Under Drainline, South	Dibromoethane [1,2-]	< 5	0	ug/kg	NA	b	
AAB 0195	Under Drainline, South	Dibromomethane	< 5	0	ug/kg	0.005	0.0082 mg/kg	
AAB 0195	Under Drainline, South	Dichlorobenzene (1,2) [o-]	< 5	0	ug/kg	0.005	1600 mg/kg	
[illegible] 0195	Under Drainline, South	Dichlorobenzene (1,3) [m-]	< 5	0	ug/kg	0.005	7200 mg/kg	
[illegible] 0195	Under Drainline, South	Dichlorobenzene (1,4) [p-]	< 5	0	ug/kg	0.005	29 mg/kg	
AAB 0195	Under Drainline, South	Dichlorobenzidine [3,3'-]	< 870	0	ug/kg	0.87	1.6 mg/kg	
AAB 0195	Under Drainline, South	Dichlorodifluoromethane	< 11	0	ug/kg	0.011	16000 mg/kg	
AAB 0195	Under Drainline, South	Dichloroethane [1,1-]	< 5	0	ug/kg	0.005	410 mg/kg	
AAB 0195	Under Drainline, South	Dichloroethane [1,2-]	< 5	0	ug/kg	0.005	0.2 mg/kg	
AAB 0195	Under Drainline, South	Dichloroethene [1,1-]	< 5	0	ug/kg	0.005	0.4 mg/kg	
AAB 0195	Under Drainline, South	Dichlorophenol [2,4-]	< 360	0	ug/kg	0.36	240 mg/kg	
AAB 0195	Under Drainline, South	Dichloropropane [1,2-]	< 5	0	ug/kg	0.005	6.5 mg/kg	
AAB 0195	Under Drainline, South	Dichloropropane [1,3-]	< 5	0	ug/kg	NA	b	
AAB 0195	Under Drainline, South	Dichloropropane [2,2-]	< 5	0	ug/kg	NA	b	
AAB 0195	Under Drainline, South	Dichloropropene [1,1-]	< 5	0	ug/kg	NA	b	
AAB 0195	Under Drainline, South	Dichloropropene [cis-1,3-]	< 5	0	ug/kg	0.005	0.17 mg/kg	
AAB 0195	Under Drainline, South	Dichloropropene [trans-1,3-]	< 5	0	ug/kg	0.005	0.17 mg/kg	
AAB 0195	Under Drainline, South	Dieldrin	< 3.58	0	ug/kg	0.00358	0.044 mg/kg	
AAB 0195	Under Drainline, South	Diethyl phthalate	< 360	0	ug/kg	0.36	64000 mg/kg	

a. Compound should be compared to background levels
b. No SAL or background established
< Analytical result is below detection limit shown to right of symbol
TI Tentatively identified compound
NA Not applicable

Sample ID	Location	Analyte	Sample Value	Analytical Uncertainty	Units	Units Converted (mg/kg or pCi/g)	Screening Action Level	Comments
AAB 0195	Under Drainline, South	Dimethyl phthalate	< 360	0	ug/kg	0.36	800000 mg/kg	
AAB 0195	Under Drainline, South	Dimethylphenol [2,4-]	< 360	0	ug/kg	0.36	1600 mg/kg	
AAB 0195	Under Drainline, South	Dinitrophenol [2,4-]	< 870	0	ug/kg	0.87	160 mg/kg	
AAB 0195	Under Drainline, South	Dinitrotoluene [2,4-]	< 360	0	ug/kg	0.36	1 mg/kg	
AAB 0195	Under Drainline, South	Dinitrotoluene [2,6-]	< 360	0	ug/kg	0.36	1 mg/kg	
AAB 0195	Under Drainline, South	Endosulfan I	< 1.85	0	ug/kg	NA	b	
AAB 0195	Under Drainline, South	Endosulfan II	< 3.58	0	ug/kg	NA	b	
AAB 0195	Under Drainline, South	Endosulfan sulfate	< 3.58	0	ug/kg	0.00358	4 mg/kg	
AAB 0195	Under Drainline, South	Endrin	< 3.58	0	ug/kg	0.00358	24 mg/kg	
AAB 0195	Under Drainline, South	Endrin aldehyde	< 3.58	0	ug/kg	NA	b	
AAB 0195	Under Drainline, South	Endrin ketone	< 3.58	0	ug/kg	NA	b	
AAB 0195	Under Drainline, South	Ethylbenzene	< 5	0	ug/kg	0.005	3100 mg/kg	
AAB 0195	Under Drainline, South	Fluoranthene	< 360	0	ug/kg	0.36	3200 mg/kg	
AAB 0195	Under Drainline, South	Fluorene	< 360	0	ug/kg	0.36	3200 mg/kg	
AAB 0195	Under Drainline, South	Heptachlor	< 1.75	0	ug/kg	0.00175	0.16 mg/kg	
AAB 0195	Under Drainline, South	Heptachlor epoxide	< 1.75	0	ug/kg	0.00175	0.077 mg/kg	
AAB 0195	Under Drainline, South	Hexachlorobenzene	< 360	0	ug/kg	0.36	0.44 mg/kg	
AAB 0195	Under Drainline, South	Hexachlorobutadiene	< 360	0	ug/kg	0.36	90 mg/kg	
AAB 0195	Under Drainline, South	Hexachlorocyclopentadiene	< 360	0	ug/kg	0.36	560 mg/kg	
AAB 0195	Under Drainline, South	Hexachloroethane	< 360	0	ug/kg	0.36	80 mg/kg	
AAB 0195	Under Drainline, South	Hexanone [2-]	< 22	0	ug/kg	NA	b	
AAB 0195	Under Drainline, South	Indeno[1,2,3-cd]pyrene	< 360	0	ug/kg	0.36	1 mg/kg	
AAB 0195	Under Drainline, South	Isophorone	< 360	0	ug/kg	0.36	7400 mg/kg	
AAB 0195	Under Drainline, South	Isopropylbenzene	< 5	0	ug/kg	0.005	3200 mg/kg	
AAB 0195	Under Drainline, South	Isopropyltoluene [4-]	< 5	0	ug/kg	NA	b	
AAB 0195	Under Drainline, South	Lindane	< 1.85	0	ug/kg	0.00185	0.54 mg/kg	
AAB 0195	Under Drainline, South	Methoxychlor	< 18.5	0	ug/kg	0.0185	400 mg/kg	
AAB 0195	Under Drainline, South	Methyl iodide	< 5	0	ug/kg	NA	b	
AAB 0195	Under Drainline, South	Methyl-2-pentanone [4-]	< 22	0	ug/kg	0.022	510 mg/kg	
AAB 0195	Under Drainline, South	Methyl-4,6-dinitrophenol [2-]	< 870	0	ug/kg	NA	b	
AAB 0195	Under Drainline, South	Methylene chloride	< 5	0	ug/kg	0.005	5.6 mg/kg	
AAB 0195	Under Drainline, South	Methylnaphthalene [2-]	< 360	0	ug/kg	NA	b	
AAB 0195	Under Drainline, South	Methylphenol [2-]	< 360	0	ug/kg	0.36	4000 mg/kg	
AAB 0195	Under Drainline, South	Methylphenol [4-]	< 360	0	ug/kg	0.36	400 mg/kg	
AAB 0195	Under Drainline, South	Naphthalene	< 360	0	ug/kg	0.36	3200 mg/kg	
AAB 0195	Under Drainline, South	Nitroaniline [2-]	< 870	0	ug/kg	NA	b	
AAB 0195	Under Drainline, South	Nitroaniline [3-]	< 870	0	ug/kg	0.87	240 mg/kg	
AAB 0195	Under Drainline, South	Nitroaniline [4-]	< 870	0	ug/kg	0.87	240 mg/kg	
AAB 0195	Under Drainline, South	Nitrobenzene	< 360	0	ug/kg	0.36	5.3 mg/kg	
AAB 0195	Under Drainline, South	Nitrophenol [2-]	< 360	0	ug/kg	NA	b	
AAB 0195	Under Drainline, South	Nitrophenol [4-]	< 870	0	ug/kg	0.87	5000 mg/kg	
AAB 0195	Under Drainline, South	Nitrosodi-n-propylamine [N-]	< 360	0	ug/kg	0.36	0.1 mg/kg	Detection limit is greater than SAL
AAB 0195	Under Drainline, South	Nitrosodi-n-propylamine [N-]	< 360	0	ug/kg	0.36	0.1 mg/kg	
AAB 0195	Under Drainline, South	Nitrosodimethylamine [N-]	< 360	0	ug/kg	0.36	0.014 mg/kg	Detection limit is greater than SAL
AAB 0195	Under Drainline, South	Nitrosodiphenylamine [N-]	< 360	0	ug/kg	0.36	140 mg/kg	
AAB 0195	Under Drainline, South	Pentachlorophenol	< 870	0	ug/kg	0.87	5.8 mg/kg	
AAB 0195	Under Drainline, South	Phenanthrene	< 360	0	ug/kg	NA	b	
AAB 0195	Under Drainline, South	Phenol	< 360	0	ug/kg	0.36	48000 mg/kg	
AAB 0195	Under Drainline, South	Plutonium-238	- 0.0409	0.0441	pCi/g	0.0409	20 pCi/g	
AAB [illegible]	Under Drainline, South	Plutonium-239	0.0153	0.0396	pCi/g	0.0153	18 pCi/g	
AAB [illegible]	Under Drainline, South	Potassium-40	26.6	1.285	pCi/g	NA	b	No background established
AAB [illegible]	Under Drainline, South	Propylbenzene	< 5	0	ug/kg	NA	b	

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Sample ID	Location	Analyte	Sample Value	Analytical Uncertainty	Units	Units Converted (mg/kg or pCi/g)	Screening Action Level	Comments
AAB 0195	Under Drainline, South	Pyrene	< 360	0	ug/kg	0.36	2400 mg/kg	
AAB 0195	Under Drainline, South	Radium-226	1.14	0.061	pCi/g	1.14	5 pCi/g	
AAB 0195	Under Drainline, South	Radvan Gross Alpha Screening	44.28	120.4	pCi/g	NA	b	
AAB 0195	Under Drainline, South	Radvan Gross Beta Screening	17.08	90.73	pCi/g	NA	b	
AAB 0195	Under Drainline, South	Radvan Gross Gamma Screening	-1	2.16	pCi/g	NA	b	
AAB 0195	Under Drainline, South	Saturated Hydrocarbons	TI 730	0	ug/kg	NA	NA	
AAB 0195	Under Drainline, South	Styrene	< 5	0	ug/kg	0.005	3300 mg/kg	
AAB 0195	Under Drainline, South	Tetrachloroethane [1,1,1,2-]	< 5	0	ug/kg	0.005	270 mg/kg	
AAB 0195	Under Drainline, South	Tetrachloroethane [1,1,2,2-]	< 5	0	ug/kg	0.005	3.9 mg/kg	
AAB 0195	Under Drainline, South	Tetrachloroethylene	< 5	0	ug/kg	0.005	5.9 mg/kg	
AAB 0195	Under Drainline, South	Toluene	< 5	0	ug/kg	0.005	910 mg/kg	
AAB 0195	Under Drainline, South	Toxaphene	< 185	0	ug/kg	0.185	0.64 mg/kg	
AAB 0195	Under Drainline, South	Trichloro-1,2,2-trifluoroethane [1,1,2-]	< 5	0	ug/kg	NA	b	
AAB 0195	Under Drainline, South	Trichlorobenzene [1,2,4-]	< 360	0	ug/kg	0.36	160 mg/kg	
AAB 0195	Under Drainline, South	Trichloroethane [1,1,1-]	< 6	0	ug/kg	0.006	1000 mg/kg	
AAB 0195	Under Drainline, South	Trichloroethane [1,1,2-]	< 5	0	ug/kg	0.005	6.3 mg/kg	
AAB 0195	Under Drainline, South	Trichloroethene	< 5	0	ug/kg	0.005	3.2 mg/kg	
AAB 0195	Under Drainline, South	Trichlorofluoromethane	< 5	0	ug/kg	0.005	24000 mg/kg	
AAB 0195	Under Drainline, South	Trichlorophenol [2,4,5-]	< 870	0	ug/kg	0.87	8000 mg/kg	
AAB 0195	Under Drainline, South	Trichlorophenol [2,4,6-]	< 360	0	ug/kg	0.36	64 mg/kg	
AAB 0195	Under Drainline, South	Trichloropropane [1,2,3-]	< 5	0	ug/kg	0.005	480 mg/kg	
AAB 0195	Under Drainline, South	Trimethylbenzene [1,2,4-]	< 5	0	ug/kg	0.005	40 mg/kg	
AAB 0195	Under Drainline, South	Trimethylbenzene [1,3,5-]	< 5	0	ug/kg	0.005	32 mg/kg	
AAB 0195	Under Drainline, South	Unknown organic compound	TI 10	0	ug/kg	NA	NA	
AAB 0195	Under Drainline, South	Unknown organic compound	TI 390	0	ug/kg	NA	NA	
AAB 0195	Under Drainline, South	Unknown organic compound	TI 560	0	ug/kg	NA	NA	
AAB 0195	Under Drainline, South	Uranium	1.67	0.0871	ug/g	1.67	a	Below background of 3.41 mg/kg
AAB 0195	Under Drainline, South	Vinyl chloride	< 11	0	ug/kg	0.011	0.013 mg/kg	
AAB 0195	Under Drainline, South	Xylenes (o + m + p) [Mixed-]	< 5	0	ug/kg	0.005	160000 mg/kg	
AAB 0198	Under Drainline, North	Acenaphthene	< 360	0	ug/kg	0.36	4800 mg/kg	
AAB 0198	Under Drainline, North	Acenaphthylene	< 360	0	ug/kg	NA	b	
AAB 0198	Under Drainline, North	Acetone	< 22	0	ug/kg	0.022	8000 mg/kg	
AAB 0198	Under Drainline, North	Aldrin	< 1.85	0	ug/kg	0.00185	0.04 mg/kg	
AAB 0198	Under Drainline, North	Americium-241	< 0.194	0	pCi/g	0.194	17 pCi/g	
AAB 0198	Under Drainline, North	Aniline	< 360	0	ug/kg	0.36	120 mg/kg	
AAB 0198	Under Drainline, North	Anthracene	< 360	0	ug/kg	0.36	24000 mg/kg	
AAB 0198	Under Drainline, North	Antimony	< 0.25	0	ug/g	0.25	32 mg/kg	
AAB 0198	Under Drainline, North	Aroclor 1016	< 35.8	0	ug/kg	NA	b	
AAB 0198	Under Drainline, North	Aroclor 1221	< 72.8	0	ug/kg	NA	b	
AAB 0198	Under Drainline, North	Aroclor 1232	< 35.8	0	ug/kg	NA	b	
AAB 0198	Under Drainline, North	Aroclor 1242	< 35.8	0	ug/kg	NA	b	
AAB 0198	Under Drainline, North	Aroclor 1248	< 35.8	0	ug/kg	NA	b	
AAB 0198	Under Drainline, North	Aroclor 1254	< 35.8	0	ug/kg	NA	b	
AAB 0198	Under Drainline, North	Aroclor 1260	< 35.8	0	ug/kg	NA	b	
AAB 0198	Under Drainline, North	Arsenic	3.3	0.4	ug/g	3.3	a	Below Background of 5.04 mg/kg
AAB 0198	Under Drainline, North	Azobenzene	< 360	0	ug/kg	0.36	6.4 mg/kg	
AAB 0198	Under Drainline, North	Barium	43	4	ug/g	43	5600 mg/kg	
AAB 0198	Under Drainline, North	Benzene	< 5	0	ug/kg	0.005	0.67 mg/kg	
AAB 0198	Under Drainline, North	Benzoic acid	< 1700	0	ug/kg	1.7	320000 mg/kg	
AAB 0198	Under Drainline, North	Benzo[a]anthracene	< 360	0	ug/kg	0.36	1 mg/kg	
AAB 0198	Under Drainline, North	Benzo[a]pyrene	< 360	0	ug/kg	0.36	0.1 mg/kg	Detection limit is greater than SAL
AAB 0198	Under Drainline, North	Benzo[b]fluoranthene	< 360	0	ug/kg	0.36	1 mg/kg	

a Compound should be compared to background levels
b. No SAL or background established
< Analytical result is below detection limit shown to right of symbol
TI Tentatively identified compound
NA Not applicable

Sample ID	Location	Analyte	Sample Value	Analytical Uncertainty	Units	Units Converted (mg/kg or pCi/g)	Screening Action Level	Comments
AAB 0198	Under Drainline, North	Benzo[g,h,i]perylene	< 360	0	ug/kg	NA	b	
AAB 0198	Under Drainline, North	Benzo[k]fluoranthene	< 360	0	ug/kg	0.36	1 mg/kg	
AAB 0198	Under Drainline, North	Benzyl alcohol	< 870	0	ug/kg	0.87	24000 mg/kg	
AAB 0198	Under Drainline, North	Beryllium	0.54	0.08	ug/g	0.54	a	Below Background of 2.37 mg/kg
AAB 0198	Under Drainline, North	BHC [alpha-]	< 1.85	0	ug/kg	0.00185	0.1 mg/kg	
AAB 0198	Under Drainline, North	BHC [beta-]	< 1.85	0	ug/kg	0.00185	4 mg/kg	
AAB 0198	Under Drainline, North	BHC [delta-]	< 1.85	0	ug/kg	NA	b	
AAB 0198	Under Drainline, North	Bis(2-chloroethoxy)methane	< 360	0	ug/kg	NA	b	
AAB 0198	Under Drainline, North	Bis(2-chloroethyl)ether	< 870	0	ug/kg	0.87	0.12 mg/kg	Detection limit is greater than SAL
AAB 0198	Under Drainline, North	Bis(2-chloroisopropyl)ether	< 360	0	ug/kg	0.36	100 mg/kg	
AAB 0198	Under Drainline, North	Bis(2-ethylhexyl)phthalate	< 360	0	ug/kg	0.36	50 mg/kg	
AAB 0198	Under Drainline, North	Bromobenzene	< 5	0	ug/kg	NA	b	
AAB 0198	Under Drainline, North	Bromochloromethane	< 5	0	ug/kg	NA	b	
AAB 0198	Under Drainline, North	Bromodichloromethane	< 5	0	ug/kg	0.005	11 mg/kg	
AAB 0198	Under Drainline, North	Bromoform	< 5	0	ug/kg	0.005	89 mg/kg	
AAB 0198	Under Drainline, North	Bromomethane	< 11	0	ug/kg	0.011	0.43 mg/kg	
AAB 0198	Under Drainline, North	Bromophenylphenyl ether [4-]	< 360	0	ug/kg	NA	b	
AAB 0198	Under Drainline, North	Butanone [2-]	< 22	0	ug/kg	0.022	4000 mg/kg	
AAB 0198	Under Drainline, North	Butyl benzyl phthalate	< 360	0	ug/kg	0.36	16000 mg/kg	
AAB 0198	Under Drainline, North	Butylbenzene [n-]	< 5	0	ug/kg	NA	b	
AAB 0198	Under Drainline, North	Butylbenzene [sec-]	< 5	0	ug/kg	NA	b	
AAB 0198	Under Drainline, North	Butylbenzene [tert-]	< 5	0	ug/kg	NA	b	
AAB 0198	Under Drainline, North	Cadmium	< 0.4	0	ug/g	0.4	80 mg/kg	
AAB 0198	Under Drainline, North	Carbon disulfide	< 5	0	ug/kg	0.005	7.4 mg/kg	
AAB 0198	Under Drainline, North	Carbon tetrachloride	< 5	0	ug/kg	0.005	0.21 mg/kg	
AAB 0198	Under Drainline, North	Cesium-137	< 0.246	0	pCi/g	0.246	4 pCi/g	
AAB 0198	Under Drainline, North	Chlordane [alpha-]	< 1.85	0	ug/kg	NA	b	
AAB 0198	Under Drainline, North	Chlordane [gamma-]	< 1.85	0	ug/kg	NA	b	
AAB 0198	Under Drainline, North	Chloro-3-methylphenol [4-]	< 870	0	ug/kg	0.87	16000 mg/kg	
AAB 0198	Under Drainline, North	Chloroaniline [4-]	< 870	0	ug/kg	0.87	320 mg/kg	
AAB 0198	Under Drainline, North	Chlorobenzene	< 5	0	ug/kg	0.005	67 mg/kg	
AAB 0198	Under Drainline, North	Chlorodibromomethane	< 5	0	ug/kg	0.005	83 mg/kg	
AAB 0198	Under Drainline, North	Chloroethane	< 11	0	ug/kg	0.011	2900 mg/kg	
AAB 0198	Under Drainline, North	Chloroform	< 5	0	ug/kg	0.005	0.21 mg/kg	
AAB 0198	Under Drainline, North	Chloromethane	< 11	0	ug/kg	0.011	6.4 mg/kg	
AAB 0198	Under Drainline, North	Chloronaphthalene [2-]	< 360	0	ug/kg	0.36	6400 mg/kg	
AAB 0198	Under Drainline, North	Chlorophenol [o-]	< 360	0	ug/kg	0.36	400 mg/kg	
AAB 0198	Under Drainline, North	Chlorophenylphenyl ether [4-]	< 360	0	ug/kg	NA	b	
AAB 0198	Under Drainline, North	Chlorotoluene [o-]	< 5	0	ug/kg	0.005	1600 mg/kg	
AAB 0198	Under Drainline, North	Chlorotoluene [p-]	< 5	0	ug/kg	NA	b	
AAB 0198	Under Drainline, North	Chromium	6.1	0.5	ug/g	6.1	a	Below Background of 34.74 mg/kg
AAB 0198	Under Drainline, North	Chrysene	< 360	0	ug/kg	0.36	96 mg/kg	
AAB 0198	Under Drainline, North	DDD [p,p'-]	< 3.58	0	ug/kg	0.00358	2.9 mg/kg	
AAB 0198	Under Drainline, North	DDE [p,p'-]	105	31.5	ug/kg	0.105	2.1 mg/kg	
AAB 0198	Under Drainline, North	DDT [p,p'-]	110	33	ug/kg	0.11	2.1 mg/kg	
AAB 0198	Under Drainline, North	Di-n-butyl phthalate	< 360	0	ug/kg	0.36	8000 mg/kg	
AAB 0198	Under Drainline, North	Di-n-octyl phthalate	< 360	0	ug/kg	0.36	1600 mg/kg	
AAB 0198	Under Drainline, North	Dibenzofuran	< 360	0	ug/kg	NA	b	
AAB 0198	Under Drainline, North	Dibenzo[a,h]anthracene	< 360	0	ug/kg	0.36	0.1 mg/kg	Detection limit is greater than SAL
AAB 0198	Under Drainline, North	Dibromo-3-chloropropane [1,2-]	< 11	0	ug/kg	0.011	0.5 mg/kg	
AAB 0198	Under Drainline, North	Dibromoethane [1,2-]	< 5	0	ug/kg	NA	b	
AAB 0198	Under Drainline, North	Dibromomethane	< 5	0	ug/kg	0.005	0.0082 mg/kg	

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NA Not applicable

Sample ID	Location	Analyte	Sample Value	Analytical Uncertainty	Units	Units Converted (mg/kg or pCi/g)	Screening Action Level	Comments
AAB 0198	Under Drainline, North	Dichlorobenzene (1,2) [o-]	< 5	0	ug/kg	0.005	1600 mg/kg	
AAB 0198	Under Drainline, North	Dichlorobenzene (1,3) [m-]	< 360	0	ug/kg	0.36	7200 mg/kg	
AAB 0198	Under Drainline, North	Dichlorobenzene (1,4) [p-]	< 360	0	ug/kg	0.36	29 mg/kg	
AAB 0198	Under Drainline, North	Dichlorobenzidine [3,3'-]	< 870	0	ug/kg	0.87	1.6 mg/kg	
AAB 0198	Under Drainline, North	Dichlorodifluoromethane	< 11	0	ug/kg	0.011	16000 mg/kg	
AAB 0198	Under Drainline, North	Dichloroethane [1,1-]	< 5	0	ug/kg	0.005	410 mg/kg	
AAB 0198	Under Drainline, North	Dichloroethane [1,2-]	< 5	0	ug/kg	0.005	0.2 mg/kg	
AAB 0198	Under Drainline, North	Dichloroethene [1,1-]	< 5	0	ug/kg	0.005	0.4 mg/kg	
AAB 0198	Under Drainline, North	Dichlorophenol [2,4-]	< 360	0	ug/kg	0.36	240 mg/kg	
AAB 0198	Under Drainline, North	Dichloropropane [1,2-]	< 5	0	ug/kg	0.005	6.5 mg/kg	
AAB 0198	Under Drainline, North	Dichloropropane [1,3-]	< 5	0	ug/kg	NA	b	
AAB 0198	Under Drainline, North	Dichloropropane [2,2-]	< 5	0	ug/kg	NA	b	
AAB 0198	Under Drainline, North	Dichloropropene [1,1-]	< 5	0	ug/kg	NA	b	
AAB 0198	Under Drainline, North	Dichloropropene [cis-1,3-]	< 5	0	ug/kg	0.005	0.17 mg/kg	
AAB 0198	Under Drainline, North	Dichloropropene [trans-1,3-]	< 5	0	ug/kg	0.005	0.17 mg/kg	
AAB 0198	Under Drainline, North	Dieldrin	< 3.58	0	ug/kg	0.00358	0.044 mg/kg	
AAB 0198	Under Drainline, North	Diethyl phthalate	< 360	0	ug/kg	0.36	64000 mg/kg	
AAB 0198	Under Drainline, North	Dimethyl phthalate	< 360	0	ug/kg	0.36	800000 mg/kg	
AAB 0198	Under Drainline, North	Dimethylphenol [2,4-]	< 360	0	ug/kg	0.36	1600 mg/kg	
AAB 0198	Under Drainline, North	Dinitrophenol [2,4-]	< 870	0	ug/kg	0.87	160 mg/kg	
AAB 0198	Under Drainline, North	Dinitrotoluene [2,4-]	< 360	0	ug/kg	0.36	1 mg/kg	
AAB 0198	Under Drainline, North	Dinitrotoluene [2,6-]	< 360	0	ug/kg	0.36	1 mg/kg	
AAB 0198	Under Drainline, North	Endosulfan I	< 1.85	0	ug/kg	NA	b	
AAB 0198	Under Drainline, North	Endosulfan II	< 3.58	0	ug/kg	NA	b	
AAB 0198	Under Drainline, North	Endosulfan sulfate	< 3.58	0	ug/kg	0.00358	4 mg/kg	
AAB 0198	Under Drainline, North	Endrin	< 3.58	0	ug/kg	0.00358	24 mg/kg	
AAB 0198	Under Drainline, North	Endrin aldehyde	< 3.58	0	ug/kg	NA	b	
AAB 0198	Under Drainline, North	Endrin ketone	< 3.58	0	ug/kg	NA	b	
AAB 0198	Under Drainline, North	Ethylbenzene	< 5	0	ug/kg	0.005	3100 mg/kg	
AAB 0198	Under Drainline, North	Fluoranthene	< 360	0	ug/kg	0.36	3200 mg/kg	
AAB 0198	Under Drainline, North	Fluorene	< 360	0	ug/kg	0.36	3200 mg/kg	
AAB 0198	Under Drainline, North	Heptachlor	< 1.85	0	ug/kg	0.00185	0.16 mg/kg	
AAB 0198	Under Drainline, North	Heptachlor epoxide	< 1.85	0	ug/kg	0.00185	0.077 mg/kg	
AAB 0198	Under Drainline, North	Hexachlorobenzene	< 360	0	ug/kg	0.36	0.44 mg/kg	
AAB 0198	Under Drainline, North	Hexachlorobutadiene	< 360	0	ug/kg	0.36	90 mg/kg	
AAB 0198	Under Drainline, North	Hexachlorocyclopentadiene	< 360	0	ug/kg	0.36	560 mg/kg	
AAB 0198	Under Drainline, North	Hexachloroethane	< 360	0	ug/kg	0.36	80 mg/kg	
AAB 0198	Under Drainline, North	Hexanone [2-]	< 22	0	ug/kg	NA	b	
AAB 0198	Under Drainline, North	Indeno[1,2,3-cd]pyrene	< 360	0	ug/kg	0.36	1 mg/kg	
AAB 0198	Under Drainline, North	Isophorone	< 360	0	ug/kg	0.36	7400 mg/kg	
AAB 0198	Under Drainline, North	Isopropylbenzene	< 5	0	ug/kg	0.005	3200 mg/kg	
AAB 0198	Under Drainline, North	Isopropyltoluene [4-]	< 5	0	ug/kg	NA	b	
AAB 0198	Under Drainline, North	Lead	19	1	ug/g	19	400 mg/kg	
AAB 0198	Under Drainline, North	Lindane	< 1.85	0	ug/kg	0.00185	0.54 mg/kg	
AAB 0198	Under Drainline, North	Mercury	0.03	0.02	ug/g	0.03	24 mg/kg	
AAB 0198	Under Drainline, North	Methoxychlor	< 18.5	0	ug/kg	0.0185	400 mg/kg	
AAB 0198	Under Drainline, North	Methyl iodide	< 5	0	ug/kg	NA	b	
AAB 0198	Under Drainline, North	Methyl-2-pentanone [4-]	< 22	0	ug/kg	0.022	510 mg/kg	
AAB 0198	Under Drainline, North	Methyl-4,6-dinitrophenol [2-]	< 870	0	ug/kg	NA	b	
AAB 0198	Under Drainline, North	Methylene chloride	< 5	0	ug/kg	0.005	5.6 mg/kg	
AAB 0198	Under Drainline, North	Methylnaphthalene [2-]	< 360	0	ug/kg	NA	b	
AAB 0198	Under Drainline, North	Methylphenol [2-]	< 360	0	ug/kg	0.36	4000 mg/kg	

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TI Tentatively identified compound
NA Not applicable

Sample ID	Location	Analyte	Sample Value	Analytical Uncertainty	Units	Units Converted (mg/kg or pCi/g)	Screening Action Level	Comments
AAB 0198	Under Drainline, North	Methylphenol [4-]	< 360	0	ug/kg	0.36	400 mg/kg	
AAB 0198	Under Drainline, North	Naphthalene	< 360	0	ug/kg	0.36	3200 mg/kg	
AAB 0198	Under Drainline, North	Nickel	3	2	ug/g	3	1600 mg/kg	
AAB 0198	Under Drainline, North	Nitroaniline [2-]	< 870	0	ug/kg	NA	b	
AAB 0198	Under Drainline, North	Nitroaniline [3-]	< 870	0	ug/kg	0.87	240 mg/kg	
AAB 0198	Under Drainline, North	Nitroaniline [4-]	< 870	0	ug/kg	0.87	240 mg/kg	
AAB 0198	Under Drainline, North	Nitrobenzene	< 360	0	ug/kg	0.36	5.3 mg/kg	
AAB 0198	Under Drainline, North	Nitrophenol [2-]	< 360	0	ug/kg	NA	b	
AAB 0198	Under Drainline, North	Nitrophenol [4-]	< 870	0	ug/kg	0.87	5000 mg/kg	
AAB 0198	Under Drainline, North	Nitrosodi-n-propylamine [N-]	< 360	0	ug/kg	0.36	0.1 mg/kg	Detection limit is greater than SAL
AAB 0198	Under Drainline, North	Nitrosodimethylamine [N-]	< 360	0	ug/kg	0.36	0.014 mg/kg	Detection limit is greater than SAL
AAB 0198	Under Drainline, North	Nitrosodiphenylamine [N-]	< 360	0	ug/kg	0.36	140 mg/kg	
AAB 0198	Under Drainline, North	Pentachlorophenol	< 870	0	ug/kg	0.87	5.8 mg/kg	
AAB 0198	Under Drainline, North	Phenanthrene	< 360	0	ug/kg	NA	b	
AAB 0198	Under Drainline, North	Phenol	< 360	0	ug/kg	0.36	48000 mg/kg	
AAB 0198	Under Drainline, North	Plutonium-238	- 0.0353	0.023	pCi/g	0.0353	20 pCi/g	
AAB 0198	Under Drainline, North	Plutonium-239	- 0.0101	0.0247	pCi/g	0.0101	18 pCi/g	
AAB 0198	Under Drainline, North	Potassium-40	33	2.515	pCi/g	NA	b	No background established
AAB 0198	Under Drainline, North	Propylbenzene	< 5	0	ug/kg	NA	b	
AAB 0198	Under Drainline, North	Pyrene	< 360	0	ug/kg	0.36	2400 mg/kg	
AAB 0198	Under Drainline, North	Radium-226	1.12	0.074	pCi/g	1.12	5 pCi/g	
AAB 0198	Under Drainline, North	Radvan Gross Alpha Screening	7.38	83.28	pCi/g	NA	b	
AAB 0198	Under Drainline, North	Radvan Gross Beta Screening	6.41	90.73	pCi/g	NA	b	
AAB 0198	Under Drainline, North	Radvan Gross Gamma Screening	0.45	2.16	pCi/g	NA	b	
AAB 0198	Under Drainline, North	Selenium	0.6	0.4	ug/g	0.6	400 mg/kg	
AAB 0198	Under Drainline, North	Silver	< 1	0	ug/g	1	400 mg/kg	
AAB 0198	Under Drainline, North	Styrene	< 5	0	ug/kg	0.005	3300 mg/kg	
AAB 0198	Under Drainline, North	Tetrachloroethane [1,1,1,2-]	< 5	0	ug/kg	0.005	270 mg/kg	
AAB 0198	Under Drainline, North	Tetrachloroethane [1,1,2,2-]	< 5	0	ug/kg	0.005	3.9 mg/kg	
AAB 0198	Under Drainline, North	Tetrachloroethylene	< 5	0	ug/kg	0.005	5.9 mg/kg	
AAB 0198	Under Drainline, North	Thallium	< 0.25	0	ug/g	0.25	6.4 mg/kg	
AAB 0198	Under Drainline, North	Toluene	< 5	0	ug/kg	0.005	910 mg/kg	
AAB 0198	Under Drainline, North	Toxaphene	< 185	0	ug/kg	0.185	0.64 mg/kg	
AAB 0198	Under Drainline, North	Trichloro-1,2,2-trifluoroethane [1,1,2-]	< 5	0	ug/kg	NA	b	
AAB 0198	Under Drainline, North	Trichlorobenzene [1,2,4-]	< 360	0	ug/kg	0.36	160 mg/kg	
AAB 0198	Under Drainline, North	Trichloroethane [1,1,1-]	< 22	0	ug/kg	0.022	1000 mg/kg	
AAB 0198	Under Drainline, North	Trichloroethane [1,1,2-]	< 5	0	ug/kg	0.005	6.3 mg/kg	
AAB 0198	Under Drainline, North	Trichloroethene	< 5	0	ug/kg	0.005	3.2 mg/kg	
AAB 0198	Under Drainline, North	Trichlorofluoromethane	< 5	0	ug/kg	0.005	24000 mg/kg	
AAB 0198	Under Drainline, North	Trichlorophenol [2,4,5-]	< 870	0	ug/kg	0.87	8000 mg/kg	
AAB 0198	Under Drainline, North	Trichlorophenol [2,4,6-]	< 360	0	ug/kg	0.36	64 mg/kg	
AAB 0198	Under Drainline, North	Trichloropropane [1,2,3-]	< 5	0	ug/kg	0.005	480 mg/kg	
AAB 0198	Under Drainline, North	Trimethylbenzene [1,2,4-]	< 5	0	ug/kg	0.005	40 mg/kg	
AAB 0198	Under Drainline, North	Trimethylbenzene [1,3,5-]	< 5	0	ug/kg	0.005	32 mg/kg	
AAB 0198	Under Drainline, North	Unknown organic compound	TI 10	0	ug/kg	NA	NA	
AAB 0198	Under Drainline, North	Unknown organic compound	TI 390	0	ug/kg	NA	NA	
AAB 0198	Under Drainline, North	Uranium	3.32	0.1633	ug/g	3.32	a	Below background of 3.41 mg/kg
AAB 0198	Under Drainline, North	Vinyl chloride	< 11	0	ug/kg	0.011	0.013 mg/kg	
AAB 0198	Under Drainline, North	Xylenes (o + m + p) [Mixed-]	< 5	0	ug/kg	0.005	160000 mg/kg	
AAB 0199	Beneath tank south end	Acenaphthene	< 370	0	ug/kg	0.37	4800 mg/kg	
AAB 0199	Beneath tank south end	Acenaphthylene	< 370	0	ug/kg	NA	b	
AAB 0199	Beneath tank south end	Acetone	< 22	0	ug/kg	0.022	8000 mg/kg	

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AAB 0199	Beneath tank south end	Aldrin	< 1.88	0	ug/kg	0.00188	0.04 mg/kg	
AAB 0199	Beneath tank south end	Americium-241	< 1.5	0	pCi/g	1.5	17 pCi/g	
AAB 0199	Beneath tank south end	Aniline	< 370	0	ug/kg	0.37	120 mg/kg	
AAB 0199	Beneath tank south end	Anthracene	< 370	0	ug/kg	0.37	24000 mg/kg	
AAB 0199	Beneath tank south end	Antimony	< 0.25	0	ug/g	0.25	32 mg/kg	
AAB 0199	Beneath tank south end	Aroclor 1016	< 36.6	0	ug/kg	NA	b	
AAB 0199	Beneath tank south end	Aroclor 1221	< 74.2	0	ug/kg	NA	b	
AAB 0199	Beneath tank south end	Aroclor 1232	< 36.6	0	ug/kg	NA	b	
AAB 0199	Beneath tank south end	Aroclor 1242	< 36.6	0	ug/kg	NA	b	
AAB 0199	Beneath tank south end	Aroclor 1248	< 36.6	0	ug/kg	NA	b	
AAB 0199	Beneath tank south end	Aroclor 1254	< 36.6	0	ug/kg	NA	b	
AAB 0199	Beneath tank south end	Aroclor 1260	< 36.6	0	ug/kg	NA	b	
AAB 0199	Beneath tank south end	Arsenic	2.7	0.5	ug/g	2.7	a	Below Background of 5.04 mg/kg
AAB 0199	Beneath tank south end	Azobenzene	< 370	0	ug/kg	0.37	6.4 mg/kg	
AAB 0199	Beneath tank south end	Barium	63	6	ug/g	63	5600 mg/kg	
AAB 0199	Beneath tank south end	Benzene	< 6	0	ug/kg	0.006	0.67 mg/kg	
AAB 0199	Beneath tank south end	Benzoic acid	< 1800	0	ug/kg	1.8	320000 mg/kg	
AAB 0199	Beneath tank south end	Benzo[a]anthracene	< 370	0	ug/kg	0.37	1 mg/kg	
AAB 0199	Beneath tank south end	Benzo[a]pyrene	< 370	0	ug/kg	0.37	0.1 mg/kg	Detection limit is greater than SAL
AAB 0199	Beneath tank south end	Benzo[b]fluoranthene	< 370	0	ug/kg	0.37	1 mg/kg	
AAB 0199	Beneath tank south end	Benzo[g,h,i]perylene	< 370	0	ug/kg	NA	b	
AAB 0199	Beneath tank south end	Benzo[k]fluoranthene	< 370	0	ug/kg	0.37	1 mg/kg	
AAB 0199	Beneath tank south end	Benzyl alcohol	< 370	0	ug/kg	0.37	24000 mg/kg	
AAB 0199	Beneath tank south end	Beryllium	0.86	0.09	ug/g	0.86	a	Below Background of 2.37 mg/kg
AAB 0199	Beneath tank south end	BHC [alpha-]	< 1.88	0	ug/kg	0.00188	0.1 mg/kg	
AAB 0199	Beneath tank south end	BHC [beta-]	< 1.88	0	ug/kg	0.00188	4 mg/kg	
AAB 0199	Beneath tank south end	BHC [delta-]	< 1.88	0	ug/kg	NA	b	
AAB 0199	Beneath tank south end	Bis(2-chloroethoxy)methane	< 370	0	ug/kg	NA	b	
AAB 0199	Beneath tank south end	Bis(2-chloroethyl)ether	< 730	0	ug/kg	0.73	0.12 mg/kg	Detection limit is greater than SAL
AAB 0199	Beneath tank south end	Bis(2-chloroisopropyl)ether	< 370	0	ug/kg	0.37	100 mg/kg	
AAB 0199	Beneath tank south end	Bis(2-ethylhexyl)phthalate	< 370	0	ug/kg	0.37	50 mg/kg	
AAB 0199	Beneath tank south end	Bromobenzene	< 6	0	ug/kg	NA	b	
AAB 0199	Beneath tank south end	Bromochloromethane	< 6	0	ug/kg	NA	b	
AAB 0199	Beneath tank south end	Bromodichloromethane	< 6	0	ug/kg	0.006	11 mg/kg	
AAB 0199	Beneath tank south end	Bromoform	< 6	0	ug/kg	0.006	89 mg/kg	
AAB 0199	Beneath tank south end	Bromomethane	< 11	0	ug/kg	0.011	0.43 mg/kg	
AAB 0199	Beneath tank south end	Bromophenylphenyl ether [4-]	< 370	0	ug/kg	NA	b	
AAB 0199	Beneath tank south end	Butanone [2-]	< 22	0	ug/kg	0.022	4000 mg/kg	
AAB 0199	Beneath tank south end	Butyl benzyl phthalate	< 370	0	ug/kg	0.37	16000 mg/kg	
AAB 0199	Beneath tank south end	Butylbenzene [n-]	< 6	0	ug/kg	NA	b	
AAB 0199	Beneath tank south end	Butylbenzene [sec-]	< 6	0	ug/kg	NA	b	
AAB 0199	Beneath tank south end	Butylbenzene [tert-]	< 6	0	ug/kg	NA	b	
AAB 0199	Beneath tank south end	Cadmium	< 0.4	0	ug/g	0.4	80 mg/kg	
AAB 0199	Beneath tank south end	Carbon disulfide	< 6	0	ug/kg	0.006	7.4 mg/kg	
AAB 0199	Beneath tank south end	Carbon tetrachloride	< 6	0	ug/kg	0.006	0.21 mg/kg	
AAB 0199	Beneath tank south end	Cesium-137	< 0.266	0	pCi/g	0.266	4 pCi/g	
AAB 0199	Beneath tank south end	Chlordane [alpha-]	< 1.88	0	ug/kg	NA	b	
AAB 0199	Beneath tank south end	Chlordane [gamma-]	< 1.88	0	ug/kg	NA	b	
AAB 0199	Beneath tank south end	Chloro-3-methylphenol [4-]	< 370	0	ug/kg	0.37	16000 mg/kg	
AAB 0199	Beneath tank south end	Chloroaniline [4-]	< 370	0	ug/kg	0.37	320 mg/kg	
AAB 0199	Beneath tank south end	Chlorobenzene	< 6	0	ug/kg	0.006	67 mg/kg	
AAB 0199	Beneath tank south end	Chlorodibromomethane	< 6	0	ug/kg	0.006	83 mg/kg	

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AAB 0199	Beneath tank south end	Chloroethane	< 11	0	ug/kg	0.011	2900 mg/kg	
AAB 0199	Beneath tank south end	Chloroform	< 6	0	ug/kg	0.006	0.21 mg/kg	
AAB 0199	Beneath tank south end	Chloromethane	< 11	0	ug/kg	0.011	6.4 mg/kg	
AAB 0199	Beneath tank south end	Chloronaphthalene [2-]	< 370	0	ug/kg	0.37	6400 mg/kg	
AAB 0199	Beneath tank south end	Chlorophenol [o-]	< 370	0	ug/kg	0.37	400 mg/kg	
AAB 0199	Beneath tank south end	Chlorophenylphenyl ether [4-]	< 370	0	ug/kg	NA	b	
AAB 0199	Beneath tank south end	Chlorotoluene [o-]	< 6	0	ug/kg	0.006	1600 mg/kg	
AAB 0199	Beneath tank south end	Chlorotoluene [p-]	< 6	0	ug/kg	NA	b	
AAB 0199	Beneath tank south end	Chromium	5.5	0.5	ug/g	5.5	a	Below Background of 34.74 mg/kg
AAB 0199	Beneath tank south end	Chrysene	< 370	0	ug/kg	0.37	96 mg/kg	
AAB 0199	Beneath tank south end	DDD [p,p'-]	< 3.66	0	ug/kg	0.00366	2.9 mg/kg	
AAB 0199	Beneath tank south end	DDE [p,p'-]	30	9	ug/kg	0.03	2.1 mg/kg	
AAB 0199	Beneath tank south end	DDT [p,p'-]	13.6	4.08	ug/kg	0.0136	2.1 mg/kg	
AAB 0199	Beneath tank south end	Di-n-butyl phthalate	< 370	0	ug/kg	0.37	8000 mg/kg	
AAB 0199	Beneath tank south end	Di-n-octyl phthalate	< 370	0	ug/kg	0.37	1600 mg/kg	
AAB 0199	Beneath tank south end	Dibenzofuran	< 370	0	ug/kg	NA	b	
AAB 0199	Beneath tank south end	Dibenzo[a,h]anthracene	< 370	0	ug/kg	0.37	0.1 mg/kg	Detection limit is greater than SAL
AAB 0199	Beneath tank south end	Dibromo-3-chloropropane [1,2-]	< 11	0	ug/kg	0.011	0.5 mg/kg	
AAB 0199	Beneath tank south end	Dibromoethane [1,2-]	< 6	0	ug/kg	NA	b	
AAB 0199	Beneath tank south end	Dibromomethane	< 6	0	ug/kg	0.006	0.0082 mg/kg	
AAB 0199	Beneath tank south end	Dichlorobenzene (1,2) [o-]	< 6	0	ug/kg	0.006	1600 mg/kg	
AAB 0199	Beneath tank south end	Dichlorobenzene (1,3) [m-]	< 6	0	ug/kg	0.006	7200 mg/kg	
AAB 0199	Beneath tank south end	Dichlorobenzene (1,4) [p-]	< 6	0	ug/kg	0.006	29 mg/kg	
AAB 0199	Beneath tank south end	Dichlorobenzidine [3,3'-]	< 370	0	ug/kg	0.37	1.6 mg/kg	
AAB 0199	Beneath tank south end	Dichlorodifluoromethane	< 11	0	ug/kg	0.011	16000 mg/kg	
AAB 0199	Beneath tank south end	Dichloroethane [1,1-]	< 6	0	ug/kg	0.006	410 mg/kg	
AAB 0199	Beneath tank south end	Dichloroethane [1,2-]	< 6	0	ug/kg	0.006	0.2 mg/kg	
AAB 0199	Beneath tank south end	Dichloroethene [1,1-]	< 6	0	ug/kg	0.006	0.4 mg/kg	
AAB 0199	Beneath tank south end	Dichlorophenol [2,4-]	< 370	0	ug/kg	0.37	240 mg/kg	
AAB 0199	Beneath tank south end	Dichloropropane [1,2-]	< 6	0	ug/kg	0.006	6.5 mg/kg	
AAB 0199	Beneath tank south end	Dichloropropane [1,3-]	< 6	0	ug/kg	NA	b	
AAB 0199	Beneath tank south end	Dichloropropane [2,2-]	< 6	0	ug/kg	NA	b	
AAB 0199	Beneath tank south end	Dichloropropene [1,1-]	< 6	0	ug/kg	NA	b	
AAB 0199	Beneath tank south end	Dichloropropene [cis-1,3-]	< 6	0	ug/kg	0.006	0.17 mg/kg	
AAB 0199	Beneath tank south end	Dichloropropene [trans-1,3-]	< 6	0	ug/kg	0.006	0.17 mg/kg	
AAB 0199	Beneath tank south end	Dieldrin	< 3.66	0	ug/kg	0.00366	0.044 mg/kg	
AAB 0199	Beneath tank south end	Diethyl phthalate	< 370	0	ug/kg	0.37	64000 mg/kg	
AAB 0199	Beneath tank south end	Dimethyl phthalate	< 370	0	ug/kg	0.37	800000 mg/kg	
AAB 0199	Beneath tank south end	Dimethylphenol [2,4-]	< 370	0	ug/kg	0.37	1600 mg/kg	
AAB 0199	Beneath tank south end	Dinitrophenol [2,4-]	< 890	0	ug/kg	0.89	160 mg/kg	
AAB 0199	Beneath tank south end	Dinitrotoluene [2,4-]	< 370	0	ug/kg	0.37	1 mg/kg	
AAB 0199	Beneath tank south end	Dinitrotoluene [2,6-]	< 370	0	ug/kg	0.37	1 mg/kg	
AAB 0199	Beneath tank south end	Endosulfan I	< 1.88	0	ug/kg	NA	b	
AAB 0199	Beneath tank south end	Endosulfan II	< 3.66	0	ug/kg	NA	b	
AAB 0199	Beneath tank south end	Endosulfan sulfate	< 3.66	0	ug/kg	0.00366	4 mg/kg	
AAB 0199	Beneath tank south end	Endrin	< 3.66	0	ug/kg	0.00366	24 mg/kg	
AAB 0199	Beneath tank south end	Endrin aldehyde	< 3.66	0	ug/kg	NA	b	
AAB 0199	Beneath tank south end	Endrin ketone	< 3.66	0	ug/kg	NA	b	
AAB 0199	Beneath tank south end	Ethylbenzene	< 6	0	ug/kg	0.006	3100 mg/kg	
AAB 0199	Beneath tank south end	Fluoranthene	< 370	0	ug/kg	0.37	3200 mg/kg	
AAB 0199	Beneath tank south end	Fluorene	< 370	0	ug/kg	0.37	3200 mg/kg	
AAB 0199	Beneath tank south end	Heptachlor	< 1.88	0	ug/kg	0.00188	0.16 mg/kg	

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Sample ID	Location	Analyte	Sample Value	Analytical Uncertainty	Units	Units Converted (mg/kg or pCi/g)	Screening Action Level	Comments
AAB 0199	Beneath tank south end	Heptachlor epoxide	< 1.88	0	ug/kg	0.00188	0.077 mg/kg	
AAB 0199	Beneath tank south end	Hexachlorobenzene	< 370	0	ug/kg	0.37	0.44 mg/kg	
AAB 0199	Beneath tank south end	Hexachlorobutadiene	< 370	0	ug/kg	0.37	90 mg/kg	
AAB 0199	Beneath tank south end	Hexachlorocyclopentadiene	< 370	0	ug/kg	0.37	560 mg/kg	
AAB 0199	Beneath tank south end	Hexachloroethane	< 370	0	ug/kg	0.37	80 mg/kg	
AAB 0199	Beneath tank south end	Hexanone [2-]	< 22	0	ug/kg	NA	b	
AAB 0199	Beneath tank south end	Indeno[1,2,3-cd]pyrene	< 370	0	ug/kg	0.37	1 mg/kg	
AAB 0199	Beneath tank south end	Isophorone	< 370	0	ug/kg	0.37	7400 mg/kg	
AAB 0199	Beneath tank south end	Isopropylbenzene	< 6	0	ug/kg	0.006	3200 mg/kg	
AAB 0199	Beneath tank south end	Isopropyltoluene [4-]	< 6	0	ug/kg	NA	b	
AAB 0199	Beneath tank south end	Lead	12.5	0.6	ug/g	12.5	400 mg/kg	
AAB 0199	Beneath tank south end	Lindane	< 1.88	0	ug/kg	0.00188	0.54 mg/kg	
AAB 0199	Beneath tank south end	Mercury	0.02	0.02	ug/g	0.02	24 mg/kg	
AAB 0199	Beneath tank south end	Methoxychlor	< 18.8	0	ug/kg	0.0188	400 mg/kg	
AAB 0199	Beneath tank south end	Methyl iodide	< 6	0	ug/kg	NA	b	
AAB 0199	Beneath tank south end	Methyl-2-pentanone [4-]	< 22	0	ug/kg	0.022	510 mg/kg	
AAB 0199	Beneath tank south end	Methyl-4,6-dinitrophenol [2-]	< 890	0	ug/kg	NA	b	
AAB 0199	Beneath tank south end	Methylene chloride	< 6	0	ug/kg	0.006	5.6 mg/kg	
AAB 0199	Beneath tank south end	Methylnaphthalene [2-]	< 370	0	ug/kg	NA	b	
AAB 0199	Beneath tank south end	Methylphenol [2-]	< 370	0	ug/kg	0.37	4000 mg/kg	
AAB 0199	Beneath tank south end	Methylphenol [4-]	< 370	0	ug/kg	0.37	400 mg/kg	
AAB 0199	Beneath tank south end	Naphthalene	< 370	0	ug/kg	0.37	3200 mg/kg	
AAB 0199	Beneath tank south end	Nickel	3	2	ug/g	3	1600 mg/kg	
AAB 0199	Beneath tank south end	Nitroaniline [2-]	< 890	0	ug/kg	NA	b	
AAB 0199	Beneath tank south end	Nitroaniline [3-]	< 890	0	ug/kg	0.89	240 mg/kg	
AAB 0199	Beneath tank south end	Nitroaniline [4-]	< 730	0	ug/kg	0.73	240 mg/kg	
AAB 0199	Beneath tank south end	Nitrobenzene	< 370	0	ug/kg	0.37	5.3 mg/kg	
AAB 0199	Beneath tank south end	Nitrophenol [2-]	< 370	0	ug/kg	NA	b	
AAB 0199	Beneath tank south end	Nitrophenol [4-]	< 890	0	ug/kg	0.89	5000 mg/kg	
AAB 0199	Beneath tank south end	Nitrosodi-n-propylamine [N-]	< 370	0	ug/kg	0.37	0.1 mg/kg	Detection limit is greater than SAL
AAB 0199	Beneath tank south end	Nitrosodimethylamine [N-]	< 370	0	ug/kg	0.37	0.014 mg/kg	Detection limit is greater than SAL
AAB 0199	Beneath tank south end	Pentachlorophenol	< 890	0	ug/kg	0.89	5.8 mg/kg	
AAB 0199	Beneath tank south end	Phenanthrene	< 370	0	ug/kg	NA	b	
AAB 0199	Beneath tank south end	Phenol	< 370	0	ug/kg	0.37	48000 mg/kg	
AAB 0199	Beneath tank south end	Plutonium-238	- 0.0565	0.0515	pCi/g	0.0565	20 pCi/g	
AAB 0199	Beneath tank south end	Plutonium-239	- 0.0034	0.0366	pCi/g	0.0034	18 pCi/g	
AAB 0199	Beneath tank south end	Potassium-40	25.1	1.38	pCi/g	NA	b	No background established
AAB 0199	Beneath tank south end	Propylbenzene	< 6	0	ug/kg	NA	b	
AAB 0199	Beneath tank south end	Pyrene	< 370	0	ug/kg	0.37	2400 mg/kg	
AAB 0199	Beneath tank south end	Radvan Gross Alpha Screening	-11.1	83.28	pCi/g	NA	b	
AAB 0199	Beneath tank south end	Radvan Gross Beta Screening	-22.42	90.73	pCi/g	NA	b	
AAB 0199	Beneath tank south end	Radvan Gross Gamma Screening	-0.8	2.16	pCi/g	NA	b	
AAB 0199	Beneath tank south end	Selenium	< 0.4	0	ug/g	0.4	400 mg/kg	
AAB 0199	Beneath tank south end	Silver	< 1	0	ug/g	1	400 mg/kg	
AAB 0199	Beneath tank south end	Styrene	< 6	0	ug/kg	0.006	3300 mg/kg	
AAB 0199	Beneath tank south end	Tetrachloroethane [1,1,1,2-]	< 6	0	ug/kg	0.006	270 mg/kg	
AAB 0199	Beneath tank south end	Tetrachloroethane [1,1,2,2-]	< 6	0	ug/kg	0.006	3.9 mg/kg	
AAB 0199	Beneath tank south end	Tetrachloroethylene	< 6	0	ug/kg	0.006	5.9 mg/kg	
AAB 0199	Beneath tank south end	Thallium	< 0.25	0	ug/g	0.25	6.4 mg/kg	
AAB 0199	Beneath tank south end	Toluene	< 6	0	ug/kg	0.006	910 mg/kg	
AAB 0199	Beneath tank south end	Toxaphene	< 188	0	ug/kg	0.188	0.64 mg/kg	
AAB 0199	Beneath tank south end	Trichloro-1,2,2-trifluoroethane [1,1,2-]	< 6	0	ug/kg	NA	b	

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TI Tentatively identified compound
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Sample ID	Location	Analyte	Sample Value	Analytical Uncertainty	Units	Units Converted (mg/kg or pCi/g)	Screening Action Level	Comments
AAB 0199	Beneath tank south end	Trichlorobenzene [1,2,4-]	< 370	0	ug/kg	0.37	160 mg/kg	
AAB 0199	Beneath tank south end	Trichloroethane [1,1,1-]	11	3.3	ug/kg	0.011	1000 mg/kg	
AAB 0199	Beneath tank south end	Trichloroethane [1,1,1-]	11	3.3	ug/kg	0.011	1000 mg/kg	
AAB 0199	Beneath tank south end	Trichloroethane [1,1,2-]	< 6	0	ug/kg	0.006	6.3 mg/kg	
AAB 0199	Beneath tank south end	Trichloroethene	< 6	0	ug/kg	0.006	3.2 mg/kg	
AAB 0199	Beneath tank south end	Trichlorofluoromethane	< 6	0	ug/kg	0.006	24000 mg/kg	
AAB 0199	Beneath tank south end	Trichlorophenol [2,4,5-]	< 890	0	ug/kg	0.89	8000 mg/kg	
AAB 0199	Beneath tank south end	Trichlorophenol [2,4,6-]	< 370	0	ug/kg	0.37	64 mg/kg	
AAB 0199	Beneath tank south end	Trichloropropane [1,2,3-]	< 6	0	ug/kg	0.006	480 mg/kg	
AAB 0199	Beneath tank south end	Trimethylbenzene [1,2,4-]	< 6	0	ug/kg	0.006	40 mg/kg	
AAB 0199	Beneath tank south end	Trimethylbenzene [1,3,5-]	< 6	0	ug/kg	0.006	32 mg/kg	
AAB 0199	Beneath tank south end	Uranium	2.24	0.1096	ug/g	2.24	a	Below background of 3.41 mg/kg
AAB 0199	Beneath tank south end	Vinyl chloride	< 11	0	ug/kg	0.011	0.013 mg/kg	
AAB 0199	Beneath tank south end	Xylenes (o + m + p) [Mixed-]	< 6	0	ug/kg	0.006	160000 mg/kg	
AAB 0200	Beneath tank north end	Acenaphthene	< 360	0	ug/kg	0.36	4800 mg/kg	
AAB 0200	Beneath tank north end	Acenaphthylene	< 360	0	ug/kg	NA	b	
AAB 0200	Beneath tank north end	Acetone	< 22	0	ug/kg	0.022	8000 mg/kg	
AAB 0200	Beneath tank north end	Aldrin	< 1.87	0	ug/kg	0.00187	0.04 mg/kg	
AAB 0200	Beneath tank north end	Americium-241	< 0.182	0	pCi/g	0.182	17 pCi/g	
AAB 0200	Beneath tank north end	Aniline	< 360	0	ug/kg	0.36	120 mg/kg	
AAB 0200	Beneath tank north end	Anthracene	< 360	0	ug/kg	0.36	24000 mg/kg	
AAB 0200	Beneath tank north end	Antimony	< 0.25	0	ug/g	0.25	32 mg/kg	
AAB 0200	Beneath tank north end	Aroclor 1016	< 36.3	0	ug/kg	NA	b	
AAB 0200	Beneath tank north end	Aroclor 1221	< 73.6	0	ug/kg	NA	b	
AAB 0200	Beneath tank north end	Aroclor 1232	< 36.3	0	ug/kg	NA	b	
AAB 0200	Beneath tank north end	Aroclor 1242	< 36.3	0	ug/kg	NA	b	
AAB 0200	Beneath tank north end	Aroclor 1248	< 36.3	0	ug/kg	NA	b	
AAB 0200	Beneath tank north end	Aroclor 1254	< 36.3	0	ug/kg	NA	b	
AAB 0200	Beneath tank north end	Aroclor 1260	< 36.3	0	ug/kg	NA	b	
AAB 0200	Beneath tank north end	Arsenic	3	0.6	ug/g	3	a	Below Background of 5.04 mg/kg
AAB 0200	Beneath tank north end	Azobenzene	< 360	0	ug/kg	0.36	6.4 mg/kg	
AAB 0200	Beneath tank north end	Barium	69	7	ug/g	69	5600 mg/kg	
AAB 0200	Beneath tank north end	Benzene	< 6	0	ug/kg	0.006	0.67 mg/kg	
AAB 0200	Beneath tank north end	Benzoic acid	< 1800	0	ug/kg	1.8	320000 mg/kg	
AAB 0200	Beneath tank north end	Benzo[a]anthracene	< 360	0	ug/kg	0.36	1 mg/kg	
AAB 0200	Beneath tank north end	Benzo[a]pyrene	< 360	0	ug/kg	0.36	0.1 mg/kg	Detection limit is greater than SAL
AAB 0200	Beneath tank north end	Benzo[b]fluoranthene	< 360	0	ug/kg	0.36	1 mg/kg	
AAB 0200	Beneath tank north end	Benzo[g,h,i]perylene	< 360	0	ug/kg	NA	b	
AAB 0200	Beneath tank north end	Benzo[k]fluoranthene	< 360	0	ug/kg	0.36	1 mg/kg	
AAB 0200	Beneath tank north end	Benzyl alcohol	< 360	0	ug/kg	0.36	24000 mg/kg	
AAB 0200	Beneath tank north end	Beryllium	0.63	0.08	ug/g	0.63	a	Below Background of 2.37 mg/kg
AAB 0200	Beneath tank north end	BHC [alpha-]	< 1.87	0	ug/kg	0.00187	0.1 mg/kg	
AAB 0200	Beneath tank north end	BHC [beta-]	< 1.87	0	ug/kg	0.00187	4 mg/kg	
AAB 0200	Beneath tank north end	BHC [delta-]	< 1.87	0	ug/kg	NA	b	
AAB 0200	Beneath tank north end	Bis(2-chloroethoxy)methane	< 360	0	ug/kg	NA	b	
AAB 0200	Beneath tank north end	Bis(2-chloroethyl)ether	< 730	0	ug/kg	0.73	0.12 mg/kg	Detection limit is greater than SAL
AAB 0200	Beneath tank north end	Bis(2-chloroisopropyl)ether	< 360	0	ug/kg	0.36	100 mg/kg	
AAB 0200	Beneath tank north end	Bis(2-ethylhexyl)phthalate	< 360	0	ug/kg	0.36	50 mg/kg	
AAB 0200	Beneath tank north end	Bromobenzene	< 6	0	ug/kg	NA	b	
AAB 0200	Beneath tank north end	Bromochloromethane	< 6	0	ug/kg	NA	b	
AAB 0200	Beneath tank north end	Bromodichloromethane	< 6	0	ug/kg	0.006	11 mg/kg	
AAB 0200	Beneath tank north end	Bromoform	< 6	0	ug/kg	0.006	89 mg/kg	

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AAB 0200	Beneath tank north end	Bromomethane	< 11	0	ug/kg	0.011	0.43 mg/kg	
AAB 0200	Beneath tank north end	Bromophenylphenyl ether [4-]	< 360	0	ug/kg	NA	b	
AAB 0200	Beneath tank north end	Butanone [2-]	< 22	0	ug/kg	0.022	4000 mg/kg	
AAB 0200	Beneath tank north end	Butyl benzyl phthalate	< 360	0	ug/kg	0.36	16000 mg/kg	
AAB 0200	Beneath tank north end	Butylbenzene [n-]	< 6	0	ug/kg	NA	b	
AAB 0200	Beneath tank north end	Butylbenzene [sec-]	< 6	0	ug/kg	NA	b	
AAB 0200	Beneath tank north end	Butylbenzene [tert-]	< 6	0	ug/kg	NA	b	
AAB 0200	Beneath tank north end	Cadmium	< 0.4	0	ug/g	0.4	80 mg/kg	
AAB 0200	Beneath tank north end	Carbon disulfide	< 6	0	ug/kg	0.006	7.4 mg/kg	
AAB 0200	Beneath tank north end	Carbon tetrachloride	< 6	0	ug/kg	0.006	0.21 mg/kg	
AAB 0200	Beneath tank north end	Cesium-137	< 0.207	0	pCi/g	0.207	4 pCi/g	
AAB 0200	Beneath tank north end	Chlordane [alpha-]	< 1.87	0	ug/kg	NA	b	
AAB 0200	Beneath tank north end	Chlordane [gamma-]	< 1.87	0	ug/kg	NA	b	
AAB 0200	Beneath tank north end	Chloro-3-methylphenol [4-]	< 360	0	ug/kg	0.36	16000 mg/kg	
AAB 0200	Beneath tank north end	Chloroaniline [4-]	< 360	0	ug/kg	0.36	320 mg/kg	
AAB 0200	Beneath tank north end	Chlorobenzene	< 6	0	ug/kg	0.006	67 mg/kg	
AAB 0200	Beneath tank north end	Chlorodibromomethane	< 6	0	ug/kg	0.006	83 mg/kg	
AAB 0200	Beneath tank north end	Chloroethane	< 11	0	ug/kg	0.011	2900 mg/kg	
AAB 0200	Beneath tank north end	Chloroform	< 6	0	ug/kg	0.006	0.21 mg/kg	
AAB 0200	Beneath tank north end	Chloromethane	< 11	0	ug/kg	0.011	6.4 mg/kg	
AAB 0200	Beneath tank north end	Chloronaphthalene [2-]	< 360	0	ug/kg	0.36	6400 mg/kg	
AAB 0200	Beneath tank north end	Chlorophenol [o-]	< 360	0	ug/kg	0.36	400 mg/kg	
AAB 0200	Beneath tank north end	Chlorophenylphenyl ether [4-]	< 360	0	ug/kg	NA	b	
AAB 0200	Beneath tank north end	Chlorotoluene [o-]	< 6	0	ug/kg	0.006	1600 mg/kg	
AAB 0200	Beneath tank north end	Chlorotoluene [p-]	< 6	0	ug/kg	NA	b	
AAB 0200	Beneath tank north end	Chromium	5.7	0.6	ug/g	5.7	a	Below Background of 34.74 mg/kg
AAB 0200	Beneath tank north end	Chrysene	< 360	0	ug/kg	0.36	96 mg/kg	
AAB 0200	Beneath tank north end	DDD [p,p'-]	5.32	1.596	ug/kg	0.00532	2.9 mg/kg	
AAB 0200	Beneath tank north end	DDE [p,p'-]	133	39.9	ug/kg	0.133	2.1 mg/kg	
AAB 0200	Beneath tank north end	DDT [p,p'-]	145	43.5	ug/kg	0.145	2.1 mg/kg	
AAB 0200	Beneath tank north end	Di-n-butyl phthalate	< 360	0	ug/kg	0.36	8000 mg/kg	
AAB 0200	Beneath tank north end	Di-n-octyl phthalate	< 360	0	ug/kg	0.36	1600 mg/kg	
AAB 0200	Beneath tank north end	Dibenzofuran	< 360	0	ug/kg	NA	b	
AAB 0200	Beneath tank north end	Dibenzo[a,h]anthracene	< 360	0	ug/kg	0.36	0.1 mg/kg	Detection limit is greater than SAL
AAB 0200	Beneath tank north end	Dibenzo[a,h]anthracene	< 360	0	ug/kg	0.36	0.1 mg/kg	
AAB 0200	Beneath tank north end	Dibromo-3-chloropropane [1,2-]	< 11	0	ug/kg	0.011	0.5 mg/kg	
AAB 0200	Beneath tank north end	Dibromoethane [1,2-]	< 6	0	ug/kg	NA	b	
AAB 0200	Beneath tank north end	Dibromomethane	< 6	0	ug/kg	0.006	0.0082 mg/kg	
AAB 0200	Beneath tank north end	Dichlorobenzene (1,2) [o-]	< 6	0	ug/kg	0.006	1600 mg/kg	
AAB 0200	Beneath tank north end	Dichlorobenzene (1,3) [m-]	< 360	0	ug/kg	0.36	7200 mg/kg	
AAB 0200	Beneath tank north end	Dichlorobenzene (1,4) [p-]	< 360	0	ug/kg	0.36	29 mg/kg	
AAB 0200	Beneath tank north end	Dichlorobenzidine [3,3'-]	< 360	0	ug/kg	0.36	1.6 mg/kg	
AAB 0200	Beneath tank north end	Dichlorodifluoromethane	< 11	0	ug/kg	0.011	16000 mg/kg	
AAB 0200	Beneath tank north end	Dichloroethane [1,1-]	< 6	0	ug/kg	0.006	410 mg/kg	
AAB 0200	Beneath tank north end	Dichloroethane [1,2-]	< 6	0	ug/kg	0.006	0.2 mg/kg	
AAB 0200	Beneath tank north end	Dichloroethene [1,1-]	< 6	0	ug/kg	0.006	0.4 mg/kg	
AAB 0200	Beneath tank north end	Dichlorophenol [2,4-]	< 360	0	ug/kg	0.36	240 mg/kg	
AAB 0200	Beneath tank north end	Dichloropropane [1,2-]	< 6	0	ug/kg	0.006	6.5 mg/kg	
AAB 0200	Beneath tank north end	Dichloropropane [1,3-]	< 6	0	ug/kg	NA	b	
AAB 0200	Beneath tank north end	Dichloropropane [2,2-]	< 6	0	ug/kg	NA	b	
AAB 0200	Beneath tank north end	Dichloropropene [1,1-]	< 6	0	ug/kg	NA	b	
AAB 0200	Beneath tank north end	Dichloropropene [cis-1,3-]	< 6	0	ug/kg	0.006	0.17 mg/kg	

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AAB 0200	Beneath tank north end	Dichloropropene [trans-1,3-]	< 6	0	ug/kg	0.006	0.17 mg/kg	
AAB 0200	Beneath tank north end	Dieldrin	< 3.6	0	ug/kg	0.0036	0.044 mg/kg	
AAB 0200	Beneath tank north end	Diethyl phthalate	< 360	0	ug/kg	0.36	64000 mg/kg	
AAB 0200	Beneath tank north end	Dimethyl phthalate	< 360	0	ug/kg	0.36	800000 mg/kg	
AAB 0200	Beneath tank north end	Dimethylphenol [2,4-]	< 360	0	ug/kg	0.36	1600 mg/kg	
AAB 0200	Beneath tank north end	Dinitrophenol [2,4-]	< 880	0	ug/kg	0.88	160 mg/kg	
AAB 0200	Beneath tank north end	Dinitrotoluene [2,4-]	< 360	0	ug/kg	0.36	1 mg/kg	
AAB 0200	Beneath tank north end	Dinitrotoluene [2,6-]	< 360	0	ug/kg	0.36	1 mg/kg	
AAB 0200	Beneath tank north end	Endosulfan I	< 1.87	0	ug/kg	NA	b	
AAB 0200	Beneath tank north end	Endosulfan II	< 3.63	0	ug/kg	NA	b	
AAB 0200	Beneath tank north end	Endosulfan sulfate	< 3.63	0	ug/kg	0.00363	4 mg/kg	
AAB 0200	Beneath tank north end	Endrin	< 3.63	0	ug/kg	0.00363	24 mg/kg	
AAB 0200	Beneath tank north end	Endrin aldehyde	< 3.63	0	ug/kg	NA	b	
AAB 0200	Beneath tank north end	Endrin ketone	< 3.63	0	ug/kg	NA	b	
AAB 0200	Beneath tank north end	Ethylbenzene	< 6	0	ug/kg	0.006	3100 mg/kg	
AAB 0200	Beneath tank north end	Fluoranthene	< 360	0	ug/kg	0.36	3200 mg/kg	
AAB 0200	Beneath tank north end	Fluorene	< 360	0	ug/kg	0.36	3200 mg/kg	
AAB 0200	Beneath tank north end	Heptachlor	< 1.87	0	ug/kg	0.00187	0.16 mg/kg	
AAB 0200	Beneath tank north end	Heptachlor epoxide	< 1.87	0	ug/kg	0.00187	0.077 mg/kg	
AAB 0200	Beneath tank north end	Hexachlorobenzene	< 360	0	ug/kg	0.36	0.44 mg/kg	
AAB 0200	Beneath tank north end	Hexachlorobutadiene	< 360	0	ug/kg	0.36	90 mg/kg	
AAB 0200	Beneath tank north end	Hexachlorocyclopentadiene	< 360	0	ug/kg	0.36	560 mg/kg	
AAB 0200	Beneath tank north end	Hexachloroethane	< 360	0	ug/kg	0.36	80 mg/kg	
AAB 0200	Beneath tank north end	Hexanone [2-]	< 22	0	ug/kg	NA	b	
AAB 0200	Beneath tank north end	Indeno[1,2,3-cd]pyrene	< 360	0	ug/kg	0.36	1 mg/kg	
AAB 0200	Beneath tank north end	Isophorone	< 360	0	ug/kg	0.36	7400 mg/kg	
AAB 0200	Beneath tank north end	Isopropylbenzene	< 6	0	ug/kg	0.006	3200 mg/kg	
AAB 0200	Beneath tank north end	Isopropyltoluene [4-]	< 6	0	ug/kg	NA	b	
AAB 0200	Beneath tank north end	Lead	10.5	0.3	ug/g	10.5	400 mg/kg	
AAB 0200	Beneath tank north end	Lindane	< 1.87	0	ug/kg	0.00187	0.54 mg/kg	
AAB 0200	Beneath tank north end	Mercury	0.03	0.02	ug/g	0.03	24 mg/kg	
AAB 0200	Beneath tank north end	Methoxychlor	< 18.7	0	ug/kg	0.0187	400 mg/kg	
AAB 0200	Beneath tank north end	Methyl iodide	< 6	0	ug/kg	NA	b	
AAB 0200	Beneath tank north end	Methyl-2-pentanone [4-]	< 22	0	ug/kg	0.022	510 mg/kg	
AAB 0200	Beneath tank north end	Methyl-4,6-dinitrophenol [2-]	< 880	0	ug/kg	NA	b	
AAB 0200	Beneath tank north end	Methylene chloride	< 6	0	ug/kg	0.006	5.6 mg/kg	
AAB 0200	Beneath tank north end	Methylnaphthalene [2-]	< 360	0	ug/kg	NA	b	
AAB 0200	Beneath tank north end	Methylphenol [2-]	< 360	0	ug/kg	0.36	4000 mg/kg	
AAB 0200	Beneath tank north end	Methylphenol [4-]	< 360	0	ug/kg	0.36	400 mg/kg	
AAB 0200	Beneath tank north end	Naphthalene	< 360	0	ug/kg	0.36	3200 mg/kg	
AAB 0200	Beneath tank north end	Nickel	3	2	ug/g	3	1600 mg/kg	
AAB 0200	Beneath tank north end	Nitroaniline [2-]	< 880	0	ug/kg	NA	b	
AAB 0200	Beneath tank north end	Nitroaniline [3-]	< 880	0	ug/kg	0.88	240 mg/kg	
AAB 0200	Beneath tank north end	Nitroaniline [4-]	< 730	0	ug/kg	0.73	240 mg/kg	
AAB 0200	Beneath tank north end	Nitrobenzene	< 360	0	ug/kg	0.36	5.3 mg/kg	
AAB 0200	Beneath tank north end	Nitrophenol [2-]	< 360	0	ug/kg	NA	b	
AAB 0200	Beneath tank north end	Nitrophenol [4-]	< 880	0	ug/kg	0.88	5000 mg/kg	
AAB 0200	Beneath tank north end	Nitrosodi-n-propylamine [N-]	< 360	0	ug/kg	0.36	0.1 mg/kg	Detection limit is greater than SAL
AAB 0200	Beneath tank north end	Nitrosodimethylamine [N-]	< 360	0	ug/kg	0.36	0.014 mg/kg	Detection limit is greater than SAL
AAB [illegible]	Beneath tank north end	Nitrosodiphenylamine [N-]	< 360	0	ug/kg	0.36	140 mg/kg	
AAB [illegible]	Beneath tank north end	Pentachlorophenol	< 880	0	ug/kg	0.88	5.8 mg/kg	
AAB [illegible]	Beneath tank north end	Phenanthrene	< 360	0	ug/kg	NA	b	

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NA Not applicable

Sample ID	Location	Analyte	Sample Value	Analytical Uncertainty	Units	Units Converted (mg/kg or pCi/g)	Screening Action Level	Comments
AAB 0200	Beneath tank north end	Phenol	< 360	0	ug/kg	0.36	48000 mg/kg	
AAB 0200	Beneath tank north end	Plutonium-238	- 0.0015	0.04	pCi/g	0.0015	20 pCi/g	
AAB 0200	Beneath tank north end	Plutonium-239	- 0.0302	0.0283	pCi/g	0.0302	18 pCi/g	
AAB 0200	Beneath tank north end	Potassium-40	23.5	1.925	pCi/g	NA	b	No background established
AAB 0200	Beneath tank north end	Propylbenzene	< 6	0	ug/kg	NA	b	
AAB 0200	Beneath tank north end	Pyrene	< 360	0	ug/kg	0.36	2400 mg/kg	
AAB 0200	Beneath tank north end	Radium-226	1.3	0.058	pCi/g	1.3	5 pCi/g	
AAB 0200	Beneath tank north end	Radvan Gross Alpha Screening	3.7	83.28	pCi/g	NA	b	
AAB 0200	Beneath tank north end	Radvan Gross Beta Screening	-7.47	90.73	pCi/g	NA	b	
AAB 0200	Beneath tank north end	Radvan Gross Gamma Screening	-1.13	2.16	pCi/g	NA	b	
AAB 0200	Beneath tank north end	Saturated Hydrocarbons	TI 420	0	ug/kg	NA	NA	
AAB 0200	Beneath tank north end	Saturated Hydrocarbons	TI 420	0	ug/kg	NA	NA	
AAB 0200	Beneath tank north end	Saturated Hydrocarbons	TI 450	0	ug/kg	NA	NA	
AAB 0200	Beneath tank north end	Saturated Hydrocarbons	TI 480	0	ug/kg	NA	NA	
AAB 0200	Beneath tank north end	Saturated Hydrocarbons	TI 530	0	ug/kg	NA	NA	
AAB 0200	Beneath tank north end	Saturated Hydrocarbons	TI 550	0	ug/kg	NA	NA	
AAB 0200	Beneath tank north end	Saturated Hydrocarbons	TI 590	0	ug/kg	NA	NA	
AAB 0200	Beneath tank north end	Selenium	< 0.4	0	ug/g	0.4	400 mg/kg	
AAB 0200	Beneath tank north end	Silver	< 1	0	ug/g	1	400 mg/kg	
AAB 0200	Beneath tank north end	Styrene	< 6	0	ug/kg	0.006	3300 mg/kg	
AAB 0200	Beneath tank north end	Tetrachloroethane [1,1,1,2-]	< 6	0	ug/kg	0.006	270 mg/kg	
AAB 0200	Beneath tank north end	Tetrachloroethane [1,1,2,2-]	< 6	0	ug/kg	0.006	3.9 mg/kg	
AAB 0200	Beneath tank north end	Tetrachloroethylene	< 6	0	ug/kg	0.006	5.9 mg/kg	
AAB 0200	Beneath tank north end	Thallium	< 0.25	0	ug/g	0.25	6.4 mg/kg	
AAB 0200	Beneath tank north end	Toluene	< 6	0	ug/kg	0.006	910 mg/kg	
AAB 0200	Beneath tank north end	Toxaphene	< 187	0	ug/kg	0.187	0.64 mg/kg	
AAB 0200	Beneath tank north end	Trichloro-1,2,2-trifluoroethane [1,1,2-]	< 6	0	ug/kg	NA	b	
AAB 0200	Beneath tank north end	Trichlorobenzene [1,2,4-]	< 360	0	ug/kg	0.36	160 mg/kg	
AAB 0200	Beneath tank north end	Trichloroethane [1,1,1-]	< 6	0	ug/kg	0.006	1000 mg/kg	
AAB 0200	Beneath tank north end	Trichloroethane [1,1,2-]	< 6	0	ug/kg	0.006	6.3 mg/kg	
AAB 0200	Beneath tank north end	Trichloroethene	< 6	0	ug/kg	0.006	3.2 mg/kg	
AAB 0200	Beneath tank north end	Trichlorofluoromethane	< 6	0	ug/kg	0.006	24000 mg/kg	
AAB 0200	Beneath tank north end	Trichlorophenol [2,4,5-]	< 880	0	ug/kg	0.88	8000 mg/kg	
AAB 0200	Beneath tank north end	Trichlorophenol [2,4,6-]	< 360	0	ug/kg	0.36	64 mg/kg	
AAB 0200	Beneath tank north end	Trichloropropane [1,2,3-]	< 6	0	ug/kg	0.006	480 mg/kg	
AAB 0200	Beneath tank north end	Trimethylbenzene [1,2,4-]	< 6	0	ug/kg	0.006	40 mg/kg	
AAB 0200	Beneath tank north end	Trimethylbenzene [1,3,5-]	< 6	0	ug/kg	0.006	32 mg/kg	
AAB 0200	Beneath tank north end	Unknown organic compound	TI 13	0	ug/kg	NA	NA	
AAB 0200	Beneath tank north end	Uranium	2.73	0.1343	ug/g	2.73	a	Below background of 3.41 mg/kg
AAB 0200	Beneath tank north end	Vinyl chloride	< 11	0	ug/kg	0.011	0.013 mg/kg	
AAB 0200	Beneath tank north end	Xylenes (o + m + p) [Mixed-]	< 6	0	ug/kg	0.006	160000 mg/kg	
AAB 0201	Outside north wall of tank	Acenaphthene	< 360	0	ug/kg	0.36	4800 mg/kg	
AAB 0201	Outside north wall of tank	Acenaphthylene	< 360	0	ug/kg	NA	b	
AAB 0201	Outside north wall of tank	Acetone	< 20	0	ug/kg	0.02	8000 mg/kg	
AAB 0201	Outside north wall of tank	Aldrin	< 1.8	0	ug/kg	0.0018	0.04 mg/kg	
AAB 0201	Outside north wall of tank	Americium-241	< 0.182	0	pCi/g	0.182	17 pCi/g	
AAB 0201	Outside north wall of tank	Aniline	< 360	0	ug/kg	0.36	120 mg/kg	
AAB 0201	Outside north wall of tank	Anthracene	< 360	0	ug/kg	0.36	24000 mg/kg	
AAB 0201	Outside north wall of tank	Aroclor 1016	< 35.9	0	ug/kg	NA	b	
AAB 0201	Outside north wall of tank	Aroclor 1221	< 73	0	ug/kg	NA	b	
AAB 0201	Outside north wall of tank	Aroclor 1232	< 35.9	0	ug/kg	NA	b	
AAB 0201	Outside north wall of tank	Aroclor 1242	< 35.9	0	ug/kg	NA	b	

a Compound should be compared to background levels
b. No SAL or background established
< Analytical result is below detection limit shown to right of symbol
TI Tentatively identified compound
NA Not applicable

Sample ID	Location	Analyte	Sample Value	Analytical Uncertainty	Units	Units Converted (mg/kg or pCi/g)	Screening Action Level	Comments
AAB 0201	Outside north wall of tank	Aroclor 1248	< 35.9	0	ug/kg	NA	b	
AAB 0201	Outside north wall of tank	Aroclor 1254	< 35.9	0	ug/kg	NA	b	
AAB 0201	Outside north wall of tank	Aroclor 1260	< 35.9	0	ug/kg	NA	b	
AAB 0201	Outside north wall of tank	Azobenzene	< 360	0	ug/kg	0.36	6.4 mg/kg	
AAB 0201	Outside north wall of tank	Benzene	< 5	0	ug/kg	0.005	0.67 mg/kg	
AAB 0201	Outside north wall of tank	Benzoic acid	< 1700	0	ug/kg	1.7	320000 mg/kg	
AAB 0201	Outside north wall of tank	Benzo[a]anthracene	< 360	0	ug/kg	0.36	1 mg/kg	
AAB 0201	Outside north wall of tank	Benzo[a]pyrene	< 360	0	ug/kg	0.36	0.1 mg/kg	Detection limit is greater than SAL
AAB 0201	Outside north wall of tank	Benzo[b]fluoranthene	< 360	0	ug/kg	0.36	1 mg/kg	
AAB 0201	Outside north wall of tank	Benzo[g,h,i]perylene	< 360	0	ug/kg	NA	b	
AAB 0201	Outside north wall of tank	Benzo[k]fluoranthene	< 360	0	ug/kg	0.36	1 mg/kg	
AAB 0201	Outside north wall of tank	Benzyl alcohol	< 360	0	ug/kg	0.36	24000 mg/kg	
AAB 0201	Outside north wall of tank	BHC [alpha-]	< 1.8	0	ug/kg	0.0018	0.1 mg/kg	
AAB 0201	Outside north wall of tank	BHC [beta-]	< 1.8	0	ug/kg	0.0018	4 mg/kg	
AAB 0201	Outside north wall of tank	BHC [delta-]	< 1.8	0	ug/kg	NA	b	
AAB 0201	Outside north wall of tank	Bis(2-chloroethoxy)methane	< 360	0	ug/kg	NA	b	
AAB 0201	Outside north wall of tank	Bis(2-chloroethyl)ether	< 720	0	ug/kg	0.72	0.12 mg/kg	Detection limit is greater than SAL
AAB 0201	Outside north wall of tank	Bis(2-chloroisopropyl)ether	< 360	0	ug/kg	0.36	100 mg/kg	
AAB 0201	Outside north wall of tank	Bis(2-ethylhexyl)phthalate	< 360	0	ug/kg	0.36	50 mg/kg	
AAB 0201	Outside north wall of tank	Bromobenzene	< 5	0	ug/kg	NA	b	
AAB 0201	Outside north wall of tank	Bromochloromethane	< 5	0	ug/kg	NA	b	
AAB 0201	Outside north wall of tank	Bromodichloromethane	< 5	0	ug/kg	0.005	11 mg/kg	
AAB 0201	Outside north wall of tank	Bromoform	< 5	0	ug/kg	0.005	89 mg/kg	
AAB 0201	Outside north wall of tank	Bromomethane	< 10	0	ug/kg	0.01	0.43 mg/kg	
AAB 0201	Outside north wall of tank	Bromophenylphenyl ether [4-]	< 360	0	ug/kg	NA	b	
AAB 0201	Outside north wall of tank	Butanone [2-]	< 20	0	ug/kg	0.02	4000 mg/kg	
AAB 0201	Outside north wall of tank	Butyl benzyl phthalate	< 360	0	ug/kg	0.36	16000 mg/kg	
AAB 0201	Outside north wall of tank	Butylbenzene [n-]	< 5	0	ug/kg	NA	b	
AAB 0201	Outside north wall of tank	Butylbenzene [sec-]	< 5	0	ug/kg	NA	b	
AAB 0201	Outside north wall of tank	Butylbenzene [tert-]	< 5	0	ug/kg	NA	b	
AAB 0201	Outside north wall of tank	Carbon disulfide	< 5	0	ug/kg	0.005	7.4 mg/kg	
AAB 0201	Outside north wall of tank	Carbon tetrachloride	< 5	0	ug/kg	0.005	0.21 mg/kg	
AAB 0201	Outside north wall of tank	Cesium-137	< 0.199	0	pCi/g	0.199	4 pCi/g	
AAB 0201	Outside north wall of tank	Chlordane [alpha-]	< 1.85	0	ug/kg	NA	b	
AAB 0201	Outside north wall of tank	Chlordane [gamma-]	< 1.85	0	ug/kg	NA	b	
AAB 0201	Outside north wall of tank	Chloro-3-methylphenol [4-]	< 360	0	ug/kg	0.36	16000 mg/kg	
AAB 0201	Outside north wall of tank	Chloroaniline [4-]	< 360	0	ug/kg	0.36	320 mg/kg	
AAB 0201	Outside north wall of tank	Chlorobenzene	< 5	0	ug/kg	0.005	67 mg/kg	
AAB 0201	Outside north wall of tank	Chlorodibromomethane	< 5	0	ug/kg	0.005	83 mg/kg	
AAB 0201	Outside north wall of tank	Chloroethane	< 10	0	ug/kg	0.01	2900 mg/kg	
AAB 0201	Outside north wall of tank	Chloroform	< 5	0	ug/kg	0.005	0.21 mg/kg	
AAB 0201	Outside north wall of tank	Chloromethane	< 10	0	ug/kg	0.01	6.4 mg/kg	
AAB 0201	Outside north wall of tank	Chloronaphthalene [2-]	< 360	0	ug/kg	0.36	6400 mg/kg	
AAB 0201	Outside north wall of tank	Chlorophenol [o-]	< 360	0	ug/kg	0.36	400 mg/kg	
AAB 0201	Outside north wall of tank	Chlorophenylphenyl ether [4-]	< 360	0	ug/kg	NA	b	
AAB 0201	Outside north wall of tank	Chlorotoluene [o-]	< 5	0	ug/kg	0.005	1600 mg/kg	
AAB 0201	Outside north wall of tank	Chlorotoluene [p-]	< 5	0	ug/kg	NA	b	
AAB 0201	Outside north wall of tank	Chrysene	< 360	0	ug/kg	0.36	96 mg/kg	
AAB 0201	Outside north wall of tank	DDD [p,p'-]	< 3.59	0	ug/kg	0.00359	2.9 mg/kg	
AAB 0201	Outside north wall of tank	DDE [p,p'-]	188	56.4	ug/kg	0.188	2.1 mg/kg	
AAB 0201	Outside north wall of tank	DDT [p,p'-]	126	37.8	ug/kg	0.126	2.1 mg/kg	
AAB 0201	Outside north wall of tank	Di n-butyl phthalate	< 360	0	ug/kg	0.36	8000 mg/kg	

a Compound should be compared to background levels
b. No SAL or background established
< Analytical result is below detection limit shown to right of symbol
TI Tentatively identified compound
NA Not applicable

Sample ID	Location	Analyte	Sample Value	Analytical Uncertainty	Units	Units Converted (mg/kg or pCi/g)	Screening Action Level	Comments
AAB 0201	Outside north wall of tank	Di-n-octyl phthalate	< 360	0	ug/kg	0.36	1600 mg/kg	
AAB 0201	Outside north wall of tank	Dibenzofuran	< 360	0	ug/kg	NA	b	
AAB 0201	Outside north wall of tank	Dibenzo[a,h]anthracene	< 360	0	ug/kg	0.36	0.1 mg/kg	Detection limit is greater than SAL
AAB 0201	Outside north wall of tank	Dibromo-3-chloropropane [1,2-]	< 10	0	ug/kg	0.01	0.5 mg/kg	
AAB 0201	Outside north wall of tank	Dibromoethane [1,2-]	< 5	0	ug/kg	NA	b	
AAB 0201	Outside north wall of tank	Dibromomethane	< 5	0	ug/kg	0.005	0.0082 mg/kg	
AAB 0201	Outside north wall of tank	Dichlorobenzene (1,2) [o-]	< 5	0	ug/kg	0.005	1600 mg/kg	
AAB 0201	Outside north wall of tank	Dichlorobenzene (1,3) [m-]	< 360	0	ug/kg	0.36	7200 mg/kg	
AAB 0201	Outside north wall of tank	Dichlorobenzene (1,4) [p-]	< 360	0	ug/kg	0.36	29 mg/kg	
AAB 0201	Outside north wall of tank	Dichlorobenzidine [3,3'-]	< 870	0	ug/kg	0.87	1.6 mg/kg	
AAB 0201	Outside north wall of tank	Dichlorodifluoromethane	< 10	0	ug/kg	0.01	16000 mg/kg	
AAB 0201	Outside north wall of tank	Dichloroethane [1,1-]	< 5	0	ug/kg	0.005	410 mg/kg	
AAB 0201	Outside north wall of tank	Dichloroethane [1,2-]	< 5	0	ug/kg	0.005	0.2 mg/kg	
AAB 0201	Outside north wall of tank	Dichloroethene [1,1-]	< 5	0	ug/kg	0.005	0.4 mg/kg	
AAB 0201	Outside north wall of tank	Dichloroethene [trans-1,2-]	< 5	0	ug/kg	0.005	1600 mg/kg	
AAB 0201	Outside north wall of tank	Dichloroethylene [cis-1,2-]	< 5	0	ug/kg	0.005	800 mg/kg	
AAB 0201	Outside north wall of tank	Dichlorophenol [2,4-]	< 360	0	ug/kg	0.36	240 mg/kg	
AAB 0201	Outside north wall of tank	Dichloropropane [1,2-]	< 5	0	ug/kg	0.005	6.5 mg/kg	
AAB 0201	Outside north wall of tank	Dichloropropane [1,3-]	< 5	0	ug/kg	NA	b	
AAB 0201	Outside north wall of tank	Dichloropropane [2,2-]	< 5	0	ug/kg	NA	b	
AAB 0201	Outside north wall of tank	Dichloropropene [1,1-]	< 5	0	ug/kg	NA	b	
AAB 0201	Outside north wall of tank	Dichloropropene [cis-1,3-]	< 5	0	ug/kg	0.005	0.17 mg/kg	
AAB 0201	Outside north wall of tank	Dichloropropene [trans-1,3-]	< 5	0	ug/kg	0.005	0.17 mg/kg	
AAB 0201	Outside north wall of tank	Dieldrin	< 3.59	0	ug/kg	0.00359	0.044 mg/kg	
AAB 0201	Outside north wall of tank	Diethyl phthalate	< 360	0	ug/kg	0.36	64000 mg/kg	
AAB 0201	Outside north wall of tank	Dimethyl phthalate	< 360	0	ug/kg	0.36	800000 mg/kg	
AAB 0201	Outside north wall of tank	Dimethylphenol [2,4-]	< 360	0	ug/kg	0.36	1600 mg/kg	
AAB 0201	Outside north wall of tank	Dinitrophenol [2,4-]	< 870	0	ug/kg	0.87	160 mg/kg	
AAB 0201	Outside north wall of tank	Dinitrotoluene [2,4-]	< 360	0	ug/kg	0.36	1 mg/kg	
AAB 0201	Outside north wall of tank	Dinitrotoluene [2,6-]	< 360	0	ug/kg	0.36	1 mg/kg	
AAB 0201	Outside north wall of tank	Endosulfan I	< 1.8	0	ug/kg	NA	b	
AAB 0201	Outside north wall of tank	Endosulfan II	< 3.59	0	ug/kg	NA	b	
AAB 0201	Outside north wall of tank	Endosulfan sulfate	< 3.59	0	ug/kg	0.00359	4 mg/kg	
AAB 0201	Outside north wall of tank	Endrin	< 3.59	0	ug/kg	0.00359	24 mg/kg	
AAB 0201	Outside north wall of tank	Endrin aldehyde	< 3.59	0	ug/kg	NA	b	
AAB 0201	Outside north wall of tank	Endrin ketone	< 3.59	0	ug/kg	NA	b	
AAB 0201	Outside north wall of tank	Ethylbenzene	< 5	0	ug/kg	0.005	3100 mg/kg	
AAB 0201	Outside north wall of tank	Fluoranthene	< 360	0	ug/kg	0.36	3200 mg/kg	
AAB 0201	Outside north wall of tank	Fluorene	< 360	0	ug/kg	0.36	3200 mg/kg	
AAB 0201	Outside north wall of tank	Heptachlor	< 1.8	0	ug/kg	0.0018	0.16 mg/kg	
AAB 0201	Outside north wall of tank	Heptachlor epoxide	< 1.8	0	ug/kg	0.0018	0.077 mg/kg	
AAB 0201	Outside north wall of tank	Hexachlorobenzene	< 360	0	ug/kg	0.36	0.44 mg/kg	
AAB 0201	Outside north wall of tank	Hexachlorobutadiene	< 360	0	ug/kg	0.36	90 mg/kg	
AAB 0201	Outside north wall of tank	Hexachlorocyclopentadiene	< 360	0	ug/kg	0.36	560 mg/kg	
AAB 0201	Outside north wall of tank	Hexachloroethane	< 360	0	ug/kg	0.36	80 mg/kg	
AAB 0201	Outside north wall of tank	Hexanone [2-]	< 20	0	ug/kg	NA	b	
AAB 0201	Outside north wall of tank	Indeno[1,2,3-cd]pyrene	< 360	0	ug/kg	0.36	1 mg/kg	
AAB 0201	Outside north wall of tank	Isophorone	< 360	0	ug/kg	0.36	7400 mg/kg	
AAB 0201	Outside north wall of tank	Isopropylbenzene	< 5	0	ug/kg	0.005	3200 mg/kg	
AAB 0201	Outside north wall of tank	Isopropyltoluene [4-]	< 5	0	ug/kg	NA	b	
AAB 0201	Outside north wall of tank	Lindane	< 1.8	0	ug/kg	0.0018	0.54 mg/kg	
AAB 0201	Outside north wall of tank	Methoxychlor	< 18.5	0	ug/kg	0.0185	400 mg/kg	

a. Compound should be compared to background levels
b. No SAL or background established
< Analytical result is below detection limit shown to right of symbol
TI Tentatively identified compound
NA Not applicable

Sample ID	Location	Analyte	Sample Value	Analytical Uncertainty	Units	Units Converted (mg/kg or pCi/g)	Screening Action Level	Comments
AAB 0201	Outside north wall of tank	Methyl iodide	< 5	0	ug/kg	NA	b	
AAB 0201	Outside north wall of tank	Methyl-2-pentanone [4-]	< 20	0	ug/kg	0.02	510 mg/kg	
AAB 0201	Outside north wall of tank	Methyl-4,6-dinitrophenol [2-]	< 870	0	ug/kg	NA	b	
AAB 0201	Outside north wall of tank	Methylene chloride	< 5	0	ug/kg	0.005	5.6 mg/kg	
AAB 0201	Outside north wall of tank	Methylnaphthalene [2-]	< 360	0	ug/kg	NA	b	
AAB 0201	Outside north wall of tank	Methylphenol [2-]	< 360	0	ug/kg	0.36	4000 mg/kg	
AAB 0201	Outside north wall of tank	Methylphenol [4-]	< 360	0	ug/kg	0.36	400 mg/kg	
AAB 0201	Outside north wall of tank	Naphthalene	< 360	0	ug/kg	0.36	3200 mg/kg	
AAB 0201	Outside north wall of tank	Nitroaniline [2-]	< 870	0	ug/kg	NA	b	
AAB 0201	Outside north wall of tank	Nitroaniline [3-]	< 870	0	ug/kg	0.87	240 mg/kg	
AAB 0201	Outside north wall of tank	Nitroaniline [4-]	< 720	0	ug/kg	0.72	240 mg/kg	
AAB 0201	Outside north wall of tank	Nitrobenzene	< 360	0	ug/kg	0.36	5.3 mg/kg	
AAB 0201	Outside north wall of tank	Nitrophenol [2-]	< 360	0	ug/kg	NA	b	
AAB 0201	Outside north wall of tank	Nitrophenol [4-]	< 870	0	ug/kg	0.87	5000 mg/kg	
AAB 0201	Outside north wall of tank	Nitrosodi-n-propylamine [N-]	< 360	0	ug/kg	0.36	0.1 mg/kg	Detection limit is greater than SAL
AAB 0201	Outside north wall of tank	Nitrosodimethylamine [N-]	< 360	0	ug/kg	0.36	0.014 mg/kg	Detection limit is greater than SAL
AAB 0201	Outside north wall of tank	Nitrosodiphenylamine [N-]	< 360	0	ug/kg	0.36	140 mg/kg	
AAB 0201	Outside north wall of tank	Pentachlorophenol	< 870	0	ug/kg	0.87	5.8 mg/kg	
AAB 0201	Outside north wall of tank	Phenanthrene	< 360	0	ug/kg	NA	b	
AAB 0201	Outside north wall of tank	Phenol	< 360	0	ug/kg	0.36	48000 mg/kg	
AAB 0201	Outside north wall of tank	Plutonium-238	- 0.0185	0.072	pCi/g	0.0185	20 pCi/g	
AAB 0201	Outside north wall of tank	Plutonium-239	- 0.0977	0.114	pCi/g	0.0977	18 pCi/g	
AAB 0201	Outside north wall of tank	Potassium-40	28.1	2.065	pCi/g	NA	b	No background established
AAB 0201	Outside north wall of tank	Propylbenzene	< 5	0	ug/kg	NA	b	
AAB 0201	Outside north wall of tank	Pyrene	< 360	0	ug/kg	0.36	2400 mg/kg	
AAB 0201	Outside north wall of tank	Radium-226	1.01	0.0625	pCi/g	1.01	5 pCi/g	
AAB 0201	Outside north wall of tank	Radvan Gross Alpha Screening	0	83.28	pCi/g	NA	b	
AAB 0201	Outside north wall of tank	Radvan Gross Beta Screening	-23.49	90.73	pCi/g	NA	b	
AAB 0201	Outside north wall of tank	Radvan Gross Gamma Screening	0.7	2.16	pCi/g	NA	b	
AAB 0201	Outside north wall of tank	Saturated Hydrocarbons	TI 370	0	ug/kg	NA	NA	
AAB 0201	Outside north wall of tank	Saturated Hydrocarbons	TI 630	0	ug/kg	NA	NA	
AAB 0201	Outside north wall of tank	Styrene	< 5	0	ug/kg	0.005	3300 mg/kg	
AAB 0201	Outside north wall of tank	Tetrachloroethane [1,1,1,2-]	< 5	0	ug/kg	0.005	270 mg/kg	
AAB 0201	Outside north wall of tank	Tetrachloroethane [1,1,2,2-]	< 5	0	ug/kg	0.005	3.9 mg/kg	
AAB 0201	Outside north wall of tank	Tetrachloroethylene	< 5	0	ug/kg	0.005	5.9 mg/kg	
AAB 0201	Outside north wall of tank	Toluene	< 5	0	ug/kg	0.005	910 mg/kg	
AAB 0201	Outside north wall of tank	Toxaphene	< 185	0	ug/kg	0.185	0.64 mg/kg	
AAB 0201	Outside north wall of tank	Trichloro-1,2,2-trifluoroethane [1,1,2-]	< 5	0	ug/kg	NA	b	
AAB 0201	Outside north wall of tank	Trichlorobenzene [1,2,4-]	< 360	0	ug/kg	0.36	160 mg/kg	
AAB 0201	Outside north wall of tank	Trichloroethane [1,1,1-]	< 5	0	ug/kg	0.005	1000 mg/kg	
AAB 0201	Outside north wall of tank	Trichloroethane [1,1,2-]	< 5	0	ug/kg	0.005	6.3 mg/kg	
AAB 0201	Outside north wall of tank	Trichloroethene	< 5	0	ug/kg	0.005	3.2 mg/kg	
AAB 0201	Outside north wall of tank	Trichlorofluoromethane	< 5	0	ug/kg	0.005	24000 mg/kg	
AAB 0201	Outside north wall of tank	Trichlorophenol [2,4,5-]	< 870	0	ug/kg	0.87	8000 mg/kg	
AAB 0201	Outside north wall of tank	Trichlorophenol [2,4,6-]	< 360	0	ug/kg	0.36	64 mg/kg	
AAB 0201	Outside north wall of tank	Trichloropropane [1,2,3-]	< 5	0	ug/kg	0.005	480 mg/kg	
AAB 0201	Outside north wall of tank	Trimethylbenzene [1,2,4-]	< 5	0	ug/kg	0.005	40 mg/kg	
AAB 0201	Outside north wall of tank	Trimethylbenzene [1,3,5-]	< 5	0	ug/kg	0.005	32 mg/kg	
AAB 0201	Outside north wall of tank	Unknown organic compound	TI 420	0	ug/kg	NA	NA	
AAB 0201	Outside north wall of tank	Uranium	2.26	0.1110	ug/g	2.26	a	Below background of 3.41 mg/kg
AAB 0201	Outside north wall of tank	Vinyl chloride	< 10	0	ug/kg	0.01	0.013 mg/kg	
AAB 0201	Outside north wall of tank	Xylenes (o + m + p) [Mixed-]	< 5	0	ug/kg	0.005	160000 mg/kg	

a. Compound should be compared to background levels
b. No SAL or background established
< Analytical result is below detection limit shown to right of symbol
TI Tentatively identified compound
NA Not applicable

Sample ID	Location	Analyte	Sample Value	Analytical Uncertainty	Units	Units Converted (mg/kg or pCi/g)	Screening Action Level	Comments
AAB 0210	Wood fragment inside tank, 6.0 ft.	Radvan Gross Alpha Screening	-7.4	83.28	pCi/g	NA	b	
AAB 0210	Wood fragment inside tank, 6.0 ft.	Radvan Gross Beta Screening	-42.7	90.73	pCi/g	NA	b	
AAB 0210	Wood fragment inside tank, 6.0 ft.	Radvan Gross Gamma Screening	-7.04	2.16	pCi/g	NA	b	
AAB 0212	Soil inside inlet pipe, 2.7 ft.	Radvan Gross Alpha Screening	-7.4	83.28	pCi/g	NA	b	
AAB 0212	Soil inside inlet pipe, 2.7 ft.	Radvan Gross Beta Screening	-12.81	90.73	pCi/g	NA	b	
AAB 0212	Soil inside inlet pipe, 2.7 ft.	Radvan Gross Gamma Screening	-4.15	2.16	pCi/g	NA	b	
AAB 0261	Borehole 0-30(c)-1	Acenaphthene	< 330	0	ug/kg	0.33	4800 mg/kg	
AAB 0261	Borehole 0-30(c)-1	Acenaphthylene	< 330	0	ug/kg	NA	b	
AAB 0261	Borehole 0-30(c)-1	Acetone	< 20	0	ug/kg	0.02	8000 mg/kg	
AAB 0261	Borehole 0-30(c)-1	Aldrin	< 1.8	0	ug/kg	0.0018	0.04 mg/kg	
AAB 0261	Borehole 0-30(c)-1	Americium-241	< 0.193	0	pCi/g	0.193	17 pCi/g	
AAB 0261	Borehole 0-30(c)-1	Aniline	< 330	0	ug/kg	0.33	120 mg/kg	
AAB 0261	Borehole 0-30(c)-1	Anthracene	< 330	0	ug/kg	0.33	24000 mg/kg	
AAB 0261	Borehole 0-30(c)-1	Antimony	< 0.25	0	ug/g	0.25	32 mg/kg	
AAB 0261	Borehole 0-30(c)-1	Aroclor 1016	< 34	0	ug/kg	NA	b	
AAB 0261	Borehole 0-30(c)-1	Aroclor 1221	< 70	0	ug/kg	NA	b	
AAB 0261	Borehole 0-30(c)-1	Aroclor 1232	< 34	0	ug/kg	NA	b	
AAB 0261	Borehole 0-30(c)-1	Aroclor 1242	< 0.251	0	ug/g	NA	b	
AAB 0261	Borehole 0-30(c)-1	Aroclor 1242	< 34	0	ug/kg	NA	b	
AAB 0261	Borehole 0-30(c)-1	Aroclor 1248	< 34	0	ug/kg	NA	b	
AAB 0261	Borehole 0-30(c)-1	Aroclor 1254	0.251	0.075	ug/g	NA	b	
AAB 0261	Borehole 0-30(c)-1	Aroclor 1254	0.251	0.075	ug/g	NA	b	
AAB 0261	Borehole 0-30(c)-1	Aroclor 1254	< 34	0	ug/kg	NA	b	
AAB 0261	Borehole 0-30(c)-1	Aroclor 1260	< 0.251	0	ug/g	NA	b	
AAB 0261	Borehole 0-30(c)-1	Aroclor 1260	< 34	0	ug/kg	NA	b	
AAB 0261	Borehole 0-30(c)-1	Aroclor [Mixed-]	0.251	0.075	ug/g	0.251	0.09 mg/kg	Detection limit is greater than SAL
AAB 0261	Borehole 0-30(c)-1	Arsenic	0.9	0.2	ug/g	0.9	a	Below Background of 5.04 mg/kg
AAB 0261	Borehole 0-30(c)-1	Azobenzene	< 330	0	ug/kg	0.33	6.4 mg/kg	
AAB 0261	Borehole 0-30(c)-1	Barium	11	1	ug/g	11	5600 mg/kg	
AAB 0261	Borehole 0-30(c)-1	Benzene	< 5	0	ug/kg	0.005	0.67 mg/kg	
AAB 0261	Borehole 0-30(c)-1	Benzidine [m-]	< 330	0	ug/kg	0.33	0.003 mg/kg	Detection limit is greater than SAL
AAB 0261	Borehole 0-30(c)-1	Benzoic acid	< 330	0	ug/kg	0.33	320000 mg/kg	
AAB 0261	Borehole 0-30(c)-1	Benzo[a]anthracene	< 330	0	ug/kg	0.33	1 mg/kg	
AAB 0261	Borehole 0-30(c)-1	Benzo[a]pyrene	< 330	0	ug/kg	0.33	0.1 mg/kg	Detection limit is greater than SAL
AAB 0261	Borehole 0-30(c)-1	Benzo[b]fluoranthene	< 330	0	ug/kg	0.33	1 mg/kg	
AAB 0261	Borehole 0-30(c)-1	Benzo[g,h,i]perylene	< 330	0	ug/kg	NA	b	
AAB 0261	Borehole 0-30(c)-1	Benzo[k]fluoranthene	< 330	0	ug/kg	0.33	1 mg/kg	
AAB 0261	Borehole 0-30(c)-1	Benzyl alcohol	< 330	0	ug/kg	0.33	24000 mg/kg	
AAB 0261	Borehole 0-30(c)-1	Beryllium	0.2	0.05	ug/g	0.2	a	Below Background of 2.37 mg/kg
AAB 0261	Borehole 0-30(c)-1	BHC [alpha-]	< 1.8	0	ug/kg	0.0018	0.1 mg/kg	
AAB 0261	Borehole 0-30(c)-1	BHC [beta-]	< 1.8	0	ug/kg	0.0018	4 mg/kg	
AAB 0261	Borehole 0-30(c)-1	BHC [delta-]	< 1.8	0	ug/kg	NA	b	
AAB 0261	Borehole 0-30(c)-1	Bis(2-chloroethoxy)methane	< 330	0	ug/kg	NA	b	
AAB 0261	Borehole 0-30(c)-1	Bis(2-chloroethyl)ether	< 330	0	ug/kg	0.33	0.12 mg/kg	Detection limit is greater than SAL
AAB 0261	Borehole 0-30(c)-1	Bis(2-chloroisopropyl)ether	< 330	0	ug/kg	0.33	100 mg/kg	
AAB 0261	Borehole 0-30(c)-1	Bis(2-ethylhexyl)phthalate	< 330	0	ug/kg	0.33	50 mg/kg	
AAB 0261	Borehole 0-30(c)-1	Bromobenzene	< 5	0	ug/kg	NA	b	
AAB 0261	Borehole 0-30(c)-1	Bromochloromethane	< 5	0	ug/kg	NA	b	
AAB 0261	Borehole 0-30(c)-1	Bromodichloromethane	< 5	0	ug/kg	0.005	11 mg/kg	
AAB 0261	Borehole 0-30(c)-1	Bromoform	< 5	0	ug/kg	0.005	89 mg/kg	
AAB 0261	Borehole 0-30(c)-1	Bromomethane	< 10	0	ug/kg	0.01	0.43 mg/kg	
AAB 0261	Borehole 0-30(c)-1	Bromophenylphenyl ether [4-]	< 330	0	ug/kg	NA	b	

a. Compound should be compared to background levels
b. No SAL or background established
< Analytical result is below detection limit shown to right of symbol
TI Tentatively identified compound
NA Not applicable

Sample ID	Location	Analyte	Sample Value	Analytical Uncertainty	Units	Units Converted (mg/kg or pCi/g)	Screening Action Level	Comments
AAB 0261	Borehole 0-30(c)-1	Butanone [2-]	< 20	0	ug/kg	0.02	4000 mg/kg	
AAB 0261	Borehole 0-30(c)-1	Butyl benzyl phthalate	< 330	0	ug/kg	0.33	16000 mg/kg	
AAB 0261	Borehole 0-30(c)-1	Butylbenzene [n-]	< 5	0	ug/kg	NA	b	
AAB 0261	Borehole 0-30(c)-1	Butylbenzene [sec-]	< 5	0	ug/kg	NA	b	
AAB 0261	Borehole 0-30(c)-1	Butylbenzene [tert-]	< 5	0	ug/kg	NA	b	
AAB 0261	Borehole 0-30(c)-1	Cadmium	< 0.4	0	ug/g	0.4	80 mg/kg	
AAB 0261	Borehole 0-30(c)-1	Carbon disulfide	< 5	0	ug/kg	0.005	7.4 mg/kg	
AAB 0261	Borehole 0-30(c)-1	Carbon tetrachloride	< 5	0	ug/kg	0.005	0.21 mg/kg	
AAB 0261	Borehole 0-30(c)-1	Chlordane [alpha-]	< 1.8	0	ug/kg	NA	b	
AAB 0261	Borehole 0-30(c)-1	Chlordane [gamma-]	< 1.8	0	ug/kg	NA	b	
AAB 0261	Borehole 0-30(c)-1	Chloro-3-methylphenol [4-]	< 330	0	ug/kg	0.33	16000 mg/kg	
AAB 0261	Borehole 0-30(c)-1	Chloroaniline [4-]	< 330	0	ug/kg	0.33	320 mg/kg	
AAB 0261	Borehole 0-30(c)-1	Chlorobenzene	< 5	0	ug/kg	0.005	67 mg/kg	
AAB 0261	Borehole 0-30(c)-1	Chlorodibromomethane	< 5	0	ug/kg	0.005	83 mg/kg	
AAB 0261	Borehole 0-30(c)-1	Chloroethane	< 10	0	ug/kg	0.01	2900 mg/kg	
AAB 0261	Borehole 0-30(c)-1	Chloroform	< 5	0	ug/kg	0.005	0.21 mg/kg	
AAB 0261	Borehole 0-30(c)-1	Chloromethane	< 10	0	ug/kg	0.01	6.4 mg/kg	
AAB 0261	Borehole 0-30(c)-1	Chloronaphthalene [2-]	< 330	0	ug/kg	0.33	6400 mg/kg	
AAB 0261	Borehole 0-30(c)-1	Chlorophenol [o-]	< 330	0	ug/kg	0.33	400 mg/kg	
AAB 0261	Borehole 0-30(c)-1	Chlorophenylphenyl ether [4-]	< 330	0	ug/kg	NA	b	
AAB 0261	Borehole 0-30(c)-1	Chlorotoluene [o-]	< 5	0	ug/kg	0.005	1600 mg/kg	
AAB 0261	Borehole 0-30(c)-1	Chlorotoluene [p-]	< 5	0	ug/kg	NA	b	
AAB 0261	Borehole 0-30(c)-1	Chromium	3.3	1	ug/g	3.3	a	Below Background of 34.74 mg/kg
AAB 0261	Borehole 0-30(c)-1	Chrysene	< 330	0	ug/kg	0.33	96 mg/kg	
AAB 0261	Borehole 0-30(c)-1	DDD [p,p'-]	< 3.4	0	ug/kg	0.0034	2.9 mg/kg	
AAB 0261	Borehole 0-30(c)-1	DDE [p,p'-]	< 3.4	0	ug/kg	0.0034	2.1 mg/kg	
AAB 0261	Borehole 0-30(c)-1	DDT [p,p'-]	< 3.4	0	ug/kg	0.0034	2.1 mg/kg	
AAB 0261	Borehole 0-30(c)-1	Di-n-butyl phthalate	< 330	0	ug/kg	0.33	8000 mg/kg	
AAB 0261	Borehole 0-30(c)-1	Di-n-octyl phthalate	< 330	0	ug/kg	0.33	1600 mg/kg	
AAB 0261	Borehole 0-30(c)-1	Dibenzofuran	< 330	0	ug/kg	NA	b	
AAB 0261	Borehole 0-30(c)-1	Dibenzo[a,h]anthracene	< 330	0	ug/kg	0.33	0.1 mg/kg	Detection limit is greater than SAL
AAB 0261	Borehole 0-30(c)-1	Dibenzo[a,h]anthracene	< 330	0	ug/kg	0.33	0.1 mg/kg	
AAB 0261	Borehole 0-30(c)-1	Dibromo-3-chloropropane [1,2-]	< 10	0	ug/kg	0.01	0.5 mg/kg	
AAB 0261	Borehole 0-30(c)-1	Dibromoethane [1,2-]	< 5	0	ug/kg	NA	b	
AAB 0261	Borehole 0-30(c)-1	Dibromomethane	< 5	0	ug/kg	0.005	0.0082 mg/kg	
AAB 0261	Borehole 0-30(c)-1	Dichlorobenzene (1,2) [o-]	< 5	0	ug/kg	0.005	1600 mg/kg	
AAB 0261	Borehole 0-30(c)-1	Dichlorobenzene (1,2) [o-]	< 330	0	ug/kg	0.33	1600 mg/kg	
AAB 0261	Borehole 0-30(c)-1	Dichlorobenzene (1,3) [m-]	< 5	0	ug/kg	0.005	7200 mg/kg	
AAB 0261	Borehole 0-30(c)-1	Dichlorobenzene (1,3) [m-]	< 330	0	ug/kg	0.33	7200 mg/kg	
AAB 0261	Borehole 0-30(c)-1	Dichlorobenzene (1,4) [p-]	< 5	0	ug/kg	0.005	29 mg/kg	
AAB 0261	Borehole 0-30(c)-1	Dichlorobenzene (1,4) [p-]	< 330	0	ug/kg	0.33	29 mg/kg	
AAB 0261	Borehole 0-30(c)-1	Dichlorobenzidine [3,3'-]	< 330	0	ug/kg	0.33	1.6 mg/kg	
AAB 0261	Borehole 0-30(c)-1	Dichlorodifluoromethane	< 10	0	ug/kg	0.01	16000 mg/kg	
AAB 0261	Borehole 0-30(c)-1	Dichloroethane [1,1-]	< 5	0	ug/kg	0.005	410 mg/kg	
AAB 0261	Borehole 0-30(c)-1	Dichloroethane [1,2-]	< 5	0	ug/kg	0.005	0.2 mg/kg	
AAB 0261	Borehole 0-30(c)-1	Dichloroethene [1,1-]	< 5	0	ug/kg	0.005	0.4 mg/kg	
AAB 0261	Borehole 0-30(c)-1	Dichloroethene [trans-1,2-]	< 5	0	ug/kg	0.005	1600 mg/kg	
AAB 0261	Borehole 0-30(c)-1	Dichloroethylene [cis-1,2-]	< 5	0	ug/kg	0.005	800 mg/kg	
AAB 0261	Borehole 0-30(c)-1	Dichlorophenol [2,4-]	< 330	0	ug/kg	0.33	240 mg/kg	
AAB 0261	Borehole 0-30(c)-1	Dichloropropane [1,2-]	< 5	0	ug/kg	0.005	6.5 mg/kg	
AAB 0261	Borehole 0-30(c)-1	Dichloropropane [1,3-]	< 5	0	ug/kg	NA	b	
AAB 0261	Borehole 0-30(c)-1	Dichloropropane [2,2-]	< 5	0	ug/kg	NA	b	

a Compound should be compared to background levels
b No SAL or background established
< Analytical result is below detection limit shown to right of symbol
TI Tentatively identified compound
NA Not applicable

Sample ID	Location	Analyte	Sample Value	Analytical Uncertainty	Units	Units Converted (mg/kg or pCi/g)	Screening Action Level	Comments
AAB 0261	Borehole 0-30(c)-1	Dichloropropene [1,1-]	< 5	0	ug/kg	NA	b	
AAB 0261	Borehole 0-30(c)-1	Dichloropropene [cis-1,3-]	< 5	0	ug/kg	0.005	0.17 mg/kg	
AAB 0261	Borehole 0-30(c)-1	Dichloropropene [trans-1,3-]	< 5	0	ug/kg	0.005	0.17 mg/kg	
AAB 0261	Borehole 0-30(c)-1	Dieldrin	< 3.4	0	ug/kg	0.0034	0.044 mg/kg	
AAB 0261	Borehole 0-30(c)-1	Diethyl phthalate	< 330	0	ug/kg	0.33	64000 mg/kg	
AAB 0261	Borehole 0-30(c)-1	Dimethyl phthalate	< 330	0	ug/kg	0.33	800000 mg/kg	
AAB 0261	Borehole 0-30(c)-1	Dimethylphenol [2,4-]	< 330	0	ug/kg	0.33	1600 mg/kg	
AAB 0261	Borehole 0-30(c)-1	Dinitrophenol [2,4-]	< 330	0	ug/kg	0.33	160 mg/kg	
AAB 0261	Borehole 0-30(c)-1	Dinitrotoluene [2,4-]	< 330	0	ug/kg	0.33	1 mg/kg	
AAB 0261	Borehole 0-30(c)-1	Dinitrotoluene [2,6-]	< 330	0	ug/kg	0.33	1 mg/kg	
AAB 0261	Borehole 0-30(c)-1	Endosulfan I	< 1.8	0	ug/kg	NA	b	
AAB 0261	Borehole 0-30(c)-1	Endosulfan II	< 3.4	0	ug/kg	NA	b	
AAB 0261	Borehole 0-30(c)-1	Endosulfan sulfate	< 3.4	0	ug/kg	0.0034	4 mg/kg	
AAB 0261	Borehole 0-30(c)-1	Endrin	< 3.4	0	ug/kg	0.0034	24 mg/kg	
AAB 0261	Borehole 0-30(c)-1	Endrin aldehyde	< 3.4	0	ug/kg	NA	b	
AAB 0261	Borehole 0-30(c)-1	Endrin ketone	< 3.4	0	ug/kg	NA	b	
AAB 0261	Borehole 0-30(c)-1	Ethylbenzene	< 5	0	ug/kg	0.005	3100 mg/kg	
AAB 0261	Borehole 0-30(c)-1	Fluoranthene	< 330	0	ug/kg	0.33	3200 mg/kg	
AAB 0261	Borehole 0-30(c)-1	Fluorene	< 330	0	ug/kg	0.33	3200 mg/kg	
AAB 0261	Borehole 0-30(c)-1	Heptachlor	< 1.8	0	ug/kg	0.0018	0.16 mg/kg	
AAB 0261	Borehole 0-30(c)-1	Heptachlor epoxide	< 1.8	0	ug/kg	0.0018	0.077 mg/kg	
AAB 0261	Borehole 0-30(c)-1	Hexachlorobenzene	< 330	0	ug/kg	0.33	0.44 mg/kg	
AAB 0261	Borehole 0-30(c)-1	Hexachlorobutadiene	< 330	0	ug/kg	0.33	90 mg/kg	
AAB 0261	Borehole 0-30(c)-1	Hexachlorocyclopentadiene	< 330	0	ug/kg	0.33	560 mg/kg	
AAB 0261	Borehole 0-30(c)-1	Hexachloroethane	< 330	0	ug/kg	0.33	80 mg/kg	
AAB 0261	Borehole 0-30(c)-1	Hexanone [2-]	< 20	0	ug/kg	NA	b	
AAB 0261	Borehole 0-30(c)-1	Indeno[1,2,3-cd]pyrene	< 330	0	ug/kg	0.33	1 mg/kg	
AAB 0261	Borehole 0-30(c)-1	Isophorone	< 330	0	ug/kg	0.33	7400 mg/kg	
AAB 0261	Borehole 0-30(c)-1	Isopropylbenzene	< 5	0	ug/kg	0.005	3200 mg/kg	
AAB 0261	Borehole 0-30(c)-1	Isopropyltoluene [4-]	< 5	0	ug/kg	NA	b	
AAB 0261	Borehole 0-30(c)-1	Lead	4.9	0.7	ug/g	4.9	400 mg/kg	
AAB 0261	Borehole 0-30(c)-1	Lindane	< 1.8	0	ug/kg	0.0018	0.54 mg/kg	
AAB 0261	Borehole 0-30(c)-1	Mercury	< 0.1	0	ug/g	0.1	24 mg/kg	
AAB 0261	Borehole 0-30(c)-1	Methoxychlor	< 18	0	ug/kg	0.018	400 mg/kg	
AAB 0261	Borehole 0-30(c)-1	Methyl iodide	< 5	0	ug/kg	NA	b	
AAB 0261	Borehole 0-30(c)-1	Methyl-2-pentanone [4-]	< 20	0	ug/kg	0.02	510 mg/kg	
AAB 0261	Borehole 0-30(c)-1	Methyl-4,6-dinitrophenol [2-]	< 330	0	ug/kg	NA	b	
AAB 0261	Borehole 0-30(c)-1	Methylene chloride	< 5	0	ug/kg	0.005	5.6 mg/kg	
AAB 0261	Borehole 0-30(c)-1	Methylnaphthalene [2-]	< 330	0	ug/kg	NA	b	
AAB 0261	Borehole 0-30(c)-1	Methylphenol [2-]	< 330	0	ug/kg	0.33	4000 mg/kg	
AAB 0261	Borehole 0-30(c)-1	Methylphenol [4-]	< 330	0	ug/kg	0.33	400 mg/kg	
AAB 0261	Borehole 0-30(c)-1	Naphthalene	< 330	0	ug/kg	0.33	3200 mg/kg	
AAB 0261	Borehole 0-30(c)-1	Nickel	2.8	1.1	ug/g	2.8	1600 mg/kg	
AAB 0261	Borehole 0-30(c)-1	Nickel	2.8	2	ug/g	2.8	1600 mg/kg	
AAB 0261	Borehole 0-30(c)-1	Nitroaniline [2-]	< 330	0	ug/kg	NA	b	
AAB 0261	Borehole 0-30(c)-1	Nitroaniline [3-]	< 330	0	ug/kg	0.33	240 mg/kg	
AAB 0261	Borehole 0-30(c)-1	Nitroaniline [4-]	< 330	0	ug/kg	0.33	240 mg/kg	
AAB 0261	Borehole 0-30(c)-1	Nitrobenzene	< 330	0	ug/kg	0.33	5.3 mg/kg	
AAB 0261	Borehole 0-30(c)-1	Nitrophenol [2-]	< 330	0	ug/kg	NA	b	
AAB 0261	Borehole 0-30(c)-1	Nitrophenol [4-]	< 330	0	ug/kg	0.33	5000 mg/kg	
AAB 0261	Borehole 0-30(c)-1	Nitrosodi-n-propylamine [N-]	< 330	0	ug/kg	0.33	0.1 mg/kg	Detection limit is greater than SAL
AAB 0261	Borehole 0-30(c)-1	Nitrosodimethylamine [N-]	< 330	0	ug/kg	0.33	0.014 mg/kg	Detection limit is greater than SAL

a. Compound should be compared to background levels
b. No SAL or background established
< Analytical result is below detection limit shown to right of symbol
TI Tentatively identified compound
NA Not applicable

Sample ID	Location	Analyte	Sample Value	Analytical Uncertainty	Units	Units Converted (mg/kg or pCi/g)	Screening Action Level	Comments
AAB 0261	Borehole 0-30(c)-1	Nitrosodimethylamine [N-]	< 330	0	ug/kg	0.33	0.014 mg/kg	
AAB 0261	Borehole 0-30(c)-1	Nitrosodiphenylamine [N-]	< 330	0	ug/kg	0.33	140 mg/kg	
AAB 0261	Borehole 0-30(c)-1	Pentachlorophenol	< 330	0	ug/kg	0.33	5.8 mg/kg	
AAB 0261	Borehole 0-30(c)-1	Phenanthrene	< 330	0	ug/kg	NA	b	
AAB 0261	Borehole 0-30(c)-1	Phenol	< 330	0	ug/kg	0.33	48000 mg/kg	
AAB 0261	Borehole 0-30(c)-1	Plutonium-238	0.0326	0.089	pCi/g	0.0326	20 pCi/g	
AAB 0261	Borehole 0-30(c)-1	Plutonium-238	1.53	0.3165	pCi/g	1.53	20 pCi/g	
AAB 0261	Borehole 0-30(c)-1	Plutonium-239	0.143	0.104	pCi/g	0.143	18 pCi/g	
AAB 0261	Borehole 0-30(c)-1	Plutonium-239	1.81	0.334	pCi/g	1.81	18 pCi/g	
AAB 0261	Borehole 0-30(c)-1	Propylbenzene	< 5	0	ug/kg	NA	b	
AAB 0261	Borehole 0-30(c)-1	Pyrene	< 330	0	ug/kg	0.33	2400 mg/kg	
AAB 0261	Borehole 0-30(c)-1	Selenium	0.3	0.2	ug/g	0.3	400 mg/kg	
AAB 0261	Borehole 0-30(c)-1	Silver	< 1	0	ug/g	1	400 mg/kg	
AAB 0261	Borehole 0-30(c)-1	Styrene	< 5	0	ug/kg	0.005	3300 mg/kg	
AAB 0261	Borehole 0-30(c)-1	Tetrachloroethane [1,1,1,2-]	< 5	0	ug/kg	0.005	270 mg/kg	
AAB 0261	Borehole 0-30(c)-1	Tetrachloroethane [1,1,2,2-]	< 5	0	ug/kg	0.005	3.9 mg/kg	
AAB 0261	Borehole 0-30(c)-1	Tetrachloroethylene	< 5	0	ug/kg	0.005	5.9 mg/kg	
AAB 0261	Borehole 0-30(c)-1	Thallium	< 0.25	0	ug/g	0.25	6.4 mg/kg	
AAB 0261	Borehole 0-30(c)-1	Toluene	< 5	0	ug/kg	0.005	910 mg/kg	
AAB 0261	Borehole 0-30(c)-1	Toxaphene	< 180	0	ug/kg	0.18	0.64 mg/kg	
AAB 0261	Borehole 0-30(c)-1	Trichloro-1,2,2-trifluoroethane [1,1,2-]	< 5	0	ug/kg	NA	b	
AAB 0261	Borehole 0-30(c)-1	Trichlorobenzene [1,2,4-]	< 330	0	ug/kg	0.33	160 mg/kg	
AAB 0261	Borehole 0-30(c)-1	Trichloroethane [1,1,1-]	< 5	0	ug/kg	0.005	1000 mg/kg	
AAB 0261	Borehole 0-30(c)-1	Trichloroethane [1,1,2-]	< 5	0	ug/kg	0.005	6.3 mg/kg	
AAB 0261	Borehole 0-30(c)-1	Trichloroethene	< 5	0	ug/kg	0.005	3.2 mg/kg	
AAB 0261	Borehole 0-30(c)-1	Trichlorofluoromethane	< 5	0	ug/kg	0.005	24000 mg/kg	
AAB 0261	Borehole 0-30(c)-1	Trichlorophenol [2,4,5-]	< 330	0	ug/kg	0.33	8000 mg/kg	
AAB 0261	Borehole 0-30(c)-1	Trichlorophenol [2,4,6-]	< 330	0	ug/kg	0.33	64 mg/kg	
AAB 0261	Borehole 0-30(c)-1	Trichloropropane [1,2,3-]	< 5	0	ug/kg	0.005	480 mg/kg	
AAB 0261	Borehole 0-30(c)-1	Trimethylbenzene [1,2,4-]	< 5	0	ug/kg	0.005	40 mg/kg	
AAB 0261	Borehole 0-30(c)-1	Trimethylbenzene [1,3,5-]	< 5	0	ug/kg	0.005	32 mg/kg	
AAB 0261	Borehole 0-30(c)-1	Uranium	0.788	0.0386	ug/g	0.788	a	Below Background of 3.41 mg/kg
AAB 0261	Borehole 0-30(c)-1	Vinyl chloride	< 10	0	ug/kg	0.01	0.013 mg/kg	
AAB 0261	Borehole 0-30(c)-1	Xylenes (o + m + p) [Mixed-]	< 5	0	ug/kg	0.005	160000 mg/kg	
AAB 0267	Borehole 0-030(c)-3	Acenaphthene	< 330	0	ug/kg	0.33	4800 mg/kg	
AAB 0267	Borehole 0-030(c)-3	Acenaphthylene	< 330	0	ug/kg	NA	b	
AAB 0267	Borehole 0-030(c)-3	Acetone	< 20	0	ug/kg	0.02	8000 mg/kg	
AAB 0267	Borehole 0-030(c)-3	Aldrin	< 1.8	0	ug/kg	0.0018	0.04 mg/kg	
AAB 0267	Borehole 0-030(c)-3	Americium-241	< 1.37	0	pCi/g	1.37	17 pCi/g	
AAB 0267	Borehole 0-030(c)-3	Aniline	< 330	0	ug/kg	0.33	120 mg/kg	
AAB 0267	Borehole 0-030(c)-3	Anthracene	< 330	0	ug/kg	0.33	24000 mg/kg	
AAB 0267	Borehole 0-030(c)-3	Antimony	< 0.3	0	ug/g	0.3	32 mg/kg	
AAB 0267	Borehole 0-030(c)-3	Aroclor 1016	< 35	0	ug/kg	NA	b	
AAB 0267	Borehole 0-030(c)-3	Aroclor 1221	< 72	0	ug/kg	NA	b	
AAB 0267	Borehole 0-030(c)-3	Aroclor 1232	< 35	0	ug/kg	NA	b	
AAB 0267	Borehole 0-030(c)-3	Aroclor 1242	< 0.2581	0	ug/g	NA	b	
AAB 0267	Borehole 0-030(c)-3	Aroclor 1242	< 35	0	ug/kg	NA	b	
AAB 0267	Borehole 0-030(c)-3	Aroclor 1248	< 35	0	ug/kg	NA	b	
AAB 0267	Borehole 0-030(c)-3	Aroclor 1254	< 0.2581	0	ug/g	NA	b	
AAB 0267	Borehole 0-030(c)-3	Aroclor 1254	< 35	0	ug/kg	NA	b	
AAB 0267	Borehole 0-030(c)-3	Aroclor 1260	< 0.2581	0	ug/g	NA	b	
AAB 0267	Borehole 0-030(c)-3	Aroclor 1260	< 35	0	ug/kg	NA	b	

a. Compound should be compared to background levels
b. No SAL or background established
<. Analytical result is below detection limit shown to right of symbol
TI Tentatively identified compound
NA Not applicable

Sample ID	Location	Analyte	Sample Value	Analytical Uncertainty	Units	Units Converted (mg/kg or pCi/g)	Screening Action Level	Comments
AAB 0267	Borehole 0-030(c)-3	Aroclor [Mixed-]	< 0.2581	0	ug/g	0.2581	0.09 mg/kg	Detection limit is greater than SAL
AAB 0267	Borehole 0-030(c)-3	Arsenic	1.2	0.2	ug/g	1.2	a	Below Background of 5.04 mg/kg
AAB 0267	Borehole 0-030(c)-3	Azobenzene	< 330	0	ug/kg	0.33	6.4 mg/kg	
AAB 0267	Borehole 0-030(c)-3	Barium	27	3	ug/g	27	5600 mg/kg	
AAB 0267	Borehole 0-030(c)-3	Benzene	< 5	0	ug/kg	0.005	0.67 mg/kg	
AAB 0267	Borehole 0-030(c)-3	Benzidine [m-]	< 330	0	ug/kg	0.33	0.003 mg/kg	Detection limit is greater than SAL
AAB 0267	Borehole 0-030(c)-3	Benzoic acid	< 330	0	ug/kg	0.33	320000 mg/kg	
AAB 0267	Borehole 0-030(c)-3	Benzo[a]anthracene	< 330	0	ug/kg	0.33	1 mg/kg	
AAB 0267	Borehole 0-030(c)-3	Benzo[a]pyrene	< 330	0	ug/kg	0.33	0.1 mg/kg	Detection limit is greater than SAL
AAB 0267	Borehole 0-030(c)-3	Benzo[b]fluoranthene	< 330	0	ug/kg	0.33	1 mg/kg	
AAB 0267	Borehole 0-030(c)-3	Benzo[g,h,i]perylene	< 330	0	ug/kg	NA	b	
AAB 0267	Borehole 0-030(c)-3	Benzo[k]fluoranthene	< 330	0	ug/kg	0.33	1 mg/kg	
AAB 0267	Borehole 0-030(c)-3	Benzyl alcohol	< 330	0	ug/kg	0.33	24000 mg/kg	
AAB 0267	Borehole 0-030(c)-3	Beryllium	0.99	0.1	ug/g	0.99	a	Below Background of 2.37 mg/kg
AAB 0267	Borehole 0-030(c)-3	BHC [alpha-]	< 1.8	0	ug/kg	0.0018	0.1 mg/kg	
AAB 0267	Borehole 0-030(c)-3	BHC [beta-]	< 1.8	0	ug/kg	0.0018	4 mg/kg	
AAB 0267	Borehole 0-030(c)-3	BHC [delta-]	< 1.8	0	ug/kg	NA	b	
AAB 0267	Borehole 0-030(c)-3	Bis(2-chloroethoxy)methane	< 330	0	ug/kg	NA	b	
AAB 0267	Borehole 0-030(c)-3	Bis(2-chloroethyl)ether	< 330	0	ug/kg	0.33	0.12 mg/kg	Detection limit is greater than SAL
AAB 0267	Borehole 0-030(c)-3	Bis(2-chloroisopropyl)ether	< 330	0	ug/kg	0.33	100 mg/kg	
AAB 0267	Borehole 0-030(c)-3	Bis(2-ethylhexyl)phthalate	< 330	0	ug/kg	0.33	50 mg/kg	
AAB 0267	Borehole 0-030(c)-3	Bromobenzene	< 5	0	ug/kg	NA	b	
AAB 0267	Borehole 0-030(c)-3	Bromochloromethane	< 5	0	ug/kg	NA	b	
AAB 0267	Borehole 0-030(c)-3	Bromodichloromethane	< 5	0	ug/kg	0.005	11 mg/kg	
AAB 0267	Borehole 0-030(c)-3	Bromoform	< 5	0	ug/kg	0.005	89 mg/kg	
AAB 0267	Borehole 0-030(c)-3	Bromomethane	< 10	0	ug/kg	0.01	0.43 mg/kg	
AAB 0267	Borehole 0-030(c)-3	Bromophenylphenyl ether [4-]	< 330	0	ug/kg	NA	b	
AAB 0267	Borehole 0-030(c)-3	Butanone [2-]	< 20	0	ug/kg	0.02	4000 mg/kg	
AAB 0267	Borehole 0-030(c)-3	Butyl benzyl phthalate	< 330	0	ug/kg	0.33	16000 mg/kg	
AAB 0267	Borehole 0-030(c)-3	Butylbenzene [n-]	< 5	0	ug/kg	NA	b	
AAB 0267	Borehole 0-030(c)-3	Butylbenzene [sec-]	< 5	0	ug/kg	NA	b	
AAB 0267	Borehole 0-030(c)-3	Butylbenzene [tert-]	< 5	0	ug/kg	NA	b	
AAB 0267	Borehole 0-030(c)-3	Cadmium	< 0.4	0	ug/g	0.4	80 mg/kg	
AAB 0267	Borehole 0-030(c)-3	Carbon disulfide	< 5	0	ug/kg	0.005	7.4 mg/kg	
AAB 0267	Borehole 0-030(c)-3	Carbon tetrachloride	< 5	0	ug/kg	0.005	0.21 mg/kg	
AAB 0267	Borehole 0-030(c)-3	Chlordane [alpha-]	< 1.8	0	ug/kg	NA	b	
AAB 0267	Borehole 0-030(c)-3	Chlordane [gamma-]	< 1.8	0	ug/kg	NA	b	
AAB 0267	Borehole 0-030(c)-3	Chloro-3-methylphenol [4-]	< 330	0	ug/kg	0.33	16000 mg/kg	
AAB 0267	Borehole 0-030(c)-3	Chloroaniline [4-]	< 330	0	ug/kg	0.33	320 mg/kg	
AAB 0267	Borehole 0-030(c)-3	Chlorobenzene	< 5	0	ug/kg	0.005	67 mg/kg	
AAB 0267	Borehole 0-030(c)-3	Chlorodibromomethane	< 5	0	ug/kg	0.005	83 mg/kg	
AAB 0267	Borehole 0-030(c)-3	Chloroethane	< 10	0	ug/kg	0.01	2900 mg/kg	
AAB 0267	Borehole 0-030(c)-3	Chloroform	< 5	0	ug/kg	0.005	0.21 mg/kg	
AAB 0267	Borehole 0-030(c)-3	Chloromethane	< 10	0	ug/kg	0.01	6.4 mg/kg	
AAB 0267	Borehole 0-030(c)-3	Chloronaphthalene [2-]	< 330	0	ug/kg	0.33	6400 mg/kg	
AAB 0267	Borehole 0-030(c)-3	Chlorophenol [o-]	< 330	0	ug/kg	0.33	400 mg/kg	
AAB 0267	Borehole 0-030(c)-3	Chlorophenylphenyl ether [4-]	< 330	0	ug/kg	NA	b	
AAB 0267	Borehole 0-030(c)-3	Chlorotoluene [o-]	< 5	0	ug/kg	0.005	1600 mg/kg	
AAB 0267	Borehole 0-030(c)-3	Chlorotoluene [p-]	< 5	0	ug/kg	NA	b	
AAB 0267	Borehole 0-030(c)-3	Chromium	3.2	0.8	ug/g	3.2	a	Below Background of 34.74 mg/kg
AAB 0267	Borehole 0-030(c)-3	Chrysene	< 330	0	ug/kg	0.33	96 mg/kg	
AAB 0267	Borehole 0-030(c)-3	DDD [p,p'-]	< 3.5	0	ug/kg	0.0035	2.9 mg/kg	

a. Compound should be compared to background levels
b. No SAL or background established
< Analytical result is below detection limit shown to right of symbol
TI Tentatively identified compound
NA Not applicable

Sample ID	Location	Analyte	Sample Value	Analytical Uncertainty	Units	Units Converted (mg/kg or pCi/g)	Screening Action Level	Comments
AAB 0267	Borehole 0-030(c)-3	DDE [p,p'-]	< 3.5	0	ug/kg	0.0035	2.1 mg/kg	
AAB 0267	Borehole 0-030(c)-3	DDT [p,p'-]	< 3.5	0	ug/kg	0.0035	2.1 mg/kg	
AAB 0267	Borehole 0-030(c)-3	Di-n-butyl phthalate	< 330	0	ug/kg	0.33	8000 mg/kg	
AAB 0267	Borehole 0-030(c)-3	Di-n-octyl phthalate	< 330	0	ug/kg	0.33	1600 mg/kg	
AAB 0267	Borehole 0-030(c)-3	Dibenzofuran	< 330	0	ug/kg	NA	b	
AAB 0267	Borehole 0-030(c)-3	Dibenzo[a,h]anthracene	< 330	0	ug/kg	0.33	0.1 mg/kg	Detection limit is greater than SAL
AAB 0267	Borehole 0-030(c)-3	Dibenzo[a,h]anthracene	< 330	0	ug/kg	0.33	0.1 mg/kg	
AAB 0267	Borehole 0-030(c)-3	Dibromo-3-chloropropane [1,2-]	< 10	0	ug/kg	0.01	0.5 mg/kg	
AAB 0267	Borehole 0-030(c)-3	Dibromoethane [1,2-]	< 5	0	ug/kg	NA	b	
AAB 0267	Borehole 0-030(c)-3	Dibromomethane	< 5	0	ug/kg	0.005	0.0082 mg/kg	
AAB 0267	Borehole 0-030(c)-3	Dichlorobenzene (1,2) [o-]	< 5	0	ug/kg	0.005	1600 mg/kg	
AAB 0267	Borehole 0-030(c)-3	Dichlorobenzene (1,2) [o-]	< 330	0	ug/kg	0.33	1600 mg/kg	
AAB 0267	Borehole 0-030(c)-3	Dichlorobenzene (1,3) [m-]	< 5	0	ug/kg	0.005	7200 mg/kg	
AAB 0267	Borehole 0-030(c)-3	Dichlorobenzene (1,3) [m-]	< 330	0	ug/kg	0.33	7200 mg/kg	
AAB 0267	Borehole 0-030(c)-3	Dichlorobenzene (1,4) [p-]	< 5	0	ug/kg	0.005	29 mg/kg	
AAB 0267	Borehole 0-030(c)-3	Dichlorobenzene (1,4) [p-]	< 330	0	ug/kg	0.33	29 mg/kg	
AAB 0267	Borehole 0-030(c)-3	Dichlorobenzidine [3,3'-]	< 330	0	ug/kg	0.33	1.6 mg/kg	
AAB 0267	Borehole 0-030(c)-3	Dichlorodifluoromethane	< 10	0	ug/kg	0.01	16000 mg/kg	
AAB 0267	Borehole 0-030(c)-3	Dichloroethane [1,1-]	< 5	0	ug/kg	0.005	410 mg/kg	
AAB 0267	Borehole 0-030(c)-3	Dichloroethane [1,2-]	< 5	0	ug/kg	0.005	0.2 mg/kg	
AAB 0267	Borehole 0-030(c)-3	Dichloroethene [1,1-]	< 5	0	ug/kg	0.005	0.4 mg/kg	
AAB 0267	Borehole 0-030(c)-3	Dichloroethene [trans-1,2-]	< 5	0	ug/kg	0.005	1600 mg/kg	
AAB 0267	Borehole 0-030(c)-3	Dichloroethylene [cis-1,2-]	< 5	0	ug/kg	0.005	800 mg/kg	
AAB 0267	Borehole 0-030(c)-3	Dichlorophenol [2,4-]	< 330	0	ug/kg	0.33	240 mg/kg	
AAB 0267	Borehole 0-030(c)-3	Dichloropropane [1,2-]	< 5	0	ug/kg	0.005	6.5 mg/kg	
AAB 0267	Borehole 0-030(c)-3	Dichloropropane [1,3-]	< 5	0	ug/kg	NA	b	
AAB 0267	Borehole 0-030(c)-3	Dichloropropane [2,2-]	< 5	0	ug/kg	NA	b	
AAB 0267	Borehole 0-030(c)-3	Dichloropropene [1,1-]	< 5	0	ug/kg	NA	b	
AAB 0267	Borehole 0-030(c)-3	Dichloropropene [cis-1,3-]	< 5	0	ug/kg	0.005	0.17 mg/kg	
AAB 0267	Borehole 0-030(c)-3	Dichloropropene [trans-1,3-]	< 5	0	ug/kg	0.005	0.17 mg/kg	
AAB 0267	Borehole 0-030(c)-3	Dieldrin	< 3.5	0	ug/kg	0.0035	0.044 mg/kg	
AAB 0267	Borehole 0-030(c)-3	Diethyl phthalate	< 330	0	ug/kg	0.33	64000 mg/kg	
AAB 0267	Borehole 0-030(c)-3	Dimethyl phthalate	< 330	0	ug/kg	0.33	800000 mg/kg	
AAB 0267	Borehole 0-030(c)-3	Dimethylphenol [2,4-]	< 330	0	ug/kg	0.33	1600 mg/kg	
AAB 0267	Borehole 0-030(c)-3	Dinitrophenol [2,4-]	< 330	0	ug/kg	0.33	160 mg/kg	
AAB 0267	Borehole 0-030(c)-3	Dinitrotoluene [2,4-]	< 330	0	ug/kg	0.33	1 mg/kg	
AAB 0267	Borehole 0-030(c)-3	Dinitrotoluene [2,6-]	< 330	0	ug/kg	0.33	1 mg/kg	
AAB 0267	Borehole 0-030(c)-3	Endosulfan I	< 1.8	0	ug/kg	NA	b	
AAB 0267	Borehole 0-030(c)-3	Endosulfan II	< 3.5	0	ug/kg	NA	b	
AAB 0267	Borehole 0-030(c)-3	Endosulfan sulfate	< 3.5	0	ug/kg	0.0035	4 mg/kg	
AAB 0267	Borehole 0-030(c)-3	Endrin	< 3.5	0	ug/kg	0.0035	24 mg/kg	
AAB 0267	Borehole 0-030(c)-3	Endrin aldehyde	< 3.5	0	ug/kg	NA	b	
AAB 0267	Borehole 0-030(c)-3	Endrin ketone	< 3.5	0	ug/kg	NA	b	
AAB 0267	Borehole 0-030(c)-3	Ethylbenzene	< 5	0	ug/kg	0.005	3100 mg/kg	
AAB 0267	Borehole 0-030(c)-3	Fluoranthene	< 330	0	ug/kg	0.33	3200 mg/kg	
AAB 0267	Borehole 0-030(c)-3	Fluorene	< 330	0	ug/kg	0.33	3200 mg/kg	
AAB 0267	Borehole 0-030(c)-3	Heptachlor	< 1.8	0	ug/kg	0.0018	0.16 mg/kg	
AAB 0267	Borehole 0-030(c)-3	Heptachlor epoxide	< 1.8	0	ug/kg	0.0018	0.077 mg/kg	
AAB 0267	Borehole 0-030(c)-3	Hexachlorobenzene	< 330	0	ug/kg	0.33	0.44 mg/kg	
AAB 0267	Borehole 0-030(c)-3	Hexachlorobutadiene	< 330	0	ug/kg	0.33	90 mg/kg	
AAB 0267	Borehole 0-030(c)-3	Hexachlorocyclopentadiene	< 330	0	ug/kg	0.33	560 mg/kg	
AAB 0267	Borehole 0-030(c)-3	Hexachloroethane	< 330	0	ug/kg	0.33	80 mg/kg	

a Compound should be compared to background levels
b No SAL or background established
< Analytical result is below detection limit shown to right of symbol
TI Tentatively identified compound
NA Not applicable

Sample ID	Location	Analyte	Sample Value	Analytical Uncertainty	Units	Units Converted (mg/kg or pCi/g)	Screening Action Level	Comments
AAB 0267	Borehole 0-030(c)-3	Hexanone [2-]	< 20	0	ug/kg	NA	b	
AAB 0267	Borehole 0-030(c)-3	Indeno[1,2,3-cd]pyrene	< 330	0	ug/kg	0.33	1 mg/kg	
AAB 0267	Borehole 0-030(c)-3	Isophorone	< 330	0	ug/kg	0.33	7400 mg/kg	
AAB 0267	Borehole 0-030(c)-3	Isopropylbenzene	< 5	0	ug/kg	0.005	3200 mg/kg	
AAB 0267	Borehole 0-030(c)-3	Isopropyltoluene [4-]	< 5	0	ug/kg	NA	b	
AAB 0267	Borehole 0-030(c)-3	Lead	4.7	2.9	ug/g	4.7	400 mg/kg	
AAB 0267	Borehole 0-030(c)-3	Lindane	< 1.8	0	ug/kg	0.0018	0.54 mg/kg	
AAB 0267	Borehole 0-030(c)-3	Mercury	< 0.1	0	ug/g	0.1	24 mg/kg	
AAB 0267	Borehole 0-030(c)-3	Methoxychlor	< 18	0	ug/kg	0.018	400 mg/kg	
AAB 0267	Borehole 0-030(c)-3	Methyl iodide	< 5	0	ug/kg	NA	b	
AAB 0267	Borehole 0-030(c)-3	Methyl-2-pentanone [4-]	< 20	0	ug/kg	0.02	510 mg/kg	
AAB 0267	Borehole 0-030(c)-3	Methyl-4,6-dinitrophenol [2-]	< 330	0	ug/kg	NA	b	
AAB 0267	Borehole 0-030(c)-3	Methylene chloride	< 5	0	ug/kg	0.005	5.6 mg/kg	
AAB 0267	Borehole 0-030(c)-3	Methylnaphthalene [2-]	< 330	0	ug/kg	NA	b	
AAB 0267	Borehole 0-030(c)-3	Methylphenol [2-]	< 330	0	ug/kg	0.33	4000 mg/kg	
AAB 0267	Borehole 0-030(c)-3	Methylphenol [4-]	< 330	0	ug/kg	0.33	400 mg/kg	
AAB 0267	Borehole 0-030(c)-3	Naphthalene	< 330	0	ug/kg	0.33	3200 mg/kg	
AAB 0267	Borehole 0-030(c)-3	Nickel	< 2	0	ug/g	2	1600 mg/kg	
AAB 0267	Borehole 0-030(c)-3	Nitroaniline [2-]	< 330	0	ug/kg	NA	b	
AAB 0267	Borehole 0-030(c)-3	Nitroaniline [3-]	< 330	0	ug/kg	0.33	240 mg/kg	
AAB 0267	Borehole 0-030(c)-3	Nitroaniline [4-]	< 330	0	ug/kg	0.33	240 mg/kg	
AAB 0267	Borehole 0-030(c)-3	Nitrobenzene	< 330	0	ug/kg	0.33	5.3 mg/kg	
AAB 0267	Borehole 0-030(c)-3	Nitrophenol [2-]	< 330	0	ug/kg	NA	b	
AAB 0267	Borehole 0-030(c)-3	Nitrophenol [4-]	< 330	0	ug/kg	0.33	5000 mg/kg	
AAB 0267	Borehole 0-030(c)-3	Nitrosodi-n-propylamine [N-]	< 330	0	ug/kg	0.33	0.1 mg/kg	Detection limit is greater than SAL
AAB 0267	Borehole 0-030(c)-3	Nitrosodimethylamine [N-]	< 330	0	ug/kg	0.33	0.014 mg/kg	Detection limit is greater than SAL
AAB 0267	Borehole 0-030(c)-3	Nitrosodiphenylamine [N-]	< 330	0	ug/kg	0.33	140 mg/kg	
AAB 0267	Borehole 0-030(c)-3	Pentachlorophenol	< 330	0	ug/kg	0.33	5.8 mg/kg	
AAB 0267	Borehole 0-030(c)-3	Phenanthrene	< 330	0	ug/kg	NA	b	
AAB 0267	Borehole 0-030(c)-3	Phenol	< 330	0	ug/kg	0.33	48000 mg/kg	
AAB 0267	Borehole 0-030(c)-3	Plutonium-238	0.33	0.131	pCi/g	0.33	20 pCi/g	
AAB 0267	Borehole 0-030(c)-3	Plutonium-239	0.25	0.1065	pCi/g	0.25	18 pCi/g	
AAB 0267	Borehole 0-030(c)-3	Propylbenzene	< 5	0	ug/kg	NA	b	
AAB 0267	Borehole 0-030(c)-3	Pyrene	< 330	0	ug/kg	0.33	2400 mg/kg	
AAB 0267	Borehole 0-030(c)-3	Selenium	< 0.2	0	ug/g	0.2	400 mg/kg	
AAB 0267	Borehole 0-030(c)-3	Silver	< 1	0	ug/g	1	400 mg/kg	
AAB 0267	Borehole 0-030(c)-3	Styrene	< 5	0	ug/kg	0.005	3300 mg/kg	
AAB 0267	Borehole 0-030(c)-3	Tetrachloroethane [1,1,1,2-]	< 5	0	ug/kg	0.005	270 mg/kg	
AAB 0267	Borehole 0-030(c)-3	Tetrachloroethane [1,1,2,2-]	< 5	0	ug/kg	0.005	3.9 mg/kg	
AAB 0267	Borehole 0-030(c)-3	Tetrachloroethylene	< 5	0	ug/kg	0.005	5.9 mg/kg	
AAB 0267	Borehole 0-030(c)-3	Thallium	< 0.3	0	ug/g	0.3	6.4 mg/kg	
AAB 0267	Borehole 0-030(c)-3	Toluene	< 5	0	ug/kg	0.005	910 mg/kg	
AAB 0267	Borehole 0-030(c)-3	Toxaphene	< 180	0	ug/kg	0.18	0.64 mg/kg	
AAB 0267	Borehole 0-030(c)-3	Trichloro-1,2,2-trifluoroethane [1,1,2-]	< 5	0	ug/kg	NA	b	
AAB 0267	Borehole 0-030(c)-3	Trichlorobenzene [1,2,4-]	< 330	0	ug/kg	0.33	160 mg/kg	
AAB 0267	Borehole 0-030(c)-3	Trichloroethane [1,1,1-]	< 5	0	ug/kg	0.005	1000 mg/kg	
AAB 0267	Borehole 0-030(c)-3	Trichloroethane [1,1,2-]	< 5	0	ug/kg	0.005	6.3 mg/kg	
AAB 0267	Borehole 0-030(c)-3	Trichloroethene	< 5	0	ug/kg	0.005	3.2 mg/kg	
AAB 0267	Borehole 0-030(c)-3	Trichlorofluoromethane	< 5	0	ug/kg	0.005	24000 mg/kg	
AAB 0267	Borehole 0-030(c)-3	Trichlorophenol [2,4,5-]	< 330	0	ug/kg	0.33	8000 mg/kg	
AAB 0267	Borehole 0-030(c)-3	Trichlorophenol [2,4,6-]	< 330	0	ug/kg	0.33	64 mg/kg	
AAB 0267	Borehole 0-030(c)-3	Trichloropropane [1,2,3-]	< 5	0	ug/kg	0.005	480 mg/kg	

a. Compound should be compared to background levels
b. No SAL or background established
< Analytical result is below detection limit shown to right of symbol
TI Tentatively identified compound
NA Not applicable

Sample ID	Location	Analyte	Sample Value	Analytical Uncertainty	Units	Units Converted (mg/kg or pCi/g)	Screening Action Level	Comments
AAB 0267	Borehole 0-030(c)-3	Trimethylbenzene [1,2,4-]	< 5	0	ug/kg	0.005	40 mg/kg	
AAB 0267	Borehole 0-030(c)-3	Trimethylbenzene [1,3,5-]	< 5	0	ug/kg	0.005	32 mg/kg	
AAB 0267	Borehole 0-030(c)-3	Uranium	0.398	0.0195	ug/g	0.398	a	Below Background of 3.41 mg/kg
AAB 0267	Borehole 0-030(c)-3	Vinyl chloride	< 10	0	ug/kg	0.01	0.013 mg/kg	
AAB 0267	Borehole 0-030(c)-3	Xylenes (o + m + p) [Mixed-]	< 5	0	ug/kg	0.005	160000 mg/kg	
AAB 0269	Borehole 0-030(c)-2	Acenaphthene	< 330	0	ug/kg	0.33	4800 mg/kg	
AAB 0269	Borehole 0-030(c)-2	Acenaphthylene	< 330	0	ug/kg	NA	b	
AAB 0269	Borehole 0-030(c)-2	Acetone	< 20	0	ug/kg	0.02	8000 mg/kg	
AAB 0269	Borehole 0-030(c)-2	Aldrin	< 1.8	0	ug/kg	0.0018	0.04 mg/kg	
AAB 0269	Borehole 0-030(c)-2	Americium-241	< 0.183	0	pCi/g	0.183	17 pCi/g	
AAB 0269	Borehole 0-030(c)-2	Aniline	< 330	0	ug/kg	0.33	120 mg/kg	
AAB 0269	Borehole 0-030(c)-2	Anthracene	< 330	0	ug/kg	0.33	24000 mg/kg	
AAB 0269	Borehole 0-030(c)-2	Antimony	< 0.3	0	ug/g	0.3	32 mg/kg	
AAB 0269	Borehole 0-030(c)-2	Aroclor 1016	< 34	0	ug/kg	NA	b	
AAB 0269	Borehole 0-030(c)-2	Aroclor 1221	< 69	0	ug/kg	NA	b	
AAB 0269	Borehole 0-030(c)-2	Aroclor 1232	< 34	0	ug/kg	NA	b	
AAB 0269	Borehole 0-030(c)-2	Aroclor 1242	< 0.2509	0	ug/g	NA	b	
AAB 0269	Borehole 0-030(c)-2	Aroclor 1242	< 34	0	ug/kg	NA	b	
AAB 0269	Borehole 0-030(c)-2	Aroclor 1248	< 34	0	ug/kg	NA	b	
AAB 0269	Borehole 0-030(c)-2	Aroclor 1254	< 0.2509	0	ug/g	NA	b	
AAB 0269	Borehole 0-030(c)-2	Aroclor 1254	< 34	0	ug/kg	NA	b	
AAB 0269	Borehole 0-030(c)-2	Aroclor 1260	< 0.2509	0	ug/g	NA	b	
AAB 0269	Borehole 0-030(c)-2	Aroclor 1260	< 34	0	ug/kg	NA	b	
AAB 0269	Borehole 0-030(c)-2	Aroclor [Mixed-]	< 0.2509	0	ug/g	0.2509	0.09 mg/kg	Detection limit is greater than SAL
AAB 0269	Borehole 0-030(c)-2	Aroclor [Mixed-]	< 0.2509	0	ug/g	0.2509	0.09 mg/kg	
AAB 0269	Borehole 0-030(c)-2	Arsenic	0.6	0.2	ug/g	0.6	a	Below Background of 5.04 mg/kg
AAB 0269	Borehole 0-030(c)-2	Azobenzene	< 330	0	ug/kg	0.33	6.4 mg/kg	
AAB 0269	Borehole 0-030(c)-2	Barium	12	1	ug/g	12	5600 mg/kg	
AAB 0269	Borehole 0-030(c)-2	Benzene	< 5	0	ug/kg	0.005	0.67 mg/kg	
AAB 0269	Borehole 0-030(c)-2	Benzidine [m-]	< 330	0	ug/kg	0.33	0.003 mg/kg	Detection limit is greater than SAL
AAB 0269	Borehole 0-030(c)-2	Benzoic acid	< 330	0	ug/kg	0.33	320000 mg/kg	
AAB 0269	Borehole 0-030(c)-2	Benzo[a]anthracene	< 330	0	ug/kg	0.33	1 mg/kg	
AAB 0269	Borehole 0-030(c)-2	Benzo[a]pyrene	< 330	0	ug/kg	0.33	0.1 mg/kg	Detection limit is greater than SAL
AAB 0269	Borehole 0-030(c)-2	Benzo[b]fluoranthene	< 330	0	ug/kg	0.33	1 mg/kg	
AAB 0269	Borehole 0-030(c)-2	Benzo[g,h,i]perylene	< 330	0	ug/kg	NA	b	
AAB 0269	Borehole 0-030(c)-2	Benzo[k]fluoranthene	< 330	0	ug/kg	0.33	1 mg/kg	
AAB 0269	Borehole 0-030(c)-2	Benzyl alcohol	< 330	0	ug/kg	0.33	24000 mg/kg	
AAB 0269	Borehole 0-030(c)-2	Beryllium	0.33	0.06	ug/g	0.33	a	Below Background of 2.37 mg/kg
AAB 0269	Borehole 0-030(c)-2	BHC [alpha-]	< 1.8	0	ug/kg	0.0018	0.1 mg/kg	
AAB 0269	Borehole 0-030(c)-2	BHC [beta-]	< 1.8	0	ug/kg	0.0018	4 mg/kg	
AAB 0269	Borehole 0-030(c)-2	BHC [delta-]	< 1.8	0	ug/kg	NA	b	
AAB 0269	Borehole 0-030(c)-2	Bis(2-chloroethoxy)methane	< 330	0	ug/kg	NA	b	
AAB 0269	Borehole 0-030(c)-2	Bis(2-chloroethyl)ether	< 330	0	ug/kg	0.33	0.12 mg/kg	Detection limit is greater than SAL
AAB 0269	Borehole 0-030(c)-2	Bis(2-chloroisopropyl)ether	< 330	0	ug/kg	0.33	100 mg/kg	
AAB 0269	Borehole 0-030(c)-2	Bis(2-ethylhexyl)phthalate	< 330	0	ug/kg	0.33	50 mg/kg	
AAB 0269	Borehole 0-030(c)-2	Bromobenzene	< 5	0	ug/kg	NA	b	
AAB 0269	Borehole 0-030(c)-2	Bromochloromethane	< 5	0	ug/kg	NA	b	
AAB 0269	Borehole 0-030(c)-2	Bromodichloromethane	< 5	0	ug/kg	0.005	11 mg/kg	
AAB 0269	Borehole 0-030(c)-2	Bromoform	< 5	0	ug/kg	0.005	89 mg/kg	
AAB 0269	Borehole 0-030(c)-2	Bromomethane	< 10	0	ug/kg	0.01	0.43 mg/kg	
AAB 0269	Borehole 0-030(c)-2	Bromophenylphenyl ether [4-]	< 330	0	ug/kg	NA	b	
AAB 0269	Borehole 0-030(c)-2	Butanone [2-]	< 20	0	ug/kg	0.02	4000 mg/kg	

a. Compound should be compared to background levels
b. No SAL or background established
< Analytical result is below detection limit shown to right of symbol
TI Tentatively identified compound
NA Not applicable

Sample ID	Location	Analyte	Sample Value	Analytical Uncertainty	Units	Units Converted (mg/kg or pCi/g)	Screening Action Level	Comments
AAB 0269	Borehole 0-030(c)-2	Butyl benzyl phthalate	< 330	0	ug/kg	0.33	16000 mg/kg	
AAB 0269	Borehole 0-030(c)-2	Butylbenzene [n-]	< 5	0	ug/kg	NA	b	
AAB 0269	Borehole 0-030(c)-2	Butylbenzene [sec-]	< 5	0	ug/kg	NA	b	
AAB 0269	Borehole 0-030(c)-2	Butylbenzene [tert-]	< 5	0	ug/kg	NA	b	
AAB 0269	Borehole 0-030(c)-2	Cadmium	< 0.4	0	ug/g	0.4	80 mg/kg	
AAB 0269	Borehole 0-030(c)-2	Carbon disulfide	< 5	0	ug/kg	0.005	7.4 mg/kg	
AAB 0269	Borehole 0-030(c)-2	Carbon tetrachloride	< 5	0	ug/kg	0.005	0.21 mg/kg	
AAB 0269	Borehole 0-030(c)-2	Chlordane [alpha-]	< 1.8	0	ug/kg	NA	b	
AAB 0269	Borehole 0-030(c)-2	Chlordane [gamma-]	< 1.8	0	ug/kg	NA	b	
AAB 0269	Borehole 0-030(c)-2	Chloro-3-methylphenol [4-]	< 330	0	ug/kg	0.33	16000 mg/kg	
AAB 0269	Borehole 0-030(c)-2	Chloroaniline [4-]	< 330	0	ug/kg	0.33	320 mg/kg	
AAB 0269	Borehole 0-030(c)-2	Chlorobenzene	< 5	0	ug/kg	0.005	67 mg/kg	
AAB 0269	Borehole 0-030(c)-2	Chlorodibromomethane	< 5	0	ug/kg	0.005	83 mg/kg	
AAB 0269	Borehole 0-030(c)-2	Chloroethane	< 10	0	ug/kg	0.01	2900 mg/kg	
AAB 0269	Borehole 0-030(c)-2	Chloroform	< 5	0	ug/kg	0.005	0.21 mg/kg	
AAB 0269	Borehole 0-030(c)-2	Chloromethane	< 10	0	ug/kg	0.01	6.4 mg/kg	
AAB 0269	Borehole 0-030(c)-2	Chloronaphthalene [2-]	< 330	0	ug/kg	0.33	6400 mg/kg	
AAB 0269	Borehole 0-030(c)-2	Chlorophenol [o-]	< 330	0	ug/kg	0.33	400 mg/kg	
AAB 0269	Borehole 0-030(c)-2	Chlorophenylphenyl ether [4-]	< 330	0	ug/kg	NA	b	
AAB 0269	Borehole 0-030(c)-2	Chlorotoluene [o-]	< 5	0	ug/kg	0.005	1600 mg/kg	
AAB 0269	Borehole 0-030(c)-2	Chlorotoluene [p-]	< 5	0	ug/kg	NA	b	
AAB 0269	Borehole 0-030(c)-2	Chromium	2.6	1.4	ug/g	2.6	a	Below Background of 34.74 mg/kg
AAB 0269	Borehole 0-030(c)-2	Chrysene	< 330	0	ug/kg	0.33	96 mg/kg	
AAB 0269	Borehole 0-030(c)-2	DDD [p,p'-]	< 3.4	0	ug/kg	0.0034	2.9 mg/kg	
AAB 0269	Borehole 0-030(c)-2	DDE [p,p'-]	< 3.4	0	ug/kg	0.0034	2.1 mg/kg	
AAB 0269	Borehole 0-030(c)-2	DDT [p,p'-]	< 3.4	0	ug/kg	0.0034	2.1 mg/kg	
AAB 0269	Borehole 0-030(c)-2	Di-n-butyl phthalate	< 330	0	ug/kg	0.33	8000 mg/kg	
AAB 0269	Borehole 0-030(c)-2	Di-n-octyl phthalate	< 330	0	ug/kg	0.33	1600 mg/kg	
AAB 0269	Borehole 0-030(c)-2	Dibenzofuran	< 330	0	ug/kg	NA	b	
AAB 0269	Borehole 0-030(c)-2	Dibenzo[a,h]anthracene	< 330	0	ug/kg	0.33	0.1 mg/kg	Detection limit is greater than SAL
AAB 0269	Borehole 0-030(c)-2	Dibenzo[a,h]anthracene	< 330	0	ug/kg	0.33	0.1 mg/kg	
AAB 0269	Borehole 0-030(c)-2	Dibromo-3-chloropropane [1,2-]	< 10	0	ug/kg	0.01	0.5 mg/kg	
AAB 0269	Borehole 0-030(c)-2	Dibromoethane [1,2-]	< 5	0	ug/kg	NA	b	
AAB 0269	Borehole 0-030(c)-2	Dibromomethane	< 5	0	ug/kg	0.005	0.0082 mg/kg	
AAB 0269	Borehole 0-030(c)-2	Dichlorobenzene (1,2) [o-]	< 5	0	ug/kg	0.005	1600 mg/kg	
AAB 0269	Borehole 0-030(c)-2	Dichlorobenzene (1,3) [m-]	< 5	0	ug/kg	0.005	7200 mg/kg	
AAB 0269	Borehole 0-030(c)-2	Dichlorobenzene (1,4) [p-]	< 5	0	ug/kg	0.005	29 mg/kg	
AAB 0269	Borehole 0-030(c)-2	Dichlorobenzidine [3,3'-]	< 330	0	ug/kg	0.33	1.6 mg/kg	
AAB 0269	Borehole 0-030(c)-2	Dichlorodifluoromethane	< 10	0	ug/kg	0.01	16000 mg/kg	
AAB 0269	Borehole 0-030(c)-2	Dichloroethane [1,1-]	< 5	0	ug/kg	0.005	410 mg/kg	
AAB 0269	Borehole 0-030(c)-2	Dichloroethane [1,2-]	< 5	0	ug/kg	0.005	0.2 mg/kg	
AAB 0269	Borehole 0-030(c)-2	Dichloroethene [1,1-]	< 5	0	ug/kg	0.005	0.4 mg/kg	
AAB 0269	Borehole 0-030(c)-2	Dichloroethene [trans-1,2-]	< 5	0	ug/kg	0.005	1600 mg/kg	
AAB 0269	Borehole 0-030(c)-2	Dichloroethylene [cis-1,2-]	< 5	0	ug/kg	0.005	800 mg/kg	
AAB 0269	Borehole 0-030(c)-2	Dichlorophenol [2,4-]	< 330	0	ug/kg	0.33	240 mg/kg	
AAB 0269	Borehole 0-030(c)-2	Dichloropropane [1,2-]	< 5	0	ug/kg	0.005	6.5 mg/kg	
AAB 0269	Borehole 0-030(c)-2	Dichloropropane [1,3-]	< 5	0	ug/kg	NA	b	
AAB 0269	Borehole 0-030(c)-2	Dichloropropane [2,2-]	< 5	0	ug/kg	NA	b	
AAB 0269	Borehole 0-030(c)-2	Dichloropropene [1,1-]	< 5	0	ug/kg	NA	b	
AAB 0269	Borehole 0-030(c)-2	Dichloropropene [cis-1,3-]	< 5	0	ug/kg	0.005	0.17 mg/kg	
AAB 0269	Borehole 0-030(c)-2	Dichloropropene [trans-1,3-]	< 5	0	ug/kg	0.005	0.17 mg/kg	
AAB 0269	Borehole 0-030(c)-2	Dieldrin	< 3.4	0	ug/kg	0.0034	0.044 mg/kg	

a. Compound should be compared to background levels
b. No SAL or background established
< Analytical result is below detection limit shown to right of symbol
TI Tentatively identified compound
NA Not applicable

Sample ID	Location	Analyte	Sample Value	Analytical Uncertainty	Units	Units Converted (mg/kg or pCi/g)	Screening Action Level	Comments
AAB 0269	Borehole 0-030(c)-2	Diethyl phthalate	< 330	0	ug/kg	0.33	64000 mg/kg	
AAB 0269	Borehole 0-030(c)-2	Dimethyl phthalate	< 330	0	ug/kg	0.33	800000 mg/kg	
AAB 0269	Borehole 0-030(c)-2	Dimethylphenol [2,4-]	< 330	0	ug/kg	0.33	1600 mg/kg	
AAB 0269	Borehole 0-030(c)-2	Dinitrophenol [2,4-]	< 330	0	ug/kg	0.33	160 mg/kg	
AAB 0269	Borehole 0-030(c)-2	Dinitrotoluene [2,4-]	< 330	0	ug/kg	0.33	1 mg/kg	
AAB 0269	Borehole 0-030(c)-2	Dinitrotoluene [2,6-]	< 330	0	ug/kg	0.33	1 mg/kg	
AAB 0269	Borehole 0-030(c)-2	Endosulfan I	< 1.8	0	ug/kg	NA	b	
AAB 0269	Borehole 0-030(c)-2	Endosulfan II	< 3.4	0	ug/kg	NA	b	
AAB 0269	Borehole 0-030(c)-2	Endosulfan sulfate	< 3.4	0	ug/kg	0.0034	4 mg/kg	
AAB 0269	Borehole 0-030(c)-2	Endrin	< 3.4	0	ug/kg	0.0034	24 mg/kg	
AAB 0269	Borehole 0-030(c)-2	Endrin aldehyde	< 3.4	0	ug/kg	NA	b	
AAB 0269	Borehole 0-030(c)-2	Endrin ketone	< 3.4	0	ug/kg	NA	b	
AAB 0269	Borehole 0-030(c)-2	Ethylbenzene	< 5	0	ug/kg	0.005	3100 mg/kg	
AAB 0269	Borehole 0-030(c)-2	Fluoranthene	< 330	0	ug/kg	0.33	3200 mg/kg	
AAB 0269	Borehole 0-030(c)-2	Fluorene	< 330	0	ug/kg	0.33	3200 mg/kg	
AAB 0269	Borehole 0-030(c)-2	Heptachlor	< 1.8	0	ug/kg	0.0018	0.16 mg/kg	
AAB 0269	Borehole 0-030(c)-2	Heptachlor epoxide	< 1.8	0	ug/kg	0.0018	0.077 mg/kg	
AAB 0269	Borehole 0-030(c)-2	Hexachlorobenzene	< 330	0	ug/kg	0.33	0.44 mg/kg	
AAB 0269	Borehole 0-030(c)-2	Hexachlorobutadiene	< 330	0	ug/kg	0.33	90 mg/kg	
AAB 0269	Borehole 0-030(c)-2	Hexachlorocyclopentadiene	< 330	0	ug/kg	0.33	560 mg/kg	
AAB 0269	Borehole 0-030(c)-2	Hexachloroethane	< 330	0	ug/kg	0.33	80 mg/kg	
AAB 0269	Borehole 0-030(c)-2	Hexanone [2-]	< 20	0	ug/kg	NA	b	
AAB 0269	Borehole 0-030(c)-2	Indeno[1,2,3-cd]pyrene	< 330	0	ug/kg	0.33	1 mg/kg	
AAB 0269	Borehole 0-030(c)-2	Isophorone	< 330	0	ug/kg	0.33	7400 mg/kg	
AAB 0269	Borehole 0-030(c)-2	Isopropylbenzene	< 5	0	ug/kg	0.005	3200 mg/kg	
AAB 0269	Borehole 0-030(c)-2	Isopropyltoluene [4-]	< 5	0	ug/kg	NA	b	
AAB 0269	Borehole 0-030(c)-2	Lead	3.3	1.9	ug/g	3.3	400 mg/kg	
AAB 0269	Borehole 0-030(c)-2	Lindane	< 1.8	0	ug/kg	0.0018	0.54 mg/kg	
AAB 0269	Borehole 0-030(c)-2	Mercury	< 0.1	0	ug/g	0.1	24 mg/kg	
AAB 0269	Borehole 0-030(c)-2	Methoxychlor	< 18	0	ug/kg	0.018	400 mg/kg	
AAB 0269	Borehole 0-030(c)-2	Methyl iodide	< 5	0	ug/kg	NA	b	
AAB 0269	Borehole 0-030(c)-2	Methyl-2-pentanone [4-]	< 20	0	ug/kg	0.02	510 mg/kg	
AAB 0269	Borehole 0-030(c)-2	Methyl-4,6-dinitrophenol [2-]	< 330	0	ug/kg	NA	b	
AAB 0269	Borehole 0-030(c)-2	Methylene chloride	< 5	0	ug/kg	0.005	5.6 mg/kg	
AAB 0269	Borehole 0-030(c)-2	Methylnaphthalene [2-]	< 330	0	ug/kg	NA	b	
AAB 0269	Borehole 0-030(c)-2	Methylphenol [2-]	< 330	0	ug/kg	0.33	4000 mg/kg	
AAB 0269	Borehole 0-030(c)-2	Methylphenol [4-]	< 330	0	ug/kg	0.33	400 mg/kg	
AAB 0269	Borehole 0-030(c)-2	Naphthalene	< 330	0	ug/kg	0.33	3200 mg/kg	
AAB 0269	Borehole 0-030(c)-2	Nickel	2.6	0.7	ug/g	2.6	1600 mg/kg	
AAB 0269	Borehole 0-030(c)-2	Nitroaniline [2-]	< 330	0	ug/kg	NA	b	
AAB 0269	Borehole 0-030(c)-2	Nitroaniline [3-]	< 330	0	ug/kg	0.33	240 mg/kg	
AAB 0269	Borehole 0-030(c)-2	Nitroaniline [4-]	< 330	0	ug/kg	0.33	240 mg/kg	
AAB 0269	Borehole 0-030(c)-2	Nitrobenzene	< 330	0	ug/kg	0.33	5.3 mg/kg	
AAB 0269	Borehole 0-030(c)-2	Nitrophenol [2-]	< 330	0	ug/kg	NA	b	
AAB 0269	Borehole 0-030(c)-2	Nitrophenol [4-]	< 330	0	ug/kg	0.33	5000 mg/kg	
AAB 0269	Borehole 0-030(c)-2	Nitrosodi-n-propylamine [N-]	< 330	0	ug/kg	0.33	0.1 mg/kg	Detection limit is greater than SAL
AAB 0269	Borehole 0-030(c)-2	Nitrosodimethylamine [N-]	< 330	0	ug/kg	0.33	0.014 mg/kg	Detection limit is greater than SAL
AAB 0269	Borehole 0-030(c)-2	Nitrosodiphenylamine [N-]	< 330	0	ug/kg	0.33	140 mg/kg	
AAB 0269	Borehole 0-030(c)-2	Pentachlorophenol	< 330	0	ug/kg	0.33	5.8 mg/kg	
AAB 0269	Borehole 0-030(c)-2	Phenanthrene	< 330	0	ug/kg	NA	b	
AAB 0269	Borehole 0-030(c)-2	Phenol	< 330	0	ug/kg	0.33	48000 mg/kg	
AAB 0269	Borehole 0-030(c)-2	Plutonium-238	- 0.0688	0.1375	pCi/g	0.0688	20 pCi/g	

a. Compound should be compared to background levels
b. No SAL or background established
< Analytical result is below detection limit shown to right of symbol
TI Tentatively identified compound
NA Not applicable

Sample ID	Location	Analyte	Sample Value	Analytical Uncertainty	Units	Units Converted (mg/kg or pCi/g)	Screening Action Level	Comments
AAB 0269	Borehole 0-030(c)-2	Plutonium-239	0.158	0.089	pCi/g	0.158	18 pCi/g	
AAB 0269	Borehole 0-030(c)-2	Propylbenzene	< 5	0	ug/kg	NA	b	
AAB 0269	Borehole 0-030(c)-2	Pyrene	< 330	0	ug/kg	0.33	2400 mg/kg	
AAB 0269	Borehole 0-030(c)-2	Selenium	< 0.2	0	ug/g	0.2	400 mg/kg	
AAB 0269	Borehole 0-030(c)-2	Silver	< 1	0	ug/g	1	400 mg/kg	
AAB 0269	Borehole 0-030(c)-2	Styrene	< 5	0	ug/kg	0.005	3300 mg/kg	
AAB 0269	Borehole 0-030(c)-2	Tetrachloroethane [1,1,1,2-]	< 5	0	ug/kg	0.005	270 mg/kg	
AAB 0269	Borehole 0-030(c)-2	Tetrachloroethane [1,1,2,2-]	< 5	0	ug/kg	0.005	3.9 mg/kg	
AAB 0269	Borehole 0-030(c)-2	Tetrachloroethylene	< 5	0	ug/kg	0.005	5.9 mg/kg	
AAB 0269	Borehole 0-030(c)-2	Thallium	< 0.3	0	ug/g	0.3	6.4 mg/kg	
AAB 0269	Borehole 0-030(c)-2	Toluene	< 5	0	ug/kg	0.005	910 mg/kg	
AAB 0269	Borehole 0-030(c)-2	Toxaphene	< 180	0	ug/kg	0.18	0.64 mg/kg	
AAB 0269	Borehole 0-030(c)-2	Trichloro-1,2,2-trifluoroethane [1,1,2-]	< 5	0	ug/kg	NA	b	
AAB 0269	Borehole 0-030(c)-2	Trichlorobenzene [1,2,4-]	< 330	0	ug/kg	0.33	160 mg/kg	
AAB 0269	Borehole 0-030(c)-2	Trichloroethane [1,1,1-]	< 5	0	ug/kg	0.005	1000 mg/kg	
AAB 0269	Borehole 0-030(c)-2	Trichloroethane [1,1,2-]	< 5	0	ug/kg	0.005	6.3 mg/kg	
AAB 0269	Borehole 0-030(c)-2	Trichloroethene	< 5	0	ug/kg	0.005	3.2 mg/kg	
AAB 0269	Borehole 0-030(c)-2	Trichlorofluoromethane	< 5	0	ug/kg	0.005	24000 mg/kg	
AAB 0269	Borehole 0-030(c)-2	Trichlorophenol [2,4,5-]	< 330	0	ug/kg	0.33	8000 mg/kg	
AAB 0269	Borehole 0-030(c)-2	Trichlorophenol [2,4,6-]	< 330	0	ug/kg	0.33	64 mg/kg	
AAB 0269	Borehole 0-030(c)-2	Trichloropropane [1,2,3-]	< 5	0	ug/kg	0.005	480 mg/kg	
AAB 0269	Borehole 0-030(c)-2	Trimethylbenzene [1,2,4-]	< 5	0	ug/kg	0.005	40 mg/kg	
AAB 0269	Borehole 0-030(c)-2	Trimethylbenzene [1,3,5-]	< 5	0	ug/kg	0.005	32 mg/kg	
AAB 0269	Borehole 0-030(c)-2	Uranium	0.558	0.0274	ug/g	0.558	a	Below Background of 3.41 mg/kg
AAB 0269	Borehole 0-030(c)-2	Vinyl chloride	< 10	0	ug/kg	0.01	0.013 mg/kg	
AAB 0269	Borehole 0-030(c)-2	Xylenes (o + m + p) [Mixed-]	< 5	0	ug/kg	0.005	160000 mg/kg	
AAB 0276	H-28D, 4.0-4.5 ft., Dup. of AAB 0277	Acenaphthene	< 330	0	ug/kg	0.33	4800 mg/kg	
AAB 0276	H-28D, 4.0-4.5 ft., Dup. of AAB 0277	Acenaphthylene	< 330	0	ug/kg	NA	b	
AAB 0276	H-28D, 4.0-4.5 ft., Dup. of AAB 0277	Acetone	140	42	ug/kg	0.14	8000 mg/kg	
AAB 0276	H-28D, 4.0-4.5 ft., Dup. of AAB 0277	Acetone	140	42	ug/kg	0.14	8000 mg/kg	
AAB 0276	H-28D, 4.0-4.5 ft., Dup. of AAB 0277	Aldrin	< 1.85	0	ug/kg	0.00185	0.04 mg/kg	
AAB 0276	H-28D, 4.0-4.5 ft., Dup. of AAB 0277	Americium-241	0.039	0.0045	pCi/g	0.039	17 pCi/g	
AAB 0276	H-28D, 4.0-4.5 ft., Dup. of AAB 0277	Americium-241	0.039	0.0045	pCi/g	0.039	17 pCi/g	
AAB 0276	H-28D, 4.0-4.5 ft., Dup. of AAB 0277	Aniline	< 330	0	ug/kg	0.33	120 mg/kg	
AAB 0276	H-28D, 4.0-4.5 ft., Dup. of AAB 0277	Anthracene	< 330	0	ug/kg	0.33	24000 mg/kg	
AAB 0276	H-28D, 4.0-4.5 ft., Dup. of AAB 0277	Antimony	< 0.1	0	ug/g	0.1	32 mg/kg	
AAB 0276	H-28D, 4.0-4.5 ft., Dup. of AAB 0277	Aroclor 1016	< 35.9	0	ug/kg	NA	b	
AAB 0276	H-28D, 4.0-4.5 ft., Dup. of AAB 0277	Aroclor 1221	< 73	0	ug/kg	NA	b	
AAB 0276	H-28D, 4.0-4.5 ft., Dup. of AAB 0277	Aroclor 1232	< 35.9	0	ug/kg	NA	b	
AAB 0276	H-28D, 4.0-4.5 ft., Dup. of AAB 0277	Aroclor 1242	< 0.2682	0	ug/g	NA	b	
AAB 0276	H-28D, 4.0-4.5 ft., Dup. of AAB 0277	Aroclor 1242	< 35.9	0	ug/kg	NA	b	
AAB 0276	H-28D, 4.0-4.5 ft., Dup. of AAB 0277	Aroclor 1248	< 35.9	0	ug/kg	NA	b	
AAB 0276	H-28D, 4.0-4.5 ft., Dup. of AAB 0277	Aroclor 1254	< 0.2682	0	ug/g	NA	b	
AAB 0276	H-28D, 4.0-4.5 ft., Dup. of AAB 0277	Aroclor 1254	< 35.9	0	ug/kg	NA	b	
AAB 0276	H-28D, 4.0-4.5 ft., Dup. of AAB 0277	Aroclor 1260	< 0.2682	0	ug/g	NA	b	
AAB 0276	H-28D, 4.0-4.5 ft., Dup. of AAB 0277	Aroclor 1260	< 35.9	0	ug/kg	NA	b	
AAB 0276	H-28D, 4.0-4.5 ft., Dup. of AAB 0277	Aroclor [Mixed-]	< 0.2682	0	ug/g	0.2682	0.09 mg/kg	Detection limit is greater than SAL
AAB 0276	H-28D, 4.0-4.5 ft., Dup. of AAB 0277	Aroclor [Mixed-]	< 0.2682	0	ug/g	0.2682	0.09 mg/kg	
AAB 0276	H-28D, 4.0-4.5 ft., Dup. of AAB 0277	Arsenic	1.8	0.4	ug/g	1.8	a	Below Background of 5.04 mg/kg
AAB 0276	H-28D, 4.0-4.5 ft., Dup. of AAB 0277	Azobenzene	< 330	0	ug/kg	0.33	6.4 mg/kg	
AAB 0276	H-28D, 4.0-4.5 ft., Dup. of AAB 0277	Barium	100	10	ug/g	100	5600 mg/kg	
AAB 0276	H-28D, 4.0-4.5 ft., Dup. of AAB 0277	Benzene	< 5	0	ug/kg	0.005	0.67 mg/kg	

a Compound should be compared to background levels
b No SAL or background established
< Analytical result is below detection limit shown to right of symbol
TI Tentatively identified compound
NA Not applicable

Sample ID	Location	Analyte	Sample Value	Analytical Uncertainty	Units	Units Converted (mg/kg or pCi/g)	Screening Action Level	Comments
AAB 0276	H-28D, 4.0-4.5 ft., Dup. of AAB 0277	Benzidine [m-]	< 330	0	ug/kg	0.33	0.003 mg/kg	Detection limit is greater than SAL
AAB 0276	H-28D, 4.0-4.5 ft., Dup. of AAB 0277	Benzoic acid	< 330	0	ug/kg	0.33	320000 mg/kg	
AAB 0276	H-28D, 4.0-4.5 ft., Dup. of AAB 0277	Benzo[a]anthracene	< 330	0	ug/kg	0.33	1 mg/kg	
AAB 0276	H-28D, 4.0-4.5 ft., Dup. of AAB 0277	Benzo[a]pyrene	< 330	0	ug/kg	0.33	0.1 mg/kg	Detection limit is greater than SAL
AAB 0276	H-28D, 4.0-4.5 ft., Dup. of AAB 0277	Benzo[b]fluoranthene	< 330	0	ug/kg	0.33	1 mg/kg	
AAB 0276	H-28D, 4.0-4.5 ft., Dup. of AAB 0277	Benzo[g,h,i]perylene	< 330	0	ug/kg	NA	b	
AAB 0276	H-28D, 4.0-4.5 ft., Dup. of AAB 0277	Benzo[k]fluoranthene	< 330	0	ug/kg	0.33	1 mg/kg	
AAB 0276	H-28D, 4.0-4.5 ft., Dup. of AAB 0277	Benzyl alcohol	< 330	0	ug/kg	0.33	24000 mg/kg	
AAB 0276	H-28D, 4.0-4.5 ft., Dup. of AAB 0277	Beryllium	0.6	0.06	ug/g	0.6	a	Below Background of 2.37 mg/kg
AAB 0276	H-28D, 4.0-4.5 ft., Dup. of AAB 0277	BHC [alpha-]	< 1.85	0	ug/kg	0.00185	0.1 mg/kg	
AAB 0276	H-28D, 4.0-4.5 ft., Dup. of AAB 0277	BHC [beta-]	< 1.85	0	ug/kg	0.00185	4 mg/kg	
AAB 0276	H-28D, 4.0-4.5 ft., Dup. of AAB 0277	BHC [delta-]	< 1.85	0	ug/kg	NA	b	
AAB 0276	H-28D, 4.0-4.5 ft., Dup. of AAB 0277	Bis(2-chloroethoxy)methane	< 330	0	ug/kg	NA	b	
AAB 0276	H-28D, 4.0-4.5 ft., Dup. of AAB 0277	Bis(2-chloroethyl)ether	< 330	0	ug/kg	0.33	0.12 mg/kg	Detection limit is greater than SAL
AAB 0276	H-28D, 4.0-4.5 ft., Dup. of AAB 0277	Bis(2-chloroethyl)ether	< 330	0	ug/kg	0.33	0.12 mg/kg	
[illegible]0276	H-28D, 4.0-4.5 ft., Dup. of AAB 0277	Bis(2-chloroisopropyl)ether	< 330	0	ug/kg	0.33	100 mg/kg	
[illegible]0276	H-28D, 4.0-4.5 ft., Dup. of AAB 0277	Bis(2-ethylhexyl)phthalate	< 330	0	ug/kg	0.33	50 mg/kg	
AAB 0276	H-28D, 4.0-4.5 ft., Dup. of AAB 0277	Bromobenzene	< 5	0	ug/kg	NA	b	
AAB 0276	H-28D, 4.0-4.5 ft., Dup. of AAB 0277	Bromochloromethane	< 5	0	ug/kg	NA	b	
AAB 0276	H-28D, 4.0-4.5 ft., Dup. of AAB 0277	Bromodichloromethane	< 5	0	ug/kg	0.005	11 mg/kg	
AAB 0276	H-28D, 4.0-4.5 ft., Dup. of AAB 0277	Bromoform	< 5	0	ug/kg	0.005	89 mg/kg	
AAB 0276	H-28D, 4.0-4.5 ft., Dup. of AAB 0277	Bromomethane	< 10	0	ug/kg	0.01	0.43 mg/kg	
AAB 0276	H-28D, 4.0-4.5 ft., Dup. of AAB 0277	Bromophenylphenyl ether [4-]	< 330	0	ug/kg	NA	b	
AAB 0276	H-28D, 4.0-4.5 ft., Dup. of AAB 0277	Butanone [2-]	< 46	0	ug/kg	0.046	4000 mg/kg	
AAB 0276	H-28D, 4.0-4.5 ft., Dup. of AAB 0277	Butyl benzyl phthalate	< 330	0	ug/kg	0.33	16000 mg/kg	
AAB 0276	H-28D, 4.0-4.5 ft., Dup. of AAB 0277	Butylbenzene [n-]	< 5	0	ug/kg	NA	b	
AAB 0276	H-28D, 4.0-4.5 ft., Dup. of AAB 0277	Butylbenzene [sec-]	< 5	0	ug/kg	NA	b	
AAB 0276	H-28D, 4.0-4.5 ft., Dup. of AAB 0277	Butylbenzene [tert-]	< 5	0	ug/kg	NA	b	
AAB 0276	H-28D, 4.0-4.5 ft., Dup. of AAB 0277	Cadmium	< 0.4	0	ug/g	0.4	80 mg/kg	
AAB 0276	H-28D, 4.0-4.5 ft., Dup. of AAB 0277	Carbon disulfide	< 5	0	ug/kg	0.005	7.4 mg/kg	
AAB 0276	H-28D, 4.0-4.5 ft., Dup. of AAB 0277	Carbon tetrachloride	< 5	0	ug/kg	0.005	0.21 mg/kg	
AAB 0276	H-28D, 4.0-4.5 ft., Dup. of AAB 0277	Chlordane [alpha-]	< 1.85	0	ug/kg	NA	b	
AAB 0276	H-28D, 4.0-4.5 ft., Dup. of AAB 0277	Chlordane [gamma-]	< 1.85	0	ug/kg	NA	b	
AAB 0276	H-28D, 4.0-4.5 ft., Dup. of AAB 0277	Chloro-3-methylphenol [4-]	< 330	0	ug/kg	0.33	16000 mg/kg	
AAB 0276	H-28D, 4.0-4.5 ft., Dup. of AAB 0277	Chloroaniline [4-]	< 330	0	ug/kg	0.33	320 mg/kg	
AAB 0276	H-28D, 4.0-4.5 ft., Dup. of AAB 0277	Chlorobenzene	< 5	0	ug/kg	0.005	67 mg/kg	
AAB 0276	H-28D, 4.0-4.5 ft., Dup. of AAB 0277	Chlorodibromomethane	< 5	0	ug/kg	0.005	83 mg/kg	
[illegible]0276	H-28D, 4.0-4.5 ft., Dup. of AAB 0277	Chloroethane	< 10	0	ug/kg	0.01	2900 mg/kg	
[illegible]0276	H-28D, 4.0-4.5 ft., Dup. of AAB 0277	Chloroform	< 5	0	ug/kg	0.005	0.21 mg/kg	
AAB 0276	H-28D, 4.0-4.5 ft., Dup. of AAB 0277	Chloromethane	< 10	0	ug/kg	0.01	6.4 mg/kg	
AAB 0276	H-28D, 4.0-4.5 ft., Dup. of AAB 0277	Chloronaphthalene [2-]	< 330	0	ug/kg	0.33	6400 mg/kg	
AAB 0276	H-28D, 4.0-4.5 ft., Dup. of AAB 0277	Chlorophenol [o-]	< 330	0	ug/kg	0.33	400 mg/kg	
AAB 0276	H-28D, 4.0-4.5 ft., Dup. of AAB 0277	Chlorophenylphenyl ether [4-]	< 330	0	ug/kg	NA	b	
AAB 0276	H-28D, 4.0-4.5 ft., Dup. of AAB 0277	Chlorotoluene [o-]	< 5	0	ug/kg	0.005	1600 mg/kg	
AAB 0276	H-28D, 4.0-4.5 ft., Dup. of AAB 0277	Chlorotoluene [p-]	< 5	0	ug/kg	NA	b	
AAB 0276	H-28D, 4.0-4.5 ft., Dup. of AAB 0277	Chromium	7	0.7	ug/g	7	a	Below Background of 34.74 mg/kg
AAB 0276	H-28D, 4.0-4.5 ft., Dup. of AAB 0277	Chrysene	< 330	0	ug/kg	0.33	96 mg/kg	
AAB 0276	H-28D, 4.0-4.5 ft., Dup. of AAB 0277	DDD [p,p'-]	11	3.3	ug/kg	0.011	2.9 mg/kg	
AAB 0276	H-28D, 4.0-4.5 ft., Dup. of AAB 0277	DDE [p,p'-]	68.5	20.55	ug/kg	0.0685	2.1 mg/kg	
AAB 0276	H-28D, 4.0-4.5 ft., Dup. of AAB 0277	DDT [p,p'-]	39.1	11.73	ug/kg	0.0391	2.1 mg/kg	
AAB [illegible]	H-28D, 4.0-4.5 ft., Dup. of AAB 0277	Di-n-butyl phthalate	< 330	0	ug/kg	0.33	8000 mg/kg	
AAB [illegible]	H-28D, 4.0-4.5 ft., Dup. of AAB 0277	Di-n-octyl phthalate	< 330	0	ug/kg	0.33	1600 mg/kg	

a. Compound should be compared to background levels
b No SAL or background established
< Analytical result is below detection limit shown to right of symbol
TI Tentatively identified compound
NA Not applicable

Sample ID	Location	Analyte	Sample Value	Analytical Uncertainty	Units	Units Converted (mg/kg or pCi/g)	Screening Action Level	Comments
AAB 0276	H-28D, 4.0-4.5 ft., Dup. of AAB 0277	Dibenzofuran	< 330	0	ug/kg	NA	b	
AAB 0276	H-28D, 4.0-4.5 ft., Dup. of AAB 0277	Dibenzo[a,h]anthracene	< 330	0	ug/kg	0.33	0.1 mg/kg	Detection limit is greater than SAL
AAB 0276	H-28D, 4.0-4.5 ft., Dup. of AAB 0277	Dibromo-3-chloropropane [1,2-]	< 10	0	ug/kg	0.01	0.5 mg/kg	
AAB 0276	H-28D, 4.0-4.5 ft., Dup. of AAB 0277	Dibromoethane [1,2-]	< 5	0	ug/kg	NA	b	
AAB 0276	H-28D, 4.0-4.5 ft., Dup. of AAB 0277	Dibromomethane	< 5	0	ug/kg	0.005	0.0082 mg/kg	
AAB 0276	H-28D, 4.0-4.5 ft., Dup. of AAB 0277	Dichlorobenzene (1,2) [o-]	< 5	0	ug/kg	0.005	1600 mg/kg	
AAB 0276	H-28D, 4.0-4.5 ft., Dup. of AAB 0277	Dichlorobenzene (1,3) [m-]	< 5	0	ug/kg	0.005	7200 mg/kg	
AAB 0276	H-28D, 4.0-4.5 ft., Dup. of AAB 0277	Dichlorobenzene (1,4) [p-]	< 330	0	ug/kg	0.33	29 mg/kg	
AAB 0276	H-28D, 4.0-4.5 ft., Dup. of AAB 0277	Dichlorobenzidine [3,3'-]	< 330	0	ug/kg	0.33	1.6 mg/kg	
AAB 0276	H-28D, 4.0-4.5 ft., Dup. of AAB 0277	Dichlorodifluoromethane	< 10	0	ug/kg	0.01	16000 mg/kg	
AAB 0276	H-28D, 4.0-4.5 ft., Dup. of AAB 0277	Dichloroethane [1,1-]	< 5	0	ug/kg	0.005	410 mg/kg	
AAB 0276	H-28D, 4.0-4.5 ft., Dup. of AAB 0277	Dichloroethane [1,2-]	< 5	0	ug/kg	0.005	0.2 mg/kg	
AAB 0276	H-28D, 4.0-4.5 ft., Dup. of AAB 0277	Dichloroethene [1,1-]	< 5	0	ug/kg	0.005	0.4 mg/kg	
AAB 0276	H-28D, 4.0-4.5 ft., Dup. of AAB 0277	Dichloroethene [trans-1,2-]	< 5	0	ug/kg	0.005	1600 mg/kg	
AAB 0276	H-28D, 4.0-4.5 ft., Dup. of AAB 0277	Dichloroethylene [cis-1,2-]	< 5	0	ug/kg	0.005	800 mg/kg	
AAB 0276	H-28D, 4.0-4.5 ft., Dup. of AAB 0277	Dichlorophenol [2,4-]	< 330	0	ug/kg	0.33	240 mg/kg	
AAB 0276	H-28D, 4.0-4.5 ft., Dup. of AAB 0277	Dichloropropane [1,2-]	< 5	0	ug/kg	0.005	6.5 mg/kg	
AAB 0276	H-28D, 4.0-4.5 ft., Dup. of AAB 0277	Dichloropropane [1,3-]	< 5	0	ug/kg	NA	b	
AAB 0276	H-28D, 4.0-4.5 ft., Dup. of AAB 0277	Dichloropropane [2,2-]	< 5	0	ug/kg	NA	b	
AAB 0276	H-28D, 4.0-4.5 ft., Dup. of AAB 0277	Dichloropropene [1,1-]	< 5	0	ug/kg	NA	b	
AAB 0276	H-28D, 4.0-4.5 ft., Dup. of AAB 0277	Dichloropropene [cis-1,3-]	< 5	0	ug/kg	0.005	0.17 mg/kg	
AAB 0276	H-28D, 4.0-4.5 ft., Dup. of AAB 0277	Dichloropropene [trans-1,3-]	< 5	0	ug/kg	0.005	0.17 mg/kg	
AAB 0276	H-28D, 4.0-4.5 ft., Dup. of AAB 0277	Dieldrin	< 3.59	0	ug/kg	0.00359	0.044 mg/kg	
AAB 0276	H-28D, 4.0-4.5 ft., Dup. of AAB 0277	Diethyl phthalate	< 330	0	ug/kg	0.33	64000 mg/kg	
AAB 0276	H-28D, 4.0-4.5 ft., Dup. of AAB 0277	Dimethyl phthalate	< 330	0	ug/kg	0.33	800000 mg/kg	
AAB 0276	H-28D, 4.0-4.5 ft., Dup. of AAB 0277	Dimethylphenol [2,4-]	< 330	0	ug/kg	0.33	1600 mg/kg	
AAB 0276	H-28D, 4.0-4.5 ft., Dup. of AAB 0277	Dinitrophenol [2,4-]	< 330	0	ug/kg	0.33	160 mg/kg	
AAB 0276	H-28D, 4.0-4.5 ft., Dup. of AAB 0277	Dinitrotoluene [2,4-]	< 330	0	ug/kg	0.33	1 mg/kg	
AAB 0276	H-28D, 4.0-4.5 ft., Dup. of AAB 0277	Dinitrotoluene [2,6-]	< 330	0	ug/kg	0.33	1 mg/kg	
AAB 0276	H-28D, 4.0-4.5 ft., Dup. of AAB 0277	Endosulfan I	< 1.85	0	ug/kg	NA	b	
AAB 0276	H-28D, 4.0-4.5 ft., Dup. of AAB 0277	Endosulfan II	< 3.59	0	ug/kg	NA	b	
AAB 0276	H-28D, 4.0-4.5 ft., Dup. of AAB 0277	Endosulfan sulfate	< 3.59	0	ug/kg	0.00359	4 mg/kg	
AAB 0276	H-28D, 4.0-4.5 ft., Dup. of AAB 0277	Endrin	< 3.59	0	ug/kg	0.00359	24 mg/kg	
AAB 0276	H-28D, 4.0-4.5 ft., Dup. of AAB 0277	Endrin aldehyde	< 3.59	0	ug/kg	NA	b	
AAB 0276	H-28D, 4.0-4.5 ft., Dup. of AAB 0277	Endrin ketone	< 3.59	0	ug/kg	NA	b	
AAB 0276	H-28D, 4.0-4.5 ft., Dup. of AAB 0277	Ethylbenzene	< 5	0	ug/kg	0.005	3100 mg/kg	
AAB 0276	H-28D, 4.0-4.5 ft., Dup. of AAB 0277	Fluoranthene	< 330	0	ug/kg	0.33	3200 mg/kg	
AAB 0276	H-28D, 4.0-4.5 ft., Dup. of AAB 0277	Fluorene	< 330	0	ug/kg	0.33	3200 mg/kg	
AAB 0276	H-28D, 4.0-4.5 ft., Dup. of AAB 0277	Heptachlor	< 1.85	0	ug/kg	0.00185	0.16 mg/kg	
AAB 0276	H-28D, 4.0-4.5 ft., Dup. of AAB 0277	Heptachlor epoxide	< 1.85	0	ug/kg	0.00185	0.077 mg/kg	
AAB 0276	H-28D, 4.0-4.5 ft., Dup. of AAB 0277	Hexachlorobenzene	< 330	0	ug/kg	0.33	0.44 mg/kg	
AAB 0276	H-28D, 4.0-4.5 ft., Dup. of AAB 0277	Hexachlorobutadiene	< 330	0	ug/kg	0.33	90 mg/kg	
AAB 0276	H-28D, 4.0-4.5 ft., Dup. of AAB 0277	Hexachlorocyclopentadiene	< 330	0	ug/kg	0.33	560 mg/kg	
AAB 0276	H-28D, 4.0-4.5 ft., Dup. of AAB 0277	Hexachloroethane	< 330	0	ug/kg	0.33	80 mg/kg	
AAB 0276	H-28D, 4.0-4.5 ft., Dup. of AAB 0277	Hexanone [2-]	< 20	0	ug/kg	NA	b	
AAB 0276	H-28D, 4.0-4.5 ft., Dup. of AAB 0277	Indeno[1,2,3-cd]pyrene	< 330	0	ug/kg	0.33	1 mg/kg	
AAB 0276	H-28D, 4.0-4.5 ft., Dup. of AAB 0277	Isophorone	< 330	0	ug/kg	0.33	7400 mg/kg	
AAB 0276	H-28D, 4.0-4.5 ft., Dup. of AAB 0277	Isopropylbenzene	< 5	0	ug/kg	0.005	3200 mg/kg	
AAB 0276	H-28D, 4.0-4.5 ft., Dup. of AAB 0277	Isopropyltoluene [4-]	< 5	0	ug/kg	NA	b	
AAB 0276	H-28D, 4.0-4.5 ft., Dup. of AAB 0277	Lead	9	3	ug/g	9	400 mg/kg	
AAB 0276	H-28D, 4.0-4.5 ft., Dup. of AAB 0277	Lindane	< 1.85	0	ug/kg	0.00185	0.54 mg/kg	
AAB 0276	H-28D, 4.0-4.5 ft., Dup. of AAB 0277	Mercury	0.1	0.1	ug/g	0.1	24 mg/kg	

a Compound should be compared to background levels
b No SAL or background established
< Analytical result is below detection limit shown to right of symbol
TI Tentatively identified compound
NA Not applicable

Sample ID	Location	Analyte	Sample Value	Analytical Uncertainty	Units	Units Converted (mg/kg or pCi/g)	Screening Action Level	Comments
AAB 0276	H-28D, 4.0-4.5 ft., Dup. of AAB 0277	Mercury	< 0.1	0	ug/g	0.1	24 mg/kg	
AAB 0276	H-28D, 4.0-4.5 ft., Dup. of AAB 0277	Methoxychlor	< 18.5	0	ug/kg	0.0185	400 mg/kg	
AAB 0276	H-28D, 4.0-4.5 ft., Dup. of AAB 0277	Methyl iodide	< 5	0	ug/kg	NA	b	
AAB 0276	H-28D, 4.0-4.5 ft., Dup. of AAB 0277	Methyl-2-pentanone [4-]	< 20	0	ug/kg	0.02	510 mg/kg	
AAB 0276	H-28D, 4.0-4.5 ft., Dup. of AAB 0277	Methyl-4,6-dinitrophenol [2-]	< 330	0	ug/kg	NA	b	
AAB 0276	H-28D, 4.0-4.5 ft., Dup. of AAB 0277	Methylene chloride	< 5	0	ug/kg	0.005	5.6 mg/kg	
AAB 0276	H-28D, 4.0-4.5 ft., Dup. of AAB 0277	Methylnaphthalene [2-]	< 330	0	ug/kg	NA	b	
AAB 0276	H-28D, 4.0-4.5 ft., Dup. of AAB 0277	Methylphenol [2-]	< 330	0	ug/kg	0.33	4000 mg/kg	
AAB 0276	H-28D, 4.0-4.5 ft., Dup. of AAB 0277	Methylphenol [4-]	< 330	0	ug/kg	0.33	400 mg/kg	
AAB 0276	H-28D, 4.0-4.5 ft., Dup. of AAB 0277	Naphthalene	< 330	0	ug/kg	0.33	3200 mg/kg	
AAB 0276	H-28D, 4.0-4.5 ft., Dup. of AAB 0277	Nickel	8	2.4	ug/g	8	1600 mg/kg	
AAB 0276	H-28D, 4.0-4.5 ft., Dup. of AAB 0277	Nitroaniline [2-]	< 330	0	ug/kg	NA	b	
AAB 0276	H-28D, 4.0-4.5 ft., Dup. of AAB 0277	Nitroaniline [3-]	< 330	0	ug/kg	0.33	240 mg/kg	
AAB 0276	H-28D, 4.0-4.5 ft., Dup. of AAB 0277	Nitroaniline [4-]	< 330	0	ug/kg	0.33	240 mg/kg	
AAB 0276	H-28D, 4.0-4.5 ft., Dup. of AAB 0277	Nitrobenzene	< 330	0	ug/kg	0.33	5.3 mg/kg	
AAB 0276	H-28D, 4.0-4.5 ft., Dup. of AAB 0277	Nitrophenol [2-]	< 330	0	ug/kg	NA	b	
AAB 0276	H-28D, 4.0-4.5 ft., Dup. of AAB 0277	Nitrophenol [4-]	< 330	0	ug/kg	0.33	5000 mg/kg	
AAB 0276	H-28D, 4.0-4.5 ft., Dup. of AAB 0277	Nitrosodi-n-propylamine [N-]	< 330	0	ug/kg	0.33	0.1 mg/kg	Detection limit is greater than SAL
AAB 0276	H-28D, 4.0-4.5 ft., Dup. of AAB 0277	Nitrosodimethylamine [N-]	< 330	0	ug/kg	0.33	0.014 mg/kg	Detection limit is greater than SAL
AAB 0276	H-28D, 4.0-4.5 ft., Dup. of AAB 0277	Nitrosodiphenylamine [N-]	< 330	0	ug/kg	0.33	140 mg/kg	
AAB 0276	H-28D, 4.0-4.5 ft., Dup. of AAB 0277	Pentachlorophenol	< 330	0	ug/kg	0.33	5.8 mg/kg	
AAB 0276	H-28D, 4.0-4.5 ft., Dup. of AAB 0277	Phenanthrene	< 330	0	ug/kg	NA	b	
AAB 0276	H-28D, 4.0-4.5 ft., Dup. of AAB 0277	Phenol	< 330	0	ug/kg	0.33	48000 mg/kg	
AAB 0276	H-28D, 4.0-4.5 ft., Dup. of AAB 0277	Plutonium-238	0.005	0.0025	pCi/g	0.005	20 pCi/g	
AAB 0276	H-28D, 4.0-4.5 ft., Dup. of AAB 0277	Plutonium-239	0.265	0.021	pCi/g	0.265	18 pCi/g	
AAB 0276	H-28D, 4.0-4.5 ft., Dup. of AAB 0277	Propylbenzene	< 5	0	ug/kg	NA	b	
AAB 0276	H-28D, 4.0-4.5 ft., Dup. of AAB 0277	Pyrene	< 330	0	ug/kg	0.33	2400 mg/kg	
AAB 0276	H-28D, 4.0-4.5 ft., Dup. of AAB 0277	Selenium	0.3	0.3	ug/g	0.3	400 mg/kg	
AAB 0276	H-28D, 4.0-4.5 ft., Dup. of AAB 0277	Silver	< 1	0	ug/g	1	400 mg/kg	
AAB 0276	H-28D, 4.0-4.5 ft., Dup. of AAB 0277	Styrene	< 5	0	ug/kg	0.005	3300 mg/kg	
AAB 0276	H-28D, 4.0-4.5 ft., Dup. of AAB 0277	Tetrachloroethane [1,1,1,2-]	< 5	0	ug/kg	0.005	270 mg/kg	
AAB 0276	H-28D, 4.0-4.5 ft., Dup. of AAB 0277	Tetrachloroethane [1,1,2,2-]	< 5	0	ug/kg	0.005	3.9 mg/kg	
AAB 0276	H-28D, 4.0-4.5 ft., Dup. of AAB 0277	Tetrachloroethylene	< 5	0	ug/kg	0.005	5.9 mg/kg	
AAB 0276	H-28D, 4.0-4.5 ft., Dup. of AAB 0277	Thallium	< 0.1	0	ug/g	0.1	6.4 mg/kg	
AAB 0276	H-28D, 4.0-4.5 ft., Dup. of AAB 0277	Toluene	< 5	0	ug/kg	0.005	910 mg/kg	
AAB 0276	H-28D, 4.0-4.5 ft., Dup. of AAB 0277	Toxaphene	< 185	0	ug/kg	0.185	0.64 mg/kg	
AAB 0276	H-28D, 4.0-4.5 ft., Dup. of AAB 0277	Trichloro-1,2,2-trifluoroethane [1,1,2-]	< 5	0	ug/kg	NA	b	
AAB 0276	H-28D, 4.0-4.5 ft., Dup. of AAB 0277	Trichlorobenzene [1,2,4-]	< 330	0	ug/kg	0.33	160 mg/kg	
AAB 0276	H-28D, 4.0-4.5 ft., Dup. of AAB 0277	Trichloroethane [1,1,1-]	< 5	0	ug/kg	0.005	1000 mg/kg	
AAB 0276	H-28D, 4.0-4.5 ft., Dup. of AAB 0277	Trichloroethane [1,1,2-]	< 5	0	ug/kg	0.005	6.3 mg/kg	
AAB 0276	H-28D, 4.0-4.5 ft., Dup. of AAB 0277	Trichloroethene	< 5	0	ug/kg	0.005	3.2 mg/kg	
AAB 0276	H-28D, 4.0-4.5 ft., Dup. of AAB 0277	Trichlorofluoromethane	< 5	0	ug/kg	0.005	24000 mg/kg	
AAB 0276	H-28D, 4.0-4.5 ft., Dup. of AAB 0277	Trichlorophenol [2,4,5-]	< 330	0	ug/kg	0.33	8000 mg/kg	
AAB 0276	H-28D, 4.0-4.5 ft., Dup. of AAB 0277	Trichlorophenol [2,4,6-]	< 330	0	ug/kg	0.33	64 mg/kg	
AAB 0276	H-28D, 4.0-4.5 ft., Dup. of AAB 0277	Trichloropropane [1,2,3-]	< 5	0	ug/kg	0.005	480 mg/kg	
AAB 0276	H-28D, 4.0-4.5 ft., Dup. of AAB 0277	Trimethylbenzene [1,2,4-]	< 5	0	ug/kg	0.005	40 mg/kg	
AAB 0276	H-28D, 4.0-4.5 ft., Dup. of AAB 0277	Trimethylbenzene [1,3,5-]	< 5	0	ug/kg	0.005	32 mg/kg	
AAB 0276	H-28D, 4.0-4.5 ft., Dup. of AAB 0277	Uranium	3.9	0.78	mg/kg	3.9	a	Below Background of 3.41 mg/kg
AAB 0276	H-28D, 4.0-4.5 ft., Dup. of AAB 0277	Vinyl chloride	< 10	0	ug/kg	0.01	0.013 mg/kg	
AAB 0276	H-28D, 4.0-4.5 ft., Dup. of AAB 0277	Xylenes (o + m + p) [Mixed-]	< 5	0	ug/kg	0.005	160000 mg/kg	
AAB 0277	Borehole H-28D, 4.0-4.5 ft	Acenaphthene	< 330	0	ug/kg	0.33	4800 mg/kg	
AAB 0277	Borehole H-28D, 4.0-4.5 ft	Acenaphthylene	< 330	0	ug/kg	NA	b	

a Compound should be compared to background levels
b No SAL or background established
< Analytical result is below detection limit shown to right of symbol
TI Tentatively identified compound
NA Not applicable

Sample ID	Location	Analyte	Sample Value	Analytical Uncertainty	Units	Units Converted (mg/kg or pCi/g)	Screening Action Level	Comments
AAB 0277	Borehole H-28D, 4.0-4.5 ft.	Acetone	43	12.9	ug/kg	0.043	8000 mg/kg	
AAB 0277	Borehole H-28D, 4.0-4.5 ft.	Aldrin	< 1.84	0	ug/kg	0.00184	0.04 mg/kg	
AAB 0277	Borehole H-28D, 4.0-4.5 ft.	Americium-241	0.009	0.002	pCi/g	0.009	17 pCi/g	
AAB 0277	Borehole H-28D, 4.0-4.5 ft.	Aniline	< 330	0	ug/kg	0.33	120 mg/kg	
AAB 0277	Borehole H-28D, 4.0-4.5 ft.	Anthracene	< 330	0	ug/kg	0.33	24000 mg/kg	
AAB 0277	Borehole H-28D, 4.0-4.5 ft.	Antimony	< 0.1	0	ug/g	0.1	32 mg/kg	
AAB 0277	Borehole H-28D, 4.0-4.5 ft.	Aroclor 1016	< 35.7	0	ug/kg	NA	b	
AAB 0277	Borehole H-28D, 4.0-4.5 ft.	Aroclor 1221	< 72.6	0	ug/kg	NA	b	
AAB 0277	Borehole H-28D, 4.0-4.5 ft.	Aroclor 1232	< 35.7	0	ug/kg	NA	b	
AAB 0277	Borehole H-28D, 4.0-4.5 ft.	Aroclor 1242	< 0.2689	0	ug/g	NA	b	
AAB 0277	Borehole H-28D, 4.0-4.5 ft.	Aroclor 1242	< 35.7	0	ug/kg	NA	b	
AAB 0277	Borehole H-28D, 4.0-4.5 ft.	Aroclor 1248	< 35.7	0	ug/kg	NA	b	
AAB 0277	Borehole H-28D, 4.0-4.5 ft.	Aroclor 1254	< 0.2689	0	ug/g	NA	b	
AAB 0277	Borehole H-28D, 4.0-4.5 ft.	Aroclor 1254	< 35.7	0	ug/kg	NA	b	
AAB 0277	Borehole H-28D, 4.0-4.5 ft.	Aroclor 1260	< 0.2689	0	ug/g	NA	b	
AAB 0277	Borehole H-28D, 4.0-4.5 ft.	Aroclor 1260	< 35.7	0	ug/kg	NA	b	
AAB 0277	Borehole H-28D, 4.0-4.5 ft.	Aroclor [Mixed-]	< 0.2689	0	ug/g	0.2689	0.09 mg/kg	Detection limit is greater than SAL
AAB 0277	Borehole H-28D, 4.0-4.5 ft.	Arsenic	2.8	0.6	ug/g	2.8	a	Below Background of 5.04 mg/kg
AAB 0277	Borehole H-28D, 4.0-4.5 ft.	Azobenzene	< 330	0	ug/kg	0.33	6.4 mg/kg	
AAB 0277	Borehole H-28D, 4.0-4.5 ft.	Barium	130	13	ug/g	130	5600 mg/kg	
AAB 0277	Borehole H-28D, 4.0-4.5 ft.	Benzene	< 5	0	ug/kg	0.005	0.67 mg/kg	
AAB 0277	Borehole H-28D, 4.0-4.5 ft.	Benzidine [m-]	< 330	0	ug/kg	0.33	0.003 mg/kg	Detection limit is greater than SAL
AAB 0277	Borehole H-28D, 4.0-4.5 ft.	Benzoic acid	< 330	0	ug/kg	0.33	320000 mg/kg	
AAB 0277	Borehole H-28D, 4.0-4.5 ft.	Benzo[a]anthracene	< 330	0	ug/kg	0.33	1 mg/kg	
AAB 0277	Borehole H-28D, 4.0-4.5 ft.	Benzo[a]pyrene	< 330	0	ug/kg	0.33	0.1 mg/kg	Detection limit is greater than SAL
AAB 0277	Borehole H-28D, 4.0-4.5 ft.	Benzo[b]fluoranthene	< 330	0	ug/kg	0.33	1 mg/kg	
AAB 0277	Borehole H-28D, 4.0-4.5 ft.	Benzo[g,h,i]perylene	< 330	0	ug/kg	NA	b	
AAB 0277	Borehole H-28D, 4.0-4.5 ft.	Benzo[k]fluoranthene	< 330	0	ug/kg	0.33	1 mg/kg	
AAB 0277	Borehole H-28D, 4.0-4.5 ft.	Benzyl alcohol	< 330	0	ug/kg	0.33	24000 mg/kg	
AAB 0277	Borehole H-28D, 4.0-4.5 ft.	Beryllium	0.73	0.07	ug/g	0.73	a	Below Background of 2.37 mg/kg
AAB 0277	Borehole H-28D, 4.0-4.5 ft.	BHC [alpha-]	< 1.84	0	ug/kg	0.00184	0.1 mg/kg	
AAB 0277	Borehole H-28D, 4.0-4.5 ft.	BHC [beta-]	< 1.84	0	ug/kg	0.00184	4 mg/kg	
AAB 0277	Borehole H-28D, 4.0-4.5 ft.	BHC [delta-]	< 1.84	0	ug/kg	NA	b	
AAB 0277	Borehole H-28D, 4.0-4.5 ft.	Bis(2-chloroethoxy)methane	< 330	0	ug/kg	NA	b	
AAB 0277	Borehole H-28D, 4.0-4.5 ft.	Bis(2-chloroethyl)ether	< 330	0	ug/kg	0.33	0.12 mg/kg	Detection limit is greater than SAL
AAB 0277	Borehole H-28D, 4.0-4.5 ft.	Bis(2-chloroisopropyl)ether	< 330	0	ug/kg	0.33	100 mg/kg	
AAB 0277	Borehole H-28D, 4.0-4.5 ft.	Bis(2-ethylhexyl)phthalate	< 330	0	ug/kg	0.33	50 mg/kg	
AAB 0277	Borehole H-28D, 4.0-4.5 ft.	Bromobenzene	< 5	0	ug/kg	NA	b	
AAB 0277	Borehole H-28D, 4.0-4.5 ft.	Bromochloromethane	< 5	0	ug/kg	NA	b	
AAB 0277	Borehole H-28D, 4.0-4.5 ft.	Bromodichloromethane	< 5	0	ug/kg	0.005	11 mg/kg	
AAB 0277	Borehole H-28D, 4.0-4.5 ft.	Bromoform	< 5	0	ug/kg	0.005	89 mg/kg	
AAB 0277	Borehole H-28D, 4.0-4.5 ft.	Bromomethane	< 10	0	ug/kg	0.01	0.43 mg/kg	
AAB 0277	Borehole H-28D, 4.0-4.5 ft.	Bromophenylphenyl ether [4-]	< 330	0	ug/kg	NA	b	
AAB 0277	Borehole H-28D, 4.0-4.5 ft.	Butanone [2-]	< 42	0	ug/kg	0.042	4000 mg/kg	
AAB 0277	Borehole H-28D, 4.0-4.5 ft.	Butyl benzyl phthalate	< 330	0	ug/kg	0.33	16000 mg/kg	
AAB 0277	Borehole H-28D, 4.0-4.5 ft.	Butylbenzene [n-]	< 5	0	ug/kg	NA	b	
AAB 0277	Borehole H-28D, 4.0-4.5 ft.	Butylbenzene [sec-]	< 5	0	ug/kg	NA	b	
AAB 0277	Borehole H-28D, 4.0-4.5 ft.	Butylbenzene [tert-]	< 5	0	ug/kg	NA	b	
AAB 0277	Borehole H-28D, 4.0-4.5 ft.	Cadmium	< 0.4	0	ug/g	0.4	80 mg/kg	
AAB 0277	Borehole H-28D, 4.0-4.5 ft.	Carbon disulfide	< 5.5	0	ug/kg	0.0055	7.4 mg/kg	
AAB 0277	Borehole H-28D, 4.0-4.5 ft.	Carbon tetrachloride	< 5	0	ug/kg	0.005	0.21 mg/kg	
AAB 0277	Borehole H-28D, 4.0-4.5 ft.	Chlordane [alpha-]	< 1.84	0	ug/kg	NA	b	

a. Compound should be compared to background levels
b. No SAL or background established
< Analytical result is below detection limit shown to right of symbol
TI Tentatively identified compound
NA Not applicable

Sample ID	Location	Analyte	Sample Value	Analytical Uncertainty	Units	Units Converted (mg/kg or pCi/g)	Screening Action Level		Comments
AAB 0277	Borehole H-28D, 4.0-4.5 ft.	Chlordane [gamma-]	< 1.84	0	ug/kg	NA	b		
AAB 0277	Borehole H-28D, 4.0-4.5 ft.	Chloro-3-methylphenol [4-]	< 330	0	ug/kg	0.33	16000	mg/kg	
AAB 0277	Borehole H-28D, 4.0-4.5 ft.	Chloroaniline [4-]	< 330	0	ug/kg	0.33	320	mg/kg	
AAB 0277	Borehole H-28D, 4.0-4.5 ft.	Chlorobenzene	< 5	0	ug/kg	0.005	67	mg/kg	
AAB 0277	Borehole H-28D, 4.0-4.5 ft.	Chlorodibromomethane	< 5	0	ug/kg	0.005	83	mg/kg	
AAB 0277	Borehole H-28D, 4.0-4.5 ft.	Chloroethane	< 10	0	ug/kg	0.01	2900	mg/kg	
AAB 0277	Borehole H-28D, 4.0-4.5 ft.	Chloroform	< 5	0	ug/kg	0.005	0.21	mg/kg	
AAB 0277	Borehole H-28D, 4.0-4.5 ft.	Chloromethane	< 10	0	ug/kg	0.01	6.4	mg/kg	
AAB 0277	Borehole H-28D, 4.0-4.5 ft.	Chloronaphthalene [2-]	< 330	0	ug/kg	0.33	6400	mg/kg	
AAB 0277	Borehole H-28D, 4.0-4.5 ft.	Chlorophenol [o-]	< 330	0	ug/kg	0.33	400	mg/kg	
AAB 0277	Borehole H-28D, 4.0-4.5 ft.	Chlorophenylphenyl ether [4-]	< 330	0	ug/kg	NA	b		
AAB 0277	Borehole H-28D, 4.0-4.5 ft.	Chlorotoluene [o-]	< 5	0	ug/kg	0.005	1600	mg/kg	
AAB 0277	Borehole H-28D, 4.0-4.5 ft.	Chlorotoluene [p-]	< 5	0	ug/kg	NA	b		
AAB 0277	Borehole H-28D, 4.0-4.5 ft.	Chromium	8.7	0.9	ug/g	8.7	a		Below Background of 34.74 mg/kg
[illegible] 0277	Borehole H-28D, 4.0-4.5 ft.	Chrysene	< 330	0	ug/kg	0.33	96	mg/kg	
[illegible] 0277	Borehole H-28D, 4.0-4.5 ft.	DDD [p,p'-]	8.63	2.589	ug/kg	0.00863	2.9	mg/kg	
AAB 0277	Borehole H-28D, 4.0-4.5 ft.	DDE [p,p'-]	77.2	23.16	ug/kg	0.0772	2.1	mg/kg	
AAB 0277	Borehole H-28D, 4.0-4.5 ft.	DDT [p,p'-]	50	15	ug/kg	0.05	2.1	mg/kg	
AAB 0277	Borehole H-28D, 4.0-4.5 ft.	Di-n-butyl phthalate	< 330	0	ug/kg	0.33	8000	mg/kg	
AAB 0277	Borehole H-28D, 4.0-4.5 ft.	Di-n-octyl phthalate	< 330	0	ug/kg	0.33	1600	mg/kg	
AAB 0277	Borehole H-28D, 4.0-4.5 ft.	Dibenzofuran	< 330	0	ug/kg	NA	b		
AAB 0277	Borehole H-28D, 4.0-4.5 ft.	Dibenzo[a,h]anthracene	< 330	0	ug/kg	0.33	0.1	mg/kg	Detection limit is greater than SAL
AAB 0277	Borehole H-28D, 4.0-4.5 ft.	Dibromo-3-chloropropane [1,2-]	< 10	0	ug/kg	0.01	0.5	mg/kg	
AAB 0277	Borehole H-28D, 4.0-4.5 ft.	Dibromoethane [1,2-]	< 5	0	ug/kg	NA	b		
AAB 0277	Borehole H-28D, 4.0-4.5 ft.	Dibromomethane	< 5	0	ug/kg	0.005	0.0082	mg/kg	
AAB 0277	Borehole H-28D, 4.0-4.5 ft.	Dichlorobenzene (1,2) [o-]	< 5	0	ug/kg	0.005	1600	mg/kg	
AAB 0277	Borehole H-28D, 4.0-4.5 ft.	Dichlorobenzene (1,3) [m-]	< 5	0	ug/kg	0.005	7200	mg/kg	
AAB 0277	Borehole H-28D, 4.0-4.5 ft.	Dichlorobenzene (1,4) [p-]	< 5	0	ug/kg	0.005	29	mg/kg	
AAB 0277	Borehole H-28D, 4.0-4.5 ft.	Dichlorobenzidine [3,3'-]	< 330	0	ug/kg	0.33	1.6	mg/kg	
AAB 0277	Borehole H-28D, 4.0-4.5 ft.	Dichlorodifluoromethane	< 10	0	ug/kg	0.01	16000	mg/kg	
AAB 0277	Borehole H-28D, 4.0-4.5 ft.	Dichloroethane [1,1-]	< 5	0	ug/kg	0.005	410	mg/kg	
AAB 0277	Borehole H-28D, 4.0-4.5 ft.	Dichloroethane [1,2-]	< 5	0	ug/kg	0.005	0.2	mg/kg	
AAB 0277	Borehole H-28D, 4.0-4.5 ft.	Dichloroethene [1,1-]	< 5	0	ug/kg	0.005	0.4	mg/kg	
AAB 0277	Borehole H-28D, 4.0-4.5 ft.	Dichloroethene [trans-1,2-]	< 5	0	ug/kg	0.005	1600	mg/kg	
AAB 0277	Borehole H-28D, 4.0-4.5 ft.	Dichloroethylene [cis-1,2-]	< 5	0	ug/kg	0.005	800	mg/kg	
AAB 0277	Borehole H-28D, 4.0-4.5 ft.	Dichlorophenol [2,4-]	< 330	0	ug/kg	0.33	240	mg/kg	
[illegible] 0277	Borehole H-28D, 4.0-4.5 ft.	Dichloropropane [1,2-]	< 5	0	ug/kg	0.005	6.5	mg/kg	
[illegible] 0277	Borehole H-28D, 4.0-4.5 ft.	Dichloropropane [1,3-]	< 5	0	ug/kg	NA	b		
AAB 0277	Borehole H-28D, 4.0-4.5 ft.	Dichloropropane [2,2-]	< 5	0	ug/kg	NA	b		
AAB 0277	Borehole H-28D, 4.0-4.5 ft.	Dichloropropene [1,1-]	< 5	0	ug/kg	NA	b		
AAB 0277	Borehole H-28D, 4.0-4.5 ft.	Dichloropropene [cis-1,3-]	< 5	0	ug/kg	0.005	0.17	mg/kg	
AAB 0277	Borehole H-28D, 4.0-4.5 ft.	Dichloropropene [trans-1,3-]	< 5	0	ug/kg	0.005	0.17	mg/kg	
AAB 0277	Borehole H-28D, 4.0-4.5 ft.	Dieldrin	< 3.57	0	ug/kg	0.00357	0.044	mg/kg	
AAB 0277	Borehole H-28D, 4.0-4.5 ft.	Diethyl phthalate	< 330	0	ug/kg	0.33	64000	mg/kg	
AAB 0277	Borehole H-28D, 4.0-4.5 ft.	Dimethyl phthalate	< 330	0	ug/kg	0.33	800000	mg/kg	
AAB 0277	Borehole H-28D, 4.0-4.5 ft.	Dimethylphenol [2,4-]	< 330	0	ug/kg	0.33	1600	mg/kg	
AAB 0277	Borehole H-28D, 4.0-4.5 ft.	Dinitrophenol [2,4-]	< 330	0	ug/kg	0.33	160	mg/kg	
AAB 0277	Borehole H-28D, 4.0-4.5 ft.	Dinitrotoluene [2,4-]	< 330	0	ug/kg	0.33	1	mg/kg	
AAB 0277	Borehole H-28D, 4.0-4.5 ft.	Dinitrotoluene [2,6-]	< 330	0	ug/kg	0.33	1	mg/kg	
[illegible]	Borehole H-28D, 4.0-4.5 ft.	Endosulfan I	< 1.84	0	ug/kg	NA	b		
[illegible]	Borehole H-28D, 4.0-4.5 ft.	Endosulfan II	< 3.57	0	ug/kg	NA	b		
[illegible]	Borehole H-28D, 4.0-4.5 ft.	Endosulfan sulfate	< 3.57	0	ug/kg	0.00357	4	mg/kg	

a. Compound should be compared to background levels
b. No SAL or background established
< Analytical result is below detection limit shown to right of symbol
TI Tentatively identified compound
NA Not applicable

Sample ID	Location	Analyte	Sample Value	Analytical Uncertainty	Units	Units Converted (mg/kg or pCi/g)	Screening Action Level	Comments
AAB 0277	Borehole H-28D, 4.0-4.5 ft.	Endrin	< 3.57	0	ug/kg	0.00357	24 mg/kg	
AAB 0277	Borehole H-28D, 4.0-4.5 ft.	Endrin aldehyde	< 3.57	0	ug/kg	NA	b	
AAB 0277	Borehole H-28D, 4.0-4.5 ft.	Endrin ketone	< 3.57	0	ug/kg	NA	b	
AAB 0277	Borehole H-28D, 4.0-4.5 ft.	Ethylbenzene	< 5	0	ug/kg	0.005	3100 mg/kg	
AAB 0277	Borehole H-28D, 4.0-4.5 ft.	Fluoranthene	< 330	0	ug/kg	0.33	3200 mg/kg	
AAB 0277	Borehole H-28D, 4.0-4.5 ft.	Fluorene	< 330	0	ug/kg	0.33	3200 mg/kg	
AAB 0277	Borehole H-28D, 4.0-4.5 ft.	Heptachlor	< 1.84	0	ug/kg	0.00184	0.16 mg/kg	
AAB 0277	Borehole H-28D, 4.0-4.5 ft.	Heptachlor epoxide	< 1.84	0	ug/kg	0.00184	0.077 mg/kg	
AAB 0277	Borehole H-28D, 4.0-4.5 ft.	Hexachlorobenzene	< 330	0	ug/kg	0.33	0.44 mg/kg	
AAB 0277	Borehole H-28D, 4.0-4.5 ft.	Hexachlorobutadiene	< 330	0	ug/kg	0.33	90 mg/kg	
AAB 0277	Borehole H-28D, 4.0-4.5 ft.	Hexachlorocyclopentadiene	< 330	0	ug/kg	0.33	560 mg/kg	
AAB 0277	Borehole H-28D, 4.0-4.5 ft.	Hexachloroethane	< 330	0	ug/kg	0.33	80 mg/kg	
AAB 0277	Borehole H-28D, 4.0-4.5 ft.	Hexanone [2-]	< 20	0	ug/kg	NA	b	
AAB 0277	Borehole H-28D, 4.0-4.5 ft.	Indeno[1,2,3-cd]pyrene	< 330	0	ug/kg	0.33	1 mg/kg	
AAB 0277	Borehole H-28D, 4.0-4.5 ft.	Isophorone	< 330	0	ug/kg	0.33	7400 mg/kg	
AAB 0277	Borehole H-28D, 4.0-4.5 ft.	Isopropylbenzene	< 5	0	ug/kg	0.005	3200 mg/kg	
AAB 0277	Borehole H-28D, 4.0-4.5 ft.	Isopropyltoluene [4-]	< 5	0	ug/kg	NA	b	
AAB 0277	Borehole H-28D, 4.0-4.5 ft.	Lead	9	4	ug/g	9	400 mg/kg	
AAB 0277	Borehole H-28D, 4.0-4.5 ft.	Lindane	< 1.84	0	ug/kg	0.00184	0.54 mg/kg	
AAB 0277	Borehole H-28D, 4.0-4.5 ft.	Mercury	0.1	0.1	ug/g	0.1	24 mg/kg	
AAB 0277	Borehole H-28D, 4.0-4.5 ft.	Methoxychlor	< 18.4	0	ug/kg	0.0184	400 mg/kg	
AAB 0277	Borehole H-28D, 4.0-4.5 ft.	Methyl iodide	< 5	0	ug/kg	NA	b	
AAB 0277	Borehole H-28D, 4.0-4.5 ft.	Methyl-2-pentanone [4-]	< 20	0	ug/kg	0.02	510 mg/kg	
AAB 0277	Borehole H-28D, 4.0-4.5 ft.	Methyl-4,6-dinitrophenol [2-]	< 330	0	ug/kg	NA	b	
AAB 0277	Borehole H-28D, 4.0-4.5 ft.	Methylene chloride	< 5	0	ug/kg	0.005	5.6 mg/kg	
AAB 0277	Borehole H-28D, 4.0-4.5 ft.	Methylnaphthalene [2-]	< 330	0	ug/kg	NA	b	
AAB 0277	Borehole H-28D, 4.0-4.5 ft.	Methylphenol [2-]	< 330	0	ug/kg	0.33	4000 mg/kg	
AAB 0277	Borehole H-28D, 4.0-4.5 ft.	Methylphenol [4-]	< 330	0	ug/kg	0.33	400 mg/kg	
AAB 0277	Borehole H-28D, 4.0-4.5 ft.	Naphthalene	< 330	0	ug/kg	0.33	3200 mg/kg	
AAB 0277	Borehole H-28D, 4.0-4.5 ft.	Nickel	8.3	2.7	ug/g	8.3	1600 mg/kg	
AAB 0277	Borehole H-28D, 4.0-4.5 ft.	Nitroaniline [2-]	< 330	0	ug/kg	NA	b	
AAB 0277	Borehole H-28D, 4.0-4.5 ft.	Nitroaniline [3-]	< 330	0	ug/kg	0.33	240 mg/kg	
AAB 0277	Borehole H-28D, 4.0-4.5 ft.	Nitroaniline [4-]	< 330	0	ug/kg	0.33	240 mg/kg	
AAB 0277	Borehole H-28D, 4.0-4.5 ft.	Nitrobenzene	< 330	0	ug/kg	0.33	5.3 mg/kg	
AAB 0277	Borehole H-28D, 4.0-4.5 ft.	Nitrophenol [2-]	< 330	0	ug/kg	NA	b	
AAB 0277	Borehole H-28D, 4.0-4.5 ft.	Nitrophenol [4-]	< 330	0	ug/kg	0.33	5000 mg/kg	
AAB 0277	Borehole H-28D, 4.0-4.5 ft.	Nitrosodi-n-propylamine [N-]	< 330	0	ug/kg	0.33	0.1 mg/kg	Detection limit is greater than SAL
AAB 0277	Borehole H-28D, 4.0-4.5 ft.	Nitrosodimethylamine [N-]	< 330	0	ug/kg	0.33	0.014 mg/kg	Detection limit is greater than SAL
AAB 0277	Borehole H-28D, 4.0-4.5 ft.	Pentachlorophenol	< 330	0	ug/kg	0.33	5.8 mg/kg	
AAB 0277	Borehole H-28D, 4.0-4.5 ft.	Phenanthrene	< 330	0	ug/kg	NA	b	
AAB 0277	Borehole H-28D, 4.0-4.5 ft.	Phenol	< 330	0	ug/kg	0.33	48000 mg/kg	
AAB 0277	Borehole H-28D, 4.0-4.5 ft.	Plutonium-238	0.006	0.0025	pCi/g	0.006	20 pCi/g	
AAB 0277	Borehole H-28D, 4.0-4.5 ft.	Plutonium-239	0.138	0.014	pCi/g	0.138	18 pCi/g	
AAB 0277	Borehole H-28D, 4.0-4.5 ft.	Propylbenzene	< 5	0	ug/kg	NA	b	
AAB 0277	Borehole H-28D, 4.0-4.5 ft.	Pyrene	< 330	0	ug/kg	0.33	2400 mg/kg	
AAB 0277	Borehole H-28D, 4.0-4.5 ft.	Selenium	0.4	0.3	ug/g	0.4	400 mg/kg	
AAB 0277	Borehole H-28D, 4.0-4.5 ft.	Silver	< 1	0	ug/g	1	400 mg/kg	
AAB 0277	Borehole H-28D, 4.0-4.5 ft.	Styrene	< 5	0	ug/kg	0.005	3300 mg/kg	
AAB 0277	Borehole H-28D, 4.0-4.5 ft.	Tetrachloroethane [1,1,1,2-]	< 5	0	ug/kg	0.005	270 mg/kg	
AAB 0277	Borehole H-28D, 4.0-4.5 ft.	Tetrachloroethane [1,1,2,2-]	< 5	0	ug/kg	0.005	3.9 mg/kg	
AAB 0277	Borehole H-28D, 4.0-4.5 ft.	Tetrachloroethylene	< 5	0	ug/kg	0.005	5.9 mg/kg	
AAB 0277	Borehole H-28D, 4.0-4.5 ft.	Thallium	< 0.1	0	ug/g	0.1	6.4 mg/kg	

a Compound should be compared to background levels
b No SAL or background established
< Analytical result is below detection limit shown to right of symbol
TI Tentatively identified compound
NA Not applicable

Sample ID	Location	Analyte	Sample Value	Analytical Uncertainty	Units	Units Converted (mg/kg or pCi/g)	Screening Action Level	Comments
AAB 0277	Borehole H-28D, 4.0-4.5 ft.	Toluene	< 5	0	ug/kg	0.005	910 mg/kg	
AAB 0277	Borehole H-28D, 4.0-4.5 ft.	Toxaphene	< 184	0	ug/kg	0.184	0.64 mg/kg	
AAB 0277	Borehole H-28D, 4.0-4.5 ft.	Trichloro-1,2,2-trifluoroethane [1,1,2-]	< 5	0	ug/kg	NA	b	
AAB 0277	Borehole H-28D, 4.0-4.5 ft.	Trichlorobenzene [1,2,4-]	< 330	0	ug/kg	0.33	160 mg/kg	
AAB 0277	Borehole H-28D, 4.0-4.5 ft.	Trichloroethane [1,1,1-]	< 5	0	ug/kg	0.005	1000 mg/kg	
AAB 0277	Borehole H-28D, 4.0-4.5 ft.	Trichloroethane [1,1,2-]	< 5	0	ug/kg	0.005	6.3 mg/kg	
AAB 0277	Borehole H-28D, 4.0-4.5 ft.	Trichloroethene	< 5	0	ug/kg	0.005	3.2 mg/kg	
AAB 0277	Borehole H-28D, 4.0-4.5 ft.	Trichlorofluoromethane	< 5	0	ug/kg	0.005	24000 mg/kg	
AAB 0277	Borehole H-28D, 4.0-4.5 ft.	Trichlorophenol [2,4,5-]	< 330	0	ug/kg	0.33	8000 mg/kg	
AAB 0277	Borehole H-28D, 4.0-4.5 ft.	Trichlorophenol [2,4,6-]	< 330	0	ug/kg	0.33	64 mg/kg	
AAB 0277	Borehole H-28D, 4.0-4.5 ft.	Trichloropropane [1,2,3-]	< 5	0	ug/kg	0.005	480 mg/kg	
AAB 0277	Borehole H-28D, 4.0-4.5 ft.	Trimethylbenzene [1,2,4-]	< 5	0	ug/kg	0.005	40 mg/kg	
AAB 0277	Borehole H-28D, 4.0-4.5 ft.	Trimethylbenzene [1,3,5-]	< 5	0	ug/kg	0.005	32 mg/kg	
AAB 0277	Borehole H-28D, 4.0-4.5 ft.	Uranium	3.8	0.76	mg/kg	3.8	a	Below Background of 3.41 mg/kg
AAB 0277	Borehole H-28D, 4.0-4.5 ft.	Vinyl chloride	< 10	0	ug/kg	0.01	0.013 mg/kg	
AAB 0277	Borehole H-28D, 4.0-4.5 ft.	Xylenes (o + m + p) [Mixed-]	< 5	0	ug/kg	0.005	160000 mg/kg	
AAB 0280	Borehole H-27D, 7-8 ft.	Acenaphthene	< 330	0	ug/kg	0.33	4800 mg/kg	
AAB 0280	Borehole H-27D, 7-8 ft.	Acenaphthylene	< 330	0	ug/kg	NA	b	
AAB 0280	Borehole H-27D, 7-8 ft.	Acetone	32	9.6	ug/kg	0.032	8000 mg/kg	
AAB 0280	Borehole H-27D, 7-8 ft.	Aldrin	< 1.92	0	ug/kg	0.00192	0.04 mg/kg	
AAB 0280	Borehole H-27D, 7-8 ft.	Americium-241	0.024	0.0035	pCi/g	0.024	17 pCi/g	
AAB 0280	Borehole H-27D, 7-8 ft.	Aniline	< 330	0	ug/kg	0.33	120 mg/kg	
AAB 0280	Borehole H-27D, 7-8 ft.	Anthracene	< 330	0	ug/kg	0.33	24000 mg/kg	
AAB 0280	Borehole H-27D, 7-8 ft.	Antimony	< 0.1	0	ug/g	0.1	32 mg/kg	
AAB 0280	Borehole H-27D, 7-8 ft.	Aroclor 1016	< 37.4	0	ug/kg	NA	b	
AAB 0280	Borehole H-27D, 7-8 ft.	Aroclor 1221	< 75.9	0	ug/kg	NA	b	
AAB 0280	Borehole H-27D, 7-8 ft.	Aroclor 1232	< 37.4	0	ug/kg	NA	b	
AAB 0280	Borehole H-27D, 7-8 ft.	Aroclor 1242	< 0.2708	0	ug/g	NA	b	
AAB 0280	Borehole H-27D, 7-8 ft.	Aroclor 1242	< 37.4	0	ug/kg	NA	b	
AAB 0280	Borehole H-27D, 7-8 ft.	Aroclor 1248	< 37.4	0	ug/kg	NA	b	
AAB 0280	Borehole H-27D, 7-8 ft.	Aroclor 1254	< 0.2708	0	ug/g	NA	b	
AAB 0280	Borehole H-27D, 7-8 ft.	Aroclor 1254	< 37.4	0	ug/kg	NA	b	
AAB 0280	Borehole H-27D, 7-8 ft.	Aroclor 1260	< 0.2708	0	ug/g	NA	b	
AAB 0280	Borehole H-27D, 7-8 ft.	Aroclor 1260	< 37.4	0	ug/kg	NA	b	
AAB 0280	Borehole H-27D, 7-8 ft.	Aroclor [Mixed-]	< 0.2708	0	ug/g	0.2708	0.09 mg/kg	Detection limit is greater than SAL
AAB 0280	Borehole H-27D, 7-8 ft.	Arsenic	2.7	0.5	ug/g	2.7	a	Below Background of 5.04 mg/kg
AAB 0280	Borehole H-27D, 7-8 ft.	Azobenzene	< 330	0	ug/kg	0.33	6.4 mg/kg	
AAB 0280	Borehole H-27D, 7-8 ft.	Barium	100	10	ug/g	100	5600 mg/kg	
AAB 0280	Borehole H-27D, 7-8 ft.	Benzene	< 5	0	ug/kg	0.005	0.67 mg/kg	
AAB 0280	Borehole H-27D, 7-8 ft.	Benzidine [m-]	< 330	0	ug/kg	0.33	0.003 mg/kg	Detection limit is greater than SAL
AAB 0280	Borehole H-27D, 7-8 ft.	Benzoic acid	< 330	0	ug/kg	0.33	320000 mg/kg	
AAB 0280	Borehole H-27D, 7-8 ft.	Benzo[a]anthracene	< 330	0	ug/kg	0.33	1 mg/kg	
AAB 0280	Borehole H-27D, 7-8 ft.	Benzo[a]pyrene	< 330	0	ug/kg	0.33	0.1 mg/kg	Detection limit is greater than SAL
AAB 0280	Borehole H-27D, 7-8 ft.	Benzo[b]fluoranthene	< 330	0	ug/kg	0.33	1 mg/kg	
AAB 0280	Borehole H-27D, 7-8 ft.	Benzo[g,h,i]perylene	< 330	0	ug/kg	NA	b	
AAB 0280	Borehole H-27D, 7-8 ft.	Benzo[k]fluoranthene	< 330	0	ug/kg	0.33	1 mg/kg	
AAB 0280	Borehole H-27D, 7-8 ft.	Benzyl alcohol	< 330	0	ug/kg	0.33	24000 mg/kg	
AAB 0280	Borehole H-27D, 7-8 ft.	Beryllium	0.72	0.07	ug/g	0.72	a	Below Background of 2.37 mg/kg
AAB 0280	Borehole H-27D, 7-8 ft.	BHC [alpha-]	< 1.92	0	ug/kg	0.00192	0.1 mg/kg	
AAB 0280	Borehole H-27D, 7-8 ft.	BHC [beta-]	< 1.92	0	ug/kg	0.00192	4 mg/kg	
AAB 0280	Borehole H-27D, 7-8 ft.	BHC [delta-]	< 1.92	0	ug/kg	NA	b	
AAB 0280	Borehole H-27D, 7-8 ft.	Bis(2-chloroethoxy)methane	< 330	0	ug/kg	NA	b	

a Compound should be compared to background levels
b No SAL or background established
< Analytical result is below detection limit shown to right of symbol
TI Tentatively identified compound
NA Not applicable

Sample ID	Location	Analyte	Sample Value	Analytical Uncertainty	Units	Units Converted (mg/kg or pCi/g)	Screening Action Level	Comments
AAB 0280	Borehole H-27D, 7-8 ft.	Bis(2-chloroethyl)ether	< 330	0	ug/kg	0.33	0.12 mg/kg	Detection limit is greater than SAL
AAB 0280	Borehole H-27D, 7-8 ft.	Bis(2-chloroisopropyl)ether	< 330	0	ug/kg	0.33	100 mg/kg	
AAB 0280	Borehole H-27D, 7-8 ft.	Bis(2-ethylhexyl)phthalate	< 330	0	ug/kg	0.33	50 mg/kg	
AAB 0280	Borehole H-27D, 7-8 ft.	Bromobenzene	< 5	0	ug/kg	NA	b	
AAB 0280	Borehole H-27D, 7-8 ft.	Bromochloromethane	< 5	0	ug/kg	NA	b	
AAB 0280	Borehole H-27D, 7-8 ft.	Bromodichloromethane	< 5	0	ug/kg	0.005	11 mg/kg	
AAB 0280	Borehole H-27D, 7-8 ft.	Bromoform	< 5	0	ug/kg	0.005	89 mg/kg	
AAB 0280	Borehole H-27D, 7-8 ft.	Bromomethane	< 10	0	ug/kg	0.01	0.43 mg/kg	
AAB 0280	Borehole H-27D, 7-8 ft.	Bromophenylphenyl ether [4-]	< 330	0	ug/kg	NA	b	
AAB 0280	Borehole H-27D, 7-8 ft.	Butanone [2-]	< 27	0	ug/kg	0.027	4000 mg/kg	
AAB 0280	Borehole H-27D, 7-8 ft.	Butyl benzyl phthalate	< 330	0	ug/kg	0.33	16000 mg/kg	
AAB 0280	Borehole H-27D, 7-8 ft.	Butylbenzene [n-]	< 5	0	ug/kg	NA	b	
AAB 0280	Borehole H-27D, 7-8 ft.	Butylbenzene [sec-]	< 5	0	ug/kg	NA	b	
AAB 0280	Borehole H-27D, 7-8 ft.	Butylbenzene [tert-]	< 5	0	ug/kg	NA	b	
AAB 0280	Borehole H-27D, 7-8 ft.	Cadmium	< 0.4	0	ug/g	0.4	80 mg/kg	
AAB 0280	Borehole H-27D, 7-8 ft.	Carbon disulfide	< 7.9	0	ug/kg	0.0079	7.4 mg/kg	
AAB 0280	Borehole H-27D, 7-8 ft.	Carbon tetrachloride	< 5	0	ug/kg	0.005	0.21 mg/kg	
AAB 0280	Borehole H-27D, 7-8 ft.	Chlordane [alpha-]	< 1.92	0	ug/kg	NA	b	
AAB 0280	Borehole H-27D, 7-8 ft.	Chlordane [gamma-]	< 1.92	0	ug/kg	NA	b	
AAB 0280	Borehole H-27D, 7-8 ft.	Chloro-3-methylphenol [4-]	< 330	0	ug/kg	0.33	16000 mg/kg	
AAB 0280	Borehole H-27D, 7-8 ft.	Chloroaniline [4-]	< 330	0	ug/kg	0.33	320 mg/kg	
AAB 0280	Borehole H-27D, 7-8 ft.	Chlorobenzene	< 5	0	ug/kg	0.005	67 mg/kg	
AAB 0280	Borehole H-27D, 7-8 ft.	Chlorodibromomethane	< 5	0	ug/kg	0.005	83 mg/kg	
AAB 0280	Borehole H-27D, 7-8 ft.	Chloroethane	< 10	0	ug/kg	0.01	2900 mg/kg	
AAB 0280	Borehole H-27D, 7-8 ft.	Chloroform	< 5	0	ug/kg	0.005	0.21 mg/kg	
AAB 0280	Borehole H-27D, 7-8 ft.	Chloromethane	< 10	0	ug/kg	0.01	6.4 mg/kg	
AAB 0280	Borehole H-27D, 7-8 ft.	Chloronaphthalene [2-]	< 330	0	ug/kg	0.33	6400 mg/kg	
AAB 0280	Borehole H-27D, 7-8 ft.	Chlorophenol [o-]	< 330	0	ug/kg	0.33	400 mg/kg	
AAB 0280	Borehole H-27D, 7-8 ft.	Chlorophenylphenyl ether [4-]	< 330	0	ug/kg	NA	b	
AAB 0280	Borehole H-27D, 7-8 ft.	Chlorotoluene [o-]	< 5	0	ug/kg	0.005	1600 mg/kg	
AAB 0280	Borehole H-27D, 7-8 ft.	Chlorotoluene [p-]	< 5	0	ug/kg	NA	b	
AAB 0280	Borehole H-27D, 7-8 ft.	Chromium	6.5	0.6	ug/g	6.5	a	Below Background of 34.74 mg/kg
AAB 0280	Borehole H-27D, 7-8 ft.	Chrysene	< 330	0	ug/kg	0.33	96 mg/kg	
AAB 0280	Borehole H-27D, 7-8 ft.	DDD [p,p'-]	65.6	19.68	ug/kg	0.0656	2.9 mg/kg	
AAB 0280	Borehole H-27D, 7-8 ft.	DDE [p,p'-]	45	13.5	ug/kg	0.045	2.1 mg/kg	
AAB 0280	Borehole H-27D, 7-8 ft.	DDT [p,p'-]	39.5	11.85	ug/kg	0.0395	2.1 mg/kg	
AAB 0280	Borehole H-27D, 7-8 ft.	Di-n-butyl phthalate	< 330	0	ug/kg	0.33	8000 mg/kg	
AAB 0280	Borehole H-27D, 7-8 ft.	Di-n-octyl phthalate	< 330	0	ug/kg	0.33	1600 mg/kg	
AAB 0280	Borehole H-27D, 7-8 ft.	Dibenzofuran	< 330	0	ug/kg	NA	b	
AAB 0280	Borehole H-27D, 7-8 ft.	Dibenzo[a,h]anthracene	< 330	0	ug/kg	0.33	0.1 mg/kg	Detection limit is greater than SAL
AAB 0280	Borehole H-27D, 7-8 ft.	Dibromo-3-chloropropane [1,2-]	< 10	0	ug/kg	0.01	0.5 mg/kg	
AAB 0280	Borehole H-27D, 7-8 ft.	Dibromoethane [1,2-]	< 5	0	ug/kg	NA	b	
AAB 0280	Borehole H-27D, 7-8 ft.	Dibromomethane	< 5	0	ug/kg	0.005	0.0082 mg/kg	
AAB 0280	Borehole H-27D, 7-8 ft.	Dichlorobenzene (1,2) [o-]	< 5	0	ug/kg	0.005	1600 mg/kg	
AAB 0280	Borehole H-27D, 7-8 ft.	Dichlorobenzene (1,3) [m-]	< 330	0	ug/kg	0.33	7200 mg/kg	
AAB 0280	Borehole H-27D, 7-8 ft.	Dichlorobenzene (1,4) [p-]	< 330	0	ug/kg	0.33	29 mg/kg	
AAB 0280	Borehole H-27D, 7-8 ft.	Dichlorobenzidine [3,3'-]	< 330	0	ug/kg	0.33	1.6 mg/kg	
AAB 0280	Borehole H-27D, 7-8 ft.	Dichlorodifluoromethane	< 10	0	ug/kg	0.01	16000 mg/kg	
AAB 0280	Borehole H-27D, 7-8 ft.	Dichloroethane [1,1-]	< 5	0	ug/kg	0.005	410 mg/kg	
AAB 0280	Borehole H-27D, 7-8 ft.	Dichloroethane [1,2-]	< 5	0	ug/kg	0.005	0.2 mg/kg	
AAB 0280	Borehole H-27D, 7-8 ft.	Dichloroethene [1,1-]	< 5	0	ug/kg	0.005	0.4 mg/kg	
AAB 0280	Borehole H-27D, 7-8 ft.	Dichloroethene [trans-1,2-]	< 5	0	ug/kg	0.005	1600 mg/kg	

a. Compound should be compared to background levels
b. No SAL or background established
< Analytical result is below detection limit shown to right of symbol
TI Tentatively identified compound
NA Not applicable

Sample ID	Location	Analyte	Sample Value	Analytical Uncertainty	Units	Units Converted (mg/kg or pCi/g)	Screening Action Level	Comments
AAB 0280	Borehole H-27D, 7-8 ft.	Dichloroethylene [cis-1,2-]	< 5	0	ug/kg	0.005	800 mg/kg	
AAB 0280	Borehole H-27D, 7-8 ft.	Dichlorophenol [2,4-]	< 330	0	ug/kg	0.33	240 mg/kg	
AAB 0280	Borehole H-27D, 7-8 ft.	Dichloropropane [1,2-]	< 5	0	ug/kg	0.005	6.5 mg/kg	
AAB 0280	Borehole H-27D, 7-8 ft.	Dichloropropane [1,3-]	< 5	0	ug/kg	NA	b	
AAB 0280	Borehole H-27D, 7-8 ft.	Dichloropropane [2,2-]	< 5	0	ug/kg	NA	b	
AAB 0280	Borehole H-27D, 7-8 ft.	Dichloropropene [1,1-]	< 5	0	ug/kg	NA	b	
AAB 0280	Borehole H-27D, 7-8 ft.	Dichloropropene [cis-1,3-]	< 5	0	ug/kg	0.005	0.17 mg/kg	
AAB 0280	Borehole H-27D, 7-8 ft.	Dichloropropene [trans-1,3-]	< 5	0	ug/kg	0.005	0.17 mg/kg	
AAB 0280	Borehole H-27D, 7-8 ft.	Dieldrin	< 3.74	0	ug/kg	0.00374	0.044 mg/kg	
AAB 0280	Borehole H-27D, 7-8 ft.	Diethyl phthalate	< 330	0	ug/kg	0.33	64000 mg/kg	
AAB 0280	Borehole H-27D, 7-8 ft.	Dimethyl phthalate	< 330	0	ug/kg	0.33	800000 mg/kg	
AAB 0280	Borehole H-27D, 7-8 ft.	Dimethylphenol [2,4-]	< 330	0	ug/kg	0.33	160 mg/kg	
AAB 0280	Borehole H-27D, 7-8 ft.	Dinitrophenol [2,4-]	< 330	0	ug/kg	0.33	160 mg/kg	
AAB 0280	Borehole H-27D, 7-8 ft.	Dinitrotoluene [2,4-]	< 330	0	ug/kg	0.33	1 mg/kg	
AAB 0280	Borehole H-27D, 7-8 ft.	Dinitrotoluene [2,6-]	< 330	0	ug/kg	0.33	1 mg/kg	
AAB 0280	Borehole H-27D, 7-8 ft.	Endosulfan I	< 1.92	0	ug/kg	NA	b	
AAB 0280	Borehole H-27D, 7-8 ft.	Endosulfan II	< 3.74	0	ug/kg	NA	b	
AAB 0280	Borehole H-27D, 7-8 ft.	Endosulfan sulfate	< 3.74	0	ug/kg	0.00374	4 mg/kg	
AAB 0280	Borehole H-27D, 7-8 ft.	Endrin	< 3.74	0	ug/kg	0.00374	24 mg/kg	
AAB 0280	Borehole H-27D, 7-8 ft.	Endrin aldehyde	< 3.74	0	ug/kg	NA	b	
AAB 0280	Borehole H-27D, 7-8 ft.	Endrin ketone	< 3.74	0	ug/kg	NA	b	
AAB 0280	Borehole H-27D, 7-8 ft.	Ethylbenzene	< 5	0	ug/kg	0.005	3100 mg/kg	
AAB 0280	Borehole H-27D, 7-8 ft.	Fluoranthene	< 330	0	ug/kg	0.33	3200 mg/kg	
AAB 0280	Borehole H-27D, 7-8 ft.	Fluorene	< 330	0	ug/kg	0.33	3200 mg/kg	
AAB 0280	Borehole H-27D, 7-8 ft.	Heptachlor	< 1.92	0	ug/kg	0.00192	0.16 mg/kg	
AAB 0280	Borehole H-27D, 7-8 ft.	Heptachlor epoxide	< 1.92	0	ug/kg	0.00192	0.077 mg/kg	
AAB 0280	Borehole H-27D, 7-8 ft.	Hexachlorobenzene	< 330	0	ug/kg	0.33	0.44 mg/kg	
AAB 0280	Borehole H-27D, 7-8 ft.	Hexachlorobutadiene	< 330	0	ug/kg	0.33	90 mg/kg	
AAB 0280	Borehole H-27D, 7-8 ft.	Hexachlorocyclopentadiene	< 330	0	ug/kg	0.33	560 mg/kg	
AAB 0280	Borehole H-27D, 7-8 ft.	Hexachloroethane	< 330	0	ug/kg	0.33	80 mg/kg	
AAB 0280	Borehole H-27D, 7-8 ft.	Hexanone [2-]	< 20	0	ug/kg	NA	b	
AAB 0280	Borehole H-27D, 7-8 ft.	Indeno[1,2,3-cd]pyrene	< 330	0	ug/kg	0.33	1 mg/kg	
AAB 0280	Borehole H-27D, 7-8 ft.	Isophorone	< 330	0	ug/kg	0.33	7400 mg/kg	
AAB 0280	Borehole H-27D, 7-8 ft.	Isopropylbenzene	< 5	0	ug/kg	0.005	3200 mg/kg	
AAB 0280	Borehole H-27D, 7-8 ft.	Isopropyltoluene [4-]	< 5	0	ug/kg	NA	b	
AAB 0280	Borehole H-27D, 7-8 ft.	Lead	16	4	ug/g	16	400 mg/kg	
AAB 0280	Borehole H-27D, 7-8 ft.	Lindane	< 1.92	0	ug/kg	0.00192	0.54 mg/kg	
AAB 0280	Borehole H-27D, 7-8 ft.	Mercury	0.1	0.1	ug/g	0.1	24 mg/kg	
AAB 0280	Borehole H-27D, 7-8 ft.	Methoxychlor	< 19.2	0	ug/kg	0.0192	400 mg/kg	
AAB 0280	Borehole H-27D, 7-8 ft.	Methyl iodide	< 5	0	ug/kg	NA	b	
AAB 0280	Borehole H-27D, 7-8 ft.	Methyl-2-pentanone [4-]	< 20	0	ug/kg	0.02	510 mg/kg	
AAB 0280	Borehole H-27D, 7-8 ft.	Methyl-4,6-dinitrophenol [2-]	< 330	0	ug/kg	NA	b	
AAB 0280	Borehole H-27D, 7-8 ft.	Methylene chloride	< 5	0	ug/kg	0.005	5.6 mg/kg	
AAB 0280	Borehole H-27D, 7-8 ft.	Methylnaphthalene [2-]	< 330	0	ug/kg	NA	b	
AAB 0280	Borehole H-27D, 7-8 ft.	Methylphenol [2-]	< 330	0	ug/kg	0.33	4000 mg/kg	
AAB 0280	Borehole H-27D, 7-8 ft.	Methylphenol [4-]	< 330	0	ug/kg	0.33	400 mg/kg	
AAB 0280	Borehole H-27D, 7-8 ft.	Naphthalene	< 330	0	ug/kg	0.33	3200 mg/kg	
AAB 0280	Borehole H-27D, 7-8 ft.	Nickel	7.7	1.4	ug/g	7.7	1600 mg/kg	
AAB 0280	Borehole H-27D, 7-8 ft.	Nitroaniline [2-]	< 330	0	ug/kg	NA	b	
AAB 0280	Borehole H-27D, 7-8 ft.	Nitroaniline [3-]	< 330	0	ug/kg	0.33	240 mg/kg	
AAB 0280	Borehole H-27D, 7-8 ft.	Nitroaniline [4-]	< 330	0	ug/kg	0.33	240 mg/kg	
AAB 0280	Borehole H-27D, 7-8 ft.	Nitrobenzene	< 330	0	ug/kg	0.33	5.3 mg/kg	

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TI Tentatively identified compound
NA Not applicable

Sample ID	Location	Analyte	Sample Value	Analytical Uncertainty	Units	Units Converted (mg/kg or pCi/g)	Screening Action Level	Comments
AAB 0280	Borehole H-27D, 7-8 ft.	Nitrophenol [2-]	< 330	0	ug/kg	NA	b	
AAB 0280	Borehole H-27D, 7-8 ft.	Nitrophenol [4-]	< 330	0	ug/kg	0.33	5000 mg/kg	
AAB 0280	Borehole H-27D, 7-8 ft.	Nitrosodi-n-propylamine [N-]	< 330	0	ug/kg	0.33	0.1 mg/kg	Detection limit is greater than SAL
AAB 0280	Borehole H-27D, 7-8 ft.	Nitrosodimethylamine [N-]	< 330	0	ug/kg	0.33	0.014 mg/kg	Detection limit is greater than SAL
AAB 0280	Borehole H-27D, 7-8 ft.	Nitrosodiphenylamine [N-]	< 330	0	ug/kg	0.33	140 mg/kg	
AAB 0280	Borehole H-27D, 7-8 ft.	Pentachlorophenol	< 330	0	ug/kg	0.33	5.8 mg/kg	
AAB 0280	Borehole H-27D, 7-8 ft.	Phenanthrene	< 330	0	ug/kg	NA	b	
AAB 0280	Borehole H-27D, 7-8 ft.	Phenol	< 330	0	ug/kg	0.33	48000 mg/kg	
AAB 0280	Borehole H-27D, 7-8 ft.	Plutonium-238	0.005	0.002	pCi/g	0.005	20 pCi/g	
AAB 0280	Borehole H-27D, 7-8 ft.	Plutonium-239	0.28	0.0215	pCi/g	0.28	18 pCi/g	
AAB 0280	Borehole H-27D, 7-8 ft.	Propylbenzene	< 5	0	ug/kg	NA	b	
AAB 0280	Borehole H-27D, 7-8 ft.	Pyrene	< 330	0	ug/kg	0.33	2400 mg/kg	
AAB 0280	Borehole H-27D, 7-8 ft.	Selenium	0	0	ug/g	0	400 mg/kg	
AAB 0280	Borehole H-27D, 7-8 ft.	Silver	< 1	0	ug/g	1	400 mg/kg	
AAB 0280	Borehole H-27D, 7-8 ft.	Styrene	< 5	0	ug/kg	0.005	3300 mg/kg	
AAB 0280	Borehole H-27D, 7-8 ft.	Tetrachloroethane [1,1,1,2-]	< 5	0	ug/kg	0.005	270 mg/kg	
AAB 0280	Borehole H-27D, 7-8 ft.	Tetrachloroethane [1,1,2,2-]	< 5	0	ug/kg	0.005	3.9 mg/kg	
AAB 0280	Borehole H-27D, 7-8 ft.	Tetrachloroethylene	< 5	0	ug/kg	0.005	5.9 mg/kg	
AAB 0280	Borehole H-27D, 7-8 ft.	Thallium	0.1	0.04	ug/g	0.1	6.4 mg/kg	
AAB 0280	Borehole H-27D, 7-8 ft.	Toluene	< 5	0	ug/kg	0.005	910 mg/kg	
AAB 0280	Borehole H-27D, 7-8 ft.	Toxaphene	< 192	0	ug/kg	0.192	0.64 mg/kg	
AAB 0280	Borehole H-27D, 7-8 ft.	Trichloro-1,2,2-trifluoroethane [1,1,2-]	< 5	0	ug/kg	NA	b	
AAB 0280	Borehole H-27D, 7-8 ft.	Trichlorobenzene [1,2,4-]	< 330	0	ug/kg	0.33	160 mg/kg	
AAB 0280	Borehole H-27D, 7-8 ft.	Trichloroethane [1,1,1-]	< 5	0	ug/kg	0.005	1000 mg/kg	
AAB 0280	Borehole H-27D, 7-8 ft.	Trichloroethane [1,1,2-]	< 5	0	ug/kg	0.005	6.3 mg/kg	
AAB 0280	Borehole H-27D, 7-8 ft.	Trichloroethene	< 5	0	ug/kg	0.005	3.2 mg/kg	
AAB 0280	Borehole H-27D, 7-8 ft.	Trichlorofluoromethane	< 5	0	ug/kg	0.005	24000 mg/kg	
AAB 0280	Borehole H-27D, 7-8 ft.	Trichlorophenol [2,4,5-]	< 330	0	ug/kg	0.33	8000 mg/kg	
AAB 0280	Borehole H-27D, 7-8 ft.	Trichlorophenol [2,4,6-]	< 330	0	ug/kg	0.33	64 mg/kg	
AAB 0280	Borehole H-27D, 7-8 ft.	Trichloropropane [1,2,3-]	< 5	0	ug/kg	0.005	480 mg/kg	
AAB 0280	Borehole H-27D, 7-8 ft.	Trimethylbenzene [1,2,4-]	< 5	0	ug/kg	0.005	40 mg/kg	
AAB 0280	Borehole H-27D, 7-8 ft.	Trimethylbenzene [1,3,5-]	< 5	0	ug/kg	0.005	32 mg/kg	
AAB 0280	Borehole H-27D, 7-8 ft.	Uranium	3.8	0.76	mg/kg	3.8	a	Below Background of 3.41 mg/kg
AAB 0280	Borehole H-27D, 7-8 ft.	Vinyl chloride	< 10	0	ug/kg	0.01	0.013 mg/kg	
AAB 0280	Borehole H-27D, 7-8 ft.	Xylenes (o + m + p) [Mixed-]	< 5	0	ug/kg	0.005	160000 mg/kg	
AAB 0282	Borehole H-26, 3.75-4.25 ft.	Acenaphthene	< 330	0	ug/kg	0.33	4800 mg/kg	
AAB 0282	Borehole H-26, 3.75-4.25 ft.	Acenaphthylene	< 330	0	ug/kg	NA	b	
AAB 0282	Borehole H-26, 3.75-4.25 ft.	Acetone	260	78	ug/kg	0.26	8000 mg/kg	
AAB 0282	Borehole H-26, 3.75-4.25 ft.	Aldrin	< 1.82	0	ug/kg	0.00182	0.04 mg/kg	
AAB 0282	Borehole H-26, 3.75-4.25 ft.	Americium-241	0.004	0.0015	pCi/g	0.004	17 pCi/g	
AAB 0282	Borehole H-26, 3.75-4.25 ft.	Aniline	< 330	0	ug/kg	0.33	120 mg/kg	
AAB 0282	Borehole H-26, 3.75-4.25 ft.	Anthracene	< 330	0	ug/kg	0.33	24000 mg/kg	
AAB 0282	Borehole H-26, 3.75-4.25 ft.	Antimony	< 0.3	0	ug/g	0.3	32 mg/kg	
AAB 0282	Borehole H-26, 3.75-4.25 ft.	Aroclor 1016	< 35.3	0	ug/kg	NA	b	
AAB 0282	Borehole H-26, 3.75-4.25 ft.	Aroclor 1221	< 71.7	0	ug/kg	NA	b	
AAB 0282	Borehole H-26, 3.75-4.25 ft.	Aroclor 1232	< 35.3	0	ug/kg	NA	b	
AAB 0282	Borehole H-26, 3.75-4.25 ft.	Aroclor 1242	< 0.2642	0	ug/g	NA	b	
AAB 0282	Borehole H-26, 3.75-4.25 ft.	Aroclor 1242	< 35.3	0	ug/kg	NA	b	
AAB 0282	Borehole H-26, 3.75-4.25 ft.	Aroclor 1248	< 35.3	0	ug/kg	NA	b	
AAB 0282	Borehole H-26, 3.75-4.25 ft.	Aroclor 1254	< 0.2642	0	ug/g	NA	b	
AAB 0282	Borehole H-26, 3.75-4.25 ft.	Aroclor 1254	< 35.3	0	ug/kg	NA	b	
AAB 0282	Borehole H-26, 3.75-4.25 ft.	Aroclor 1260	< 0.2642	0	ug/g	NA	b	

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b. No SAL or background established
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TI Tentatively identified compound
NA Not applicable

Sample ID	Location	Analyte	Sample Value	Analytical Uncertainty	Units	Units Converted (mg/kg or pCi/g)	Screening Action Level	Comments
AAB 0282	Borehole H-26, 3.75-4.25 ft	Aroclor 1260	< 35.3	0	ug/kg	NA	b	
AAB 0282	Borehole H-26, 3.75-4.25 ft.	Aroclor [Mixed-]	< 0.2642	0	ug/g	0.2642	0.09 mg/kg	Detection limit is greater than SAL
AAB 0282	Borehole H-26, 3.75-4.25 ft.	Arsenic	3.4	0.7	ug/g	3.4	a	Below Background of 5.04 mg/kg
AAB 0282	Borehole H-26, 3.75-4.25 ft.	Azobenzene	< 330	0	ug/kg	0.33	6.4 mg/kg	
AAB 0282	Borehole H-26, 3.75-4.25 ft.	Barium	100	10	ug/g	100	5600 mg/kg	
AAB 0282	Borehole H-26, 3.75-4.25 ft.	Benzene	< 5	0	ug/kg	0.005	0.67 mg/kg	
AAB 0282	Borehole H-26, 3.75-4.25 ft.	Benzidine [m-]	< 330	0	ug/kg	0.33	0.003 mg/kg	Detection limit is greater than SAL
AAB 0282	Borehole H-26, 3.75-4.25 ft.	Benzoic acid	< 330	0	ug/kg	0.33	320000 mg/kg	
AAB 0282	Borehole H-26, 3.75-4.25 ft.	Benzo[a]anthracene	< 330	0	ug/kg	0.33	1 mg/kg	
AAB 0282	Borehole H-26, 3.75-4.25 ft.	Benzo[a]pyrene	< 330	0	ug/kg	0.33	0.1 mg/kg	
AAB 0282	Borehole H-26, 3.75-4.25 ft.	Benzo[b]fluoranthene	< 330	0	ug/kg	0.33	1 mg/kg	
AAB 0282	Borehole H-26, 3.75-4.25 ft.	Benzo[g,h,i]perylene	< 330	0	ug/kg	NA	b	
AAB 0282	Borehole H-26, 3.75-4.25 ft.	Benzo[k]fluoranthene	< 330	0	ug/kg	0.33	1 mg/kg	
AAB 0282	Borehole H-26, 3.75-4.25 ft.	Benzyl alcohol	< 330	0	ug/kg	0.33	24000 mg/kg	
AAB 0282	Borehole H-26, 3.75-4.25 ft.	Beryllium	0.61	0.06	ug/g	0.61	a	Below Background of 2.37 mg/kg
AAB 0282	Borehole H-26, 3.75-4.25 ft.	BHC [alpha-]	< 1.82	0	ug/kg	0.00182	0.1 mg/kg	
AAB 0282	Borehole H-26, 3.75-4.25 ft.	BHC [beta-]	< 1.82	0	ug/kg	0.00182	4 mg/kg	
AAB 0282	Borehole H-26, 3.75-4.25 ft.	BHC [delta-]	< 1.82	0	ug/kg	NA	b	
AAB 0282	Borehole H-26, 3.75-4.25 ft.	Bis(2-chloroethoxy)methane	< 330	0	ug/kg	NA	b	
AAB 0282	Borehole H-26, 3.75-4.25 ft.	Bis(2-chloroethyl)ether	< 330	0	ug/kg	0.33	0.12 mg/kg	Detection limit is greater than SAL
AAB 0282	Borehole H-26, 3.75-4.25 ft.	Bis(2-chloroisopropyl)ether	< 330	0	ug/kg	0.33	100 mg/kg	
AAB 0282	Borehole H-26, 3.75-4.25 ft.	Bis(2-ethylhexyl)phthalate	< 330	0	ug/kg	0.33	50 mg/kg	
AAB 0282	Borehole H-26, 3.75-4.25 ft.	Bromobenzene	< 5	0	ug/kg	NA	b	
AAB 0282	Borehole H-26, 3.75-4.25 ft.	Bromochloromethane	< 5	0	ug/kg	NA	b	
AAB 0282	Borehole H-26, 3.75-4.25 ft.	Bromodichloromethane	< 5	0	ug/kg	0.005	11 mg/kg	
AAB 0282	Borehole H-26, 3.75-4.25 ft.	Bromoform	< 5	0	ug/kg	0.005	89 mg/kg	
AAB 0282	Borehole H-26, 3.75-4.25 ft.	Bromomethane	< 10	0	ug/kg	0.01	0.43 mg/kg	
AAB 0282	Borehole H-26, 3.75-4.25 ft.	Bromophenylphenyl ether [4-]	< 330	0	ug/kg	NA	b	
AAB 0282	Borehole H-26, 3.75-4.25 ft.	Butanone [2-]	< 34	0	ug/kg	0.034	4000 mg/kg	
AAB 0282	Borehole H-26, 3.75-4.25 ft.	Butyl benzyl phthalate	< 330	0	ug/kg	0.33	16000 mg/kg	
AAB 0282	Borehole H-26, 3.75-4.25 ft.	Butylbenzene [n-]	< 5	0	ug/kg	NA	b	
AAB 0282	Borehole H-26, 3.75-4.25 ft.	Butylbenzene [sec-]	< 5	0	ug/kg	NA	b	
AAB 0282	Borehole H-26, 3.75-4.25 ft.	Butylbenzene [tert-]	< 5	0	ug/kg	NA	b	
AAB 0282	Borehole H-26, 3.75-4.25 ft.	Cadmium	< 0.4	0	ug/g	0.4	80 mg/kg	
AAB 0282	Borehole H-26, 3.75-4.25 ft.	Carbon disulfide	< 6.8	0	ug/kg	0.0068	7.4 mg/kg	
AAB 0282	Borehole H-26, 3.75-4.25 ft.	Carbon tetrachloride	< 5	0	ug/kg	0.005	0.21 mg/kg	
AAB 0282	Borehole H-26, 3.75-4.25 ft.	Chlordane [alpha-]	< 1.82	0	ug/kg	NA	b	
AAB 0282	Borehole H-26, 3.75-4.25 ft.	Chlordane [gamma-]	< 1.82	0	ug/kg	NA	b	
AAB 0282	Borehole H-26, 3.75-4.25 ft.	Chloro-3-methylphenol [4-]	< 330	0	ug/kg	0.33	16000 mg/kg	
AAB 0282	Borehole H-26, 3.75-4.25 ft.	Chloroaniline [4-]	< 330	0	ug/kg	0.33	320 mg/kg	
AAB 0282	Borehole H-26, 3.75-4.25 ft.	Chlorobenzene	< 5	0	ug/kg	0.005	67 mg/kg	
AAB 0282	Borehole H-26, 3.75-4.25 ft.	Chlorodibromomethane	< 5	0	ug/kg	0.005	83 mg/kg	
AAB 0282	Borehole H-26, 3.75-4.25 ft.	Chloroethane	< 10	0	ug/kg	0.01	2900 mg/kg	
AAB 0282	Borehole H-26, 3.75-4.25 ft.	Chloroform	< 5	0	ug/kg	0.005	0.21 mg/kg	
AAB 0282	Borehole H-26, 3.75-4.25 ft.	Chloromethane	< 10	0	ug/kg	0.01	6.4 mg/kg	
AAB 0282	Borehole H-26, 3.75-4.25 ft.	Chloronaphthalene [2-]	< 330	0	ug/kg	0.33	6400 mg/kg	
AAB 0282	Borehole H-26, 3.75-4.25 ft.	Chlorophenol [o-]	< 330	0	ug/kg	0.33	400 mg/kg	
AAB 0282	Borehole H-26, 3.75-4.25 ft.	Chlorophenylphenyl ether [4-]	< 330	0	ug/kg	NA	b	
AAB 0282	Borehole H-26, 3.75-4.25 ft.	Chlorotoluene [o-]	< 5	0	ug/kg	0.005	1600 mg/kg	
AAB 0282	Borehole H-26, 3.75-4.25 ft.	Chlorotoluene [p-]	< 5	0	ug/kg	NA	b	
AAB 0282	Borehole H-26, 3.75-4.25 ft.	Chromium	6.3	0.6	ug/g	6.3	a	Below Background of 34.74 mg/kg
AAB 0282	Borehole H-26, 3.75-4.25 ft.	Chrysene	< 330	0	ug/kg	0.33	96 mg/kg	

a. Compound should be compared to background levels
b. No SAL or background established
< Analytical result is below detection limit shown to right of symbol
TI Tentatively identified compound
NA Not applicable

Sample ID	Location	Analyte	Sample Value	Analytical Uncertainty	Units	Units Converted (mg/kg or pCi/g)	Screening Action Level	Comments
AAB 0282	Borehole H-26, 3.75-4.25 ft.	DDD [p,p'-]	41.4	12.42	ug/kg	0.0414	2.9 mg/kg	
AAB 0282	Borehole H-26, 3.75-4.25 ft.	DDE [p,p'-]	87.3	26.19	ug/kg	0.0873	2.1 mg/kg	
AAB 0282	Borehole H-26, 3.75-4.25 ft.	DDT [p,p'-]	83.6	25.08	ug/kg	0.0836	2.1 mg/kg	
AAB 0282	Borehole H-26, 3.75-4.25 ft.	Di-n-butyl phthalate	< 330	0	ug/kg	0.33	8000 mg/kg	
AAB 0282	Borehole H-26, 3.75-4.25 ft.	Di-n-octyl phthalate	< 330	0	ug/kg	0.33	1600 mg/kg	
AAB 0282	Borehole H-26, 3.75-4.25 ft.	Dibenzofuran	< 330	0	ug/kg	NA	b	
AAB 0282	Borehole H-26, 3.75-4.25 ft.	Dibenzo[a,h]anthracene	< 330	0	ug/kg	0.33	0.1 mg/kg	Detection limit is greater than SAL
AAB 0282	Borehole H-26, 3.75-4.25 ft.	Dibromo-3-chloropropane [1,2-]	< 10	0	ug/kg	0.01	0.5 mg/kg	
AAB 0282	Borehole H-26, 3.75-4.25 ft.	Dibromoethane [1,2-]	< 5	0	ug/kg	NA	b	
AAB 0282	Borehole H-26, 3.75-4.25 ft.	Dibromomethane	< 5	0	ug/kg	0.005	0.0082 mg/kg	
AAB 0282	Borehole H-26, 3.75-4.25 ft.	Dichlorobenzene (1,2) [o-]	< 5	0	ug/kg	0.005	1600 mg/kg	
AAB 0282	Borehole H-26, 3.75-4.25 ft.	Dichlorobenzene (1,3) [m-]	< 330	0	ug/kg	0.33	7200 mg/kg	
AAB 0282	Borehole H-26, 3.75-4.25 ft.	Dichlorobenzene (1,4) [p-]	< 330	0	ug/kg	0.33	29 mg/kg	
AAB 0282	Borehole H-26, 3.75-4.25 ft.	Dichlorobenzidine [3,3'-]	< 330	0	ug/kg	0.33	1.6 mg/kg	
AAB 0282	Borehole H-26, 3.75-4.25 ft.	Dichlorodifluoromethane	< 10	0	ug/kg	0.01	16000 mg/kg	
AAB 0282	Borehole H-26, 3.75-4.25 ft.	Dichloroethane [1,1-]	< 5	0	ug/kg	0.005	410 mg/kg	
AAB 0282	Borehole H-26, 3.75-4.25 ft.	Dichloroethane [1,2-]	< 5	0	ug/kg	0.005	0.2 mg/kg	
AAB 0282	Borehole H-26, 3.75-4.25 ft.	Dichloroethene [1,1-]	< 5	0	ug/kg	0.005	0.4 mg/kg	
AAB 0282	Borehole H-26, 3.75-4.25 ft.	Dichloroethene [trans-1,2-]	< 5	0	ug/kg	0.005	1600 mg/kg	
AAB 0282	Borehole H-26, 3.75-4.25 ft.	Dichloroethylene [cis-1,2-]	< 5	0	ug/kg	0.005	800 mg/kg	
AAB 0282	Borehole H-26, 3.75-4.25 ft.	Dichlorophenol [2,4-]	< 330	0	ug/kg	0.33	240 mg/kg	
AAB 0282	Borehole H-26, 3.75-4.25 ft.	Dichloropropane [1,2-]	< 5	0	ug/kg	0.005	6.5 mg/kg	
AAB 0282	Borehole H-26, 3.75-4.25 ft.	Dichloropropane [1,3-]	< 5	0	ug/kg	NA	b	
AAB 0282	Borehole H-26, 3.75-4.25 ft.	Dichloropropane [2,2-]	< 5	0	ug/kg	NA	b	
AAB 0282	Borehole H-26, 3.75-4.25 ft.	Dichloropropene [1,1-]	< 5	0	ug/kg	NA	b	
AAB 0282	Borehole H-26, 3.75-4.25 ft.	Dichloropropene [cis-1,3-]	< 5	0	ug/kg	0.005	0.17 mg/kg	
AAB 0282	Borehole H-26, 3.75-4.25 ft.	Dichloropropene [trans-1,3-]	< 5	0	ug/kg	0.005	0.17 mg/kg	
AAB 0282	Borehole H-26, 3.75-4.25 ft.	Dieldrin	< 3.53	0	ug/kg	0.00353	0.044 mg/kg	
AAB 0282	Borehole H-26, 3.75-4.25 ft.	Diethyl phthalate	< 330	0	ug/kg	0.33	64000 mg/kg	
AAB 0282	Borehole H-26, 3.75-4.25 ft.	Dimethyl phthalate	< 330	0	ug/kg	0.33	800000 mg/kg	
AAB 0282	Borehole H-26, 3.75-4.25 ft.	Dimethylphenol [2,4-]	< 330	0	ug/kg	0.33	1600 mg/kg	
AAB 0282	Borehole H-26, 3.75-4.25 ft.	Dinitrophenol [2,4-]	< 330	0	ug/kg	0.33	160 mg/kg	
AAB 0282	Borehole H-26, 3.75-4.25 ft.	Dinitrotoluene [2,4-]	< 330	0	ug/kg	0.33	1 mg/kg	
AAB 0282	Borehole H-26, 3.75-4.25 ft.	Dinitrotoluene [2,6-]	< 330	0	ug/kg	0.33	1 mg/kg	
AAB 0282	Borehole H-26, 3.75-4.25 ft.	Endosulfan I	< 1.82	0	ug/kg	NA	b	
AAB 0282	Borehole H-26, 3.75-4.25 ft.	Endosulfan II	< 3.53	0	ug/kg	NA	b	
AAB 0282	Borehole H-26, 3.75-4.25 ft.	Endosulfan sulfate	< 3.53	0	ug/kg	0.00353	4 mg/kg	
AAB 0282	Borehole H-26, 3.75-4.25 ft.	Endrin	< 3.53	0	ug/kg	0.00353	24 mg/kg	
AAB 0282	Borehole H-26, 3.75-4.25 ft.	Endrin aldehyde	< 3.53	0	ug/kg	NA	b	
AAB 0282	Borehole H-26, 3.75-4.25 ft.	Endrin ketone	< 3.53	0	ug/kg	NA	b	
AAB 0282	Borehole H-26, 3.75-4.25 ft.	Ethylbenzene	< 5	0	ug/kg	0.005	3100 mg/kg	
AAB 0282	Borehole H-26, 3.75-4.25 ft.	Fluoranthene	< 330	0	ug/kg	0.33	3200 mg/kg	
AAB 0282	Borehole H-26, 3.75-4.25 ft.	Fluorene	< 330	0	ug/kg	0.33	3200 mg/kg	
AAB 0282	Borehole H-26, 3.75-4.25 ft.	Heptachlor	< 1.82	0	ug/kg	0.00182	0.16 mg/kg	
AAB 0282	Borehole H-26, 3.75-4.25 ft.	Heptachlor epoxide	< 1.82	0	ug/kg	0.00182	0.077 mg/kg	
AAB 0282	Borehole H-26, 3.75-4.25 ft.	Hexachlorobenzene	< 330	0	ug/kg	0.33	0.44 mg/kg	
AAB 0282	Borehole H-26, 3.75-4.25 ft.	Hexachlorobutadiene	< 330	0	ug/kg	0.33	90 mg/kg	
AAB 0282	Borehole H-26, 3.75-4.25 ft.	Hexachlorocyclopentadiene	< 330	0	ug/kg	0.33	560 mg/kg	
AAB 0282	Borehole H-26, 3.75-4.25 ft.	Hexachloroethane	< 330	0	ug/kg	0.33	80 mg/kg	
AAB 0282	Borehole H-26, 3.75-4.25 ft.	Hexanone [2-]	< 20	0	ug/kg	NA	b	
AAB 0282	Borehole H-26, 3.75-4.25 ft.	Indeno[1,2,3-cd]pyrene	< 330	0	ug/kg	0.33	1 mg/kg	
AAB 0282	Borehole H-26, 3.75-4.25 ft.	Isophorone	< 330	0	ug/kg	0.33	7400 mg/kg	

a. Compound should be compared to background levels
b. No SAL or background established
< Analytical result is below detection limit shown to right of symbol
TI Tentatively identified compound
NA Not applicable

nple ID	Location	Analyte	Sample Value	Analytical Uncertainty	Units	Units Converted (mg/kg or pCi/g)	Screening Action Level	Comments
B 0282	Borehole H-26, 3.75-4.25 ft.	Isopropylbenzene	< 5	0	ug/kg	0.005	3200 mg/kg	
B 0282	Borehole H-26, 3.75-4.25 ft.	Isopropyltoluene [4-]	< 5	0	ug/kg	NA	b	
B 0282	Borehole H-26, 3.75-4.25 ft.	Lead	11	2	ug/g	11	400 mg/kg	
B 0282	Borehole H-26, 3.75-4.25 ft.	Lindane	< 1.82	0	ug/kg	0.00182	0.54 mg/kg	
B 0282	Borehole H-26, 3.75-4.25 ft.	Mercury	< 0.1	0	ug/g	0.1	24 mg/kg	
B 0282	Borehole H-26, 3.75-4.25 ft.	Methoxychlor	< 18.2	0	ug/kg	0.0182	400 mg/kg	
B 0282	Borehole H-26, 3.75-4.25 ft.	Methyl iodide	< 5	0	ug/kg	NA	b	
B 0282	Borehole H-26, 3.75-4.25 ft.	Methyl-2-pentanone [4-]	< 20	0	ug/kg	0.02	510 mg/kg	
B 0282	Borehole H-26, 3.75-4.25 ft.	Methyl-4,6-dinitrophenol [2-]	< 330	0	ug/kg	NA	b	
B 0282	Borehole H-26, 3.75-4.25 ft.	Methylene chloride	< 5	0	ug/kg	0.005	5.6 mg/kg	
B 0282	Borehole H-26, 3.75-4.25 ft.	Methylnaphthalene [2-]	< 330	0	ug/kg	NA	b	
B 0282	Borehole H-26, 3.75-4.25 ft.	Methylphenol [2-]	< 330	0	ug/kg	0.33	4000 mg/kg	
B 0282	Borehole H-26, 3.75-4.25 ft.	Methylphenol [4-]	< 330	0	ug/kg	0.33	400 mg/kg	
B 0282	Borehole H-26, 3.75-4.25 ft.	Naphthalene	< 330	0	ug/kg	0.33	3200 mg/kg	
B 0282	Borehole H-26, 3.75-4.25 ft.	Nickel	7.4	1.4	ug/g	7.4	1600 mg/kg	
B 0282	Borehole H-26, 3.75-4.25 ft.	Nitroaniline [2-]	< 330	0	ug/kg	NA	b	
B 0282	Borehole H-26, 3.75-4.25 ft.	Nitroaniline [3-]	< 330	0	ug/kg	0.33	240 mg/kg	
B 0282	Borehole H-26, 3.75-4.25 ft.	Nitroaniline [4-]	< 330	0	ug/kg	0.33	240 mg/kg	
B 0282	Borehole H-26, 3.75-4.25 ft.	Nitrobenzene	< 330	0	ug/kg	0.33	5.3 mg/kg	
B 0282	Borehole H-26, 3.75-4.25 ft.	Nitrophenol [2-]	< 330	0	ug/kg	NA	b	
B 0282	Borehole H-26, 3.75-4.25 ft.	Nitrophenol [4-]	< 330	0	ug/kg	0.33	5000 mg/kg	
B 0282	Borehole H-26, 3.75-4.25 ft.	Nitrosodi-n-propylamine [N-]	< 330	0	ug/kg	0.33	0.1 mg/kg	Detection limit is greater than SAL
B 0282	Borehole H-26, 3.75-4.25 ft.	Nitrosodimethylamine [N-]	< 330	0	ug/kg	0.33	0.014 mg/kg	Detection limit is greater than SAL
B 0282	Borehole H-26, 3.75-4.25 ft.	Nitrosodiphenylamine [N-]	< 330	0	ug/kg	0.33	140 mg/kg	
B 0282	Borehole H-26, 3.75-4.25 ft.	Pentachlorophenol	< 330	0	ug/kg	0.33	5.8 mg/kg	
B 0282	Borehole H-26, 3.75-4.25 ft.	Phenanthrene	< 330	0	ug/kg	NA	b	
B 0282	Borehole H-26, 3.75-4.25 ft.	Phenol	< 330	0	ug/kg	0.33	48000 mg/kg	
B 0282	Borehole H-26, 3.75-4.25 ft.	Plutonium-238	0.004	0.002	pCi/g	0.004	20 pCi/g	
B 0282	Borehole H-26, 3.75-4.25 ft.	Plutonium-239	0.046	0.0075	pCi/g	0.046	18 pCi/g	
B 0282	Borehole H-26, 3.75-4.25 ft.	Propylbenzene	< 5	0	ug/kg	NA	b	
B 0282	Borehole H-26, 3.75-4.25 ft.	Pyrene	< 330	0	ug/kg	0.33	2400 mg/kg	
B 0282	Borehole H-26, 3.75-4.25 ft.	Selenium	0.4	0.3	ug/g	0.4	400 mg/kg	
B 0282	Borehole H-26, 3.75-4.25 ft.	Silver	< 1	0	ug/g	1	400 mg/kg	
B 0282	Borehole H-26, 3.75-4.25 ft.	Styrene	< 5	0	ug/kg	0.005	3300 mg/kg	
B 0282	Borehole H-26, 3.75-4.25 ft.	Tetrachloroethane [1,1,1,2-]	< 5	0	ug/kg	0.005	270 mg/kg	
B 0282	Borehole H-26, 3.75-4.25 ft.	Tetrachloroethane [1,1,2,2-]	< 5	0	ug/kg	0.005	3.9 mg/kg	
B 0282	Borehole H-26, 3.75-4.25 ft.	Tetrachloroethylene	< 5	0	ug/kg	0.005	5.9 mg/kg	
B 0282	Borehole H-26, 3.75-4.25 ft.	Thallium	< 0.3	0	ug/g	0.3	6.4 mg/kg	
B 0282	Borehole H-26, 3.75-4.25 ft.	Toluene	< 5	0	ug/kg	0.005	910 mg/kg	
B 0282	Borehole H-26, 3.75-4.25 ft.	Toxaphene	< 182	0	ug/kg	0.182	0.64 mg/kg	
B 0282	Borehole H-26, 3.75-4.25 ft.	Trichloro-1,2,2-trifluoroethane [1,1,2-]	< 5	0	ug/kg	NA	b	
B 0282	Borehole H-26, 3.75-4.25 ft.	Trichlorobenzene [1,2,4-]	< 330	0	ug/kg	0.33	160 mg/kg	
B 0282	Borehole H-26, 3.75-4.25 ft.	Trichloroethane [1,1,1-]	< 5	0	ug/kg	0.005	1000 mg/kg	
B 0282	Borehole H-26, 3.75-4.25 ft.	Trichloroethane [1,1,2-]	< 5	0	ug/kg	0.005	6.3 mg/kg	
B 0282	Borehole H-26, 3.75-4.25 ft.	Trichloroethene	< 5	0	ug/kg	0.005	3.2 mg/kg	
B 0282	Borehole H-26, 3.75-4.25 ft.	Trichlorofluoromethane	< 5	0	ug/kg	0.005	24000 mg/kg	
B 0282	Borehole H-26, 3.75-4.25 ft.	Trichlorophenol [2,4,5-]	< 330	0	ug/kg	0.33	8000 mg/kg	
B 0282	Borehole H-26, 3.75-4.25 ft.	Trichlorophenol [2,4,6-]	< 330	0	ug/kg	0.33	64 mg/kg	
B 0282	Borehole H-26, 3.75-4.25 ft.	Trichloropropane [1,2,3-]	< 5	0	ug/kg	0.005	480 mg/kg	
B 0282	Borehole H-26, 3.75-4.25 ft.	Trimethylbenzene [1,2,4-]	< 5	0	ug/kg	0.005	40 mg/kg	
B 0282	Borehole H-26, 3.75-4.25 ft.	Trimethylbenzene [1,3,5-]	< 5	0	ug/kg	0.005	32 mg/kg	
B 0282	Borehole H-26, 3.75-4.25 ft.	Uranium	3.9	0.78	mg/kg	3.9	a	Below Background of 3.41 mg/kg

a Compound should be compared to background levels
b No SAL or background established
< Analytical result is below detection limit shown to right of symbol
TI Tentatively identified compound
NA Not applicable

Sample ID	Location	Analyte	Sample Value	Analytical Uncertainty	Units	Units Converted (mg/kg or pCi/g)	Screening Action Level	Comments
AAB 0282	Borehole H-26, 3.75-4.25 ft.	Vinyl chloride	< 10	0	ug/kg	0.01	0.013 mg/kg	
AAB 0282	Borehole H-26, 3.75-4.25 ft.	Xylenes (o + m + p) [Mixed-]	< 5	0	ug/kg	0.005	160000 mg/kg	
AAB 0284	Borehole H-28D, 7.33-8.0 ft	Acenaphthene	< 330	0	ug/kg	0.33	4800 mg/kg	
AAB 0284	Borehole H-28D, 7.33-8.0 ft.	Acenaphthylene	< 330	0	ug/kg	NA	b	
AAB 0284	Borehole H-28D, 7.33-8.0 ft	Acetone	160	48	ug/kg	0.16	8000 mg/kg	
AAB 0284	Borehole H-28D, 7.33-8.0 ft.	Aldrin	< 1.86	0	ug/kg	0.00186	0.04 mg/kg	
AAB 0284	Borehole H-28D, 7.33-8.0 ft.	Americium-241	0.006	0.002	pCi/g	0.006	17 pCi/g	
AAB 0284	Borehole H-28D, 7.33-8.0 ft.	Aniline	< 330	0	ug/kg	0.33	120 mg/kg	
AAB 0284	Borehole H-28D, 7.33-8.0 ft.	Anthracene	< 330	0	ug/kg	0.33	24000 mg/kg	
AAB 0284	Borehole H-28D, 7.33-8.0 ft	Antimony	< 0.3	0	ug/g	0.3	32 mg/kg	
AAB 0284	Borehole H-28D, 7.33-8.0 ft.	Aroclor 1016	< 36	0	ug/kg	NA	b	
AAB 0284	Borehole H-28D, 7.33-8.0 ft.	Aroclor 1221	< 73.1	0	ug/kg	NA	b	
AAB 0284	Borehole H-28D, 7.33-8.0 ft.	Aroclor 1232	< 36	0	ug/kg	NA	b	
AAB 0284	Borehole H-28D, 7.33-8.0 ft.	Aroclor 1242	< 0.2562	0	ug/g	NA	b	
AAB 0284	Borehole H-28D, 7.33-8.0 ft.	Aroclor 1242	< 36	0	ug/kg	NA	b	
AAB 0284	Borehole H-28D, 7.33-8.0 ft.	Aroclor 1248	< 36	0	ug/kg	NA	b	
AAB 0284	Borehole H-28D, 7.33-8.0 ft.	Aroclor 1254	< 0.2562	0	ug/g	NA	b	
AAB 0284	Borehole H-28D, 7.33-8.0 ft.	Aroclor 1254	< 36	0	ug/kg	NA	b	
AAB 0284	Borehole H-28D, 7.33-8.0 ft.	Aroclor 1260	< 0.2562	0	ug/g	NA	b	
AAB 0284	Borehole H-28D, 7.33-8.0 ft.	Aroclor 1260	< 36	0	ug/kg	NA	b	
AAB 0284	Borehole H-28D, 7.33-8.0 ft.	Aroclor [Mixed-]	< 0.2562	0	ug/g	0.2562	0.09 mg/kg	Detection limit is greater than SAL
AAB 0284	Borehole H-28D, 7.33-8.0 ft.	Arsenic	2.9	0.6	ug/g	2.9	a	Below Background of 5.04 mg/kg
AAB 0284	Borehole H-28D, 7.33-8.0 ft.	Azobenzene	< 330	0	ug/kg	0.33	6.4 mg/kg	
AAB 0284	Borehole H-28D, 7.33-8.0 ft	Barium	130	13	ug/g	130	5600 mg/kg	
AAB 0284	Borehole H-28D, 7.33-8.0 ft.	Benzene	< 5	0	ug/kg	0.005	0.67 mg/kg	
AAB 0284	Borehole H-28D, 7.33-8.0 ft.	Benzidine [m-]	< 330	0	ug/kg	0.33	0.003 mg/kg	Detection limit is greater than SAL
AAB 0284	Borehole H-28D, 7.33-8.0 ft.	Benzoic acid	< 330	0	ug/kg	0.33	320000 mg/kg	
AAB 0284	Borehole H-28D, 7.33-8.0 ft.	Benzo[a]anthracene	< 330	0	ug/kg	0.33	1 mg/kg	
AAB 0284	Borehole H-28D, 7.33-8.0 ft.	Benzo[a]pyrene	< 330	0	ug/kg	0.33	0.1 mg/kg	Detection limit is greater than SAL
AAB 0284	Borehole H-28D, 7.33-8.0 ft.	Benzo[b]fluoranthene	< 330	0	ug/kg	0.33	1 mg/kg	
AAB 0284	Borehole H-28D, 7.33-8.0 ft.	Benzo[g,h,i]perylene	< 330	0	ug/kg	NA	b	
AAB 0284	Borehole H-28D, 7.33-8.0 ft.	Benzo[k]fluoranthene	< 330	0	ug/kg	0.33	1 mg/kg	
AAB 0284	Borehole H-28D, 7.33-8.0 ft.	Benzyl alcohol	< 330	0	ug/kg	0.33	24000 mg/kg	
AAB 0284	Borehole H-28D, 7.33-8.0 ft.	Beryllium	0.74	0.07	ug/g	0.74	a	Below Background of 2.37 mg/kg
AAB 0284	Borehole H-28D, 7.33-8.0 ft.	BHC [alpha-]	< 1.86	0	ug/kg	0.00186	0.1 mg/kg	
AAB 0284	Borehole H-28D, 7.33-8.0 ft.	BHC [beta-]	< 1.86	0	ug/kg	0.00186	4 mg/kg	
AAB 0284	Borehole H-28D, 7.33-8.0 ft.	BHC [delta-]	< 1.86	0	ug/kg	NA	b	
AAB 0284	Borehole H-28D, 7.33-8.0 ft.	Bis(2-chloroethoxy)methane	< 330	0	ug/kg	NA	b	
AAB 0284	Borehole H-28D, 7.33-8.0 ft.	Bis(2-chloroethyl)ether	< 330	0	ug/kg	0.33	0.12 mg/kg	Detection limit is greater than SAL
AAB 0284	Borehole H-28D, 7.33-8.0 ft.	Bis(2-chloroethyl)ether	< 330	0	ug/kg	0.33	0.12 mg/kg	
AAB 0284	Borehole H-28D, 7.33-8.0 ft.	Bis(2-chloroisopropyl)ether	< 330	0	ug/kg	0.33	100 mg/kg	
AAB 0284	Borehole H-28D, 7.33-8.0 ft.	Bis(2-ethylhexyl)phthalate	< 330	0	ug/kg	0.33	50 mg/kg	
AAB 0284	Borehole H-28D, 7.33-8.0 ft.	Bromobenzene	< 5	0	ug/kg	NA	b	
AAB 0284	Borehole H-28D, 7.33-8.0 ft.	Bromochloromethane	< 5	0	ug/kg	NA	b	
AAB 0284	Borehole H-28D, 7.33-8.0 ft.	Bromodichloromethane	< 5	0	ug/kg	0.005	11 mg/kg	
AAB 0284	Borehole H-28D, 7.33-8.0 ft.	Bromoform	< 5	0	ug/kg	0.005	89 mg/kg	
AAB 0284	Borehole H-28D, 7.33-8.0 ft.	Bromomethane	< 10	0	ug/kg	0.01	0.43 mg/kg	
AAB 0284	Borehole H-28D, 7.33-8.0 ft.	Bromophenylphenyl ether [4-]	< 330	0	ug/kg	NA	b	
AAB 0284	Borehole H-28D, 7.33-8.0 ft	Butanone [2-]	< 43	0	ug/kg	0.043	4000 mg/kg	
AAB 0284	Borehole H-28D, 7.33-8.0 ft.	Butyl benzyl phthalate	< 330	0	ug/kg	0.33	16000 mg/kg	
AAB 0284	Borehole H-28D, 7.33-8.0 ft.	Butylbenzene [n-]	< 5	0	ug/kg	NA	b	
AAB 0284	Borehole H-28D, 7.33-8.0 ft	Butylbenzene [sec-]	< 5	0	ug/kg	NA	b	

a. Compound should be compared to background levels
b No SAL or background established
< Analytical result is below detection limit shown to right of symbol
TI Tentatively identified compound
NA Not applicable

Sample ID	Location	Analyte	Sample Value	Analytical Uncertainty	Units	Units Converted (mg/kg or pCi/g)	Screening Action Level	Comments
AAB 0284	Borehole H-28D, 7.33-8.0 ft.	Butylbenzene [tert-]	< 5	0	ug/kg	NA	b	
AAB 0284	Borehole H-28D, 7.33-8.0 ft.	Cadmium	< 0.4	0	ug/g	0.4	80 mg/kg	
AAB 0284	Borehole H-28D, 7.33-8.0 ft.	Carbon disulfide	< 7.5	0	ug/kg	0.0075	7.4 mg/kg	
AAB 0284	Borehole H-28D, 7.33-8.0 ft.	Carbon tetrachloride	< 5	0	ug/kg	0.005	0.21 mg/kg	
AAB 0284	Borehole H-28D, 7.33-8.0 ft.	Chlordane [alpha-]	< 1.86	0	ug/kg	NA	b	
AAB 0284	Borehole H-28D, 7.33-8.0 ft.	Chlordane [gamma-]	< 1.86	0	ug/kg	NA	b	
AAB 0284	Borehole H-28D, 7.33-8.0 ft.	Chloro-3-methylphenol [4-]	< 330	0	ug/kg	0.33	16000 mg/kg	
AAB 0284	Borehole H-28D, 7.33-8.0 ft.	Chloroaniline [4-]	< 330	0	ug/kg	0.33	320 mg/kg	
AAB 0284	Borehole H-28D, 7.33-8.0 ft.	Chlorobenzene	< 5	0	ug/kg	0.005	67 mg/kg	
AAB 0284	Borehole H-28D, 7.33-8.0 ft.	Chlorodibromomethane	< 5	0	ug/kg	0.005	83 mg/kg	
AAB 0284	Borehole H-28D, 7.33-8.0 ft.	Chloroethane	< 10	0	ug/kg	0.01	2900 mg/kg	
AAB 0284	Borehole H-28D, 7.33-8.0 ft.	Chloroform	< 5	0	ug/kg	0.005	0.21 mg/kg	
AAB 0284	Borehole H-28D, 7.33-8.0 ft.	Chloromethane	< 10	0	ug/kg	0.01	6.4 mg/kg	
AAB 0284	Borehole H-28D, 7.33-8.0 ft.	Chloronaphthalene [2-]	< 330	0	ug/kg	0.33	6400 mg/kg	
AAB 0284	Borehole H-28D, 7.33-8.0 ft.	Chlorophenol [o-]	< 330	0	ug/kg	0.33	400 mg/kg	
AAB 0284	Borehole H-28D, 7.33-8.0 ft.	Chlorophenylphenyl ether [4-]	< 330	0	ug/kg	NA	b	
AAB 0284	Borehole H-28D, 7.33-8.0 ft.	Chlorotoluene [o-]	< 5	0	ug/kg	0.005	1600 mg/kg	
AAB 0284	Borehole H-28D, 7.33-8.0 ft.	Chlorotoluene [p-]	< 5	0	ug/kg	NA	b	
AAB 0284	Borehole H-28D, 7.33-8.0 ft.	Chromium	8.8	0.9	ug/g	8.8	a	Below Background of 34.74 mg/kg
AAB 0284	Borehole H-28D, 7.33-8.0 ft.	Chrysene	< 330	0	ug/kg	0.33	96 mg/kg	
AAB 0284	Borehole H-28D, 7.33-8.0 ft.	DDD [p,p'-]	27.1	8.13	ug/kg	0.0271	2.9 mg/kg	
AAB 0284	Borehole H-28D, 7.33-8.0 ft.	DDE [p,p'-]	63.7	19.11	ug/kg	0.0637	2.1 mg/kg	
AAB 0284	Borehole H-28D, 7.33-8.0 ft.	DDT [p,p'-]	47.5	14.25	ug/kg	0.0475	2.1 mg/kg	
AAB 0284	Borehole H-28D, 7.33-8.0 ft.	Di-n-butyl phthalate	< 330	0	ug/kg	0.33	8000 mg/kg	
AAB 0284	Borehole H-28D, 7.33-8.0 ft.	Di-n-octyl phthalate	< 330	0	ug/kg	0.33	1600 mg/kg	
AAB 0284	Borehole H-28D, 7.33-8.0 ft.	Dibenzofuran	< 330	0	ug/kg	NA	b	
AAB 0284	Borehole H-28D, 7.33-8.0 ft.	Dibenzo[a,h]anthracene	< 330	0	ug/kg	0.33	0.1 mg/kg	Detection limit is greater than SAL
AAB 0284	Borehole H-28D, 7.33-8.0 ft.	Dibenzo[a,h]anthracene	< 330	0	ug/kg	0.33	0.1 mg/kg	
AAB 0284	Borehole H-28D, 7.33-8.0 ft.	Dibromo-3-chloropropane [1,2-]	< 10	0	ug/kg	0.01	0.5 mg/kg	
AAB 0284	Borehole H-28D, 7.33-8.0 ft.	Dibromoethane [1,2-]	< 5	0	ug/kg	NA	b	
AAB 0284	Borehole H-28D, 7.33-8.0 ft.	Dibromomethane	< 5	0	ug/kg	0.005	0.0082 mg/kg	
AAB 0284	Borehole H-28D, 7.33-8.0 ft.	Dichlorobenzene (1,2) [o-]	< 5	0	ug/kg	0.005	1600 mg/kg	
AAB 0284	Borehole H-28D, 7.33-8.0 ft.	Dichlorobenzene (1,3) [m-]	< 5	0	ug/kg	0.005	7200 mg/kg	
AAB 0284	Borehole H-28D, 7.33-8.0 ft.	Dichlorobenzene (1,4) [p-]	< 330	0	ug/kg	0.33	29 mg/kg	
AAB 0284	Borehole H-28D, 7.33-8.0 ft.	Dichlorobenzidine [3,3'-]	< 330	0	ug/kg	0.33	1.6 mg/kg	
AAB 0284	Borehole H-28D, 7.33-8.0 ft.	Dichlorodifluoromethane	< 10	0	ug/kg	0.01	16000 mg/kg	
AAB 0284	Borehole H-28D, 7.33-8.0 ft.	Dichloroethane [1,1-]	< 5	0	ug/kg	0.005	410 mg/kg	
AAB 0284	Borehole H-28D, 7.33-8.0 ft.	Dichloroethane [1,2-]	< 5	0	ug/kg	0.005	0.2 mg/kg	
AAB 0284	Borehole H-28D, 7.33-8.0 ft.	Dichloroethene [1,1-]	< 5	0	ug/kg	0.005	0.4 mg/kg	
AAB 0284	Borehole H-28D, 7.33-8.0 ft.	Dichloroethene [trans-1,2-]	< 5	0	ug/kg	0.005	1600 mg/kg	
AAB 0284	Borehole H-28D, 7.33-8.0 ft.	Dichloroethylene [cis-1,2-]	< 5	0	ug/kg	0.005	800 mg/kg	
AAB 0284	Borehole H-28D, 7.33-8.0 ft.	Dichlorophenol [2,4-]	< 330	0	ug/kg	0.33	240 mg/kg	
AAB 0284	Borehole H-28D, 7.33-8.0 ft.	Dichloropropane [1,2-]	< 5	0	ug/kg	0.005	6.5 mg/kg	
AAB 0284	Borehole H-28D, 7.33-8.0 ft.	Dichloropropane [1,3-]	< 5	0	ug/kg	NA	b	
AAB 0284	Borehole H-28D, 7.33-8.0 ft.	Dichloropropane [2,2-]	< 5	0	ug/kg	NA	b	
AAB 0284	Borehole H-28D, 7.33-8.0 ft.	Dichloropropene [1,1-]	< 5	0	ug/kg	NA	b	
AAB 0284	Borehole H-28D, 7.33-8.0 ft.	Dichloropropene [cis-1,3-]	< 5	0	ug/kg	0.005	0.17 mg/kg	
AAB 0284	Borehole H-28D, 7.33-8.0 ft.	Dichloropropene [trans-1,3-]	< 5	0	ug/kg	0.005	0.17 mg/kg	
AAB 0284	Borehole H-28D, 7.33-8.0 ft.	Dieldrin	< 3.6	0	ug/kg	0.0036	0.044 mg/kg	
AAB [illegible]	Borehole H-28D, 7.33-8.0 ft.	Diethyl phthalate	< 330	0	ug/kg	0.33	64000 mg/kg	
AAB [illegible]	Borehole H-28D, 7.33-8.0 ft.	Dimethyl phthalate	< 330	0	ug/kg	0.33	800000 mg/kg	
AAB [illegible]	Borehole H-28D, 7.33-8.0 ft.	Dimethylphenol [2,4-]	< 330	0	ug/kg	0.33	1600 mg/kg	

a. Compound should be compared to background levels
b. No SAL or background established
< Analytical result is below detection limit shown to right of symbol
TI Tentatively identified compound
NA Not applicable

Sample ID	Location	Analyte	Sample Value	Analytical Uncertainty	Units	Units Converted (mg/kg or pCi/g)	Screening Action Level	Comments
AAB 0284	Borehole H-28D, 7.33-8.0 ft.	Dinitrophenol [2,4-]	< 330	0	ug/kg	0.33	160 mg/kg	
AAB 0284	Borehole H-28D, 7.33-8.0 ft.	Dinitrotoluene [2,4-]	< 330	0	ug/kg	0.33	1 mg/kg	
AAB 0284	Borehole H-28D, 7.33-8.0 ft.	Dinitrotoluene [2,6-]	< 330	0	ug/kg	0.33	1 mg/kg	
AAB 0284	Borehole H-28D, 7.33-8.0 ft	Endosulfan I	< 1.86	0	ug/kg	NA	b	
AAB 0284	Borehole H-28D, 7.33-8.0 ft.	Endosulfan II	< 3.6	0	ug/kg	NA	b	
AAB 0284	Borehole H-28D, 7.33-8.0 ft.	Endosulfan sulfate	< 3.6	0	ug/kg	0.0036	4 mg/kg	
AAB 0284	Borehole H-28D, 7.33-8.0 ft.	Endrin	< 3.6	0	ug/kg	0.0036	24 mg/kg	
AAB 0284	Borehole H-28D, 7.33-8.0 ft.	Endrin aldehyde	< 3.6	0	ug/kg	NA	b	
AAB 0284	Borehole H-28D, 7.33-8.0 ft.	Endrin ketone	< 3.6	0	ug/kg	NA	b	
AAB 0284	Borehole H-28D, 7.33-8.0 ft.	Ethylbenzene	< 5	0	ug/kg	0.005	3100 mg/kg	
AAB 0284	Borehole H-28D, 7.33-8.0 ft.	Fluoranthene	< 330	0	ug/kg	0.33	3200 mg/kg	
AAB 0284	Borehole H-28D, 7.33-8.0 ft.	Fluorene	< 330	0	ug/kg	0.33	3200 mg/kg	
AAB 0284	Borehole H-28D, 7.33-8.0 ft.	Heptachlor	< 1.86	0	ug/kg	0.00186	0.16 mg/kg	
AAB 0284	Borehole H-28D, 7.33-8.0 ft.	Heptachlor epoxide	< 1.86	0	ug/kg	0.00186	0.077 mg/kg	
AAB 0284	Borehole H-28D, 7.33-8.0 ft.	Hexachlorobenzene	< 330	0	ug/kg	0.33	0.44 mg/kg	
AAB 0284	Borehole H-28D, 7.33-8.0 ft.	Hexachlorobutadiene	< 330	0	ug/kg	0.33	90 mg/kg	
AAB 0284	Borehole H-28D, 7.33-8.0 ft.	Hexachlorocyclopentadiene	< 330	0	ug/kg	0.33	560 mg/kg	
AAB 0284	Borehole H-28D, 7.33-8.0 ft.	Hexachloroethane	< 330	0	ug/kg	0.33	80 mg/kg	
AAB 0284	Borehole H-28D, 7.33-8.0 ft.	Hexanone [2-]	< 20	0	ug/kg	NA	b	
AAB 0284	Borehole H-28D, 7.33-8.0 ft.	Indeno[1,2,3-cd]pyrene	< 330	0	ug/kg	0.33	1 mg/kg	
AAB 0284	Borehole H-28D, 7.33-8.0 ft.	Isophorone	< 330	0	ug/kg	0.33	7400 mg/kg	
AAB 0284	Borehole H-28D, 7.33-8.0 ft.	Isopropylbenzene	< 5	0	ug/kg	0.005	3200 mg/kg	
AAB 0284	Borehole H-28D, 7.33-8.0 ft.	Isopropyltoluene [4-]	< 5	0	ug/kg	NA	b	
AAB 0284	Borehole H-28D, 7.33-8.0 ft.	Lead	12	3	ug/g	12	400 mg/kg	
AAB 0284	Borehole H-28D, 7.33-8.0 ft.	Lindane	< 1.86	0	ug/kg	0.00186	0.54 mg/kg	
AAB 0284	Borehole H-28D, 7.33-8.0 ft.	Mercury	0.1	0.1	ug/g	0.1	24 mg/kg	
AAB 0284	Borehole H-28D, 7.33-8.0 ft.	Methoxychlor	< 18.6	0	ug/kg	0.0186	400 mg/kg	
AAB 0284	Borehole H-28D, 7.33-8.0 ft.	Methyl iodide	< 5	0	ug/kg	NA	b	
AAB 0284	Borehole H-28D, 7.33-8.0 ft.	Methyl-2-pentanone [4-]	< 20	0	ug/kg	0.02	510 mg/kg	
AAB 0284	Borehole H-28D, 7.33-8.0 ft.	Methyl-4,6-dinitrophenol [2-]	< 330	0	ug/kg	NA	b	
AAB 0284	Borehole H-28D, 7.33-8.0 ft.	Methylene chloride	< 5	0	ug/kg	0.005	5.6 mg/kg	
AAB 0284	Borehole H-28D, 7.33-8.0 ft.	Methylnaphthalene [2-]	< 330	0	ug/kg	NA	b	
AAB 0284	Borehole H-28D, 7.33-8.0 ft.	Methylphenol [2-]	< 330	0	ug/kg	0.33	4000 mg/kg	
AAB 0284	Borehole H-28D, 7.33-8.0 ft.	Methylphenol [4-]	< 330	0	ug/kg	0.33	400 mg/kg	
AAB 0284	Borehole H-28D, 7.33-8.0 ft.	Naphthalene	< 330	0	ug/kg	0.33	3200 mg/kg	
AAB 0284	Borehole H-28D, 7.33-8.0 ft.	Nickel	8.3	3.6	ug/g	8.3	1600 mg/kg	
AAB 0284	Borehole H-28D, 7.33-8.0 ft.	Nitroaniline [2-]	< 330	0	ug/kg	NA	b	
AAB 0284	Borehole H-28D, 7.33-8.0 ft.	Nitroaniline [3-]	< 330	0	ug/kg	0.33	240 mg/kg	
AAB 0284	Borehole H-28D, 7.33-8.0 ft.	Nitroaniline [4-]	< 330	0	ug/kg	0.33	240 mg/kg	
AAB 0284	Borehole H-28D, 7.33-8.0 ft.	Nitrobenzene	< 330	0	ug/kg	0.33	5.3 mg/kg	
AAB 0284	Borehole H-28D, 7.33-8.0 ft.	Nitrophenol [2-]	< 330	0	ug/kg	NA	b	
AAB 0284	Borehole H-28D, 7.33-8.0 ft.	Nitrophenol [4-]	< 330	0	ug/kg	0.33	5000 mg/kg	
AAB 0284	Borehole H-28D, 7.33-8.0 ft.	Nitrosodi-n-propylamine [N-]	< 330	0	ug/kg	0.33	0.1 mg/kg	Detection limit is greater than SAL
AAB 0284	Borehole H-28D, 7.33-8.0 ft.	Nitrosodimethylamine [N-]	< 330	0	ug/kg	0.33	0.014 mg/kg	Detection limit is greater than SAL
AAB 0284	Borehole H-28D, 7.33-8.0 ft.	Nitrosodiphenylamine [N-]	< 330	0	ug/kg	0.33	140 mg/kg	
AAB 0284	Borehole H-28D, 7.33-8.0 ft.	Pentachlorophenol	< 330	0	ug/kg	0.33	5.8 mg/kg	
AAB 0284	Borehole H-28D, 7.33-8.0 ft.	Phenanthrene	< 330	0	ug/kg	NA	b	
AAB 0284	Borehole H-28D, 7.33-8.0 ft.	Phenol	< 330	0	ug/kg	0.33	48000 mg/kg	
AAB 0284	Borehole H-28D, 7.33-8.0 ft.	Plutonium-238	0.003	0.002	pCi/g	0.003	20 pCi/g	
AAB 0284	Borehole H-28D, 7.33-8.0 ft.	Plutonium-239	0.071	0.01	pCi/g	0.071	18 pCi/g	
AAB 0284	Borehole H-28D, 7.33-8.0 ft.	Propylbenzene	< 5	0	ug/kg	NA	b	
AAB 0284	Borehole H-28D, 7.33-8.0 ft.	Pyrene	< 330	0	ug/kg	0.33	2400 mg/kg	

a Compound should be compared to background levels
b No SAL or background established
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TI Tentatively identified compound
NA Not applicable

Sample ID	Location	Analyte	Sample Value	Analytical Uncertainty	Units	Units Converted (mg/kg or pCi/g)	Screening Action Level	Comments
AAB 0284	Borehole H-28D, 7.33-8.0 ft.	Selenium	0.4	0.3	ug/g	0.4	400 mg/kg	
AAB 0284	Borehole H-28D, 7.33-8.0 ft.	Silver	< 1	0	ug/g	1	400 mg/kg	
AAB 0284	Borehole H-28D, 7.33-8.0 ft.	Styrene	< 5	0	ug/kg	0.005	3300 mg/kg	
AAB 0284	Borehole H-28D, 7.33-8.0 ft.	Tetrachloroethane [1,1,1,2-]	< 5	0	ug/kg	0.005	270 mg/kg	
AAB 0284	Borehole H-28D, 7.33-8.0 ft.	Tetrachloroethane [1,1,2,2-]	< 5	0	ug/kg	0.005	3.9 mg/kg	
AAB 0284	Borehole H-28D, 7.33-8.0 ft.	Tetrachloroethylene	< 5	0	ug/kg	0.005	5.9 mg/kg	
AAB 0284	Borehole H-28D, 7.33-8.0 ft.	Thallium	< 0.3	0	ug/g	0.3	6.4 mg/kg	
AAB 0284	Borehole H-28D, 7.33-8.0 ft.	Toluene	< 5	0	ug/kg	0.005	910 mg/kg	
AAB 0284	Borehole H-28D, 7.33-8.0 ft.	Toxaphene	< 186	0	ug/kg	0.186	0.64 mg/kg	
AAB 0284	Borehole H-28D, 7.33-8.0 ft.	Trichloro-1,2,2-trifluoroethane [1,1,2-]	< 5	0	ug/kg	NA	b	
AAB 0284	Borehole H-28D, 7.33-8.0 ft.	Trichlorobenzene [1,2,4-]	< 330	0	ug/kg	0.33	160 mg/kg	
AAB 0284	Borehole H-28D, 7.33-8.0 ft.	Trichloroethane [1,1,1-]	< 5	0	ug/kg	0.005	1000 mg/kg	
AAB 0284	Borehole H-28D, 7.33-8.0 ft.	Trichloroethane [1,1,2-]	< 5	0	ug/kg	0.005	6.3 mg/kg	
AAB 0284	Borehole H-28D, 7.33-8.0 ft.	Trichloroethene	< 5	0	ug/kg	0.005	3.2 mg/kg	
AAB 0284	Borehole H-28D, 7.33-8.0 ft.	Trichlorofluoromethane	< 5	0	ug/kg	0.005	24000 mg/kg	
AAB 0284	Borehole H-28D, 7.33-8.0 ft.	Trichlorophenol [2,4,5-]	< 330	0	ug/kg	0.33	8000 mg/kg	
AAB 0284	Borehole H-28D, 7.33-8.0 ft.	Trichlorophenol [2,4,6-]	< 330	0	ug/kg	0.33	64 mg/kg	
AAB 0284	Borehole H-28D, 7.33-8.0 ft.	Trichloropropane [1,2,3-]	< 5	0	ug/kg	0.005	480 mg/kg	
AAB 0284	Borehole H-28D, 7.33-8.0 ft.	Trimethylbenzene [1,2,4-]	< 5	0	ug/kg	0.005	40 mg/kg	
AAB 0284	Borehole H-28D, 7.33-8.0 ft.	Trimethylbenzene [1,3,5-]	< 5	0	ug/kg	0.005	32 mg/kg	
AAB 0284	Borehole H-28D, 7.33-8.0 ft.	Uranium	3.8	0.76	mg/kg	3.8	a	Below Background of 3.41 mg/kg
AAB 0284	Borehole H-28D, 7.33-8.0 ft.	Vinyl chloride	< 10	0	ug/kg	0.01	0.013 mg/kg	
AAB 0284	Borehole H-28D, 7.33-8.0 ft.	Xylenes (o + m + p) [Mixed-]	< 5	0	ug/kg	0.005	160000 mg/kg	
AAB 0286	Borehole H-26, 6.0-6.5 ft.	Acenaphthene	< 330	0	ug/kg	0.33	4800 mg/kg	
AAB 0286	Borehole H-26, 6.0-6.5 ft.	Acenaphthylene	< 330	0	ug/kg	NA	b	
AAB 0286	Borehole H-26, 6.0-6.5 ft.	Acetone	< 20	0	ug/kg	0.02	8000 mg/kg	
AAB 0286	Borehole H-26, 6.0-6.5 ft.	Aldrin	< 1.91	0	ug/kg	0.00191	0.04 mg/kg	
AAB 0286	Borehole H-26, 6.0-6.5 ft.	Americium-241	0.006	0.002	pCi/g	0.006	17 pCi/g	
AAB 0286	Borehole H-26, 6.0-6.5 ft.	Aniline	< 330	0	ug/kg	0.33	120 mg/kg	
AAB 0286	Borehole H-26, 6.0-6.5 ft.	Anthracene	< 330	0	ug/kg	0.33	24000 mg/kg	
AAB 0286	Borehole H-26, 6.0-6.5 ft.	Antimony	< 0.3	0	ug/g	0.3	32 mg/kg	
AAB 0286	Borehole H-26, 6.0-6.5 ft.	Aroclor 1016	< 37.1	0	ug/kg	NA	b	
AAB 0286	Borehole H-26, 6.0-6.5 ft.	Aroclor 1221	< 75.3	0	ug/kg	NA	b	
AAB 0286	Borehole H-26, 6.0-6.5 ft.	Aroclor 1232	< 37.1	0	ug/kg	NA	b	
AAB 0286	Borehole H-26, 6.0-6.5 ft.	Aroclor 1242	< 0.2754	0	ug/g	NA	b	
AAB 0286	Borehole H-26, 6.0-6.5 ft.	Aroclor 1242	< 37.1	0	ug/kg	NA	b	
AAB 0286	Borehole H-26, 6.0-6.5 ft.	Aroclor 1248	< 37.1	0	ug/kg	NA	b	
AAB 0286	Borehole H-26, 6.0-6.5 ft.	Aroclor 1254	< 0.2754	0	ug/g	NA	b	
AAB 0286	Borehole H-26, 6.0-6.5 ft.	Aroclor 1254	< 37.1	0	ug/kg	NA	b	
AAB 0286	Borehole H-26, 6.0-6.5 ft.	Aroclor 1260	< 0.2754	0	ug/g	NA	b	
AAB 0286	Borehole H-26, 6.0-6.5 ft.	Aroclor 1260	< 37.1	0	ug/kg	NA	b	
AAB 0286	Borehole H-26, 6.0-6.5 ft.	Aroclor [Mixed-]	< 0.2754	0	ug/g	0.2754	0.09 mg/kg	Detection limit is greater than SAL
AAB 0286	Borehole H-26, 6.0-6.5 ft.	Arsenic	2.2	0.4	ug/g	2.2	a	Below Background of 5.04 mg/kg
AAB 0286	Borehole H-26, 6.0-6.5 ft.	Azobenzene	< 330	0	ug/kg	0.33	6.4 mg/kg	
AAB 0286	Borehole H-26, 6.0-6.5 ft.	Barium	86	9	ug/g	86	5600 mg/kg	
AAB 0286	Borehole H-26, 6.0-6.5 ft.	Benzene	< 5	0	ug/kg	0.005	0.67 mg/kg	
AAB 0286	Borehole H-26, 6.0-6.5 ft.	Benzidine [m-]	< 330	0	ug/kg	0.33	0.003 mg/kg	Detection limit is greater than SAL
AAB 0286	Borehole H-26, 6.0-6.5 ft.	Benzoic acid	< 330	0	ug/kg	0.33	320000 mg/kg	
AAB 0286	Borehole H-26, 6.0-6.5 ft.	Benzo[a]anthracene	< 330	0	ug/kg	0.33	1 mg/kg	
AAB 0286	Borehole H-26, 6.0-6.5 ft.	Benzo[a]pyrene	< 330	0	ug/kg	0.33	0.1 mg/kg	Detection limit is greater than SAL
AAB 0286	Borehole H-26, 6.0-6.5 ft.	Benzo[b]fluoranthene	< 330	0	ug/kg	0.33	1 mg/kg	
AAB 0286	Borehole H-26, 6.0-6.5 ft.	Benzo[g,h,i]perylene	< 330	0	ug/kg	NA	b	

a Compound should be compared to background levels
b No SAL or background established
< Analytical result is below detection limit shown to right of symbol
TI Tentatively identified compound
NA Not applicable

Sample ID	Location	Analyte	Sample Value	Analytical Uncertainty	Units	Units Converted (mg/kg or pCi/g)	Screening Action Level	Comments
AAB 0286	Borehole H-26, 6.0-6.5 ft.	Benzo[k]fluoranthene	< 330	0	ug/kg	0.33	1 mg/kg	
AAB 0286	Borehole H-26, 6.0-6.5 ft.	Benzyl alcohol	< 330	0	ug/kg	0.33	24000 mg/kg	
AAB 0286	Borehole H-26, 6.0-6.5 ft.	Beryllium	0.51	0.05	ug/g	0.51	a	Below Background of 2.37 mg/kg
AAB 0286	Borehole H-26, 6.0-6.5 ft.	BHC [alpha-]	< 1.91	0	ug/kg	0.00191	0.1 mg/kg	
AAB 0286	Borehole H-26, 6.0-6.5 ft.	BHC [beta-]	< 1.91	0	ug/kg	0.00191	4 mg/kg	
AAB 0286	Borehole H-26, 6.0-6.5 ft.	BHC [delta-]	< 1.91	0	ug/kg	NA	b	
AAB 0286	Borehole H-26, 6.0-6.5 ft.	Bis(2-chloroethoxy)methane	< 330	0	ug/kg	NA	b	
AAB 0286	Borehole H-26, 6.0-6.5 ft.	Bis(2-chloroethyl)ether	< 330	0	ug/kg	0.33	0.12 mg/kg	Detection limit is greater than SAL
AAB 0286	Borehole H-26, 6.0-6.5 ft.	Bis(2-chloroethyl)ether	< 330	0	ug/kg	0.33	0.12 mg/kg	
AAB 0286	Borehole H-26, 6.0-6.5 ft.	Bis(2-chloroisopropyl)ether	< 330	0	ug/kg	0.33	100 mg/kg	
AAB 0286	Borehole H-26, 6.0-6.5 ft.	Bis(2-ethylhexyl)phthalate	< 330	0	ug/kg	0.33	50 mg/kg	
AAB 0286	Borehole H-26, 6.0-6.5 ft.	Bromobenzene	< 5	0	ug/kg	NA	b	
AAB 0286	Borehole H-26, 6.0-6.5 ft.	Bromochloromethane	< 5	0	ug/kg	NA	b	
AAB 0286	Borehole H-26, 6.0-6.5 ft.	Bromodichloromethane	< 5	0	ug/kg	0.005	11 mg/kg	
AAB 0286	Borehole H-26, 6.0-6.5 ft.	Bromoform	< 5	0	ug/kg	0.005	89 mg/kg	
AAB 0286	Borehole H-26, 6.0-6.5 ft.	Bromomethane	< 10	0	ug/kg	0.01	0.43 mg/kg	
AAB 0286	Borehole H-26, 6.0-6.5 ft.	Bromophenylphenyl ether [4-]	< 330	0	ug/kg	NA	b	
AAB 0286	Borehole H-26, 6.0-6.5 ft.	Butanone [2-]	< 23	0	ug/kg	0.023	4000 mg/kg	
AAB 0286	Borehole H-26, 6.0-6.5 ft.	Butyl benzyl phthalate	< 330	0	ug/kg	0.33	16000 mg/kg	
AAB 0286	Borehole H-26, 6.0-6.5 ft.	Butylbenzene [n-]	< 5	0	ug/kg	NA	b	
AAB 0286	Borehole H-26, 6.0-6.5 ft.	Butylbenzene [sec-]	< 5	0	ug/kg	NA	b	
AAB 0286	Borehole H-26, 6.0-6.5 ft.	Butylbenzene [tert-]	< 5	0	ug/kg	NA	b	
AAB 0286	Borehole H-26, 6.0-6.5 ft.	Cadmium	0.3	0.2	ug/g	0.3	80 mg/kg	
AAB 0286	Borehole H-26, 6.0-6.5 ft.	Carbon disulfide	< 5	0	ug/kg	0.005	7.4 mg/kg	
AAB 0286	Borehole H-26, 6.0-6.5 ft.	Carbon tetrachloride	< 5	0	ug/kg	0.005	0.21 mg/kg	
AAB 0286	Borehole H-26, 6.0-6.5 ft.	Chlordane [alpha-]	< 1.91	0	ug/kg	NA	b	
AAB 0286	Borehole H-26, 6.0-6.5 ft.	Chlordane [gamma-]	< 1.91	0	ug/kg	NA	b	
AAB 0286	Borehole H-26, 6.0-6.5 ft.	Chloro-3-methylphenol [4-]	< 330	0	ug/kg	0.33	16000 mg/kg	
AAB 0286	Borehole H-26, 6.0-6.5 ft.	Chloroaniline [4-]	< 330	0	ug/kg	0.33	320 mg/kg	
AAB 0286	Borehole H-26, 6.0-6.5 ft.	Chlorobenzene	< 5	0	ug/kg	0.005	67 mg/kg	
AAB 0286	Borehole H-26, 6.0-6.5 ft.	Chlorodibromomethane	< 5	0	ug/kg	0.005	83 mg/kg	
AAB 0286	Borehole H-26, 6.0-6.5 ft.	Chloroethane	< 10	0	ug/kg	0.01	2900 mg/kg	
AAB 0286	Borehole H-26, 6.0-6.5 ft.	Chloroform	< 5	0	ug/kg	0.005	0.21 mg/kg	
AAB 0286	Borehole H-26, 6.0-6.5 ft.	Chloromethane	< 10	0	ug/kg	0.01	6.4 mg/kg	
AAB 0286	Borehole H-26, 6.0-6.5 ft.	Chloronaphthalene [2-]	< 330	0	ug/kg	0.33	6400 mg/kg	
AAB 0286	Borehole H-26, 6.0-6.5 ft.	Chlorophenol [o-]	< 330	0	ug/kg	0.33	400 mg/kg	
AAB 0286	Borehole H-26, 6.0-6.5 ft.	Chlorophenylphenyl ether [4-]	< 330	0	ug/kg	NA	b	
AAB 0286	Borehole H-26, 6.0-6.5 ft.	Chlorotoluene [o-]	< 5	0	ug/kg	0.005	1600 mg/kg	
AAB 0286	Borehole H-26, 6.0-6.5 ft.	Chlorotoluene [p-]	< 5	0	ug/kg	NA	b	
AAB 0286	Borehole H-26, 6.0-6.5 ft.	Chromium	4.1	0.9	ug/g	4.1	a	Below Background of 34.74 mg/kg
AAB 0286	Borehole H-26, 6.0-6.5 ft.	Chrysene	< 330	0	ug/kg	0.33	96 mg/kg	
AAB 0286	Borehole H-26, 6.0-6.5 ft.	DDD [p,p'-]	125	37.5	ug/kg	0.125	2.9 mg/kg	
AAB 0286	Borehole H-26, 6.0-6.5 ft.	DDE [p,p'-]	< 3.71	0	ug/kg	0.00371	2.1 mg/kg	
AAB 0286	Borehole H-26, 6.0-6.5 ft.	DDT [p,p'-]	69.2	20.76	ug/kg	0.0692	2.1 mg/kg	
AAB 0286	Borehole H-26, 6.0-6.5 ft.	Di-n-butyl phthalate	< 330	0	ug/kg	0.33	8000 mg/kg	
AAB 0286	Borehole H-26, 6.0-6.5 ft.	Di-n-octyl phthalate	< 330	0	ug/kg	0.33	1600 mg/kg	
AAB 0286	Borehole H-26, 6.0-6.5 ft.	Dibenzofuran	< 330	0	ug/kg	NA	b	
AAB 0286	Borehole H-26, 6.0-6.5 ft.	Dibenzo[a,h]anthracene	< 330	0	ug/kg	0.33	0.1 mg/kg	Detection limit is greater than SAL
AAB 0286	Borehole H-26, 6.0-6.5 ft.	Dibromo-3-chloropropane [1,2-]	< 10	0	ug/kg	0.01	0.5 mg/kg	
AAB 0286	Borehole H-26, 6.0-6.5 ft.	Dibromoethane [1,2-]	< 5	0	ug/kg	NA	b	
AAB 0286	Borehole H-26, 6.0-6.5 ft.	Dibromomethane	< 5	0	ug/kg	0.005	0.0082 mg/kg	
AAB 0286	Borehole H-26, 6.0-6.5 ft.	Dichlorobenzene (1,2) [o-]	< 5	0	ug/kg	0.005	1600 mg/kg	

a Compound should be compared to background levels
b. No SAL or background established
< Analytical result is below detection limit shown to right of symbol
TI Tentatively identified compound
NA Not applicable

Sample ID	Location	Analyte	Sample Value	Analytical Uncertainty	Units	Units Converted (mg/kg or pCi/g)	Screening Action Level	Comments
AAB 0286	Borehole H-26, 6.0-6.5 ft.	Dichlorobenzene (1,3) [m-]	< 330	0	ug/kg	0.33	7200 mg/kg	
AAB 0286	Borehole H-26, 6.0-6.5 ft.	Dichlorobenzene (1,4) [p-]	< 330	0	ug/kg	0.33	29 mg/kg	
AAB 0286	Borehole H-26, 6.0-6.5 ft.	Dichlorobenzidine [3,3'-]	< 330	0	ug/kg	0.33	1.6 mg/kg	
AAB 0286	Borehole H-26, 6.0-6.5 ft.	Dichlorodifluoromethane	< 10	0	ug/kg	0.01	16000 mg/kg	
AAB 0286	Borehole H-26, 6.0-6.5 ft.	Dichloroethane [1,1-]	< 5	0	ug/kg	0.005	410 mg/kg	
AAB 0286	Borehole H-26, 6.0-6.5 ft.	Dichloroethane [1,2-]	< 5	0	ug/kg	0.005	0.2 mg/kg	
AAB 0286	Borehole H-26, 6.0-6.5 ft.	Dichloroethene [1,1-]	< 5	0	ug/kg	0.005	0.4 mg/kg	
AAB 0286	Borehole H-26, 6.0-6.5 ft.	Dichloroethene [trans-1,2-]	< 5	0	ug/kg	0.005	1600 mg/kg	
AAB 0286	Borehole H-26, 6.0-6.5 ft.	Dichloroethylene [cis-1,2-]	< 5	0	ug/kg	0.005	800 mg/kg	
AAB 0286	Borehole H-26, 6.0-6.5 ft.	Dichlorophenol [2,4-]	< 330	0	ug/kg	0.33	240 mg/kg	
AAB 0286	Borehole H-26, 6.0-6.5 ft.	Dichloropropane [1,2-]	< 5	0	ug/kg	0.005	6.5 mg/kg	
AAB 0286	Borehole H-26, 6.0-6.5 ft.	Dichloropropane [1,3-]	< 5	0	ug/kg	NA	b	
AAB 0286	Borehole H-26, 6.0-6.5 ft.	Dichloropropane [2,2-]	< 5	0	ug/kg	NA	b	
AAB 0286	Borehole H-26, 6.0-6.5 ft.	Dichloropropene [1,1-]	< 5	0	ug/kg	NA	b	
[illegible]0286	Borehole H-26, 6.0-6.5 ft.	Dichloropropene [cis-1,3-]	< 5	0	ug/kg	0.005	0.17 mg/kg	
[illegible]0286	Borehole H-26, 6.0-6.5 ft.	Dichloropropene [trans-1,3-]	< 5	0	ug/kg	0.005	0.17 mg/kg	
AAB 0286	Borehole H-26, 6.0-6.5 ft.	Dieldrin	< 3.71	0	ug/kg	0.00371	0.044 mg/kg	
AAB 0286	Borehole H-26, 6.0-6.5 ft.	Diethyl phthalate	< 330	0	ug/kg	0.33	64000 mg/kg	
AAB 0286	Borehole H-26, 6.0-6.5 ft.	Dimethyl phthalate	< 330	0	ug/kg	0.33	800000 mg/kg	
AAB 0286	Borehole H-26, 6.0-6.5 ft.	Dimethylphenol [2,4-]	< 330	0	ug/kg	0.33	1600 mg/kg	
AAB 0286	Borehole H-26, 6.0-6.5 ft.	Dinitrophenol [2,4-]	< 330	0	ug/kg	0.33	160 mg/kg	
AAB 0286	Borehole H-26, 6.0-6.5 ft.	Dinitrotoluene [2,4-]	< 330	0	ug/kg	0.33	1 mg/kg	
AAB 0286	Borehole H-26, 6.0-6.5 ft.	Dinitrotoluene [2,6-]	< 330	0	ug/kg	0.33	1 mg/kg	
AAB 0286	Borehole H-26, 6.0-6.5 ft.	Endosulfan I	< 1.91	0	ug/kg	NA	b	
AAB 0286	Borehole H-26, 6.0-6.5 ft.	Endosulfan II	< 3.71	0	ug/kg	NA	b	
AAB 0286	Borehole H-26, 6.0-6.5 ft.	Endosulfan sulfate	< 3.71	0	ug/kg	0.00371	4 mg/kg	
AAB 0286	Borehole H-26, 6.0-6.5 ft.	Endrin	74.3	22.29	ug/kg	0.0743	24 mg/kg	
AAB 0286	Borehole H-26, 6.0-6.5 ft.	Endrin aldehyde	5.34	1.602	ug/kg	NA	b	
AAB 0286	Borehole H-26, 6.0-6.5 ft.	Endrin aldehyde	5.34	1.602	ug/kg	NA	b	
AAB 0286	Borehole H-26, 6.0-6.5 ft.	Endrin ketone	< 3.71	0	ug/kg	NA	b	
AAB 0286	Borehole H-26, 6.0-6.5 ft.	Ethylbenzene	< 5	0	ug/kg	0.005	3100 mg/kg	
AAB 0286	Borehole H-26, 6.0-6.5 ft.	Fluoranthene	< 330	0	ug/kg	0.33	3200 mg/kg	
AAB 0286	Borehole H-26, 6.0-6.5 ft.	Fluorene	< 330	0	ug/kg	0.33	3200 mg/kg	
AAB 0286	Borehole H-26, 6.0-6.5 ft.	Heptachlor	< 1.91	0	ug/kg	0.00191	0.16 mg/kg	
AAB 0286	Borehole H-26, 6.0-6.5 ft.	Heptachlor epoxide	< 1.91	0	ug/kg	0.00191	0.077 mg/kg	
AAB 0286	Borehole H-26, 6.0-6.5 ft.	Hexachlorobenzene	< 330	0	ug/kg	0.33	0.44 mg/kg	
[illegible] 0286	Borehole H-26, 6.0-6.5 ft.	Hexachlorobutadiene	< 330	0	ug/kg	0.33	90 mg/kg	
[illegible] 0286	Borehole H-26, 6.0-6.5 ft.	Hexachlorocyclopentadiene	< 330	0	ug/kg	0.33	560 mg/kg	
AAB 0286	Borehole H-26, 6.0-6.5 ft.	Hexachloroethane	< 330	0	ug/kg	0.33	80 mg/kg	
AAB 0286	Borehole H-26, 6.0-6.5 ft.	Hexanone [2-]	< 20	0	ug/kg	NA	b	
AAB 0286	Borehole H-26, 6.0-6.5 ft.	Indeno[1,2,3-cd]pyrene	< 330	0	ug/kg	0.33	1 mg/kg	
AAB 0286	Borehole H-26, 6.0-6.5 ft.	Isophorone	< 330	0	ug/kg	0.33	7400 mg/kg	
AAB 0286	Borehole H-26, 6.0-6.5 ft.	Isopropylbenzene	< 5	0	ug/kg	0.005	3200 mg/kg	
AAB 0286	Borehole H-26, 6.0-6.5 ft.	Isopropyltoluene [4-]	< 5	0	ug/kg	NA	b	
AAB 0286	Borehole H-26, 6.0-6.5 ft.	Lead	11	4	ug/g	11	400 mg/kg	
AAB 0286	Borehole H-26, 6.0-6.5 ft.	Lindane	< 1.91	0	ug/kg	0.00191	0.54 mg/kg	
AAB 0286	Borehole H-26, 6.0-6.5 ft.	Mercury	0.1	0.1	ug/g	0.1	24 mg/kg	
AAB 0286	Borehole H-26, 6.0-6.5 ft.	Methoxychlor	< 19.1	0	ug/kg	0.0191	400 mg/kg	
AAB 0286	Borehole H-26, 6.0-6.5 ft.	Methyl iodide	< 5	0	ug/kg	NA	b	
AAB 0286	Borehole H-26, 6.0-6.5 ft.	Methyl-2-pentanone [4-]	< 20	0	ug/kg	0.02	510 mg/kg	
AAB 0286	Borehole H-26, 6.0-6.5 ft.	Methyl-4,6-dinitrophenol [2-]	< 330	0	ug/kg	NA	b	
AAB 0286	Borehole H-26, 6.0-6.5 ft.	Methylene chloride	< 5	0	ug/kg	0.005	5.6 mg/kg	

a. Compound should be compared to background levels
b. No SAL or background established
< Analytical result is below detection limit shown to right of symbol
TI Tentatively identified compound
NA Not applicable

Sample ID	Location	Analyte	Sample Value	Analytical Uncertainty	Units	Units Converted (mg/kg or pCi/g)	Screening Action Level	Comments
AAB 0286	Borehole H-26, 6.0-6.5 ft.	Methylnaphthalene [2-]	< 330	0	ug/kg	NA	b	
AAB 0286	Borehole H-26, 6.0-6.5 ft.	Methylphenol [2-]	< 330	0	ug/kg	0.33	4000 mg/kg	
AAB 0286	Borehole H-26, 6.0-6.5 ft.	Methylphenol [4-]	< 330	0	ug/kg	0.33	400 mg/kg	
AAB 0286	Borehole H-26, 6.0-6.5 ft.	Naphthalene	< 330	0	ug/kg	0.33	3200 mg/kg	
AAB 0286	Borehole H-26, 6.0-6.5 ft.	Nickel	6.2	0.7	ug/g	6.2	1600 mg/kg	
AAB 0286	Borehole H-26, 6.0-6.5 ft.	Nitroaniline [2-]	< 330	0	ug/kg	NA	b	
AAB 0286	Borehole H-26, 6.0-6.5 ft.	Nitroaniline [3-]	< 330	0	ug/kg	0.33	240 mg/kg	
AAB 0286	Borehole H-26, 6.0-6.5 ft.	Nitroaniline [4-]	< 330	0	ug/kg	0.33	240 mg/kg	
AAB 0286	Borehole H-26, 6.0-6.5 ft.	Nitrobenzene	< 330	0	ug/kg	0.33	5.3 mg/kg	
AAB 0286	Borehole H-26, 6.0-6.5 ft.	Nitrophenol [2-]	< 330	0	ug/kg	NA	b	
AAB 0286	Borehole H-26, 6.0-6.5 ft.	Nitrophenol [4-]	< 330	0	ug/kg	0.33	5000 mg/kg	
AAB 0286	Borehole H-26, 6.0-6.5 ft.	Nitrosodi-n-propylamine [N-]	< 330	0	ug/kg	0.33	0.1 mg/kg	Detection limit is greater than SAL
AAB 0286	Borehole H-26, 6.0-6.5 ft.	Nitrosodimethylamine [N-]	< 330	0	ug/kg	0.33	0.014 mg/kg	Detection limit is greater than SAL
AAB 0286	Borehole H-26, 6.0-6.5 ft.	Nitrosodiphenylamine [N-]	< 330	0	ug/kg	0.33	140 mg/kg	
AAB 0286	Borehole H-26, 6.0-6.5 ft.	Pentachlorophenol	< 330	0	ug/kg	0.33	5.8 mg/kg	
AAB 0286	Borehole H-26, 6.0-6.5 ft.	Phenanthrene	< 330	0	ug/kg	NA	b	
AAB 0286	Borehole H-26, 6.0-6.5 ft.	Phenol	< 330	0	ug/kg	0.33	48000 mg/kg	
AAB 0286	Borehole H-26, 6.0-6.5 ft.	Plutonium-238	0.002	0.0015	pCi/g	0.002	20 pCi/g	
AAB 0286	Borehole H-26, 6.0-6.5 ft.	Plutonium-239	0.087	0.0115	pCi/g	0.087	18 pCi/g	
AAB 0286	Borehole H-26, 6.0-6.5 ft.	Propylbenzene	< 5	0	ug/kg	NA	b	
AAB 0286	Borehole H-26, 6.0-6.5 ft.	Pyrene	< 330	0	ug/kg	0.33	2400 mg/kg	
AAB 0286	Borehole H-26, 6.0-6.5 ft.	Selenium	0.3	0.3	ug/g	0.3	400 mg/kg	
AAB 0286	Borehole H-26, 6.0-6.5 ft.	Silver	< 1	0	ug/g	1	400 mg/kg	
AAB 0286	Borehole H-26, 6.0-6.5 ft.	Styrene	< 5	0	ug/kg	0.005	3300 mg/kg	
AAB 0286	Borehole H-26, 6.0-6.5 ft.	Tetrachloroethane [1,1,1,2-]	< 5	0	ug/kg	0.005	270 mg/kg	
AAB 0286	Borehole H-26, 6.0-6.5 ft.	Tetrachloroethane [1,1,2,2-]	< 5	0	ug/kg	0.005	3.9 mg/kg	
AAB 0286	Borehole H-26, 6.0-6.5 ft.	Tetrachloroethylene	< 5	0	ug/kg	0.005	5.9 mg/kg	
AAB 0286	Borehole H-26, 6.0-6.5 ft.	Thallium	< 0.3	0	ug/g	0.3	6.4 mg/kg	
AAB 0286	Borehole H-26, 6.0-6.5 ft.	Toluene	< 5	0	ug/kg	0.005	910 mg/kg	
AAB 0286	Borehole H-26, 6.0-6.5 ft.	Toxaphene	< 191	0	ug/kg	0.191	0.64 mg/kg	
AAB 0286	Borehole H-26, 6.0-6.5 ft.	Trichloro-1,2,2-trifluoroethane [1,1,2-]	< 5	0	ug/kg	NA	b	
AAB 0286	Borehole H-26, 6.0-6.5 ft.	Trichlorobenzene [1,2,4-]	< 330	0	ug/kg	0.33	160 mg/kg	
AAB 0286	Borehole H-26, 6.0-6.5 ft.	Trichloroethane [1,1,1-]	< 5	0	ug/kg	0.005	1000 mg/kg	
AAB 0286	Borehole H-26, 6.0-6.5 ft.	Trichloroethane [1,1,2-]	< 5	0	ug/kg	0.005	6.3 mg/kg	
AAB 0286	Borehole H-26, 6.0-6.5 ft.	Trichloroethene	< 5	0	ug/kg	0.005	3.2 mg/kg	
AAB 0286	Borehole H-26, 6.0-6.5 ft.	Trichlorofluoromethane	< 5	0	ug/kg	0.005	24000 mg/kg	
AAB 0286	Borehole H-26, 6.0-6.5 ft.	Trichlorophenol [2,4,5-]	< 330	0	ug/kg	0.33	8000 mg/kg	
AAB 0286	Borehole H-26, 6.0-6.5 ft.	Trichlorophenol [2,4,6-]	< 330	0	ug/kg	0.33	64 mg/kg	
AAB 0286	Borehole H-26, 6.0-6.5 ft.	Trichloropropane [1,2,3-]	< 5	0	ug/kg	0.005	480 mg/kg	
AAB 0286	Borehole H-26, 6.0-6.5 ft.	Trimethylbenzene [1,2,4-]	< 5	0	ug/kg	0.005	40 mg/kg	
AAB 0286	Borehole H-26, 6.0-6.5 ft.	Trimethylbenzene [1,3,5-]	< 5	0	ug/kg	0.005	32 mg/kg	
AAB 0286	Borehole H-26, 6.0-6.5 ft.	Uranium	3.8	0.76	mg/kg	3.8	a	Below Background of 3.41 mg/kg
AAB 0286	Borehole H-26, 6.0-6.5 ft.	Vinyl chloride	< 10	0	ug/kg	0.01	0.013 mg/kg	
AAB 0286	Borehole H-26, 6.0-6.5 ft.	Xylenes (o + m + p) [Mixed-]	< 5	0	ug/kg	0.005	160000 mg/kg	
AAB 0288	Borehole H-27D, 4.0-4.25 ft.	Acenaphthene	< 330	0	ug/kg	0.33	4800 mg/kg	
AAB 0288	Borehole H-27D, 4.0-4.25 ft.	Acenaphthylene	< 330	0	ug/kg	NA	b	
AAB 0288	Borehole H-27D, 4.0-4.25 ft.	Acetone	56	16.8	ug/kg	0.056	8000 mg/kg	
AAB 0288	Borehole H-27D, 4.0-4.25 ft.	Aldrin	< 1.88	0	ug/kg	0.00188	0.04 mg/kg	
AAB 0288	Borehole H-27D, 4.0-4.25 ft.	Americium-241	0.003	0.0015	pCi/g	0.003	17 pCi/g	
AAB 0288	Borehole H-27D, 4.0-4.25 ft.	Aniline	< 330	0	ug/kg	0.33	120 mg/kg	
AAB 0288	Borehole H-27D, 4.0-4.25 ft.	Anthracene	< 330	0	ug/kg	0.33	24000 mg/kg	
AAB 0288	Borehole H-27D, 4.0-4.25 ft.	Antimony	< 0.3	0	ug/g	0.3	32 mg/kg	

a Compound should be compared to background levels
b No SAL or background established
< Analytical result is below detection limit shown to right of symbol
TI Tentatively identified compound
NA Not applicable

Sample ID	Location	Analyte	Sample Value	Analytical Uncertainty	Units	Units Converted (mg/kg or pCi/g)	Screening Action Level	Comments
AAB 0288	Borehole H-27D, 4.0-4.25 ft.	Aroclor 1016	< 36.6	0	ug/kg	NA	b	
AAB 0288	Borehole H-27D, 4.0-4.25 ft.	Aroclor 1221	< 74.3	0	ug/kg	NA	b	
AAB 0288	Borehole H-27D, 4.0-4.25 ft.	Aroclor 1232	< 36.6	0	ug/kg	NA	b	
AAB 0288	Borehole H-27D, 4.0-4.25 ft.	Aroclor 1242	< 0.2528	0	ug/g	NA	b	
AAB 0288	Borehole H-27D, 4.0-4.25 ft.	Aroclor 1242	< 36.6	0	ug/kg	NA	b	
AAB 0288	Borehole H-27D, 4.0-4.25 ft.	Aroclor 1248	< 36.6	0	ug/kg	NA	b	
AAB 0288	Borehole H-27D, 4.0-4.25 ft.	Aroclor 1254	< 0.2528	0	ug/g	NA	b	
AAB 0288	Borehole H-27D, 4.0-4.25 ft.	Aroclor 1254	< 36.6	0	ug/kg	NA	b	
AAB 0288	Borehole H-27D, 4.0-4.25 ft.	Aroclor 1260	< 0.2528	0	ug/g	NA	b	
AAB 0288	Borehole H-27D, 4.0-4.25 ft.	Aroclor 1260	< 36.6	0	ug/kg	NA	b	
AAB 0288	Borehole H-27D, 4.0-4.25 ft.	Aroclor [Mixed-]	< 0.2528	0	ug/g	0.2528	0.09 mg/kg	Detection limit is greater than SAL
AAB 0288	Borehole H-27D, 4.0-4.25 ft.	Arsenic	1.7	0.3	ug/g	1.7	a	Below Background of 5.04 mg/kg
AAB 0288	Borehole H-27D, 4.0-4.25 ft.	Azobenzene	< 330	0	ug/kg	0.33	6.4 mg/kg	
AAB 0288	Borehole H-27D, 4.0-4.25 ft.	Barium	85	8	ug/g	85	5600 mg/kg	
AAB 0288	Borehole H-27D, 4.0-4.25 ft.	Benzene	< 5	0	ug/kg	0.005	0.67 mg/kg	
AAB 0288	Borehole H-27D, 4.0-4.25 ft.	Benzidine [m-]	< 330	0	ug/kg	0.33	0.003 mg/kg	Detection limit is greater than SAL
AAB 0288	Borehole H-27D, 4.0-4.25 ft.	Benzoic acid	< 330	0	ug/kg	0.33	320000 mg/kg	
AAB 0288	Borehole H-27D, 4.0-4.25 ft.	Benzo[a]anthracene	< 330	0	ug/kg	0.33	1 mg/kg	
AAB 0288	Borehole H-27D, 4.0-4.25 ft.	Benzo[a]pyrene	< 330	0	ug/kg	0.33	0.1 mg/kg	Detection limit is greater than SAL
AAB 0288	Borehole H-27D, 4.0-4.25 ft.	Benzo[b]fluoranthene	< 330	0	ug/kg	0.33	1 mg/kg	
AAB 0288	Borehole H-27D, 4.0-4.25 ft.	Benzo[g,h,i]perylene	< 330	0	ug/kg	NA	b	
AAB 0288	Borehole H-27D, 4.0-4.25 ft.	Benzo[k]fluoranthene	< 330	0	ug/kg	0.33	1 mg/kg	
AAB 0288	Borehole H-27D, 4.0-4.25 ft.	Benzyl alcohol	< 330	0	ug/kg	0.33	24000 mg/kg	
AAB 0288	Borehole H-27D, 4.0-4.25 ft.	Beryllium	0.61	0.09	ug/g	0.61	a	Below Background of 2.37 mg/kg
AAB 0288	Borehole H-27D, 4.0-4.25 ft.	BHC [alpha-]	< 1.88	0	ug/kg	0.00188	0.1 mg/kg	
AAB 0288	Borehole H-27D, 4.0-4.25 ft.	BHC [beta-]	< 1.88	0	ug/kg	0.00188	4 mg/kg	
AAB 0288	Borehole H-27D, 4.0-4.25 ft.	BHC [delta-]	< 1.88	0	ug/kg	NA	b	
AAB 0288	Borehole H-27D, 4.0-4.25 ft.	Bis(2-chloroethoxy)methane	< 330	0	ug/kg	NA	b	
AAB 0288	Borehole H-27D, 4.0-4.25 ft.	Bis(2-chloroethyl)ether	< 330	0	ug/kg	0.33	0.12 mg/kg	Detection limit is greater than SAL
AAB 0288	Borehole H-27D, 4.0-4.25 ft.	Bis(2-chloroisopropyl)ether	< 330	0	ug/kg	0.33	100 mg/kg	
AAB 0288	Borehole H-27D, 4.0-4.25 ft.	Bis(2-ethylhexyl)phthalate	< 330	0	ug/kg	0.33	50 mg/kg	
AAB 0288	Borehole H-27D, 4.0-4.25 ft.	Bromobenzene	< 5	0	ug/kg	NA	b	
AAB 0288	Borehole H-27D, 4.0-4.25 ft.	Bromochloromethane	< 5	0	ug/kg	NA	b	
AAB 0288	Borehole H-27D, 4.0-4.25 ft.	Bromodichloromethane	< 5	0	ug/kg	0.005	11 mg/kg	
AAB 0288	Borehole H-27D, 4.0-4.25 ft.	Bromoform	< 5	0	ug/kg	0.005	89 mg/kg	
AAB 0288	Borehole H-27D, 4.0-4.25 ft.	Bromomethane	< 10	0	ug/kg	0.01	0.43 mg/kg	
AAB 0288	Borehole H-27D, 4.0-4.25 ft.	Bromophenylphenyl ether [4-]	< 330	0	ug/kg	NA	b	
AAB 0288	Borehole H-27D, 4.0-4.25 ft.	Butanone [2-]	< 27	0	ug/kg	0.027	4000 mg/kg	
AAB 0288	Borehole H-27D, 4.0-4.25 ft.	Butyl benzyl phthalate	< 330	0	ug/kg	0.33	16000 mg/kg	
AAB 0288	Borehole H-27D, 4.0-4.25 ft.	Butylbenzene [n-]	< 5	0	ug/kg	NA	b	
AAB 0288	Borehole H-27D, 4.0-4.25 ft.	Butylbenzene [sec-]	< 5	0	ug/kg	NA	b	
AAB 0288	Borehole H-27D, 4.0-4.25 ft.	Butylbenzene [tert-]	< 5	0	ug/kg	NA	b	
AAB 0288	Borehole H-27D, 4.0-4.25 ft.	Cadmium	< 0.4	0	ug/g	0.4	80 mg/kg	
AAB 0288	Borehole H-27D, 4.0-4.25 ft.	Carbon disulfide	< 5	0	ug/kg	0.005	7.4 mg/kg	
AAB 0288	Borehole H-27D, 4.0-4.25 ft.	Carbon tetrachloride	< 5	0	ug/kg	0.005	0.21 mg/kg	
AAB 0288	Borehole H-27D, 4.0-4.25 ft.	Chlordane [alpha-]	< 1.88	0	ug/kg	NA	b	
AAB 0288	Borehole H-27D, 4.0-4.25 ft.	Chlordane [gamma-]	< 1.88	0	ug/kg	NA	b	
AAB 0288	Borehole H-27D, 4.0-4.25 ft.	Chloro-3-methylphenol [4-]	< 330	0	ug/kg	0.33	16000 mg/kg	
AAB 0288	Borehole H-27D, 4.0-4.25 ft.	Chloroaniline [4-]	< 330	0	ug/kg	0.33	320 mg/kg	
AAB 0288	Borehole H-27D, 4.0-4.25 ft.	Chlorobenzene	< 5	0	ug/kg	0.005	67 mg/kg	
AAB 0288	Borehole H-27D, 4.0-4.25 ft.	Chlorodibromomethane	< 5	0	ug/kg	0.005	83 mg/kg	
AAB 0288	Borehole H-27D, 4.0-4.25 ft.	Chloroethane	< 10	0	ug/kg	0.01	2900 mg/kg	

a. Compound should be compared to background levels
b. No SAL or background established
< Analytical result is below detection limit shown to right of symbol
TI Tentatively identified compound
NA Not applicable

Sample ID	Location	Analyte	Sample Value	Analytical Uncertainty	Units	Units Converted (mg/kg or pCi/g)	Screening Action Level	Comments
AAB 0288	Borehole H-27D, 4.0-4.25 ft.	Chloroform	< 5	0	ug/kg	0.005	0.21 mg/kg	
AAB 0288	Borehole H-27D, 4.0-4.25 ft.	Chloromethane	< 10	0	ug/kg	0.01	6.4 mg/kg	
AAB 0288	Borehole H-27D, 4.0-4.25 ft.	Chloronaphthalene [2-]	< 330	0	ug/kg	0.33	6400 mg/kg	
AAB 0288	Borehole H-27D, 4.0-4.25 ft.	Chlorophenol [o-]	< 330	0	ug/kg	0.33	400 mg/kg	
AAB 0288	Borehole H-27D, 4.0-4.25 ft.	Chlorophenylphenyl ether [4-]	< 330	0	ug/kg	NA	b	
AAB 0288	Borehole H-27D, 4.0-4.25 ft.	Chlorotoluene [o-]	< 5	0	ug/kg	0.005	1600 mg/kg	
AAB 0288	Borehole H-27D, 4.0-4.25 ft.	Chlorotoluene [p-]	< 5	0	ug/kg	NA	b	
AAB 0288	Borehole H-27D, 4.0-4.25 ft.	Chromium	4.5	0.4	ug/g	4.5	a	Below Background of 34.74 mg/kg
AAB 0288	Borehole H-27D, 4.0-4.25 ft.	Chrysene	< 330	0	ug/kg	0.33	96 mg/kg	
AAB 0288	Borehole H-27D, 4.0-4.25 ft.	DDD [p,p'-]	50.7	15.21	ug/kg	0.0507	2.9 mg/kg	
AAB 0288	Borehole H-27D, 4.0-4.25 ft.	DDE [p,p'-]	39.3	11.79	ug/kg	0.0393	2.1 mg/kg	
AAB 0288	Borehole H-27D, 4.0-4.25 ft.	DDT [p,p'-]	52.7	15.81	ug/kg	0.0527	2.1 mg/kg	
AAB 0288	Borehole H-27D, 4.0-4.25 ft.	Di-n-butyl phthalate	< 330	0	ug/kg	0.33	8000 mg/kg	
AAB 0288	Borehole H-27D, 4.0-4.25 ft.	Di-n-octyl phthalate	< 330	0	ug/kg	0.33	1600 mg/kg	
AAB 0288	Borehole H-27D, 4.0-4.25 ft.	Dibenzofuran	< 330	0	ug/kg	NA	b	
AAB 0288	Borehole H-27D, 4.0-4.25 ft.	Dibenzo[a,h]anthracene	< 330	0	ug/kg	0.33	0.1 mg/kg	Detection limit is greater than SAL
AAB 0288	Borehole H-27D, 4.0-4.25 ft.	Dibromo-3-chloropropane [1,2-]	< 10	0	ug/kg	0.01	0.5 mg/kg	
AAB 0288	Borehole H-27D, 4.0-4.25 ft.	Dibromoethane [1,2-]	< 5	0	ug/kg	NA	b	
AAB 0288	Borehole H-27D, 4.0-4.25 ft.	Dibromomethane	< 5	0	ug/kg	0.005	0.0082 mg/kg	
AAB 0288	Borehole H-27D, 4.0-4.25 ft.	Dichlorobenzene (1,2) [o-]	< 5	0	ug/kg	0.005	1600 mg/kg	
AAB 0288	Borehole H-27D, 4.0-4.25 ft.	Dichlorobenzene (1,3) [m-]	< 5	0	ug/kg	0.005	7200 mg/kg	
AAB 0288	Borehole H-27D, 4.0-4.25 ft.	Dichlorobenzene (1,4) [p-]	< 5	0	ug/kg	0.005	29 mg/kg	
AAB 0288	Borehole H-27D, 4.0-4.25 ft.	Dichlorobenzidine [3,3'-]	< 330	0	ug/kg	0.33	1.6 mg/kg	
AAB 0288	Borehole H-27D, 4.0-4.25 ft.	Dichlorodifluoromethane	< 10	0	ug/kg	0.01	16000 mg/kg	
AAB 0288	Borehole H-27D, 4.0-4.25 ft.	Dichloroethane [1,1-]	< 5	0	ug/kg	0.005	410 mg/kg	
AAB 0288	Borehole H-27D, 4.0-4.25 ft.	Dichloroethane [1,2-]	< 5	0	ug/kg	0.005	0.2 mg/kg	
AAB 0288	Borehole H-27D, 4.0-4.25 ft.	Dichloroethene [1,1-]	< 5	0	ug/kg	0.005	0.4 mg/kg	
AAB 0288	Borehole H-27D, 4.0-4.25 ft.	Dichloroethene [trans-1,2-]	< 5	0	ug/kg	0.005	1600 mg/kg	
AAB 0288	Borehole H-27D, 4.0-4.25 ft.	Dichloroethylene [cis-1,2-]	< 5	0	ug/kg	0.005	800 mg/kg	
AAB 0288	Borehole H-27D, 4.0-4.25 ft.	Dichlorophenol [2,4-]	< 330	0	ug/kg	0.33	240 mg/kg	
AAB 0288	Borehole H-27D, 4.0-4.25 ft.	Dichloropropane [1,2-]	< 5	0	ug/kg	0.005	6.5 mg/kg	
AAB 0288	Borehole H-27D, 4.0-4.25 ft.	Dichloropropane [1,3-]	< 5	0	ug/kg	NA	b	
AAB 0288	Borehole H-27D, 4.0-4.25 ft.	Dichloropropane [2,2-]	< 5	0	ug/kg	NA	b	
AAB 0288	Borehole H-27D, 4.0-4.25 ft.	Dichloropropene [1,1-]	< 5	0	ug/kg	NA	b	
AAB 0288	Borehole H-27D, 4.0-4.25 ft.	Dichloropropene [cis-1,3-]	< 5	0	ug/kg	0.005	0.17 mg/kg	
AAB 0288	Borehole H-27D, 4.0-4.25 ft.	Dichloropropene [trans-1,3-]	< 5	0	ug/kg	0.005	0.17 mg/kg	
AAB 0288	Borehole H-27D, 4.0-4.25 ft.	Dieldrin	< 3.66	0	ug/kg	0.00366	0.044 mg/kg	
AAB 0288	Borehole H-27D, 4.0-4.25 ft.	Diethyl phthalate	< 330	0	ug/kg	0.33	64000 mg/kg	
AAB 0288	Borehole H-27D, 4.0-4.25 ft.	Dimethyl phthalate	< 330	0	ug/kg	0.33	800000 mg/kg	
AAB 0288	Borehole H-27D, 4.0-4.25 ft.	Dimethylphenol [2,4-]	< 330	0	ug/kg	0.33	1600 mg/kg	
AAB 0288	Borehole H-27D, 4.0-4.25 ft.	Dinitrophenol [2,4-]	< 330	0	ug/kg	0.33	160 mg/kg	
AAB 0288	Borehole H-27D, 4.0-4.25 ft.	Dinitrotoluene [2,4-]	< 330	0	ug/kg	0.33	1 mg/kg	
AAB 0288	Borehole H-27D, 4.0-4.25 ft.	Dinitrotoluene [2,6-]	< 330	0	ug/kg	0.33	1 mg/kg	
AAB 0288	Borehole H-27D, 4.0-4.25 ft.	Endosulfan I	< 1.88	0	ug/kg	NA	b	
AAB 0288	Borehole H-27D, 4.0-4.25 ft.	Endosulfan II	< 3.66	0	ug/kg	NA	b	
AAB 0288	Borehole H-27D, 4.0-4.25 ft.	Endosulfan sulfate	< 3.66	0	ug/kg	0.00366	4 mg/kg	
AAB 0288	Borehole H-27D, 4.0-4.25 ft.	Endrin	< 3.66	0	ug/kg	0.00366	24 mg/kg	
AAB 0288	Borehole H-27D, 4.0-4.25 ft.	Endrin aldehyde	< 3.6	0	ug/kg	NA	b	
AAB 0288	Borehole H-27D, 4.0-4.25 ft.	Endrin ketone	< 3.6	0	ug/kg	NA	b	
AAB 0288	Borehole H-27D, 4.0-4.25 ft.	Ethylbenzene	< 5	0	ug/kg	0.005	3100 mg/kg	
AAB 0288	Borehole H-27D, 4.0-4.25 ft.	Fluoranthene	< 330	0	ug/kg	0.33	3200 mg/kg	
AAB 0288	Borehole H-27D, 4.0-4.25 ft.	Fluorene	< 330	0	ug/kg	0.33	3200 mg/kg	

a Compound should be compared to background levels
b No SAL or background established
< Analytical result is below detection limit shown to right of symbol
TI Tentatively identified compound
NA Not applicable

Sample ID	Location	Analyte	Sample Value	Analytical Uncertainty	Units	Units Converted (mg/kg or pCi/g)	Screening Action Level	Comments
AAB 0288	Borehole H-27D, 4.0-4.25 ft.	Heptachlor	< 1.88	0	ug/kg	0.00188	0.16 mg/kg	
AAB 0288	Borehole H-27D, 4.0-4.25 ft.	Heptachlor epoxide	< 1.88	0	ug/kg	0.00188	0.077 mg/kg	
AAB 0288	Borehole H-27D, 4.0-4.25 ft.	Hexachlorobenzene	< 330	0	ug/kg	0.33	0.44 mg/kg	
AAB 0288	Borehole H-27D, 4.0-4.25 ft.	Hexachlorobutadiene	< 330	0	ug/kg	0.33	90 mg/kg	
AAB 0288	Borehole H-27D, 4.0-4.25 ft.	Hexachlorocyclopentadiene	< 330	0	ug/kg	0.33	560 mg/kg	
AAB 0288	Borehole H-27D, 4.0-4.25 ft.	Hexachloroethane	< 330	0	ug/kg	0.33	80 mg/kg	
AAB 0288	Borehole H-27D, 4.0-4.25 ft.	Hexanone [2-]	< 20	0	ug/kg	NA	b	
AAB 0288	Borehole H-27D, 4.0-4.25 ft.	Indeno[1,2,3-cd]pyrene	< 330	0	ug/kg	0.33	1 mg/kg	
AAB 0288	Borehole H-27D, 4.0-4.25 ft.	Isophorone	< 330	0	ug/kg	0.33	7400 mg/kg	
AAB 0288	Borehole H-27D, 4.0-4.25 ft.	Isopropylbenzene	< 5	0	ug/kg	0.005	3200 mg/kg	
AAB 0288	Borehole H-27D, 4.0-4.25 ft.	Isopropyltoluene [4-]	< 5	0	ug/kg	NA	b	
AAB 0288	Borehole H-27D, 4.0-4.25 ft.	Lead	8	2	ug/g	8	400 mg/kg	
AAB 0288	Borehole H-27D, 4.0-4.25 ft.	Lindane	< 1.88	0	ug/kg	0.00188	0.54 mg/kg	
AAB 0288	Borehole H-27D, 4.0-4.25 ft.	Mercury	< 0.1	0	ug/g	0.1	24 mg/kg	
AAB 0288	Borehole H-27D, 4.0-4.25 ft.	Methoxychlor	< 18.8	0	ug/kg	0.0188	400 mg/kg	
AAB 0288	Borehole H-27D, 4.0-4.25 ft.	Methyl iodide	< 5	0	ug/kg	NA	b	
AAB 0288	Borehole H-27D, 4.0-4.25 ft.	Methyl-2-pentanone [4-]	< 20	0	ug/kg	0.02	510 mg/kg	
AAB 0288	Borehole H-27D, 4.0-4.25 ft.	Methyl-4,6-dinitrophenol [2-]	< 330	0	ug/kg	NA	b	
AAB 0288	Borehole H-27D, 4.0-4.25 ft.	Methylene chloride	< 5	0	ug/kg	0.005	5.6 mg/kg	
AAB 0288	Borehole H-27D, 4.0-4.25 ft.	Methylnaphthalene [2-]	< 330	0	ug/kg	NA	b	
AAB 0288	Borehole H-27D, 4.0-4.25 ft.	Methylphenol [2-]	< 330	0	ug/kg	0.33	4000 mg/kg	
AAB 0288	Borehole H-27D, 4.0-4.25 ft.	Methylphenol [4-]	< 330	0	ug/kg	0.33	400 mg/kg	
AAB 0288	Borehole H-27D, 4.0-4.25 ft.	Naphthalene	< 330	0	ug/kg	0.33	3200 mg/kg	
AAB 0288	Borehole H-27D, 4.0-4.25 ft.	Nickel	4.5	1.4	ug/g	4.5	1600 mg/kg	
AAB 0288	Borehole H-27D, 4.0-4.25 ft.	Nitroaniline [2-]	< 330	0	ug/kg	NA	b	
AAB 0288	Borehole H-27D, 4.0-4.25 ft.	Nitroaniline [3-]	< 330	0	ug/kg	0.33	240 mg/kg	
AAB 0288	Borehole H-27D, 4.0-4.25 ft.	Nitroaniline [4-]	< 330	0	ug/kg	0.33	240 mg/kg	
AAB 0288	Borehole H-27D, 4.0-4.25 ft.	Nitrobenzene	< 330	0	ug/kg	0.33	5.3 mg/kg	
AAB 0288	Borehole H-27D, 4.0-4.25 ft.	Nitrophenol [2-]	< 330	0	ug/kg	NA	b	
AAB 0288	Borehole H-27D, 4.0-4.25 ft.	Nitrophenol [4-]	< 330	0	ug/kg	0.33	5000 mg/kg	
AAB 0288	Borehole H-27D, 4.0-4.25 ft.	Nitrosodi-n-propylamine [N-]	< 330	0	ug/kg	0.33	0.1 mg/kg	Detection limit is greater than SAL
AAB 0288	Borehole H-27D, 4.0-4.25 ft.	Nitrosodimethylamine [N-]	< 330	0	ug/kg	0.33	0.014 mg/kg	Detection limit is greater than SAL
AAB 0288	Borehole H-27D, 4.0-4.25 ft.	Nitrosodiphenylamine [N-]	< 330	0	ug/kg	0.33	140 mg/kg	
AAB 0288	Borehole H-27D, 4.0-4.25 ft.	Pentachlorophenol	< 330	0	ug/kg	0.33	5.8 mg/kg	
AAB 0288	Borehole H-27D, 4.0-4.25 ft.	Phenanthrene	< 330	0	ug/kg	NA	b	
AAB 0288	Borehole H-27D, 4.0-4.25 ft.	Phenol	< 330	0	ug/kg	0.33	48000 mg/kg	
AAB 0288	Borehole H-27D, 4.0-4.25 ft.	Plutonium-238	0.002	0.002	pCi/g	0.002	20 pCi/g	
AAB 0288	Borehole H-27D, 4.0-4.25 ft.	Plutonium-239	0.011	0.0035	pCi/g	0.011	18 pCi/g	
AAB 0288	Borehole H-27D, 4.0-4.25 ft.	Propylbenzene	< 5	0	ug/kg	NA	b	
AAB 0288	Borehole H-27D, 4.0-4.25 ft.	Pyrene	< 330	0	ug/kg	0.33	2400 mg/kg	
AAB 0288	Borehole H-27D, 4.0-4.25 ft.	Selenium	< 0.3	0	ug/g	0.3	400 mg/kg	
AAB 0288	Borehole H-27D, 4.0-4.25 ft.	Silver	< 1	0	ug/g	1	400 mg/kg	
AAB 0288	Borehole H-27D, 4.0-4.25 ft.	Styrene	< 5	0	ug/kg	0.005	3300 mg/kg	
AAB 0288	Borehole H-27D, 4.0-4.25 ft.	Tetrachloroethane [1,1,1,2-]	< 5	0	ug/kg	0.005	270 mg/kg	
AAB 0288	Borehole H-27D, 4.0-4.25 ft.	Tetrachloroethane [1,1,2,2-]	< 5	0	ug/kg	0.005	3.9 mg/kg	
AAB 0288	Borehole H-27D, 4.0-4.25 ft.	Tetrachloroethylene	< 5	0	ug/kg	0.005	5.9 mg/kg	
AAB 0288	Borehole H-27D, 4.0-4.25 ft.	Thallium	< 0.3	0	ug/g	0.3	6.4 mg/kg	
AAB 0288	Borehole H-27D, 4.0-4.25 ft.	Toluene	< 5	0	ug/kg	0.005	910 mg/kg	
AAB 0288	Borehole H-27D, 4.0-4.25 ft.	Toxaphene	< 188	0	ug/kg	0.188	0.64 mg/kg	
AAB 0288	Borehole H-27D, 4.0-4.25 ft.	Trichloro-1,2,2-trifluoroethane [1,1,2-]	< 5	0	ug/kg	NA	b	
AAB 0288	Borehole H-27D, 4.0-4.25 ft.	Trichlorobenzene [1,2,4-]	< 330	0	ug/kg	0.33	160 mg/kg	
AAB 0288	Borehole H-27D, 4.0-4.25 ft.	Trichloroethane [1,1,1-]	< 5	0	ug/kg	0.005	1000 mg/kg	

a. Compound should be compared to background levels
b. No SAL or background established
< Analytical result is below detection limit shown to right of symbol
TI Tentatively identified compound
NA Not applicable

Sample ID	Location	Analyte	Sample Value	Analytical Uncertainty	Units	Units Converted (mg/kg or pCi/g)	Screening Action Level		Comments
AAB 0288	Borehole H-27D, 4.0-4.25 ft.	Trichloroethane [1,1,2-]	< 5	0	ug/kg	0.005	6.3	mg/kg	
AAB 0288	Borehole H-27D, 4.0-4.25 ft.	Trichloroethene	< 5	0	ug/kg	0.005	3.2	mg/kg	
AAB 0288	Borehole H-27D, 4.0-4.25 ft.	Trichlorofluoromethane	< 5	0	ug/kg	0.005	24000	mg/kg	
AAB 0288	Borehole H-27D, 4.0-4.25 ft.	Trichlorophenol [2,4,5-]	< 330	0	ug/kg	0.33	8000	mg/kg	
AAB 0288	Borehole H-27D, 4.0-4.25 ft.	Trichlorophenol [2,4,6-]	< 330	0	ug/kg	0.33	64	mg/kg	
AAB 0288	Borehole H-27D, 4.0-4.25 ft.	Trichloropropane [1,2,3-]	< 5	0	ug/kg	0.005	480	mg/kg	
AAB 0288	Borehole H-27D, 4.0-4.25 ft.	Trimethylbenzene [1,2,4-]	< 5	0	ug/kg	0.005	40	mg/kg	
AAB 0288	Borehole H-27D, 4.0-4.25 ft.	Trimethylbenzene [1,3,5-]	< 5	0	ug/kg	0.005	32	mg/kg	
AAB 0288	Borehole H-27D, 4.0-4.25 ft.	Uranium	3.6	0.72	mg/kg	3.6	a		Below Background of 3.41 mg/kg
AAB 0288	Borehole H-27D, 4.0-4.25 ft.	Vinyl chloride	< 10	0	ug/kg	0.01	0.013	mg/kg	
AAB 0288	Borehole H-27D, 4.0-4.25 ft.	Xylenes (o + m + p) [Mixed-]	< 5	0	ug/kg	0.005	160000	mg/kg	
AAB 0289	Borehole H-26, 8.67-9.17 ft.	Acenaphthene	< 330	0	ug/kg	0.33	4800	mg/kg	
AAB 0289	Borehole H-26, 8.67-9.17 ft.	Acenaphthylene	< 330	0	ug/kg	NA	b		
AAB 0289	Borehole H-26, 8.67-9.17 ft.	Acetone	56	16.8	ug/kg	0.056	8000	mg/kg	
AAB 0289	Borehole H-26, 8.67-9.17 ft.	Aldrin	< 1.96	0	ug/kg	0.00196	0.04	mg/kg	
AAB 0289	Borehole H-26, 8.67-9.17 ft.	Americium-241	0.02	0.006	pCi/g	0.02	17	pCi/g	
AAB 0289	Borehole H-26, 8.67-9.17 ft.	Aniline	< 330	0	ug/kg	0.33	120	mg/kg	
AAB 0289	Borehole H-26, 8.67-9.17 ft.	Anthracene	< 330	0	ug/kg	0.33	24000	mg/kg	
AAB 0289	Borehole H-26, 8.67-9.17 ft.	Antimony	< 0.3	0	ug/g	0.3	32	mg/kg	
AAB 0289	Borehole H-26, 8.67-9.17 ft.	Aroclor 1016	< 38.1	0	ug/kg	NA	b		
AAB 0289	Borehole H-26, 8.67-9.17 ft.	Aroclor 1221	< 77.4	0	ug/kg	NA	b		
AAB 0289	Borehole H-26, 8.67-9.17 ft.	Aroclor 1232	< 38.1	0	ug/kg	NA	b		
AAB 0289	Borehole H-26, 8.67-9.17 ft.	Aroclor 1242	< 0.276	0	ug/g	NA	b		
AAB 0289	Borehole H-26, 8.67-9.17 ft.	Aroclor 1242	< 38.1	0	ug/kg	NA	b		
AAB 0289	Borehole H-26, 8.67-9.17 ft.	Aroclor 1248	< 38.1	0	ug/kg	NA	b		
AAB 0289	Borehole H-26, 8.67-9.17 ft.	Aroclor 1254	< 0.276	0	ug/g	NA	b		
AAB 0289	Borehole H-26, 8.67-9.17 ft.	Aroclor 1254	< 38.1	0	ug/kg	NA	b		
AAB 0289	Borehole H-26, 8.67-9.17 ft.	Aroclor 1260	< 0.276	0	ug/g	NA	b		
AAB 0289	Borehole H-26, 8.67-9.17 ft.	Aroclor 1260	< 38.1	0	ug/kg	NA	b		
AAB 0289	Borehole H-26, 8.67-9.17 ft.	Aroclor [Mixed-]	< 0.276	0	ug/g	0.276	0.09	mg/kg	Detection limit is greater than SAL
AAB 0289	Borehole H-26, 8.67-9.17 ft.	Arsenic	2.6	0.5	ug/g	2.6	a		Below Background of 5.04 mg/kg
AAB 0289	Borehole H-26, 8.67-9.17 ft.	Azobenzene	< 330	0	ug/kg	0.33	6.4	mg/kg	
AAB 0289	Borehole H-26, 8.67-9.17 ft.	Barium	140	14	ug/g	140	5600	mg/kg	
AAB 0289	Borehole H-26, 8.67-9.17 ft.	Benzene	< 5	0	ug/kg	0.005	0.67	mg/kg	
AAB 0289	Borehole H-26, 8.67-9.17 ft.	Benzidine [m-]	< 330	0	ug/kg	0.33	0.003	mg/kg	Detection limit is greater than SAL
AAB 0289	Borehole H-26, 8.67-9.17 ft.	Benzoic acid	< 330	0	ug/kg	0.33	320000	mg/kg	
AAB 0289	Borehole H-26, 8.67-9.17 ft.	Benzo[a]anthracene	< 330	0	ug/kg	0.33	1	mg/kg	
AAB 0289	Borehole H-26, 8.67-9.17 ft.	Benzo[a]pyrene	< 330	0	ug/kg	0.33	0.1	mg/kg	Detection limit is greater than SAL
AAB 0289	Borehole H-26, 8.67-9.17 ft.	Benzo[b]fluoranthene	< 330	0	ug/kg	0.33	1	mg/kg	
AAB 0289	Borehole H-26, 8.67-9.17 ft.	Benzo[g,h,i]perylene	< 330	0	ug/kg	NA	b		
AAB 0289	Borehole H-26, 8.67-9.17 ft.	Benzo[k]fluoranthene	< 330	0	ug/kg	0.33	1	mg/kg	
AAB 0289	Borehole H-26, 8.67-9.17 ft.	Benzyl alcohol	< 330	0	ug/kg	0.33	24000	mg/kg	
AAB 0289	Borehole H-26, 8.67-9.17 ft.	Beryllium	0.7	0.07	ug/g	0.7	a		Below Background of 2.37 mg/kg
AAB 0289	Borehole H-26, 8.67-9.17 ft.	BHC [alpha-]	< 1.96	0	ug/kg	0.00196	0.1	mg/kg	
AAB 0289	Borehole H-26, 8.67-9.17 ft.	BHC [beta-]	< 1.96	0	ug/kg	0.00196	4	mg/kg	
AAB 0289	Borehole H-26, 8.67-9.17 ft.	BHC [delta-]	< 1.96	0	ug/kg	NA	b		
AAB 0289	Borehole H-26, 8.67-9.17 ft.	Bis(2-chloroethoxy)methane	< 330	0	ug/kg	NA	b		
AAB 0289	Borehole H-26, 8.67-9.17 ft.	Bis(2-chloroethyl)ether	< 330	0	ug/kg	0.33	0.12	mg/kg	Detection limit is greater than SAL
AAB 0289	Borehole H-26, 8.67-9.17 ft.	Bis(2-chloroisopropyl)ether	< 330	0	ug/kg	0.33	100	mg/kg	
AAB 0289	Borehole H-26, 8.67-9.17 ft.	Bis(2-ethylhexyl)phthalate	< 330	0	ug/kg	0.33	50	mg/kg	
AAB 0289	Borehole H-26, 8.67-9.17 ft.	Bromobenzene	< 5	0	ug/kg	NA	b		
AAB 0289	Borehole H-26, 8.67-9.17 ft.	Bromochloromethane	< 5	0	ug/kg	NA	b		

a. Compound should be compared to background levels
b. No SAL or background established
< Analytical result is below detection limit shown to right of symbol
TI Tentatively identified compound
NA Not applicable

Sample ID	Location	Analyte	Sample Value	Analytical Uncertainty	Units	Units Converted (mg/kg or pCi/g)	Screening Action Level	Comments
AAB 0289	Borehole H-26, 8.67-9.17 ft.	Bromodichloromethane	< 5	0	ug/kg	0.005	11 mg/kg	
AAB 0289	Borehole H-26, 8.67-9.17 ft.	Bromoform	< 5	0	ug/kg	0.005	89 mg/kg	
AAB 0289	Borehole H-26, 8.67-9.17 ft.	Bromomethane	< 10	0	ug/kg	0.01	0.43 mg/kg	
AAB 0289	Borehole H-26, 8.67-9.17 ft.	Bromophenylphenyl ether [4-]	< 330	0	ug/kg	NA	b	
AAB 0289	Borehole H-26, 8.67-9.17 ft.	Butanone [2-]	< 28	0	ug/kg	0.028	4000 mg/kg	
AAB 0289	Borehole H-26, 8.67-9.17 ft.	Butyl benzyl phthalate	< 330	0	ug/kg	0.33	16000 mg/kg	
AAB 0289	Borehole H-26, 8.67-9.17 ft.	Butylbenzene [n-]	< 5	0	ug/kg	NA	b	
AAB 0289	Borehole H-26, 8.67-9.17 ft.	Butylbenzene [sec-]	< 5	0	ug/kg	NA	b	
AAB 0289	Borehole H-26, 8.67-9.17 ft.	Butylbenzene [tert-]	< 5	0	ug/kg	NA	b	
AAB 0289	Borehole H-26, 8.67-9.17 ft.	Cadmium	0.63	0.35	ug/g	0.63	80 mg/kg	
AAB 0289	Borehole H-26, 8.67-9.17 ft.	Carbon disulfide	< 5	0	ug/kg	0.005	7.4 mg/kg	
AAB 0289	Borehole H-26, 8.67-9.17 ft.	Carbon tetrachloride	< 5	0	ug/kg	0.005	0.21 mg/kg	
AAB 0289	Borehole H-26, 8.67-9.17 ft.	Chlordane [alpha-]	< 1.96	0	ug/kg	NA	b	
AAB 0289	Borehole H-26, 8.67-9.17 ft.	Chlordane [gamma-]	< 1.96	0	ug/kg	NA	b	
AAB 0289	Borehole H-26, 8.67-9.17 ft.	Chloro-3-methylphenol [4-]	< 330	0	ug/kg	0.33	16000 mg/kg	
AAB 0289	Borehole H-26, 8.67-9.17 ft.	Chloroaniline [4-]	< 330	0	ug/kg	0.33	320 mg/kg	
AAB 0289	Borehole H-26, 8.67-9.17 ft.	Chlorobenzene	< 5	0	ug/kg	0.005	67 mg/kg	
AAB 0289	Borehole H-26, 8.67-9.17 ft.	Chlorodibromomethane	< 5	0	ug/kg	0.005	83 mg/kg	
AAB 0289	Borehole H-26, 8.67-9.17 ft.	Chloroethane	< 10	0	ug/kg	0.01	2900 mg/kg	
AAB 0289	Borehole H-26, 8.67-9.17 ft.	Chloroform	< 5	0	ug/kg	0.005	0.21 mg/kg	
AAB 0289	Borehole H-26, 8.67-9.17 ft.	Chloromethane	< 10	0	ug/kg	0.01	6.4 mg/kg	
AAB 0289	Borehole H-26, 8.67-9.17 ft.	Chloronaphthalene [2-]	< 330	0	ug/kg	0.33	6400 mg/kg	
AAB 0289	Borehole H-26, 8.67-9.17 ft.	Chlorophenol [o-]	< 330	0	ug/kg	0.33	400 mg/kg	
AAB 0289	Borehole H-26, 8.67-9.17 ft.	Chlorophenylphenyl ether [4-]	< 330	0	ug/kg	NA	b	
AAB 0289	Borehole H-26, 8.67-9.17 ft.	Chlorotoluene [o-]	< 5	0	ug/kg	0.005	1600 mg/kg	
AAB 0289	Borehole H-26, 8.67-9.17 ft.	Chlorotoluene [p-]	< 5	0	ug/kg	NA	b	
AAB 0289	Borehole H-26, 8.67-9.17 ft.	Chromium	9.3	1.4	ug/g	9.3	a	Below Background of 34.74 mg/kg
AAB 0289	Borehole H-26, 8.67-9.17 ft.	Chrysene	< 330	0	ug/kg	0.33	96 mg/kg	
AAB 0289	Borehole H-26, 8.67-9.17 ft.	DDD [p,p'-]	2710	813	ug/kg	2.71	2.9 mg/kg	
AAB 0289	Borehole H-26, 8.67-9.17 ft.	DDE [p,p'-]	577	173.1	ug/kg	0.577	2.1 mg/kg	
AAB 0289	Borehole H-26, 8.67-9.17 ft.	DDT [p,p'-]	648	194.4	ug/kg	0.648	2.1 mg/kg	
AAB 0289	Borehole H-26, 8.67-9.17 ft.	Di-n-butyl phthalate	< 330	0	ug/kg	0.33	8000 mg/kg	
AAB 0289	Borehole H-26, 8.67-9.17 ft.	Di-n-octyl phthalate	< 330	0	ug/kg	0.33	1600 mg/kg	
AAB 0289	Borehole H-26, 8.67-9.17 ft.	Dibenzofuran	< 330	0	ug/kg	NA	b	
AAB 0289	Borehole H-26, 8.67-9.17 ft.	Dibenzo[a,h]anthracene	< 330	0	ug/kg	0.33	0.1 mg/kg	Detection limit is greater than SAL
AAB 0289	Borehole H-26, 8.67-9.17 ft.	Dibenzo[a,h]anthracene	< 330	0	ug/kg	0.33	0.1 mg/kg	
AAB 0289	Borehole H-26, 8.67-9.17 ft.	Dibromo-3-chloropropane [1,2-]	< 10	0	ug/kg	0.01	0.5 mg/kg	
AAB 0289	Borehole H-26, 8.67-9.17 ft.	Dibromoethane [1,2-]	< 5	0	ug/kg	NA	b	
AAB 0289	Borehole H-26, 8.67-9.17 ft.	Dibromomethane	< 5	0	ug/kg	0.005	0.0082 mg/kg	
AAB 0289	Borehole H-26, 8.67-9.17 ft.	Dichlorobenzene (1,2) [o-]	< 5	0	ug/kg	0.005	1600 mg/kg	
AAB 0289	Borehole H-26, 8.67-9.17 ft.	Dichlorobenzene (1,3) [m-]	< 330	0	ug/kg	0.33	7200 mg/kg	
AAB 0289	Borehole H-26, 8.67-9.17 ft.	Dichlorobenzene (1,4) [p-]	< 330	0	ug/kg	0.33	29 mg/kg	
AAB 0289	Borehole H-26, 8.67-9.17 ft.	Dichlorobenzidine [3,3'-]	< 330	0	ug/kg	0.33	1.6 mg/kg	
AAB 0289	Borehole H-26, 8.67-9.17 ft.	Dichlorodifluoromethane	< 10	0	ug/kg	0.01	16000 mg/kg	
AAB 0289	Borehole H-26, 8.67-9.17 ft.	Dichloroethane [1,1-]	< 5	0	ug/kg	0.005	410 mg/kg	
AAB 0289	Borehole H-26, 8.67-9.17 ft.	Dichloroethane [1,2-]	< 5	0	ug/kg	0.005	0.2 mg/kg	
AAB 0289	Borehole H-26, 8.67-9.17 ft.	Dichloroethene [1,1-]	< 5	0	ug/kg	0.005	0.4 mg/kg	
AAB 0289	Borehole H-26, 8.67-9.17 ft.	Dichloroethene [trans-1,2-]	< 5	0	ug/kg	0.005	1600 mg/kg	
AAB 0289	Borehole H-26, 8.67-9.17 ft.	Dichloroethylene [cis-1,2-]	< 5	0	ug/kg	0.005	800 mg/kg	
AAB 0289	Borehole H-26, 8.67-9.17 ft.	Dichlorophenol [2,4-]	< 330	0	ug/kg	0.33	240 mg/kg	
AAB 0289	Borehole H-26, 8.67-9.17 ft.	Dichloropropane [1,2-]	< 5	0	ug/kg	0.005	6.5 mg/kg	
AAB 0289	Borehole H-26, 8.67-9.17 ft.	Dichloropropane [1,3-]	< 5	0	ug/kg	NA	b	

a. Compound should be compared to background levels
b. No SAL or background established
< Analytical result is below detection limit shown to right of symbol
TI Tentatively identified compound
NA Not applicable

Sample ID	Location	Analyte	Sample Value	Analytical Uncertainty	Units	Units Converted (mg/kg or pCi/g)	Screening Action Level	Comments
AAB 0289	Borehole H-26, 8.67-9.17 ft.	Dichloropropane [2,2-]	< 5	0	ug/kg	NA	b	
AAB 0289	Borehole H-26, 8.67-9.17 ft.	Dichloropropene [1,1-]	< 5	0	ug/kg	NA	b	
AAB 0289	Borehole H-26, 8.67-9.17 ft.	Dichloropropene [cis-1,3-]	< 5	0	ug/kg	0.005	0.17 mg/kg	
AAB 0289	Borehole H-26, 8.67-9.17 ft.	Dichloropropene [trans-1,3-]	< 5	0	ug/kg	0.005	0.17 mg/kg	
AAB 0289	Borehole H-26, 8.67-9.17 ft.	Dieldrin	< 3.81	0	ug/kg	0.00381	0.044 mg/kg	
AAB 0289	Borehole H-26, 8.67-9.17 ft.	Diethyl phthalate	< 330	0	ug/kg	0.33	64000 mg/kg	
AAB 0289	Borehole H-26, 8.67-9.17 ft.	Dimethyl phthalate	< 330	0	ug/kg	0.33	800000 mg/kg	
AAB 0289	Borehole H-26, 8.67-9.17 ft.	Dimethylphenol [2,4-]	< 330	0	ug/kg	0.33	1600 mg/kg	
AAB 0289	Borehole H-26, 8.67-9.17 ft.	Dinitrophenol [2,4-]	< 330	0	ug/kg	0.33	160 mg/kg	
AAB 0289	Borehole H-26, 8.67-9.17 ft.	Dinitrotoluene [2,4-]	< 330	0	ug/kg	0.33	1 mg/kg	
AAB 0289	Borehole H-26, 8.67-9.17 ft.	Dinitrotoluene [2,6-]	< 330	0	ug/kg	0.33	1 mg/kg	
AAB 0289	Borehole H-26, 8.67-9.17 ft.	Endosulfan I	< 1.96	0	ug/kg	NA	b	
AAB 0289	Borehole H-26, 8.67-9.17 ft.	Endosulfan II	< 3.81	0	ug/kg	NA	b	
AAB 0289	Borehole H-26, 8.67-9.17 ft.	Endosulfan sulfate	< 3.81	0	ug/kg	0.00381	4 mg/kg	
AAB 0289	Borehole H-26, 8.67-9.17 ft.	Endrin	< 3.81	0	ug/kg	0.00381	24 mg/kg	
AAB 0289	Borehole H-26, 8.67-9.17 ft.	Endrin aldehyde	12.2	3.66	ug/kg	NA	b	
AAB 0289	Borehole H-26, 8.67-9.17 ft.	Endrin ketone	< 3.81	0	ug/kg	NA	b	
AAB 0289	Borehole H-26, 8.67-9.17 ft.	Ethylbenzene	< 5	0	ug/kg	0.005	3100 mg/kg	
AAB 0289	Borehole H-26, 8.67-9.17 ft.	Fluoranthene	< 330	0	ug/kg	0.33	3200 mg/kg	
AAB 0289	Borehole H-26, 8.67-9.17 ft.	Fluorene	< 330	0	ug/kg	0.33	3200 mg/kg	
AAB 0289	Borehole H-26, 8.67-9.17 ft.	Heptachlor	< 1.96	0	ug/kg	0.00196	0.16 mg/kg	
AAB 0289	Borehole H-26, 8.67-9.17 ft.	Heptachlor epoxide	3.19	0.957	ug/kg	0.00319	0.077 mg/kg	
AAB 0289	Borehole H-26, 8.67-9.17 ft.	Hexachlorobenzene	< 330	0	ug/kg	0.33	0.44 mg/kg	
AAB 0289	Borehole H-26, 8.67-9.17 ft.	Hexachlorobutadiene	< 330	0	ug/kg	0.33	90 mg/kg	
AAB 0289	Borehole H-26, 8.67-9.17 ft.	Hexachlorocyclopentadiene	< 330	0	ug/kg	0.33	560 mg/kg	
AAB 0289	Borehole H-26, 8.67-9.17 ft.	Hexachloroethane	< 330	0	ug/kg	0.33	80 mg/kg	
AAB 0289	Borehole H-26, 8.67-9.17 ft.	Hexanone [2-]	< 20	0	ug/kg	NA	b	
AAB 0289	Borehole H-26, 8.67-9.17 ft.	Indeno[1,2,3-cd]pyrene	< 330	0	ug/kg	0.33	1 mg/kg	
AAB 0289	Borehole H-26, 8.67-9.17 ft.	Isophorone	< 330	0	ug/kg	0.33	7400 mg/kg	
AAB 0289	Borehole H-26, 8.67-9.17 ft.	Isopropylbenzene	< 5	0	ug/kg	0.005	3200 mg/kg	
AAB 0289	Borehole H-26, 8.67-9.17 ft.	Isopropyltoluene [4-]	< 5	0	ug/kg	NA	b	
AAB 0289	Borehole H-26, 8.67-9.17 ft.	Lead	31	4	ug/g	31	400 mg/kg	
AAB 0289	Borehole H-26, 8.67-9.17 ft.	Lindane	< 1.96	0	ug/kg	0.00196	0.54 mg/kg	
AAB 0289	Borehole H-26, 8.67-9.17 ft.	Mercury	0.6	0.1	ug/g	0.6	24 mg/kg	
AAB 0289	Borehole H-26, 8.67-9.17 ft.	Methoxychlor	< 19.6	0	ug/kg	0.0196	400 mg/kg	
AAB 0289	Borehole H-26, 8.67-9.17 ft.	Methyl iodide	< 5	0	ug/kg	NA	b	
AAB 0289	Borehole H-26, 8.67-9.17 ft.	Methyl-2-pentanone [4-]	< 20	0	ug/kg	0.02	510 mg/kg	
AAB 0289	Borehole H-26, 8.67-9.17 ft.	Methyl-4,6-dinitrophenol [2-]	< 330	0	ug/kg	NA	b	
AAB 0289	Borehole H-26, 8.67-9.17 ft.	Methylene chloride	< 5	0	ug/kg	0.005	5.6 mg/kg	
AAB 0289	Borehole H-26, 8.67-9.17 ft.	Methylnaphthalene [2-]	< 330	0	ug/kg	NA	b	
AAB 0289	Borehole H-26, 8.67-9.17 ft.	Methylphenol [2-]	< 330	0	ug/kg	0.33	4000 mg/kg	
AAB 0289	Borehole H-26, 8.67-9.17 ft.	Methylphenol [4-]	< 330	0	ug/kg	0.33	400 mg/kg	
AAB 0289	Borehole H-26, 8.67-9.17 ft.	Naphthalene	< 330	0	ug/kg	0.33	3200 mg/kg	
AAB 0289	Borehole H-26, 8.67-9.17 ft.	Nickel	7	2	ug/g	7	1600 mg/kg	
AAB 0289	Borehole H-26, 8.67-9.17 ft.	Nitroaniline [2-]	< 330	0	ug/kg	NA	b	
AAB 0289	Borehole H-26, 8.67-9.17 ft.	Nitroaniline [3-]	< 330	0	ug/kg	0.33	240 mg/kg	
AAB 0289	Borehole H-26, 8.67-9.17 ft.	Nitroaniline [4-]	< 330	0	ug/kg	0.33	240 mg/kg	
AAB 0289	Borehole H-26, 8.67-9.17 ft.	Nitrobenzene	< 330	0	ug/kg	0.33	5.3 mg/kg	
AAB 0289	Borehole H-26, 8.67-9.17 ft.	Nitrophenol [2-]	< 330	0	ug/kg	NA	b	
AAB 0289	Borehole H-26, 8.67-9.17 ft.	Nitrophenol [4-]	< 330	0	ug/kg	0.33	5000 mg/kg	
AAB 0289	Borehole H-26, 8.67-9.17 ft.	Nitrosodi-n-propylamine [N-]	< 330	0	ug/kg	0.33	0.1 mg/kg	Detection limit is greater than SAL
AAB 0289	Borehole H-26, 8.67-9.17 ft.	Nitrosodimethylamine [N-]	< 330	0	ug/kg	0.33	0.014 mg/kg	Detection limit is greater than SAL

a Compound should be compared to background levels
b No SAL or background established
< Analytical result is below detection limit shown to right of symbol
TI Tentatively identified compound
NA Not applicable

Sample ID	Location	Analyte	Sample Value	Analytical Uncertainty	Units	Units Converted (mg/kg or pCi/g)	Screening Action Level	Comments
AAB 0289	Borehole H-26, 8.67-9.17 ft.	Nitrosodiphenylamine [N-]	< 330	0	ug/kg	0.33	140 mg/kg	
AAB 0289	Borehole H-26, 8.67-9.17 ft.	Pentachlorophenol	< 330	0	ug/kg	0.33	5.8 mg/kg	
AAB 0289	Borehole H-26, 8.67-9.17 ft.	Phenanthrene	< 330	0	ug/kg	NA	b	
AAB 0289	Borehole H-26, 8.67-9.17 ft.	Phenol	< 330	0	ug/kg	0.33	48000 mg/kg	
AAB 0289	Borehole H-26, 8.67-9.17 ft.	Plutonium-238	0.005	0.0025	pCi/g	0.005	20 pCi/g	
AAB 0289	Borehole H-26, 8.67-9.17 ft.	Plutonium-239	0.707	0.0445	pCi/g	0.707	18 pCi/g	
AAB 0289	Borehole H-26, 8.67-9.17 ft.	Propylbenzene	< 5	0	ug/kg	NA	b	
AAB 0289	Borehole H-26, 8.67-9.17 ft.	Pyrene	< 330	0	ug/kg	0.33	2400 mg/kg	
AAB 0289	Borehole H-26, 8.67-9.17 ft.	Selenium	0.4	0.3	ug/g	0.4	400 mg/kg	
AAB 0289	Borehole H-26, 8.67-9.17 ft.	Silver	< 1	0	ug/g	1	400 mg/kg	
AAB 0289	Borehole H-26, 8.67-9.17 ft.	Styrene	< 5	0	ug/kg	0.005	3300 mg/kg	
AAB 0289	Borehole H-26, 8.67-9.17 ft.	Tetrachloroethane [1,1,1,2-]	< 5	0	ug/kg	0.005	270 mg/kg	
AAB 0289	Borehole H-26, 8.67-9.17 ft.	Tetrachloroethane [1,1,2,2-]	< 5	0	ug/kg	0.005	3.9 mg/kg	
AAB 0289	Borehole H-26, 8.67-9.17 ft.	Tetrachloroethylene	< 5	0	ug/kg	0.005	5.9 mg/kg	
AAB 0289	Borehole H-26, 8.67-9.17 ft.	Thallium	< 0.3	0	ug/g	0.3	6.4 mg/kg	
AAB 0289	Borehole H-26, 8.67-9.17 ft.	Toluene	< 5	0	ug/kg	0.005	910 mg/kg	
AAB 0289	Borehole H-26, 8.67-9.17 ft.	Toxaphene	< 196	0	ug/kg	0.196	0.64 mg/kg	
AAB 0289	Borehole H-26, 8.67-9.17 ft.	Trichloro-1,2,2-trifluoroethane [1,1,2-]	< 5	0	ug/kg	NA	b	
AAB 0289	Borehole H-26, 8.67-9.17 ft.	Trichlorobenzene [1,2,4-]	< 330	0	ug/kg	0.33	160 mg/kg	
AAB 0289	Borehole H-26, 8.67-9.17 ft.	Trichloroethane [1,1,1-]	< 5	0	ug/kg	0.005	1000 mg/kg	
AAB 0289	Borehole H-26, 8.67-9.17 ft.	Trichloroethane [1,1,2-]	< 5	0	ug/kg	0.005	6.3 mg/kg	
AAB 0289	Borehole H-26, 8.67-9.17 ft.	Trichloroethene	< 5	0	ug/kg	0.005	3.2 mg/kg	
AAB 0289	Borehole H-26, 8.67-9.17 ft.	Trichlorofluoromethane	< 5	0	ug/kg	0.005	24000 mg/kg	
AAB 0289	Borehole H-26, 8.67-9.17 ft.	Trichlorophenol [2,4,5-]	< 330	0	ug/kg	0.33	8000 mg/kg	
AAB 0289	Borehole H-26, 8.67-9.17 ft.	Trichlorophenol [2,4,6-]	< 330	0	ug/kg	0.33	64 mg/kg	
AAB 0289	Borehole H-26, 8.67-9.17 ft.	Trichloropropane [1,2,3-]	< 5	0	ug/kg	0.005	480 mg/kg	
AAB 0289	Borehole H-26, 8.67-9.17 ft.	Trimethylbenzene [1,2,4-]	< 5	0	ug/kg	0.005	40 mg/kg	
AAB 0289	Borehole H-26, 8.67-9.17 ft.	Trimethylbenzene [1,3,5-]	< 5	0	ug/kg	0.005	32 mg/kg	
AAB 0289	Borehole H-26, 8.67-9.17 ft.	Uranium	4.1	0.82	mg/kg	4.1	a	Below Background of 3.41 mg/kg
AAB 0289	Borehole H-26, 8.67-9.17 ft.	Vinyl chloride	< 10	0	ug/kg	0.01	0.013 mg/kg	
AAB 0289	Borehole H-26, 8.67-9.17 ft.	Xylenes (o + m + p) [Mixed-]	< 5	0	ug/kg	0.005	160000 mg/kg	
AAB 0300	North wall at south end of drainline	Radvan Americium-241	0	1.26	pCi/g	NA	b	
AAB 0300	North wall at south end of drainline	Radvan Cesium-137	-1.54	1.59	pCi/g	NA	b	
AAB 0300	North wall at south end of drainline	Radvan Cobalt-60	-0.15	0.73	pCi/g	NA	b	
AAB 0300	North wall at south end of drainline	Radvan Gross Alpha Screening	3.69	83.28	pCi/g	NA	b	
AAB 0300	North wall at south end of drainline	Radvan Gross Beta Screening	22.42	90.73	pCi/g	NA	b	
AAB 0300	North wall at south end of drainline	Radvan Gross Gamma Screening	-0.18	2.16	pCi/g	NA	b	
AAB 0302	South end of intact drainline	Radvan Americium-241	0.21	1.12	pCi/g	NA	b	
AAB 0302	South end of intact drainline	Radvan Cesium-137	-0.78	1.59	pCi/g	NA	b	
AAB 0302	South end of intact drainline	Radvan Cobalt-60	0.52	0.86	pCi/g	NA	b	
AAB 0302	South end of intact drainline	Radvan Gross Alpha Screening	11.07	83.28	pCi/g	NA	b	
AAB 0302	South end of intact drainline	Radvan Gross Beta Screening	18.15	90.73	pCi/g	NA	b	
AAB 0302	South end of intact drainline	Radvan Gross Gamma Screening	1.01	2.16	pCi/g	NA	b	
AAB 3570	Outfall in Graduation Canyon, up-slope	Acenaphthene	< 390	0	ug/kg	0.39	4800 mg/kg	
AAB 3570	Outfall in Graduation Canyon, up-slope	Acenaphthylene	< 390	0	ug/kg	NA	b	
AAB 3570	Outfall in Graduation Canyon, up-slope	Aldrin	13.2	3.96	ug/kg	0.0132	0.04 mg/kg	
AAB 3570	Outfall in Graduation Canyon, up-slope	Aluminum	4080	816	mg/kg	4080	a	Below Background of 76767.63 mg/kg
AAB 3570	Outfall in Graduation Canyon, up-slope	Americium-241	< 0.192	0	pCi/g	0.192	17 pCi/g	
AAB 3570	Outfall in Graduation Canyon, up-slope	Aniline	< 390	0	ug/kg	0.39	120 mg/kg	
AAB 3570	Outfall in Graduation Canyon, up-slope	Anthracene	< 390	0	ug/kg	0.39	24000 mg/kg	
AAB 3570	Outfall in Graduation Canyon, up-slope	Antimony	< 6	0	mg/kg	6	32 mg/kg	
AAB 3570	Outfall in Graduation Canyon, up-slope	Aroclor 1016	< 38.9	0	ug/kg	NA	b	

a. Compound should be compared to background levels
b. No SAL or background established
< Analytical result is below detection limit shown to right of symbol
TI Tentatively identified compound
NA Not applicable

Sample ID	Location	Analyte	Sample Value	Analytical Uncertainty	Units	Units Converted (mg/kg or pCi/g)	Screening Action Level	Comments
AAB 3570	Outfall in Graduation Canyon, up-slope	Aroclor 1221	< 79	0	ug/kg	NA	b	
AAB 3570	Outfall in Graduation Canyon, up-slope	Aroclor 1232	< 38.9	0	ug/kg	NA	b	
AAB 3570	Outfall in Graduation Canyon, up-slope	Aroclor 1242	< 38.9	0	ug/kg	NA	b	
AAB 3570	Outfall in Graduation Canyon, up-slope	Aroclor 1248	< 38.9	0	ug/kg	NA	b	
AAB 3570	Outfall in Graduation Canyon, up-slope	Aroclor 1254	< 38.9	0	ug/kg	NA	b	
AAB 3570	Outfall in Graduation Canyon, up-slope	Aroclor 1260	< 38.9	0	ug/kg	NA	b	
AAB 3570	Outfall in Graduation Canyon, up-slope	Arsenic	< 1.4	0	mg/kg	NA	b	
AAB 3570	Outfall in Graduation Canyon, up-slope	Azobenzene	< 390	0	ug/kg	0.39	6.4 mg/kg	
AAB 3570	Outfall in Graduation Canyon, up-slope	Barium	74.5	14.9	mg/kg	74.5	5600 mg/kg	
AAB 3570	Outfall in Graduation Canyon, up-slope	Benzoic acid	< 1900	0	ug/kg	1.9	320000 mg/kg	
AAB 3570	Outfall in Graduation Canyon, up-slope	Benzo[a]anthracene	< 390	0	ug/kg	0.39	1 mg/kg	
AAB 3570	Outfall in Graduation Canyon, up-slope	Benzo[a]pyrene	< 390	0	ug/kg	0.39	0.1 mg/kg	Detection limit is greater than SAL
AAB 3570	Outfall in Graduation Canyon, up-slope	Benzo[b]fluoranthene	< 390	0	ug/kg	0.39	1 mg/kg	
AAB 3570	Outfall in Graduation Canyon, up-slope	Benzo[g,h,i]perylene	< 390	0	ug/kg	NA	b	
AAB 3570	Outfall in Graduation Canyon, up-slope	Benzo[k]fluoranthene	< 390	0	ug/kg	0.39	1 mg/kg	
AAB 3570	Outfall in Graduation Canyon, up-slope	Benzyl alcohol	< 390	0	ug/kg	0.39	24000 mg/kg	
AAB 3570	Outfall in Graduation Canyon, up-slope	Beryllium	< 0.52	0	mg/kg	NA	b	
AAB 3570	Outfall in Graduation Canyon, up-slope	BHC [alpha-]	< 2	0	ug/kg	0.002	0.1 mg/kg	
AAB 3570	Outfall in Graduation Canyon, up-slope	BHC [beta-]	6.58	1.974	ug/kg	0.00658	4 mg/kg	
AAB 3570	Outfall in Graduation Canyon, up-slope	BHC [delta-]	< 2	0	ug/kg	NA	b	
AAB 3570	Outfall in Graduation Canyon, up-slope	Bis(2-chloroethoxy)methane	< 390	0	ug/kg	NA	b	
AAB 3570	Outfall in Graduation Canyon, up-slope	Bis(2-chloroethyl)ether	< 780	0	ug/kg	0.78	0.12 mg/kg	Detection limit is greater than SAL
AAB 3570	Outfall in Graduation Canyon, up-slope	Bis(2-chloroisopropyl)ether	< 390	0	ug/kg	0.39	100 mg/kg	
AAB 3570	Outfall in Graduation Canyon, up-slope	Bis(2-ethylhexyl)phthalate	< 390	0	ug/kg	0.39	50 mg/kg	
AAB 3570	Outfall in Graduation Canyon, up-slope	Bromophenylphenyl ether [4-]	< 390	0	ug/kg	NA	b	
AAB 3570	Outfall in Graduation Canyon, up-slope	Butyl benzyl phthalate	< 390	0	ug/kg	0.39	16000 mg/kg	
AAB 3570	Outfall in Graduation Canyon, up-slope	Cadmium	< 0.47	0	mg/kg	0.47	80 mg/kg	
AAB 3570	Outfall in Graduation Canyon, up-slope	Calcium	1900	380	mg/kg	1900	a	Below Background of 8639.29 mg/kg
AAB 3570	Outfall in Graduation Canyon, up-slope	Cesium-137	1.19	0.077	pCi/g	1.19	4 pCi/g	
AAB 3570	Outfall in Graduation Canyon, up-slope	Chlordane [alpha-]	< 2	0	ug/kg	NA	b	
AAB 3570	Outfall in Graduation Canyon, up-slope	Chlordane [gamma-]	< 2	0	ug/kg	NA	b	
AAB 3570	Outfall in Graduation Canyon, up-slope	Chloro-3-methylphenol [4-]	< 390	0	ug/kg	0.39	16000 mg/kg	
AAB 3570	Outfall in Graduation Canyon, up-slope	Chloroaniline [4-]	< 390	0	ug/kg	0.39	320 mg/kg	
AAB 3570	Outfall in Graduation Canyon, up-slope	Chloronaphthalene [2-]	< 390	0	ug/kg	0.39	6400 mg/kg	
AAB 3570	Outfall in Graduation Canyon, up-slope	Chlorophenol [o-]	< 390	0	ug/kg	0.39	400 mg/kg	
AAB 3570	Outfall in Graduation Canyon, up-slope	Chlorophenylphenyl ether [4-]	< 390	0	ug/kg	NA	b	
AAB 3570	Outfall in Graduation Canyon, up-slope	Chromium	4.1	0.82	mg/kg	4.1	a	Below Background of 34.74 mg/kg
AAB 3570	Outfall in Graduation Canyon, up-slope	Chrysene	< 390	0	ug/kg	0.39	96 mg/kg	
AAB 3570	Outfall in Graduation Canyon, up-slope	Cobalt	< 2.4	0	mg/kg	NA	b	
AAB 3570	Outfall in Graduation Canyon, up-slope	Copper	6.9	1.38	mg/kg	6.9	3000 mg/kg	
AAB 3570	Outfall in Graduation Canyon, up-slope	DDD [p,p'-]	52.2	15.7	ug/kg	0.0522	2.9 mg/kg	
AAB 3570	Outfall in Graduation Canyon, up-slope	DDE [p,p'-]	129	38.7	ug/kg	0.129	2.1 mg/kg	
AAB 3570	Outfall in Graduation Canyon, up-slope	DDT [p,p'-]	306	91.8	ug/kg	0.306	2.1 mg/kg	
AAB 3570	Outfall in Graduation Canyon, up-slope	Di-n-butyl phthalate	< 390	0	ug/kg	0.39	8000 mg/kg	
AAB 3570	Outfall in Graduation Canyon, up-slope	Di-n-octyl phthalate	< 390	0	ug/kg	0.39	1600 mg/kg	
AAB 3570	Outfall in Graduation Canyon, up-slope	Dibenzofuran	< 390	0	ug/kg	NA	b	
AAB 3570	Outfall in Graduation Canyon, up-slope	Dibenzo[a,h]anthracene	< 390	0	ug/kg	0.39	0.1 mg/kg	Detection limit is greater than SAL
AAB 3570	Outfall in Graduation Canyon, up-slope	Dibenzo[a,h]anthracene	< 390	0	ug/kg	0.39	0.1 mg/kg	
AAB 3570	Outfall in Graduation Canyon, up-slope	Dichlorobenzene (1,2) [o-]	< 390	0	ug/kg	0.39	1600 mg/kg	
AAB 3570	Outfall in Graduation Canyon, up-slope	Dichlorobenzene (1,3) [m-]	< 390	0	ug/kg	0.39	7200 mg/kg	
AAB 3570	Outfall in Graduation Canyon, up-slope	Dichlorobenzene (1,4) [p-]	< 390	0	ug/kg	0.39	29 mg/kg	
AAB 3570	Outfall in Graduation Canyon, up-slope	Dichlorobenzidine [3,3'-]	< 390	0	ug/kg	0.39	1.6 mg/kg	

a. Compound should be compared to background levels
b. No SAL or background established
< Analytical result is below detection limit shown to right of symbol
TI Tentatively identified compound
NA Not applicable

Sample ID	Location	Analyte	Sample Value	Analytical Uncertainty	Units	Units Converted (mg/kg or pCi/g)	Screening Action Level		Comments
AAB 3570	Outfall in Graduation Canyon, up-slope	Dichlorophenol [2,4-]	< 390	0	ug/kg	0.39	240	mg/kg	
AAB 3570	Outfall in Graduation Canyon, up-slope	Dieldrin	< 2	0	ug/kg	0.002	0.044	mg/kg	
AAB 3570	Outfall in Graduation Canyon, up-slope	Dimethyl phthalate	< 390	0	ug/kg	0.39	800000	mg/kg	
AAB 3570	Outfall in Graduation Canyon, up-slope	Dimethylphenol [2,4-]	< 390	0	ug/kg	0.39	1600	mg/kg	
AAB 3570	Outfall in Graduation Canyon, up-slope	Dinitrophenol [2,4-]	< 940	0	ug/kg	0.94	160	mg/kg	
AAB 3570	Outfall in Graduation Canyon, up-slope	Dinitrotoluene [2,4-]	< 390	0	ug/kg	0.39	1	mg/kg	
AAB 3570	Outfall in Graduation Canyon, up-slope	Dinitrotoluene [2,6-]	< 390	0	ug/kg	0.39	1	mg/kg	
AAB 3570	Outfall in Graduation Canyon, up-slope	Endosulfan I	< 2	0	ug/kg	NA	b		
AAB 3570	Outfall in Graduation Canyon, up-slope	Endosulfan II	< 3.89	0	ug/kg	NA	b		
AAB 3570	Outfall in Graduation Canyon, up-slope	Endosulfan sulfate	< 3.89	0	ug/kg	0.00389	4	mg/kg	
AAB 3570	Outfall in Graduation Canyon, up-slope	Endrin	23	6.9	ug/kg	0.023	24	mg/kg	
AAB 3570	Outfall in Graduation Canyon, up-slope	Endrin aldehyde	< 3.89	0	ug/kg	NA	b		
AAB 3570	Outfall in Graduation Canyon, up-slope	Endrin ketone	< 3.89	0	ug/kg	NA	b		
AAB 3570	Outfall in Graduation Canyon, up-slope	Fluoranthene	< 390	0	ug/kg	0.39	3200	mg/kg	
AAB 3570	Outfall in Graduation Canyon, up-slope	Fluorene	< 390	0	ug/kg	0.39	3200	mg/kg	
AAB 3570	Outfall in Graduation Canyon, up-slope	Heptachlor	16.1	4.83	ug/kg	0.0161	0.16	mg/kg	
AAB 3570	Outfall in Graduation Canyon, up-slope	Heptachlor epoxide	< 2	0	ug/kg	0.002	0.077	mg/kg	
AAB 3570	Outfall in Graduation Canyon, up-slope	Hexachlorobenzene	< 390	0	ug/kg	0.39	0.44	mg/kg	
AAB 3570	Outfall in Graduation Canyon, up-slope	Hexachlorobutadiene	< 390	0	ug/kg	0.39	90	mg/kg	
AAB 3570	Outfall in Graduation Canyon, up-slope	Hexachlorocyclopentadiene	< 390	0	ug/kg	0.39	560	mg/kg	
AAB 3570	Outfall in Graduation Canyon, up-slope	Hexachloroethane	< 390	0	ug/kg	0.39	80	mg/kg	
AAB 3570	Outfall in Graduation Canyon, up-slope	Indeno[1,2,3-cd]pyrene	< 390	0	ug/kg	0.39	1	mg/kg	
AAB 3570	Outfall in Graduation Canyon, up-slope	Iron	7250	1450	mg/kg	7250	a		Below Background of 23704.27 mg/kg
AAB 3570	Outfall in Graduation Canyon, up-slope	Isophorone	< 390	0	ug/kg	0.39	7400	mg/kg	
AAB 3570	Outfall in Graduation Canyon, up-slope	Lead	37.9	7.58	mg/kg	37.9	400	mg/kg	
AAB 3570	Outfall in Graduation Canyon, up-slope	Lead-210	4.06	0.51	pCi/g	NA	b		
AAB 3570	Outfall in Graduation Canyon, up-slope	Lindane	< 2	0	ug/kg	0.002	0.54	mg/kg	
AAB 3570	Outfall in Graduation Canyon, up-slope	Magnesium	< 838	0	mg/kg	NA	b		
AAB 3570	Outfall in Graduation Canyon, up-slope	Manganese	352	70.4	mg/kg	352	11000	mg/kg	
AAB 3570	Outfall in Graduation Canyon, up-slope	Mercury	0.22	0.044	mg/kg	0.22	24	mg/kg	
AAB 3570	Outfall in Graduation Canyon, up-slope	Methoxychlor	< 20	0	ug/kg	0.02	400	mg/kg	
AAB 3570	Outfall in Graduation Canyon, up-slope	Methyl-4,6-dinitrophenol [2-]	< 940	0	ug/kg	NA	b		
AAB 3570	Outfall in Graduation Canyon, up-slope	Methylnaphthalene [2-]	< 390	0	ug/kg	NA	b		
AAB 3570	Outfall in Graduation Canyon, up-slope	Methylphenol [2-]	< 390	0	ug/kg	0.39	4000	mg/kg	
AAB 3570	Outfall in Graduation Canyon, up-slope	Methylphenol [4-]	< 390	0	ug/kg	0.39	400	mg/kg	
AAB 3570	Outfall in Graduation Canyon, up-slope	Naphthalene	< 390	0	ug/kg	0.39	3200	mg/kg	
AAB 3570	Outfall in Graduation Canyon, up-slope	Nickel	< 2.6	0	mg/kg	2.6	1600	mg/kg	
AAB 3570	Outfall in Graduation Canyon, up-slope	Nitroaniline [2-]	< 940	0	ug/kg	NA	b		
AAB 3570	Outfall in Graduation Canyon, up-slope	Nitroaniline [3-]	< 940	0	ug/kg	0.94	240	mg/kg	
AAB 3570	Outfall in Graduation Canyon, up-slope	Nitroaniline [4-]	< 780	0	ug/kg	0.78	240	mg/kg	
AAB 3570	Outfall in Graduation Canyon, up-slope	Nitrobenzene	< 390	0	ug/kg	0.39	5.3	mg/kg	
AAB 3570	Outfall in Graduation Canyon, up-slope	Nitrophenol [2-]	< 390	0	ug/kg	NA	b		
AAB 3570	Outfall in Graduation Canyon, up-slope	Nitrophenol [4-]	< 940	0	ug/kg	0.94	5000	mg/kg	
AAB 3570	Outfall in Graduation Canyon, up-slope	Nitrosodi-n-propylamine [N-]	< 390	0	ug/kg	0.39	0.1	mg/kg	Detection limit is greater than SAL
AAB 3570	Outfall in Graduation Canyon, up-slope	Nitrosodimethylamine [N-]	< 390	0	ug/kg	0.39	0.014	mg/kg	Detection limit is greater than SAL
AAB 3570	Outfall in Graduation Canyon, up-slope	Nitrosodiphenylamine [N-]	< 390	0	ug/kg	0.39	140	mg/kg	
AAB 3570	Outfall in Graduation Canyon, up-slope	Pentachlorophenol	< 940	0	ug/kg	0.94	5.8	mg/kg	
AAB 3570	Outfall in Graduation Canyon, up-slope	Phenanthrene	< 390	0	ug/kg	NA	b		
AAB 3570	Outfall in Graduation Canyon, up-slope	Phenol	< 390	0	ug/kg	0.39	48000	mg/kg	
AAB 3570	Outfall in Graduation Canyon, up-slope	Plutonium-238	- 0.0638	0.0715	pCi/g	0.0638	20	pCi/g	
AAB 3570	Outfall in Graduation Canyon, up-slope	Plutonium-239	0.0718	0.0755	pCi/g	0.0718	18	pCi/g	
AAB 3570	Outfall in Graduation Canyon, up-slope	Potassium	< 708	0	mg/kg	NA	b		

a. Compound should be compared to background levels
b. No SAL or background established
< Analytical result is below detection limit shown to right of symbol
TI Tentatively identified compound
NA Not applicable

Sample ID	Location	Analyte	Sample Value	Analytical Uncertainty	Units	Units Converted (mg/kg or pCi/g)	Screening Action Level	Comments
AAB 3570	Outfall in Graduation Canyon, up-slope	Potassium-40	26.9	1.265	pCi/g	NA	b	No background established
AAB 3570	Outfall in Graduation Canyon, up-slope	Pyrene	< 390	0	ug/kg	0.39	2400 mg/kg	
AAB 3570	Outfall in Graduation Canyon, up-slope	Radium-226	0.884	0.52	pCi/g	0.884	5 pCi/g	
AAB 3570	Outfall in Graduation Canyon, up-slope	Radvan Gross Alpha Screening	11.07	83.28	pCi/g	NA	b	
AAB 3570	Outfall in Graduation Canyon, up-slope	Radvan Gross Beta Screening	23.49	90.73	pCi/g	NA	b	
AAB 3570	Outfall in Graduation Canyon, up-slope	Radvan Gross Gamma Screening	1.24	2.16	pCi/g	NA	b	
AAB 3570	Outfall in Graduation Canyon, up-slope	Saturated Hydrocarbons	TI 530	0	ug/kg	NA	NA	
AAB 3570	Outfall in Graduation Canyon, up-slope	Selenium	< 6	0	mg/kg	6	400 mg/kg	
AAB 3570	Outfall in Graduation Canyon, up-slope	Silver	< 0.7	0	mg/kg	0.7	400 mg/kg	
AAB 3570	Outfall in Graduation Canyon, up-slope	Sodium	< 57.3	0	mg/kg	NA	b	
AAB 3570	Outfall in Graduation Canyon, up-slope	Thallium	< 0.53	0	mg/kg	0.53	6.4 mg/kg	
AAB 3570	Outfall in Graduation Canyon, up-slope	Toxaphene	< 200	0	ug/kg	0.2	0.64 mg/kg	
AAB 3570	Outfall in Graduation Canyon, up-slope	Trichlorobenzene [1,2,4-]	< 390	0	ug/kg	0.39	160 mg/kg	
AAB 3570	Outfall in Graduation Canyon, up-slope	Trichlorophenol [2,4,5-]	< 940	0	ug/kg	0.94	8000 mg/kg	
AAB 3570	Outfall in Graduation Canyon, up-slope	Trichlorophenol [2,4,6-]	< 390	0	ug/kg	0.39	64 mg/kg	
AAB 3570	Outfall in Graduation Canyon, up-slope	Unknown organic compound	TI 440	0	ug/kg	NA	NA	
AAB 3570	Outfall in Graduation Canyon, up-slope	Unknown organic compound	TI 450	0	ug/kg	NA	NA	
AAB 3570	Outfall in Graduation Canyon, up-slope	Unknown organic compound	TI 560	0	ug/kg	NA	NA	
AAB 3570	Outfall in Graduation Canyon, up-slope	Unknown organic compound	TI 650	0	ug/kg	NA	NA	
AAB 3570	Outfall in Graduation Canyon, up-slope	Unknown organic compound	TI 820	0	ug/kg	NA	NA	
AAB 3570	Outfall in Graduation Canyon, up-slope	Uranium	3.77	0.1845	ug/g	3.77	a	Below Background of 3.41 mg/kg
AAB 3570	Outfall in Graduation Canyon, up-slope	Vanadium	< 8.5	0	mg/kg	8.5	560 mg/kg	
AAB 3570	Outfall in Graduation Canyon, up-slope	Zinc	47.4	9.48	mg/kg	47.4	24000 mg/kg	
AAB 3571	Outfall in Graduation Canyon, down-slope	Acenaphthene	< 450	0	ug/kg	0.45	4800 mg/kg	
AAB 3571	Outfall in Graduation Canyon, down-slope	Acenaphthylene	< 450	0	ug/kg	NA	b	
AAB 3571	Outfall in Graduation Canyon, down-slope	Aldrin	< 2.31	0	ug/kg	0.00231	0.04 mg/kg	
AAB 3571	Outfall in Graduation Canyon, down-slope	Aluminum	5490	1098	mg/kg	5490	a	Below Background of 76767.63 mg/kg
AAB 3571	Outfall in Graduation Canyon, down-slope	Americium-241	< 0.187	0	pCi/g	0.187	17 pCi/g	
AAB 3571	Outfall in Graduation Canyon, down-slope	Aniline	< 450	0	ug/kg	0.45	120 mg/kg	
AAB 3571	Outfall in Graduation Canyon, down-slope	Anthracene	< 450	0	ug/kg	0.45	24000 mg/kg	
AAB 3571	Outfall in Graduation Canyon, down-slope	Antimony	34.8	6.96	mg/kg	34.8	32 mg/kg	
AAB 3571	Outfall in Graduation Canyon, down-slope	Aroclor 1016	< 44.8	0	ug/kg	NA	b	
AAB 3571	Outfall in Graduation Canyon, down-slope	Aroclor 1221	< 90.9	0	ug/kg	NA	b	
AAB 3571	Outfall in Graduation Canyon, down-slope	Aroclor 1232	< 44.8	0	ug/kg	NA	b	
AAB 3571	Outfall in Graduation Canyon, down-slope	Aroclor 1242	< 44.8	0	ug/kg	NA	b	
AAB 3571	Outfall in Graduation Canyon, down-slope	Aroclor 1248	< 44.8	0	ug/kg	NA	b	
AAB 3571	Outfall in Graduation Canyon, down-slope	Aroclor 1254	< 44.8	0	ug/kg	NA	b	
AAB 3571	Outfall in Graduation Canyon, down-slope	Aroclor 1260	< 44.8	0	ug/kg	NA	b	
AAB 3571	Outfall in Graduation Canyon, down-slope	Arsenic	< 2.1	0	mg/kg	NA	b	
AAB 3571	Outfall in Graduation Canyon, down-slope	Azobenzene	< 450	0	ug/kg	0.45	6.4 mg/kg	
AAB 3571	Outfall in Graduation Canyon, down-slope	Barium	149	29.8	mg/kg	149	5600 mg/kg	
AAB 3571	Outfall in Graduation Canyon, down-slope	Benzoic acid	< 2200	0	ug/kg	2.2	320000 mg/kg	
AAB 3571	Outfall in Graduation Canyon, down-slope	Benzo[a]anthracene	< 450	0	ug/kg	0.45	1 mg/kg	
AAB 3571	Outfall in Graduation Canyon, down-slope	Benzo[a]pyrene	< 450	0	ug/kg	0.45	0.1 mg/kg	Detection limit is greater than SAL
AAB 3571	Outfall in Graduation Canyon, down-slope	Benzo[b]fluoranthene	< 450	0	ug/kg	0.45	1 mg/kg	
AAB 3571	Outfall in Graduation Canyon, down-slope	Benzo[g,h,i]perylene	< 450	0	ug/kg	NA	b	
AAB 3571	Outfall in Graduation Canyon, down-slope	Benzo[k]fluoranthene	< 450	0	ug/kg	0.45	1 mg/kg	
AAB 3571	Outfall in Graduation Canyon, down-slope	Benzyl alcohol	< 450	0	ug/kg	0.45	24000 mg/kg	
AAB 3571	Outfall in Graduation Canyon, down-slope	Beryllium	< 0.58	0	mg/kg	NA	b	
AAB 3571	Outfall in Graduation Canyon, down-slope	BHC [alpha-]	< 2.31	0	ug/kg	0.00231	0.1 mg/kg	
AAB 3571	Outfall in Graduation Canyon, down-slope	BHC [beta-]	< 2.31	0	ug/kg	0.00231	4 mg/kg	
AAB 3571	Outfall in Graduation Canyon, down-slope	BHC [delta-]	< 2.31	0	ug/kg	NA	b	

a. Compound should be compared to background levels
b. No SAL or background established
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TI Tentatively identified compound
NA Not applicable

Sample ID	Location	Analyte	Sample Value	Analytical Uncertainty	Units	Units Converted (mg/kg or pCi/g)	Screening Action Level	Comments
AAB 3571	Outfall in Graduation Canyon, down-slope	Bis(2-chloroethoxy)methane	< 450	0	ug/kg	NA	b	
AAB 3571	Outfall in Graduation Canyon, down-slope	Bis(2-chloroethyl)ether	< 890	0	ug/kg	0.89	0.12 mg/kg	Detection limit is greater than SAL
AAB 3571	Outfall in Graduation Canyon, down-slope	Bis(2-chloroisopropyl)ether	< 450	0	ug/kg	0.45	100 mg/kg	
AAB 3571	Outfall in Graduation Canyon, down-slope	Bis(2-ethylhexyl)phthalate	9500	2850	ug/kg	9.5	50 mg/kg	
AAB 3571	Outfall in Graduation Canyon, down-slope	Bromophenylphenyl ether [4-]	< 450	0	ug/kg	NA	b	
AAB 3571	Outfall in Graduation Canyon, down-slope	Butyl benzyl phthalate	< 450	0	ug/kg	0.45	16000 mg/kg	
AAB 3571	Outfall in Graduation Canyon, down-slope	Cadmium	< 0.67	0	mg/kg	0.67	80 mg/kg	
AAB 3571	Outfall in Graduation Canyon, down-slope	Calcium	8550	1710	mg/kg	8550	a	Below Background of 8639.29 mg/kg
AAB 3571	Outfall in Graduation Canyon, down-slope	Cesium-137	2.22	0.0995	pCi/g	2.22	4 pCi/g	
AAB 3571	Outfall in Graduation Canyon, down-slope	Chlordane [alpha-]	< 2.31	0	ug/kg	NA	b	
AAB 3571	Outfall in Graduation Canyon, down-slope	Chlordane [gamma-]	< 2.31	0	ug/kg	NA	b	
AAB 3571	Outfall in Graduation Canyon, down-slope	Chloro-3-methylphenol [4-]	< 450	0	ug/kg	0.45	16000 mg/kg	
AAB 3571	Outfall in Graduation Canyon, down-slope	Chloroaniline [4-]	< 450	0	ug/kg	0.45	320 mg/kg	
AAB 3571	Outfall in Graduation Canyon, down-slope	Chloronaphthalene [2-]	< 450	0	ug/kg	0.45	6400 mg/kg	
AAB 3571	Outfall in Graduation Canyon, down-slope	Chlorophenol [o-]	< 450	0	ug/kg	0.45	400 mg/kg	
AAB 3571	Outfall in Graduation Canyon, down-slope	Chlorophenylphenyl ether [4-]	< 450	0	ug/kg	NA	b	
AAB 3571	Outfall in Graduation Canyon, down-slope	Chromium	4.4	0.88	mg/kg	4.4	a	Below Background of 34.74 mg/kg
AAB 3571	Outfall in Graduation Canyon, down-slope	Chrysene	< 450	0	ug/kg	0.45	96 mg/kg	
AAB 3571	Outfall in Graduation Canyon, down-slope	Cobalt	< 3.6	0	mg/kg	NA	b	
AAB 3571	Outfall in Graduation Canyon, down-slope	Copper	11.3	2.26	mg/kg	11.3	3000 mg/kg	
AAB 3571	Outfall in Graduation Canyon, down-slope	DDD [p,p'-]	23.1	6.93	ug/kg	0.0231	2.9 mg/kg	
AAB 3571	Outfall in Graduation Canyon, down-slope	DDE [p,p'-]	57.4	17.22	ug/kg	0.0574	2.1 mg/kg	
AAB 3571	Outfall in Graduation Canyon, down-slope	DDT [p,p'-]	156	46.8	ug/kg	0.156	2.1 mg/kg	
AAB 3571	Outfall in Graduation Canyon, down-slope	Di-n-butyl phthalate	< 450	0	ug/kg	0.45	8000 mg/kg	
AAB 3571	Outfall in Graduation Canyon, down-slope	Di-n-octyl phthalate	< 450	0	ug/kg	0.45	1600 mg/kg	
AAB 3571	Outfall in Graduation Canyon, down-slope	Dibenzofuran	< 450	0	ug/kg	NA	b	
AAB 3571	Outfall in Graduation Canyon, down-slope	Dibenzo[a,h]anthracene	< 450	0	ug/kg	0.45	0.1 mg/kg	Detection limit is greater than SAL
AAB 3571	Outfall in Graduation Canyon, down-slope	Dichlorobenzene (1,2) [o-]	< 450	0	ug/kg	0.45	1600 mg/kg	
AAB 3571	Outfall in Graduation Canyon, down-slope	Dichlorobenzene (1,3) [m-]	< 450	0	ug/kg	0.45	7200 mg/kg	
AAB 3571	Outfall in Graduation Canyon, down-slope	Dichlorobenzene (1,4) [p-]	< 450	0	ug/kg	0.45	29 mg/kg	
AAB 3571	Outfall in Graduation Canyon, down-slope	Dichlorobenzidine [3,3'-]	< 450	0	ug/kg	0.45	1.6 mg/kg	
AAB 3571	Outfall in Graduation Canyon, down-slope	Dichlorophenol [2,4-]	< 450	0	ug/kg	0.45	240 mg/kg	
AAB 3571	Outfall in Graduation Canyon, down-slope	Dieldrin	< 4.48	0	ug/kg	0.00448	0.044 mg/kg	
AAB 3571	Outfall in Graduation Canyon, down-slope	Diethyl phthalate	< 450	0	ug/kg	0.45	64000 mg/kg	
AAB 3571	Outfall in Graduation Canyon, down-slope	Dimethyl phthalate	< 450	0	ug/kg	0.45	800000 mg/kg	
AAB 3571	Outfall in Graduation Canyon, down-slope	Dimethylphenol [2,4-]	< 450	0	ug/kg	0.45	1600 mg/kg	
AAB 3571	Outfall in Graduation Canyon, down-slope	Dinitrophenol [2,4-]	< 1100	0	ug/kg	1.1	160 mg/kg	
AAB 3571	Outfall in Graduation Canyon, down-slope	Dinitrotoluene [2,4-]	< 450	0	ug/kg	0.45	1 mg/kg	
AAB 3571	Outfall in Graduation Canyon, down-slope	Dinitrotoluene [2,6-]	< 450	0	ug/kg	0.45	1 mg/kg	
AAB 3571	Outfall in Graduation Canyon, down-slope	Endosulfan I	< 2.31	0	ug/kg	NA	b	
AAB 3571	Outfall in Graduation Canyon, down-slope	Endosulfan II	< 4.48	0	ug/kg	NA	b	
AAB 3571	Outfall in Graduation Canyon, down-slope	Endosulfan sulfate	< 4.48	0	ug/kg	0.00448	4 mg/kg	
AAB 3571	Outfall in Graduation Canyon, down-slope	Endrin	< 4.48	0	ug/kg	0.00448	24 mg/kg	
AAB 3571	Outfall in Graduation Canyon, down-slope	Endrin aldehyde	< 4.48	0	ug/kg	NA	b	
AAB 3571	Outfall in Graduation Canyon, down-slope	Endrin ketone	< 4.48	0	ug/kg	NA	b	
AAB 3571	Outfall in Graduation Canyon, down-slope	Fluoranthene	< 450	0	ug/kg	0.45	3200 mg/kg	
AAB 3571	Outfall in Graduation Canyon, down-slope	Fluorene	< 450	0	ug/kg	0.45	3200 mg/kg	
AAB 3571	Outfall in Graduation Canyon, down-slope	Heptachlor	< 2.31	0	ug/kg	0.00231	0.16 mg/kg	
AAB 3571	Outfall in Graduation Canyon, down-slope	Heptachlor epoxide	< 2.31	0	ug/kg	0.00231	0.077 mg/kg	
AAB 3571	Outfall in Graduation Canyon, down-slope	Hexachlorobenzene	< 450	0	ug/kg	0.45	0.44 mg/kg	Detection limit is greater than SAL
AAB 3571	Outfall in Graduation Canyon, down-slope	Hexachlorobutadiene	< 450	0	ug/kg	0.45	90 mg/kg	
AAB 3571	Outfall in Graduation Canyon, down-slope	Hexachlorocyclopentadiene	< 450	0	ug/kg	0.45	560 mg/kg	

a. Compound should be compared to background levels
b No SAL or background established
< Analytical result is below detection limit shown to right of symbol
TI Tentatively identified compound
NA Not applicable

Sample ID	Location	Analyte	Sample Value	Analytical Uncertainty	Units	Units Converted (mg/kg or pCi/g)	Screening Action Level	Comments
AAB 3571	Outfall in Graduation Canyon, down-slope	Hexachloroethane	< 450	0	ug/kg	0.45	80 mg/kg	
AAB 3571	Outfall in Graduation Canyon, down-slope	Indeno[1,2,3-cd]pyrene	< 450	0	ug/kg	0.45	1 mg/kg	
AAB 3571	Outfall in Graduation Canyon, down-slope	Iron	7430	1486	mg/kg	7430	a	Below Background of 23704.27 mg/kg
AAB 3571	Outfall in Graduation Canyon, down-slope	Isophorone	< 450	0	ug/kg	0.45	7400 mg/kg	
AAB 3571	Outfall in Graduation Canyon, down-slope	Lead	< 0.38	0	mg/kg	0.38	400 mg/kg	
AAB 3571	Outfall in Graduation Canyon, down-slope	Lead-210	5.98	0.4805	pCi/g	NA	b	
AAB 3571	Outfall in Graduation Canyon, down-slope	Lindane	< 2.31	0	ug/kg	0.00231	0.54 mg/kg	
AAB 3571	Outfall in Graduation Canyon, down-slope	Magnesium	1760	352	mg/kg	NA	b	
AAB 3571	Outfall in Graduation Canyon, down-slope	Manganese	1930	386	mg/kg	1930	11000 mg/kg	
AAB 3571	Outfall in Graduation Canyon, down-slope	Mercury	0.34	0.068	mg/kg	0.34	24 mg/kg	
AAB 3571	Outfall in Graduation Canyon, down-slope	Methoxychlor	< 23.1	0	ug/kg	0.0231	400 mg/kg	
AAB 3571	Outfall in Graduation Canyon, down-slope	Methyl-4,6-dinitrophenol [2-]	< 1100	0	ug/kg	NA	b	
AAB 3571	Outfall in Graduation Canyon, down-slope	Methylnaphthalene [2-]	< 450	0	ug/kg	NA	b	
AAB 3571	Outfall in Graduation Canyon, down-slope	Methylphenol [2-]	< 450	0	ug/kg	0.45	4000 mg/kg	
AAB 3571	Outfall in Graduation Canyon, down-slope	Methylphenol [4-]	< 450	0	ug/kg	0.45	400 mg/kg	
AAB 3571	Outfall in Graduation Canyon, down-slope	Naphthalene	< 450	0	ug/kg	0.45	3200 mg/kg	
AAB 3571	Outfall in Graduation Canyon, down-slope	Nickel	< 4.4	0	mg/kg	4.4	1600 mg/kg	
AAB 3571	Outfall in Graduation Canyon, down-slope	Nitroaniline [2-]	< 1100	0	ug/kg	NA	b	
AAB 3571	Outfall in Graduation Canyon, down-slope	Nitroaniline [3-]	< 1100	0	ug/kg	1.1	240 mg/kg	
AAB 3571	Outfall in Graduation Canyon, down-slope	Nitroaniline [4-]	< 890	0	ug/kg	0.89	240 mg/kg	
AAB 3571	Outfall in Graduation Canyon, down-slope	Nitrobenzene	< 450	0	ug/kg	0.45	5.3 mg/kg	
AAB 3571	Outfall in Graduation Canyon, down-slope	Nitrophenol [2-]	< 450	0	ug/kg	NA	b	
AAB 3571	Outfall in Graduation Canyon, down-slope	Nitrophenol [4-]	< 1100	0	ug/kg	1.1	5000 mg/kg	
AAB 3571	Outfall in Graduation Canyon, down-slope	Nitrosodi-n-propylamine [N-]	< 450	0	ug/kg	0.45	0.1 mg/kg	Detection limit is greater than SAL
AAB 3571	Outfall in Graduation Canyon, down-slope	Nitrosodimethylamine [N-]	< 450	0	ug/kg	0.45	0.014 mg/kg	Detection limit is greater than SAL
AAB 3571	Outfall in Graduation Canyon, down-slope	Nitrosodiphenylamine [N-]	< 450	0	ug/kg	0.45	140 mg/kg	
AAB 3571	Outfall in Graduation Canyon, down-slope	Pentachlorophenol	< 1100	0	ug/kg	1.1	5.8 mg/kg	
AAB 3571	Outfall in Graduation Canyon, down-slope	Phenanthrene	< 450	0	ug/kg	NA	b	
AAB 3571	Outfall in Graduation Canyon, down-slope	Phenol	< 450	0	ug/kg	0.45	48000 mg/kg	
AAB 3571	Outfall in Graduation Canyon, down-slope	Plutonium-238	0.0038	0.0995	pCi/g	0.0038	20 pCi/g	
AAB 3571	Outfall in Graduation Canyon, down-slope	Plutonium-239	0.219	0.1	pCi/g	0.219	18 pCi/g	
AAB 3571	Outfall in Graduation Canyon, down-slope	Potassium	< 1660	0	mg/kg	NA	b	
AAB 3571	Outfall in Graduation Canyon, down-slope	Potassium-40	23.8	1.1	pCi/g	NA	b	
AAB 3571	Outfall in Graduation Canyon, down-slope	Pyrene	< 450	0	ug/kg	0.45	2400 mg/kg	No background established
AAB 3571	Outfall in Graduation Canyon, down-slope	Radium-226	0.933	0.054	pCi/g	0.933	5 pCi/g	
AAB 3571	Outfall in Graduation Canyon, down-slope	Radvan Gross Alpha Screening	3.69	83.28	pCi/g	NA	b	
AAB 3571	Outfall in Graduation Canyon, down-slope	Radvan Gross Beta Screening	6.41	90.73	pCi/g	NA	b	
AAB 3571	Outfall in Graduation Canyon, down-slope	Radvan Gross Gamma Screening	-4.02	2.16	pCi/g	NA	b	
AAB 3571	Outfall in Graduation Canyon, down-slope	Saturated Hydrocarbons	TI 900	0	ug/kg	NA	NA	
AAB 3571	Outfall in Graduation Canyon, down-slope	Selenium	< 9.1	0	mg/kg	9.1	400 mg/kg	
AAB 3571	Outfall in Graduation Canyon, down-slope	Silver	< 1	0	mg/kg	1	400 mg/kg	
AAB 3571	Outfall in Graduation Canyon, down-slope	Sodium	< 67.7	0	mg/kg	NA	b	
AAB 3571	Outfall in Graduation Canyon, down-slope	Thallium	< 0.8	0	mg/kg	0.8	6.4 mg/kg	
AAB 3571	Outfall in Graduation Canyon, down-slope	Toxaphene	< 231	0	ug/kg	0.231	0.64 mg/kg	
AAB 3571	Outfall in Graduation Canyon, down-slope	Toxaphene	< 231	0	ug/kg	0.231	0.64 mg/kg	
AAB 3571	Outfall in Graduation Canyon, down-slope	Trichlorobenzene [1,2,4-]	< 450	0	ug/kg	0.45	160 mg/kg	
AAB 3571	Outfall in Graduation Canyon, down-slope	Trichlorophenol [2,4,5-]	< 1100	0	ug/kg	1.1	8000 mg/kg	
AAB 3571	Outfall in Graduation Canyon, down-slope	Trichlorophenol [2,4,6-]	< 450	0	ug/kg	0.45	64 mg/kg	
AAB 3571	Outfall in Graduation Canyon, down-slope	Unknown organic compound	TI 710	0	ug/kg	NA	NA	
AAB 3571	Outfall in Graduation Canyon, down-slope	Uranium	4.06	0.199	ug/g	4.06	a	Below Background of 3.41 mg/kg
AAB 3571	Outfall in Graduation Canyon, down-slope	Vanadium	< 10.6	0	mg/kg	10.6	560 mg/kg	
AAB 3571	Outfall in Graduation Canyon, down-slope	Zinc	74.6	14.92	mg/kg	74.6	24000 mg/kg	

a Compound should be compared to background levels
b No SAL or background established
< Analytical result is below detection limit shown to right of symbol
TI Tentatively identified compound
NA Not applicable

ENVIRONMENTAL RESTORATION PROGRAM

SITE-SPECIFIC WASTE MANAGEMENT PLAN

SWMUs 0-030(c), (e), (f), (h), (k), and (q)

SAMPLING AND REMOVAL OF SEPTIC TANKS AND ASSOCIATED LINES

REMOVAL AND SAMPLING ACTIVITIES FY-94

LOS ALAMOS NATIONAL LABORATORY
LOS ALAMOS, NEW MEXICO

May 2, 1994

DRAFT

REVISION 1

Subsurface sampling, as covered by this Waste Management Plan, consists of sampling the septic tank system, including the tank, drain lines, any material within the septic system (liquids or solids), and soil material immediately below the tank and drain lines during the subsequent excavation activities. Johnson Controls Inc. (JCI) will conduct the septic tank excavations, and removals while ERM/Golder Project Team members will provide environmental monitoring and oversee the tank removal and collect subsurface samples from the excavator bucket as they are brought to the surface.

1.3 Potential Contaminants of Concern

All available historical and archival data and information indicate that the septic tanks -030(c), -030(e), -030(f), and -030(q) probably were not connected to TA-1, but served only residential buildings. In addition, preliminary,pre-characterization sample results for septic tanks -030(c), -030(f), and -030(q) show no indication of detectable levels of contaminants, either chemical or radioactive isotopes. Furthermore, confirmed, quality control (QC), results of analyses of random samples obtained from the pre-characterization subsurface investigation of septic tank sites 030(c) and 030(q) show no potential contaminants of concern (PCOCs).

2.0 PERSONNEL

The following individuals have been identified as having waste management responsibilities for the investigation at OU 1071, SWMU Group 0-030, Septic systems.

Waste Generator

The Waste Generator (WG) is **Henry Nunes**, ENG-1, whose responsibilities include:

- ensuring compliance with LANL waste management policies and procedures;

FINDING NUMBER: 29

CONCLUSION NUMBER: 67

FINDING NUMBER: 29

CONCLUSION NUMBER: 67

DISCUSSION:

Compliance Order NMHWA 95-03 requires that within ten (10) days from the receipt of this Order, the U.S. Department of Energy and Los Alamos National Laboratory must submit copies of documentation relating to maintaining records of hazardous waste determinations for five (5) 55 gallon containers of waste at Technical Area 3 (TA-3), Building SM-30, Southwest Parking Lot <90 day storage area.

Attached are the following documents:

- Memo dated March 30, 1995, Subject: Five Liquid Drums Stored in a <90 Day Storge Area at TA-3-30.
- Memo dated March 30, 1995, Subject: Labels on (VCA Phase) Liquid Drums at SM-30.
- Memo dated March 29, 1995, Subject: Chronology of Drum Sampling at SM-30.
- Memo dated March 29, 1995, Subject: Sample Results from Drummed Liquids at SM-30.
- Analytical Results including, QC Results and Trip Blank(s) Results. These results reflect that laboratory contamination occurred.

Los Alamos
NATIONAL LABORATORY
memorandum
Chemical Science and Technology
Responsible Chemistry for America
Environmental Restoration Program/CST-18
Los Alamos, New Mexico 87545

To/MS: Pat Shanley, ESH-19, K490
From/MS: Lynda Sobojinski, CST-18, E525
Phone/FAX: 665-8339/665-4632
Symbol: CST-18/LS-94:030
Date: March 30, 1995

Five Liquid Drums Stored in a <90 Day Storage Area at TA-3-30

Attached is a memo from ERM/Golder explaining sample collection events chronologically for the liquid (rainwater and decon water) drums at TA-3-30 and the associated data from sampling and analysis. The drums containing rainwater and fluids from decontamination of equipment used in sampling and excavation at SWMU 3-010(a) were placed in the 90-day storage area after VCA activities in May of 1994. At the time the fluids were drummed, there was no reason to expect the presence of mixed waste, and the results of sampling and analysis indicate that all but one drum does not contain hazardous waste. One rainwater drum sample has a result of 40 ± 12 ug/L of toluene, however, that may be a lab contaminant because both the trip and rinse blank contained toluene in small amounts, 2 ug/L and 5 ug/L respectively. Also the submersible electric pump that was used to transfer the rainwater from the excavation to the drums was decontaminated and the liquid was deposited into the drum the contains toluene. It is possible that oil or grease from the pump caused the toluene "hit" since it is not in the other rainwater drums.

There were inspections performed on these drums from the time they were generated until it was determined that they do not contain hazardous waste, by ERM/Golder personnel. The inspection forms were submitted to Jerry Rodriquez of Michelle Cash's office. We submitted our data to Alex Puglisi as well as Michelle Cash to try to dispose of the fluid at TA-50 because tritium was present (although not much over background or drinking water standards).

The attached data provides metals, tritium, semivolatiles and volatiles analysis data for three of the drums that contained rainwater collected from the excavation. These sample numbers are AAB2049-AAB2051 and AAB7691-AAB7693 in request numbers 19443, 19444, 17761 and 18766, respectively. For the other two drums, only volatiles were analyzed. The data from these analyses can be found under sample numbers AAB7694 and AAB7695 in request number 18766.

Please let me know if you need any additional information.

Distribution:
Steve Calhoun, ERM/Golder, M327

MEMORANDUM

ERM/GOLDER Los Alamos Project Team

To: Lynda Sobojinski, Field Unit 1

From: Danny Katzman

Date: March 30, 1995

Regarding: Labels on (VCA Phase) Liquid Drums at SM-30

This memo provides the information that you requested on the labeling status of the decon water and rain water drums at the SM-30 <90 day storage area on the date of the NMED inspection. The recollection of Ken Kisiel and myself is that the drums had labels on the date of the inspection that contained the following information all on a single piece of paper inside a ziplock bag.

- SWMU #: 3-010(a)
- Program identifier: ER Program
- "decon or rainwater"
- "pending analysis"
- contact name: Bob Shelton
- phone number: 7-4435,

Please let me know if there is anything else we can do to assist you in this manner.

Ken was inspecting < 90 day area where drums were sited and submitting profile forms to Ken Rodriguez in Michelle Cash's office.

cc: Project File 19458.04

S. Calhoun

Waste Profile #'s, 10/28/94 (Date Michelle Cash processed) 9922, and 9924

MEMORANDUM
ERM/GOLDER LOS ALAMOS PROJECT TEAM

To: Lynda Sobojinski

From: Bart Vanden Plas

Date: March 29, 1995

Re: Chronology of Drum Sampling at SM-30

The drums at SM-30 contain rinsate generated during the decontamination of equipment used during the cleanup of SWMU 3-010(a) and also include rainwater pumped from the site May 25 and 26, 1994. The decontamination liquids were generated during the cleanup in April and May 1994. The last batch of liquids were generated and placed in the drums May 6, 1994. We had expected to generate more decon fluids as the VCA progressed and collect samples after all the liquids had been generated, however, the detection of volatile organics halted the VCA progress.

On May 16, 1994, preliminary analytical data indicated volatile organic compounds as contaminants of concern at SWMU 3-010(a) based on the samples collected May 6, 1994, and analyzed May 10, 1994. The data values were erroneous in some cases; therefore, a second set of samples was analyzed. This analysis confirmed the presence of volatile organic compounds (VOCs) and a final report was generated the week of May 23. On the basis of this information, the rinsate drums at SM-30 were to be analyzed for volatile contaminants. This sampling was delayed by rain May 25 and 26, 1994.

On June 6, 1994, two change order control forms were submitted to LANL's industrial hygiene group, ESH-5, to incorporate sampling the rinsate drums at SM-30 into the existing site-specific health and safety plan. In addition, the change order control requested approval of a new Site Safety Officer (SSO) for the task. ESH-5 approved the change order controls with the requirements that ESH-1 personnel be present during the sampling to monitor exposure levels of tritium and oversee the health and safety monitoring. An additional requirement was the use of both a photo-ionization detector and a flame ionization detector for monitoring organic vapors.

Sampling was scheduled for June 13, 1994. Upon arrival at the site, the monitoring equipment malfunctioned and sampling was rescheduled for June 17, 1994.

On June 17, 1994, samples were collected for TPH, metals, semivolatile organic compounds (SVOCs), (VOCs), and tritium. The samples were delivered to LANL's Sample Coordination Facility for shipping to the appropriate analytical laboratory.

During the week of July 25, 1994, we were informed that the laboratory that received the VOC samples had missed the holding time due to instrument malfunction. There was no explanation on the delay in reporting the missed holding times for these samples.

On July 28, 1994, a change order control was prepared once again to resample the drums at SM-30. This was not acceptable to ESH-5 because it was difficult to arrange oversight by ESH-5 personnel. In addition, there was a delay while ESH-5 and ESH-1 reviewed the need to provide tritium monitoring during the sampling. ERM/Golder agreed to provide the SSO during the week of August 1, 1994.

It was not until the week of August 15, 1994, that ESH-1 and ESH-5 agreed that tritium monitoring would not be needed during the second sampling since the levels detected during the first sampling event were low. This decision was reached based on data that was requested from ERM/Golder. Therefore, re-sampling was scheduled for August 19, 1994. The VOC samples were re-collected and again delivered to the Sample Coordination Facility.

During the week of August 22, 1994, CST-9 informed us that the samples could not be shipped because there was no radiological screening data from the radiological screening van on the samples; therefore, it was decided to re-collect the samples with an aliquot for radiological screening.

August 30, 1994, the samples were re-collected. The VOC samples were delivered to the Sample Coordination Facility and the radiological screening samples were delivered to the radiological screening van personnel at the Sample Coordination Facility.

cc: Brent Russell, ERM/Golder
Dan Katzman, ERM/Golder
Garry Allen, CST-6

Los Alamos
NATIONAL LABORATORY
memorandum
Chemical Science and Technology
Responsible Chemistry for America
CST-6, Environmental Restoration Program
Los Alamos, New Mexico 87545

To/MS: Pat Shanley
From/MS: Lynda Sobojinski
Phone/FAX: 5-8339/ 5-4632
Symbol: XXX
Date: March 29, 1995

Sample Results from Drummed Liquids at SM-30

Of the five drums of decon liquid in question at SM-30, three (drums 1 to 3) received metals, tritium, SVOC, and VOC analysis. The other two drums (drums 4 and 5) received only VOA.

Request #19443 contains data from metals analysis done on AAB 2049-2051 (drums 1 to 3).

Request # 19444 contains data from tritium analysis done on AAB 2049-2051 (drums 1 to 3).

Request # 17761 contains data from semivolatiles analysis done on AAB 2049-2051 (drums 1 to 3).

Request # 18766 contains VOA data for AAB 7691-7695 (all 5 drums).

9922
9924

REPORT NUMBER: 28798

Rain water ~~Rinse water~~ Drums

********** EM-9 ANALYTICAL REPORT **********

SW Mill 3-010(a)

Prepared by: PEC on 28-Oct-1994

REQUEST NUMBER: 19443 MATRIX: W ANALYST: AAS PROGRAM CODE: M83B

OWNER: Garry Allen GROUP: CST-18 MAIL-STOP: E525 PHONE: 7-3394

NOTEBOOK: PAGE:

CUSTOMER SAMPLES:

CUSTOMER NUM	SAMPLE NUM	ANALYSIS	ANALYTICAL TECHNIQUE	ANALYTICAL RESULT	ANALYTICAL UNCERTAINTY	UNITS	COMPLETION DATE	COMMENT
AAB2051	94.11770	AS	ETVAA	9.	2.	UG/L	10/28/94	
AAB2051	94.11770	HG	CVAA	0.0			10/25/94	INSUFF SAM
AAB2051	94.11770	SE	ETVAA	< 2.		UG/L	10/28/94	
AAB2049	94.11771	AS	ETVAA	13.	3.	UG/L	10/28/94	
AAB2049	94.11771	HG	CVAA	12.	1.	UG/L	10/24/94	
AAB2049	94.11771	SE	ETVAA	< 2.		UG/L	10/28/94	
AAB2050	94.11772	AS	ETVAA	5.	2.	UG/L	10/28/94	
AAB2050	94.11772	HG	CVAA	4.	0.4	UG/L	10/24/94	
AAB2050	94.11772	SE	ETVAA	< 2.		UG/L	10/28/94	

CUSTOMER SAMPLE DUPLICATES:

CUSTOMER NUM	SAMPLE NUM	ANALYSIS	ANALYTICAL TECHNIQUE	ANALYTICAL RESULT	ANALYTICAL UNCERTAINTY	UNITS	COMPLETION DATE	COMMENT
AAB2051	94.11770	AS	ETVAA	10.	2.	UG/L	10/28/94	
AAB2051	94.11770	SE	ETVAA	< 2.		UG/L	10/28/94	

MATRIX SPIKES:

CUSTOMER NUM	SAMPLE NUM	ANALYSIS	ANALYTICAL TECHNIQUE	AMOUNT SPIKED	AMOUNT RECOVERED	UNITS	COMPLETION DATE	COMMENT
AAB2051	94.11770	AS	ETVAA	10.	23.	UG/L	10/28/94	
AAB2051	94.11770	SE	ETVAA	10.	7.	UG/L	10/28/94	

****

REPORT NUMBER: 28798 (continued)

********** EM-9 QUALITY ASSURANCE REPORT *********

Prepared by: PEC on 28-Oct-1994

REQUEST NUMBER: 19443 MATRIX: W ANALYST: AAS PROGRAM CODE: M83B

OWNER: Garry Allen GROUP: CST-18 MAIL-STOP: E525 PHONE: 7-3394

NOTEBOOK: PAGE:

SUMMARY OF CONTROL STATUS OF OPEN (NON-BLIND) QC SAMPLES RUN WITH THIS BATCH

SAMPLE NUM	ANALYSIS	ANALYTICAL RESULT	ANALYTICAL UNCERTAINTY	UNITS	QC VALUE	QC UNCERTAINTY	COMPLETION DATE	COMMENT
00.31814	HG	4.	0.4	UG/L	4.	0.24	10/24/94	UNDER CONTROL

SUMMARY OF CONTROL STATUS OF BLIND QC SAMPLES RUN WITH THIS BATCH

There were no blind Quality Control materials run with the samples reported above for one of the following reasons:

___ Only qualitative data requested

✓ Only Open (non-blind) QC samples run with this sample batch.

___ No QC samples run with this sample batch.

___ No QC samples for this constituent and matrix type available within EM-9

REPORT NUMBER: 28798	PEC	PEC	DLGerth	mag
	Analyst	Reviewer	Section Leader	QA Officer
	10/28/94	10/28/94	11/3/94	11/3/94
	Date	Date	Date	Date

No Sample Discrepancies Noted by Sample Management Section

The control status of the preceeding data was evaluated using the standard statistical criteria set forth in (Quality Assurance for Health and Environmental Chemistry: 1992 / LA-12790-MS Vol. I pp. 19-20

REPORT NUMBER: 29020

********** EM-9 ANALYTICAL REPORT **********

Rain water drums

Prepared by: MKOBY on 2-Nov-1994

REQUEST NUMBER: 19443 MATRIX: W ANALYST: IMS PROGRAM CODE: M83B

OWNER: Garry Allen GROUP: CST-18 MAIL-STOP: E525 PHONE: 7-3394

NOTEBOOK: PAGE:

CUSTOMER SAMPLES:

CUSTOMER NUM	SAMPLE NUM	ANALYSIS	ANALYTICAL TECHNIQUE	ANALYTICAL RESULT	ANALYTICAL UNCERTAINTY	UNITS	COMPLETION DATE	COMMENT
AAB2051	94.11770	PB	ICPMS	32.	8.	UG/L	11/02/94	
AAB2051	94.11770	SB	ICPMS	1.	1.	UG/L	11/02/94	
AAB2051	94.11770	TL	ICPMS	1.	1.	UG/L	11/02/94	
AAB2049	94.11771	PB	ICPMS	54.	9.	UG/L	11/02/94	
AAB2049	94.11771	SB	ICPMS	1.	1.	UG/L	11/02/94	
AAB2049	94.11771	TL	ICPMS	1.	1.	UG/L	11/02/94	
AAB2050	94.11772	PB	ICPMS	22.	4.	UG/L	11/02/94	
AAB2050	94.11772	SB	ICPMS	1.	1.	UG/L	11/02/94	
AAB2050	94.11772	TL	ICPMS	< 1.		UG/L	11/02/94	

CUSTOMER SAMPLE DUPLICATES:

CUSTOMER NUM	SAMPLE NUM	ANALYSIS	ANALYTICAL TECHNIQUE	ANALYTICAL RESULT	ANALYTICAL UNCERTAINTY	UNITS	COMPLETION DATE	COMMENT
AAB2051	94.11770	PB	ICPMS	47.	8.	UG/L	11/02/94	
AAB2051	94.11770	SB	ICPMS	1.	1.	UG/L	11/02/94	
AAB2051	94.11770	TL	ICPMS	1.	1.	UG/L	11/02/94	

MATRIX SPIKES:

CUSTOMER NUM	SAMPLE NUM	ANALYSIS	ANALYTICAL TECHNIQUE	AMOUNT SPIKED	AMOUNT RECOVERED	UNITS	COMPLETION DATE	COMMENT
AAB2051	94.11770	PB	ICPMS	10.	31.	UG/L	11/02/94	HETEROGENEITY
AAB2051	94.11770	SB	ICPMS	10.	6.	UG/L	11/02/94	
AAB2051	94.11770	TL	ICPMS	10.	10.	UG/L	11/02/94	

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REPORT NUMBER: 29020 (continued)

********** EM-9 QUALITY ASSURANCE REPORT *********

Prepared by: MKOBY on 2-Nov-1994

REQUEST NUMBER: 19443 MATRIX: W ANALYST: IMS PROGRAM CODE: M83B

OWNER: Garry Allen GROUP: CST-18 MAIL-STOP: E525 PHONE: 7-3394

NOTEBOOK: PAGE:

SUMMARY OF CONTROL STATUS OF OPEN (NON-BLIND) QC SAMPLES RUN WITH THIS BATCH

SAMPLE NUM	ANALYSIS	ANALYTICAL RESULT	ANALYTICAL UNCERTAINTY	UNITS	QC VALUE	QC UNCERTAINTY	COMPLETION DATE	COMMENT
00.30468	PB	481.	29.	UG/L	500.	90.	11/02/94	UNDER CONTROL
00.30468	SB	127.	6.	UG/L	128.	110.	11/02/94	UNDER CONTROL
00.30468	TL	25.	2.	UG/L	25.	5.5	11/02/94	UNDER CONTROL

SUMMARY OF CONTROL STATUS OF BLIND QC SAMPLES RUN WITH THIS BATCH

There were no blind Quality Control materials run with the samples reported above for one of the following reasons:

___ Only qualitative data requested

X Only Open (non-blind) QC samples run with this sample batch.

___ No QC samples run with this sample batch.

___ No QC samples for this constituent and matrix type available within EM-9

REPORT NUMBER: 29020

Analyst	Reviewer	Section Leader	QA Officer
11/2/94	11/2/94	11/3/94	11/3/94
Date	Date	Date	Date

No Sample Discrepancies Noted by Sample Management Section

The control status of the preceeding data was evaluated using the standard statistical criteria set forth in 'Quality Assurance for Health and Environmental Chemistry: 1992,' LA-12790-MS, Vol. I, pp. 19-20.

****

REPORT NUMBER: 28596

********** EM-9 ANALYTICAL REPORT **********

Rain water drums

Prepared by: MBG on 20-Oct-1994

REQUEST NUMBER: 19443 MATRIX: W ANALYST: OES PROGRAM CODE: M83B

OWNER: Garry Allen GROUP: CST-6 MAIL-STOP: E525 PHONE: 7-3394

NOTEBOOK: Y3725 PAGE: 52

CUSTOMER SAMPLES:

CUSTOMER NUM	SAMPLE NUM	ANALYSIS	ANALYTICAL TECHNIQUE	ANALYTICAL RESULT	ANALYTICAL UNCERTAINTY	UNITS	COMPLETION DATE	COMMENT
AAB2051	94.11770	AG	ICPES	< 0.01		MG/L	10/11/94	
AAB2051	94.11770	AL	ICPES	36.	4.	MG/L	10/11/94	
AAB2051	94.11770	BA	ICPES	0.38	0.04	MG/L	10/11/94	
AAB2051	94.11770	BE	ICPES	< 0.003		MG/L	10/11/94	
AAB2051	94.11770	CA	ICPES	19.	2.	MG/L	10/11/94	
AAB2051	94.11770	CD	ICPES	< 0.003		MG/L	10/11/94	
AAB2051	94.11770	CO	ICPES	0.009	0.001	MG/L	10/11/94	
AAB2051	94.11770	CR	ICPES	0.021	0.002	MG/L	10/11/94	
AAB2051	94.11770	CU	ICPES	0.018	0.002	MG/L	10/11/94	
AAB2051	94.11770	FE	ICPES	29.	3.	MG/L	10/11/94	
AAB2051	94.11770	K	ICPES	6.5	0.7	MG/L	10/11/94	
AAB2051	94.11770	MG	ICPES	7.2	0.7	MG/L	10/11/94	
AAB2051	94.11770	MN	ICPES	0.54	0.05	MG/L	10/11/94	
AAB2051	94.11770	NA	ICPES	4.6	0.5	MG/L	10/11/94	
AAB2051	94.11770	NI	ICPES	0.017	0.006	MG/L	10/11/94	
AAB2051	94.11770	V	ICPES	0.037	0.004	MG/L	10/11/94	
AAB2051	94.11770	ZN	ICPES	0.13	0.01	MG/L	10/11/94	
AAB2049	94.11771	AG	ICPES	< 0.01		MG/L	10/11/94	
AAB2049	94.11771	AL	ICPES	64.	6.	MG/L	10/11/94	
AAB2049	94.11771	BA	ICPES	0.62	0.06	MG/L	10/11/94	
AAB2049	94.11771	BE	ICPES	0.005	0.0005	MG/L	10/11/94	
AAB2049	94.11771	CA	ICPES	27.	3.	MG/L	10/11/94	
AAB2049	94.11771	CD	ICPES	< 0.003		MG/L	10/11/94	
AAB2049	94.11771	CO	ICPES	0.013	0.002	MG/L	10/11/94	
AAB2049	94.11771	CR	ICPES	0.036	0.004	MG/L	10/11/94	
AAB2049	94.11771	CU	ICPES	0.034	0.004	MG/L	10/11/94	
AAB2049	94.11771	FE	ICPES	60.	10.	MG/L	10/11/94	
AAB2049	94.11771	K	ICPES	10.	2.	MG/L	10/11/94	
AAB2049	94.11771	MG	ICPES	12.	1.	MG/L	10/11/94	
AAB2049	94.11771	MN	ICPES	0.87	0.09	MG/L	10/11/94	
AAB2049	94.11771	NA	ICPES	6.7	0.7	MG/L	10/11/94	
AAB2049	94.11771	NI	ICPES	0.023	0.005	MG/L	10/11/94	
AAB2049	94.11771	V	ICPES	0.063	0.006	MG/L	10/11/94	
AAB2049	94.11771	ZN	ICPES	0.24	0.03	MG/L	10/11/94	
AAB2050	94.11772	AG	ICPES	< 0.01		MG/L	10/11/94	
AAB2050	94.11772	AL	ICPES	17.	2.	MG/L	10/11/94	
AAB2050	94.11772	BA	ICPES	0.15	0.02	MG/L	10/11/94	

AAB2050	94.11772	BE	ICPES	< 0.003		MG/L	10/11/94	
AAB2050	94.11772	CA	ICPES	13.	1.	MG/L	10/11/94	
AAB2050	94.11772	CD	ICPES	< 0.003		MG/L	10/11/94	
AAB2050	94.11772	CO	ICPES	< 0.004		MG/L	10/11/94	
AAB2050	94.11772	CR	ICPES	0.009	0.001	MG/L	10/11/94	
AAB2050	94.11772	CU	ICPES	0.013	0.001	MG/L	10/11/94	
AAB2050	94.11772	FE	ICPES	19.	2.	MG/L	10/11/94	
AAB2050	94.11772	K	ICPES	3.9	0.4	MG/L	10/11/94	
AAB2050	94.11772	MG	ICPES	4.	0.4	MG/L	10/11/94	
AAB2050	94.11772	MN	ICPES	0.32	0.03	MG/L	10/11/94	
AAB2050	94.11772	NA	ICPES	5.	0.5	MG/L	10/11/94	
AAB2050	94.11772	NI	ICPES	< 0.01		MG/L	10/11/94	
AAB2050	94.11772	V	ICPES	0.016	0.002	MG/L	10/11/94	
AAB2050	94.11772	ZN	ICPES	0.083	0.008	MG/L	10/11/94	

CUSTOMER SAMPLE DUPLICATES:

CUSTOMER NUM	SAMPLE NUM	ANALYSIS	ANALYTICAL TECHNIQUE	ANALYTICAL RESULT	ANALYTICAL UNCERTAINTY	UNITS	COMPLETION DATE	COMMENT
AAB2051	94.11770	AG	ICPES	< 0.01		MG/L	10/11/94	
AAB2051	94.11770	AL	ICPES	54.	6.	MG/L	10/11/94	
AAB2051	94.11770	BA	ICPES	0.51	0.05	MG/L	10/11/94	
AAB2051	94.11770	BE	ICPES	0.004	0.003	MG/L	10/11/94	
AAB2051	94.11770	CA	ICPES	22.	2.	MG/L	10/11/94	
AAB2051	94.11770	CD	ICPES	< 0.003		MG/L	10/11/94	
AAB2051	94.11770	CO	ICPES	0.011	0.001	MG/L	10/11/94	
AAB2051	94.11770	CR	ICPES	0.03		MG/L	10/11/94	
AAB2051	94.11770	CU	ICPES	0.027	0.003	MG/L	10/11/94	
AAB2051	94.11770	FE	ICPES	41.	4.	MG/L	10/11/94	
AAB2051	94.11770	K	ICPES	9.	0.9	MG/L	10/11/94	
AAB2051	94.11770	MG	ICPES	9.8	1.	MG/L	10/11/94	
AAB2051	94.11770	MN	ICPES	0.66	0.07	MG/L	10/11/94	
AAB2051	94.11770	NA	ICPES	5.	0.5	MG/L	10/11/94	
AAB2051	94.11770	NI	ICPES	0.021	0.008	MG/L	10/11/94	
AAB2051	94.11770	V	ICPES	0.052	0.005	MG/L	10/11/94	
AAB2051	94.11770	ZN	ICPES	0.19	0.02	MG/L	10/11/94	

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REPORT NUMBER: 28596 (continued)

********** EM-9 QUALITY ASSURANCE REPORT *********

Prepared by: MBG on 20-Oct-1994

REQUEST NUMBER: 19443 MATRIX: W ANALYST: OES PROGRAM CODE: M83B

OWNER: Garry Allen GROUP: CST-6 MAIL-STOP: E525 PHONE: 7-3394

NOTEBOOK: Y3725 PAGE: 52

SUMMARY OF CONTROL STATUS OF OPEN (NON-BLIND) QC SAMPLES RUN WITH THIS BATCH

SAMPLE NUM	ANALYSIS	ANALYTICAL RESULT	ANALYTICAL UNCERTAINTY	UNITS	QC VALUE	QC UNCERTAINTY	COMPLETION DATE	COMMENT
00.29417	AL	10.	1.	MG/L	10.	0.4	10/20/94	UNDER CONTROL
00.29417	BA	700.	70.	UG/L	500.	22.	10/20/94	WARNING 2-3 SIG
00.29417	BE	580.	58.	UG/L	500.	22.	10/20/94	UNDER CONTROL
00.29417	CA	14.	1.4	MG/L	10.	0.4	10/20/94	WARNING 2-3 SIG
00.29417	CD	530.	53.	UG/L	498.	21.	10/20/94	UNDER CONTROL
00.29417	CO	540.	54.	UG/L	500.	22.	10/20/94	UNDER CONTROL
00.29417	CR	530.	53.	UG/L	499.	21.	10/20/94	UNDER CONTROL
00.29417	CU	530.	53.	UG/L	500.	22.	10/20/94	UNDER CONTROL
00.29417	FE	1100.	110.	UG/L	999.	43.	10/20/94	UNDER CONTROL
00.29417	K	12.	1.2	MG/L	10.	0.4	10/20/94	UNDER CONTROL
00.29417	MG	14.	1.4	MG/L	10.	0.4	10/20/94	WARNING 2-3 SIG
00.29417	MN	530.	53.	UG/L	500.	22.	10/20/94	UNDER CONTROL
00.29417	NA	13.	1.3	MG/L	10.	0.4	10/20/94	WARNING 2-3 SIG
00.29417	NI	540.	54.	UG/L	500.	22.	10/20/94	UNDER CONTROL
00.29417	V	540.	54.	UG/L	500.	22.	10/20/94	UNDER CONTROL
00.29417	ZN	520.	52.	UG/L	500.	22.	10/20/94	UNDER CONTROL

SUMMARY OF CONTROL STATUS OF BLIND QC SAMPLES RUN WITH THIS BATCH

There were no blind Quality Control materials run with the samples reported above for one of the following reasons:

____ Only qualitative data requested

__✓__ Only Open (non-blind) QC samples run with this sample batch.

____ No QC samples run with this sample batch.

____ No QC samples for this constituent and matrix type available within EM-9

REPORT NUMBER: 28596

Analyst	Reviewer	Section Leader	QA Officer
10-20-94	10-20-94	11/3/94	11/3/94
Date	Date	Date	Date

No Sample Discrepancies Noted by Sample Management Section

The control status of the preceeding data was evaluated using the standard statistical criteria set forth in 'Quality Assurance for Health and Environmental Chemistry: 1992,' LA-12790-MS, Vol. I, pp. 19-20.

****

To: Garry Allen

Date: 10/07/94

From: Richard Robinson

Phone/Ms: 667-7094/ K-484

Topic: QC's for Rept No 28281

SOMU 3-010(a)

Tritium

Two open QC's were analyzed with your RN 19444. In order to meet your rapid turn-around time requirements they are being reported here rather than the usual way.

Sample Id	Obs Conc	Uncertainty	CV	Uncertainty	Units	
00.29654	- 200	+/- 300	0		PiC/L	In Control
00.29655	13,700	+/- 1,100	16,120	+/- 1,612	PiC/L	In Control

Richard Robinson

********** EM-9 ANALYTICAL REPORT **********

Rainwater drums

Prepared by: DMH on 7-Oct-1994

ANALYSIS: H-3 REQUEST NUMBER: 19444 MATRIX: W ANALYST: RICHARD ROBINSON PROGRAM CODE: M83B

OWNER: Garry Allen GROUP: CST-6 MAIL-STOP: E525 PHONE: 7-3394

ANALYTICAL TECHNIQUE: LS ANALYTICAL PROCEDURE: ER210 NOTEBOOK: PAGE:

CUSTOMER SAMPLES:

CUSTOMER NUMBER	SAMPLE NUMBER	ANALYTICAL RESULT	ANALYTICAL UNCERTAINTY	UNITS	COMPLETION DATE	COMMENT
AAB2051	94.11770	200.	300.	PCI/L	10/07/94	
AAB2049	94.11771	600.	300.	PCI/L	10/07/94	
AAB2050	94.11772	100.	300.	PCI/L	10/07/94	

Rainwater Drums

********** EM-9 ANALYTICAL REPORT **********

EPA SEMIVOLATILES Prepared by: LAK on 9-Sep-1994

REQUEST NUMBER: 17761 MATRIX: W ANALYST: 311 PROGRAM CODE: M83H NOTEBOOK: 7129481 PAGE:

OWNER: Garry Allen GROUP: CST-6 MAIL-STOP: E525 PHONE: 7-3394 TECHNIQUE: GCMS ANALYTICAL PROCEDURE: EPA SW-846 3RD

Customer Sample Results, Sample # 94.11770 Date Collected: 6/17/94 Date Received: 6/20/94 Date Extracted: 6/23/94 Date Analyzed: 7/13/94

CUSTOMER NUMBER	SAMPLE NUMBER	ANALYSIS	ANALYTICAL RESULT	ANALYTICAL UNCERTAINTY	UNITS	COMPLETION DATE	COMMENT	COMPOUND NAME
AAB2051	94.11770	83329	< 11.		UG/L	9/09/94	UJ	Acenaphthene
AAB2051	94.11770	208968	< 11.		UG/L	9/09/94	UJ	Acenaphthylene
AAB2051	94.11770	62533	< 11.		UG/L	9/09/94	UJ	Aniline
AAB2051	94.11770	120127	< 11.		UG/L	9/09/94	UJ	Anthracene
AAB2051	94.11770	56553	< 11.		UG/L	9/09/94	UJ	Benzo[a]anthracene
AAB2051	94.11770	50328	< 11.		UG/L	9/09/94	UJ	Benzo[a]pyrene
AAB2051	94.11770	205992	< 11.		UG/L	9/09/94	UJ	Benzo[b]fluoranthene
AAB2051	94.11770	191242	< 11.		UG/L	9/09/94	UJ	Benzo[g,h,i]perylene
AAB2051	94.11770	207089	< 11.		UG/L	9/09/94	UJ	Benzo[k]fluoranthene
AAB2051	94.11770	65850	< 56.		UG/L	9/09/94		Benzoic acid
AAB2051	94.11770	100516	< 22.		UG/L	9/09/94		Benzyl alcohol
AAB2051	94.11770	111911	< 11.		UG/L	9/09/94	UJ	Bis(2-chloroethoxy)methane
AAB2051	94.11770	111444	< 11.		UG/L	9/09/94	UJ	Bis(2-chloroethyl)ether
AAB2051	94.11770	108601	< 11.		UG/L	9/09/94	UJ	Bis(2-chloroisopropyl)ether
AAB2051	94.11770	117817	11.	3.3	UG/L	9/09/94	J	Bis(2-ethylhexyl)phthalate
AAB2051	94.11770	101553	< 11.		UG/L	9/09/94	UJ	4-Bromophenylphenyl ether
AAB2051	94.11770	85687	< 11.		UG/L	9/09/94	UJ	Butyl benzyl phthalate
AAB2051	94.11770	59507	< 22.		UG/L	9/09/94		4-Chloro-3-methylphenol
AAB2051	94.11770	106478	< 22.		UG/L	9/09/94	UJ	4-Chloroaniline
AAB2051	94.11770	91587	< 11.		UG/L	9/09/94	UJ	2-Chloronaphthalene
AAB2051	94.11770	95578	< 11.		UG/L	9/09/94		o-Chlorophenol
AAB2051	94.11770	7005723	< 11.		UG/L	9/09/94	UJ	4-Chlorophenylphenyl ether
AAB2051	94.11770	218019	< 11.		UG/L	9/09/94	UJ	Chrysene
AAB2051	94.11770	84742	< 11.		UG/L	9/09/94	UJ	Di-n-butyl phthalate
AAB2051	94.11770	117840	< 11.		UG/L	9/09/94	UJ	Di-n-octyl phthalate
AAB2051	94.11770	53703	< 11.		UG/L	9/09/94	UJ	Dibenzo[a,h]anthracene

********** EM-9 ANALYTICAL REPORT **********

CUSTOMER NUMBER	SAMPLE NUMBER	ANALYSIS	ANALYTICAL RESULT	ANALYTICAL UNCERTAINTY	UNITS	COMPLETION DATE	COMMENT	COMPOUND NAME
AAB2051	94.11770	132649	< 11.		UG/L	9/09/94	UJ	Dibenzofuran
AAB2051	94.11770	95501	< 11.		UG/L	9/09/94	UJ	o-Dichlorobenzene (1,2)
AAB2051	94.11770	541731	< 11.		UG/L	9/09/94	UJ	m-Dichlorobenzene (1,3)
AAB2051	94.11770	106467	< 11.		UG/L	9/09/94	UJ	p-Dichlorobenzene (1,4)
AAB2051	94.11770	91941	< 22.		UG/L	9/09/94	UJ	3,3'-Dichlorobenzidine
AAB2051	94.11770	120832	< 11.		UG/L	9/09/94		2,4-Dichlorophenol
AAB2051	94.11770	84662	< 11.		UG/L	9/09/94	UJ	Diethyl phthalate
AAB2051	94.11770	131113	< 11.		UG/L	9/09/94	UJ	Dimethyl phthalate
AAB2051	94.11770	105679	< 11.		UG/L	9/09/94		2,4-Dimethylphenol
AAB2051	94.11770	51285	< 56.		UG/L	9/09/94		2,4-Dinitrophenol
AAB2051	94.11770	121142	< 11.		UG/L	9/09/94	UJ	2,4-Dinitrotoluene
AAB2051	94.11770	606202	< 11.		UG/L	9/09/94	UJ	2,6-Dinitrotoluene
AAB2051	94.11770	206440	< 11.		UG/L	9/09/94	UJ	Fluoranthene
AAB2051	94.11770	86737	< 11.		UG/L	9/09/94	UJ	Fluorene
AAB2051	94.11770	118741	< 11.		UG/L	9/09/94	UJ	Hexachlorobenzene
AAB2051	94.11770	87683	< 11.		UG/L	9/09/94	UJ	Hexachlorobutadiene
AAB2051	94.11770	77474	< 11.		UG/L	9/09/94	UJ	Hexachlorocyclopentadiene
AAB2051	94.11770	67721	< 11.		UG/L	9/09/94	UJ	Hexachloroethane
AAB2051	94.11770	193395	< 11.		UG/L	9/09/94	UJ	Indeno[1,2,3-cd]pyrene
AAB2051	94.11770	78591	< 11.		UG/L	9/09/94	UJ	Isophorone
AAB2051	94.11770	534521	< 56.		UG/L	9/09/94		2-Methyl-4,6-dinitrophenol
AAB2051	94.11770	91576	< 11.		UG/L	9/09/94	UJ	2-Methylnaphthalene
AAB2051	94.11770	95487	< 11.		UG/L	9/09/94		2-Methylphenol
AAB2051	94.11770	106445	< 11.		UG/L	9/09/94		4-Methylphenol
AAB2051	94.11770	91203	< 11.		UG/L	9/09/94	UJ	Naphthalene
AAB2051	94.11770	88744	< 56.		UG/L	9/09/94	UJ	2-Nitroaniline
AAB2051	94.11770	99092	< 56.		UG/L	9/09/94	UJ	3-Nitroaniline
AAB2051	94.11770	100016	< 56.		UG/L	9/09/94	UJ	4-Nitroaniline
AAB2051	94.11770	98953	< 11.		UG/L	9/09/94	UJ	Nitrobenzene
AAB2051	94.11770	88755	< 11.		UG/L	9/09/94		2-Nitrophenol
AAB2051	94.11770	100027	< 56.		UG/L	9/09/94		4-Nitrophenol
AAB2051	94.11770	621647	< 11.		UG/L	9/09/94	UJ	N-Nitrosodi-n-propylamine
AAB2051	94.11770	62759	< 11.		UG/L	9/09/94	UJ	N-Nitrosodimethylamine
AAB2051	94.11770	86306	< 11.		UG/L	9/09/94	UJ	N-Nitrosodiphenylamine
AAB2051	94.11770	87865	< 56.		UG/L	9/09/94		Pentachlorophenol
AAB2051	94.11770	85018	< 11.		UG/L	9/09/94	UJ	Phenanthrene

********** EM-9 ANALYTICAL REPORT **********

CUSTOMER NUMBER	SAMPLE NUMBER	ANALYSIS		ANALYTICAL RESULT	ANALYTICAL UNCERTAINTY	UNITS	COMPLETION DATE	COMMENT	COMPOUND NAME
AAB2051	94.11770	108952		< 11.		UG/L	9/09/94		Phenol
AAB2051	94.11770	129000		< 11.		UG/L	9/09/94	UJ	Pyrene
AAB2051	94.11770	120821		< 11.		UG/L	9/09/94	UJ	1,2,4-Trichlorobenzene
AAB2051	94.11770	95954		< 56.		UG/L	9/09/94	UJ	2,4,5-Trichlorophenol
AAB2051	94.11770	88062		< 11.		UG/L	9/09/94		2,4,6-Trichlorophenol

Tentatively Identified Compounds in Customer Sample # 94.11770

CUSTOMER NUMBER	SAMPLE NUMBER	ANALYSIS		ANALYTICAL RESULT	ANALYTICAL UNCERTAINTY	UNITS	COMPLETION DATE	COMMENT	COMPOUND NAME
AAB2051	94.11770	103822	TI	14.		UG/L	9/09/94		Benzene Acetic Acid
AAB2051	94.11770	105	TI	13.		UG/L	9/09/94		Unknown organic acid
AAB2051	94.11770	105	TI	28.		UG/L	9/09/94		Unknown organic acid
AAB2051	94.11770	100	TI	12.		UG/L	9/09/94		Unknown organic compound

********** EM-9 ANALYTICAL REPORT **********

Rainwater drums EPA SEMIVOLATILES Prepared by: LAK on 9-Sep-1994

REQUEST NUMBER: 17761 MATRIX: W ANALYST: 311 PROGRAM CODE: M83H NOTEBOOK: 71294B1 PAGE:

OWNER: Garry Allen GROUP: CST-6 MAIL-STOP: E525 PHONE: 7-3394 TECHNIQUE: GCMS ANALYTICAL PROCEDURE: EPA SW-846 3RD

Customer Sample Results, Sample # 94.11771 Date Collected: 6/17/94 Date Received: 6/20/94 Date Extracted: 6/23/94 Date Analyzed: 7/13/94

CUSTOMER NUMBER	SAMPLE NUMBER	ANALYSIS	ANALYTICAL RESULT	ANALYTICAL UNCERTAINTY	UNITS	COMPLETION DATE	COMMENT	COMPOUND NAME
AAB2049	94.11771	83329	< 11.		UG/L	9/09/94		Acenaphthene
AAB2049	94.11771	208968	< 11.		UG/L	9/09/94		Acenaphthylene
AAB2049	94.11771	62533	< 11.		UG/L	9/09/94		Aniline
AAB2049	94.11771	120127	< 11.		UG/L	9/09/94		Anthracene
AAB2049	94.11771	56553	< 11.		UG/L	9/09/94		Benzo[a]anthracene
AAB2049	94.11771	50328	< 11.		UG/L	9/09/94		Benzo[a]pyrene
AAB2049	94.11771	205992	< 11.		UG/L	9/09/94		Benzo[b]fluoranthene
AAB2049	94.11771	191242	< 11.		UG/L	9/09/94		Benzo[g,h,i]perylene
AAB2049	94.11771	207089	< 11.		UG/L	9/09/94		Benzo[k]fluoranthene
AAB2049	94.11771	65850	< 56.		UG/L	9/09/94		Benzoic acid
AAB2049	94.11771	100516	< 22.		UG/L	9/09/94		Benzyl alcohol
AAB2049	94.11771	111911	< 11.		UG/L	9/09/94		Bis(2-chloroethoxy)methane
AAB2049	94.11771	111444	< 11.		UG/L	9/09/94		Bis(2-chloroethyl)ether
AAB2049	94.11771	108601	< 11.		UG/L	9/09/94		Bis(2-chloroisopropyl)ether
AAB2049	94.11771	117817	< 11.		UG/L	9/09/94		Bis(2-ethylhexyl)phthalate
AAB2049	94.11771	101553	< 11.		UG/L	9/09/94		4-Bromophenylphenyl ether
AAB2049	94.11771	85687	< 11.		UG/L	9/09/94		Butyl benzyl phthalate
AAB2049	94.11771	59507	< 22.		UG/L	9/09/94		4-Chloro-3-methylphenol
AAB2049	94.11771	106478	< 22.		UG/L	9/09/94		4-Chloroaniline
AAB2049	94.11771	91587	< 11.		UG/L	9/09/94		2-Chloronaphthalene
AAB2049	94.11771	95578	< 11.		UG/L	9/09/94		o-Chlorophenol
AAB2049	94.11771	7005723	< 11.		UG/L	9/09/94		4-Chlorophenylphenyl ether
AAB2049	94.11771	218019	< 11.		UG/L	9/09/94		Chrysene
AAB2049	94.11771	84742	< 11.		UG/L	9/09/94		Di-n-butyl phthalate
AAB2049	94.11771	117840	< 11.		UG/L	9/09/94		Di-n-octyl phthalate
AAB2049	94.11771	53703	< 11.		UG/L	9/09/94		Dibenzo[a,h]anthracene

********** EM-9 ANALYTICAL REPORT **********

CUSTOMER NUMBER	SAMPLE NUMBER	ANALYSIS	ANALYTICAL RESULT	ANALYTICAL UNCERTAINTY	UNITS	COMPLETION DATE	COMMENT	COMPOUND NAME
AAB2049	94.11771	132649	< 11.		UG/L	9/09/94		Dibenzofuran
AAB2049	94.11771	95501	< 11.		UG/L	9/09/94		o-Dichlorobenzene (1,2)
AAB2049	94.11771	541731	< 11.		UG/L	9/09/94		m-Dichlorobenzene (1,3)
AAB2049	94.11771	106467	< 11.		UG/L	9/09/94		p-Dichlorobenzene (1,4)
AAB2049	94.11771	91941	< 22.		UG/L	9/09/94		3,3'-Dichlorobenzidine
AAB2049	94.11771	120832	< 11.		UG/L	9/09/94		2,4-Dichlorophenol
AAB2049	94.11771	84662	< 11.		UG/L	9/09/94		Diethyl phthalate
AAB2049	94.11771	131113	< 11.		UG/L	9/09/94		Dimethyl phthalate
AAB2049	94.11771	105679	< 11.		UG/L	9/09/94		2,4-Dimethylphenol
AAB2049	94.11771	51285	< 56.		UG/L	9/09/94		2,4-Dinitrophenol
AAB2049	94.11771	121142	< 11.		UG/L	9/09/94		2,4-Dinitrotoluene
AAB2049	94.11771	606202	< 11.		UG/L	9/09/94		2,6-Dinitrotoluene
AAB2049	94.11771	206440	< 11.		UG/L	9/09/94		Fluoranthene
AAB2049	94.11771	86737	< 11.		UG/L	9/09/94		Fluorene
AAB2049	94.11771	118741	< 11.		UG/L	9/09/94		Hexachlorobenzene
AAB2049	94.11771	87683	< 11.		UG/L	9/09/94		Hexachlorobutadiene
AAB2049	94.11771	77474	< 11.		UG/L	9/09/94		Hexachlorocyclopentadiene
AAB2049	94.11771	67721	< 11.		UG/L	9/09/94		Hexachloroethane
AAB2049	94.11771	193395	< 11.		UG/L	9/09/94		Indeno[1,2,3-cd]pyrene
AAB2049	94.11771	78591	< 11.		UG/L	9/09/94		Isophorone
AAB2049	94.11771	534521	< 56.		UG/L	9/09/94		2-Methyl-4,6-dinitrophenol
AAB2049	94.11771	91576	< 11.		UG/L	9/09/94		2-Methylnaphthalene
AAB2049	94.11771	95487	< 11.		UG/L	9/09/94		2-Methylphenol
AAB2049	94.11771	106445	< 11.		UG/L	9/09/94		4-Methylphenol
AAB2049	94.11771	91203	< 11.		UG/L	9/09/94		Naphthalene
AAB2049	94.11771	88744	< 56.		UG/L	9/09/94		2-Nitroaniline
AAB2049	94.11771	99092	< 56.		UG/L	9/09/94		3-Nitroaniline
AAB2049	94.11771	100016	< 56.		UG/L	9/09/94		4-Nitroaniline
AAB2049	94.11771	98953	< 11.		UG/L	9/09/94		Nitrobenzene
AAB2049	94.11771	88755	< 11.		UG/L	9/09/94		2-Nitrophenol
AAB2049	94.11771	100027	< 56.		UG/L	9/09/94		4-Nitrophenol
AAB2049	94.11771	621647	< 11.		UG/L	9/09/94		N-Nitrosodi-n-propylamine
AAB2049	94.11771	62759	< 11.		UG/L	9/09/94		N-Nitrosodimethylamine
AAB2049	94.11771	86306	< 11.		UG/L	9/09/94		N-Nitrosodiphenylamine
AAB2049	94.11771	87865	< 56.		UG/L	9/09/94		Pentachlorophenol
AAB2049	94.11771	85018	< 11.		UG/L	9/09/94		Phenanthrene

********** EM-9 ANALYTICAL REPORT **********

CUSTOMER NUMBER	SAMPLE NUMBER	ANALYSIS	ANALYTICAL RESULT	ANALYTICAL UNCERTAINTY	UNITS	COMPLETION DATE	COMMENT	COMPOUND NAME
AAB2049	94.11771	108952	< 11.		UG/L	9/09/94		Phenol
AAB2049	94.11771	129000	< 11.		UG/L	9/09/94		Pyrene
AAB2049	94.11771	120821	< 11.		UG/L	9/09/94		1,2,4-Trichlorobenzene
AAB2049	94.11771	95954	< 56.		UG/L	9/09/94	UJ	2,4,5-Trichlorophenol
AAB2049	94.11771	88062	< 11.		UG/L	9/09/94		2,4,6-Trichlorophenol

Tentatively Identified Compounds in Customer Sample # 94.11771

none

Rain water drums

********** EM-9 ANALYTICAL REPORT **********

EPA SEMIVOLATILES Prepared by: LAK on 9-Sep-1994

REQUEST NUMBER: 17761 MATRIX: W ANALYST: 311 PROGRAM CODE: M83H NOTEBOOK: 71294B1 PAGE:

OWNER: Garry Allen GROUP: CST-6 MAIL-STOP: E525 PHONE: 7-3394 TECHNIQUE: GCMS ANALYTICAL PROCEDURE: EPA SW-846 3RD

Customer Sample Results, Sample # 94.11772 Date Collected: 6/17/94 Date Received: 6/20/94 Date Extracted: 6/23/94 Date Analyzed: 7/13/94

CUSTOMER NUMBER	SAMPLE NUMBER	ANALYSIS	ANALYTICAL RESULT	ANALYTICAL UNCERTAINTY	UNITS	COMPLETION DATE	COMMENT	COMPOUND NAME
AAB2050	94.11772	83329	< 13.		UG/L	9/09/94		Acenaphthene
AAB2050	94.11772	208968	< 13.		UG/L	9/09/94		Acenaphthylene
AAB2050	94.11772	62533	< 13.		UG/L	9/09/94		Aniline
AAB2050	94.11772	120127	< 13.		UG/L	9/09/94		Anthracene
AAB2050	94.11772	56553	< 13.		UG/L	9/09/94		Benzo[a]anthracene
AAB2050	94.11772	50328	< 13.		UG/L	9/09/94		Benzo[a]pyrene
AAB2050	94.11772	205992	< 13.		UG/L	9/09/94		Benzo[b]fluoranthene
AAB2050	94.11772	191242	< 13.		UG/L	9/09/94		Benzo[g,h,i]perylene
AAB2050	94.11772	207089	< 13.		UG/L	9/09/94		Benzo[k]fluoranthene
AAB2050	94.11772	65850	< 63.		UG/L	9/09/94		Benzoic acid
AAB2050	94.11772	100516	< 25.		UG/L	9/09/94		Benzyl alcohol
AAB2050	94.11772	111911	< 13.		UG/L	9/09/94		Bis(2-chloroethoxy)methane
AAB2050	94.11772	111444	< 13.		UG/L	9/09/94		Bis(2-chloroethyl)ether
AAB2050	94.11772	108601	< 13.		UG/L	9/09/94		Bis(2-chloroisopropyl)ether
AAB2050	94.11772	117817	< 13.		UG/L	9/09/94		Bis(2-ethylhexyl)phthalate
AAB2050	94.11772	101553	< 13.		UG/L	9/09/94		4-Bromophenylphenyl ether
AAB2050	94.11772	85687	< 13.		UG/L	9/09/94		Butyl benzyl phthalate
AAB2050	94.11772	59507	< 25.		UG/L	9/09/94		4-Chloro-3-methylphenol
AAB2050	94.11772	106478	< 25.		UG/L	9/09/94		4-Chloroaniline
AAB2050	94.11772	91587	< 13.		UG/L	9/09/94		2-Chloronaphthalene
AAB2050	94.11772	95578	< 13.		UG/L	9/09/94		o-Chlorophenol
AAB2050	94.11772	7005723	< 13.		UG/L	9/09/94		4-Chlorophenylphenyl ether
AAB2050	94.11772	218019	< 13.		UG/L	9/09/94		Chrysene
AAB2050	94.11772	84742	< 13.		UG/L	9/09/94		Di-n-butyl phthalate
AAB2050	94.11772	117840	< 13.		UG/L	9/09/94		Di-n-octyl phthalate
AAB2050	94.11772	53703	< 13.		UG/L	9/09/94		Dibenzo[a,h]anthracene

********** EM-9 ANALYTICAL REPORT **********

CUSTOMER NUMBER	SAMPLE NUMBER	ANALYSIS	ANALYTICAL RESULT	ANALYTICAL UNCERTAINTY	UNITS	COMPLETION DATE	COMMENT	COMPOUND NAME
AAB2050	94.11772	132649	< 13.		UG/L	9/09/94		Dibenzofuran
AAB2050	94.11772	95501	< 13.		UG/L	9/09/94		o-Dichlorobenzene (1,2)
AAB2050	94.11772	541731	< 13.		UG/L	9/09/94		m-Dichlorobenzene (1,3)
AAB2050	94.11772	106467	< 13.		UG/L	9/09/94		p-Dichlorobenzene (1,4)
AAB2050	94.11772	91941	< 25.		UG/L	9/09/94		3,3'-Dichlorobenzidine
AAB2050	94.11772	120832	< 13.		UG/L	9/09/94		2,4-Dichlorophenol
AAB2050	94.11772	84662	< 13.		UG/L	9/09/94		Diethyl phthalate
AAB2050	94.11772	131113	< 13.		UG/L	9/09/94		Dimethyl phthalate
AAB2050	94.11772	105679	< 13.		UG/L	9/09/94		2,4-Dimethylphenol
AAB2050	94.11772	51285	< 63.		UG/L	9/09/94		2,4-Dinitrophenol
AAB2050	94.11772	121142	< 13.		UG/L	9/09/94		2,4-Dinitrotoluene
AAB2050	94.11772	606202	< 13.		UG/L	9/09/94		2,6-Dinitrotoluene
AAB2050	94.11772	206440	< 13.		UG/L	9/09/94		Fluoranthene
AAB2050	94.11772	86737	< 13.		UG/L	9/09/94		Fluorene
AAB2050	94.11772	118741	< 13.		UG/L	9/09/94		Hexachlorobenzene
AAB2050	94.11772	87683	< 13.		UG/L	9/09/94		Hexachlorobutadiene
AAB2050	94.11772	77474	< 13.		UG/L	9/09/94		Hexachlorocyclopentadiene
AAB2050	94.11772	67721	< 13.		UG/L	9/09/94		Hexachloroethane
AAB2050	94.11772	193395	< 13.		UG/L	9/09/94		Indeno[1,2,3-cd]pyrene
AAB2050	94.11772	78591	< 13.		UG/L	9/09/94		Isophorone
AAB2050	94.11772	534521	< 63.		UG/L	9/09/94		2-Methyl-4,6-dinitrophenol
AAB2050	94.11772	91576	< 13.		UG/L	9/09/94		2-Methylnaphthalene
AAB2050	94.11772	95487	< 13.		UG/L	9/09/94		2-Methylphenol
AAB2050	94.11772	106445	< 13.		UG/L	9/09/94		4-Methylphenol
AAB2050	94.11772	91203	< 13.		UG/L	9/09/94		Naphthalene
AAB2050	94.11772	88744	< 63.		UG/L	9/09/94		2-Nitroaniline
AAB2050	94.11772	99092	< 63.		UG/L	9/09/94		3-Nitroaniline
AAB2050	94.11772	100016	< 63.		UG/L	9/09/94		4-Nitroaniline
AAB2050	94.11772	98953	< 13.		UG/L	9/09/94		Nitrobenzene
AAB2050	94.11772	88755	< 13.		UG/L	9/09/94		2-Nitrophenol
AAB2050	94.11772	100027	< 63.		UG/L	9/09/94		4-Nitrophenol
AAB2050	94.11772	621647	< 13.		UG/L	9/09/94		N-Nitrosodi-n-propylamine
AAB2050	94.11772	62759	< 13.		UG/L	9/09/94		N-Nitrosodimethylamine
AAB2050	94.11772	86306	< 13.		UG/L	9/09/94		N-Nitrosodiphenylamine
AAB2050	94.11772	87865	< 63.		UG/L	9/09/94		Pentachlorophenol
AAB2050	94.11772	85018	< 13.		UG/L	9/09/94		Phenanthrene

********** EM-9 ANALYTICAL REPORT **********

CUSTOMER NUMBER	SAMPLE NUMBER	ANALYSIS	ANALYTICAL RESULT	ANALYTICAL UNCERTAINTY	UNITS	COMPLETION DATE	COMMENT	COMPOUND NAME
AAB2050	94.11772	108952	< 13.		UG/L	9/09/94		Phenol
AAB2050	94.11772	129000	< 13.		UG/L	9/09/94		Pyrene
AAB2050	94.11772	120821	< 13.		UG/L	9/09/94		1,2,4-Trichlorobenzene
AAB2050	94.11772	95954	< 63.		UG/L	9/09/94	UJ	2,4,5-Trichlorophenol
AAB2050	94.11772	88062	< 13.		UG/L	9/09/94		2,4,6-Trichlorophenol

Tentatively Identified Compounds in Customer Sample # 94.11772

none

********** EM-9 QUALITY ASSURANCE REPORT **********

EPA SEMIVOLATILES Prepared by: LAK on 9-Sep-1994

REQUEST NUMBER: 17761 MATRIX: W ANALYST: 311 PROGRAM CODE: M83H NOTEBOOK: 71294B1 PAGE:

O: Garry Allen GROUP: CST-6 MAIL-STOP: E525 PHONE: 7-3394 TECHNIQUE: GCMS ANALYTICAL PROCEDURE: EPA SW-846 3RD

SUMMARY OF CONTROL STATUS OF OPEN (NON-BLIND) QA SAMPLES RUN WITH THIS BATCH

There were no open (non-blind) Quality Control materials run with the samples reported above for one of the following reasons:

____ Only qualitative data requested

____ Only Blind QC samples run with this batch.

____ No QC samples run with this sample batch.

____ No QC samples for this constituent and matrix type available within EM-9

********** EM-9 QUALITY ASSURANCE REPORT **********

SUMMARY OF CONTROL STATUS OF BLANK QC SAMPLES RUN WITH THIS BATCH

Blank Results, Sample # 94.11780 Date Collected: 6/20/94 Date Received: 6/20/94 Date Extracted: 6/23/94 Date Analyzed: 7/12/94

CUSTOMER NUMBER	SAMPLE NUMBER	ANALYSIS	ANALYTICAL RESULT	ANALYTICAL UNCERTAINTY	UNITS	QC VALUE	QC UNCERTAINTY	COMPLETION DATE	COMMENT	COMPOUND NAME
00.30671	94.11780	83329	< 10.		UG/L	0.0		9/09/94	UNDER CONTROL	Acenaphthene
00.30671	94.11780	208968	< 10.		UG/L	0.0		9/09/94	UNDER CONTROL	Acenaphthylene
00.30671	94.11780	62533	< 10.		UG/L	0.0		9/09/94	UNDER CONTROL	Aniline
00.30671	94.11780	120127	< 10.		UG/L	0.0		9/09/94	UNDER CONTROL	Anthracene
00.30671	94.11780	56553	< 10.		UG/L	0.0		9/09/94	UNDER CONTROL	Benzo[a]anthracene
00.30671	94.11780	50328	< 10.		UG/L	0.0		9/09/94	UNDER CONTROL	Benzo[a]pyrene
00.30671	94.11780	205992	< 10.		UG/L	0.0		9/09/94	UNDER CONTROL	Benzo[b]fluoranthene
00.30671	94.11780	191242	< 10.		UG/L	0.0		9/09/94	UNDER CONTROL	Benzo[g,h,i]perylene
00.30671	94.11780	207089	< 10.		UG/L	0.0		9/09/94	UNDER CONTROL	Benzo[k]fluoranthene
00.30671	94.11780	65850	< 50.		UG/L	0.0		9/09/94	UNDER CONTROL	Benzoic acid
00.30671	94.11780	100516	< 20.		UG/L	0.0		9/09/94	UNDER CONTROL	Benzyl alcohol
00.30671	94.11780	111911	< 10.		UG/L	0.0		9/09/94	UNDER CONTROL	Bis(2-chloroethoxy)methane
00.30671	94.11780	111444	< 10.		UG/L	0.0		9/09/94	UNDER CONTROL	Bis(2-chloroethyl)ether
00.30671	94.11780	108601	< 10.		UG/L	0.0		9/09/94	UNDER CONTROL	Bis(2-chloroisopropyl)ether
00.30671	94.11780	117817	< 10.		UG/L	0.0		9/09/94	UNDER CONTROL	Bis(2-ethylhexyl)phthalate
00.30671	94.11780	101553	< 10.		UG/L	0.0		9/09/94	UNDER CONTROL	4-Bromophenylphenyl ether
00.30671	94.11780	85687	< 10.		UG/L	0.0		9/09/94	UNDER CONTROL	Butyl benzyl phthalate
00.30671	94.11780	59507	< 20.		UG/L	0.0		9/09/94	UNDER CONTROL	4-Chloro-3-methylphenol
00.30671	94.11780	106478	< 20.		UG/L	0.0		9/09/94	UNDER CONTROL	4-Chloroaniline
00.30671	94.11780	91587	< 10.		UG/L	0.0		9/09/94	UNDER CONTROL	2-Chloronaphthalene
00.30671	94.11780	95578	< 10.		UG/L	0.0		9/09/94	UNDER CONTROL	o-Chlorophenol

********** EM-9 QUALITY ASSURANCE REPORT **********

CUSTOMER NUMBER	SAMPLE NUMBER	ANALYSIS	ANALYTICAL RESULT	ANALYTICAL UNCERTAINTY	UNITS	QC VALUE	QC UNCERTAINTY	COMPLETION DATE	COMMENT	COMPOUND NAME
00.30671	94.11780	7005723	< 10.		UG/L	0.0		9/09/94	UNDER CONTROL	4-Chlorophenylphenyl ether
00.30671	94.11780	218019	< 10.		UG/L	0.0		9/09/94	UNDER CONTROL	Chrysene
00.30671	94.11780	84742	< 10.		UG/L	0.0		9/09/94	UNDER CONTROL	Di-n-butyl phthalate
00.30671	94.11780	117840	< 10.		UG/L	0.0		9/09/94	UNDER CONTROL	Di-n-octyl phthalate
00.30671	94.11780	53703	< 10.		UG/L	0.0		9/09/94	UNDER CONTROL	Dibenzo[a,h]anthracene
00.30671	94.11780	132649	< 10.		UG/L	0.0		9/09/94	UNDER CONTROL	Dibenzofuran
00.30671	94.11780	95501	< 10.		UG/L	0.0		9/09/94	UNDER CONTROL	o-Dichlorobenzene (1,2)
00.30671	94.11780	541731	< 10.		UG/L	0.0		9/09/94	UNDER CONTROL	m-Dichlorobenzene (1,3)
00.30671	94.11780	106467	< 10.		UG/L	0.0		9/09/94	UNDER CONTROL	p-Dichlorobenzene (1,4)
00.30671	94.11780	91941	< 20.		UG/L	0.0		9/09/94	UNDER CONTROL	3,3'-Dichlorobenzidine
00.30671	94.11780	120832	< 10.		UG/L	0.0		9/09/94	UNDER CONTROL	2,4-Dichlorophenol
00.30671	94.11780	84662	< 10.		UG/L	0.0		9/09/94	UNDER CONTROL	Diethyl phthalate
00.30671	94.11780	131113	< 10.		UG/L	0.0		9/09/94	UNDER CONTROL	Dimethyl phthalate
00.30671	94.11780	105679	< 10.		UG/L	0.0		9/09/94	UNDER CONTROL	2,4-Dimethylphenol
00.30671	94.11780	51285	< 50.		UG/L	0.0		9/09/94	UNDER CONTROL	2,4-Dinitrophenol
00.30671	94.11780	121142	< 10.		UG/L	0.0		9/09/94	UNDER CONTROL	2,4-Dinitrotoluene
00.30671	94.11780	606202	< 10.		UG/L	0.0		9/09/94	UNDER CONTROL	2,6-Dinitrotoluene
00.30671	94.11780	206440	< 10.		UG/L	0.0		9/09/94	UNDER CONTROL	Fluoranthene
00.30671	94.11780	86737	< 10.		UG/L	0.0		9/09/94	UNDER CONTROL	Fluorene
00.30671	94.11780	118741	< 10.		UG/L	0.0		9/09/94	UNDER CONTROL	Hexachlorobenzene
00.30671	94.11780	87683	< 10.		UG/L	0.0		9/09/94	UNDER CONTROL	Hexachlorobutadiene
00.30671	94.11780	77474	< 10.		UG/L	0.0		9/09/94	UNDER CONTROL	Hexachlorocyclopentadiene
00.30671	94.11780	67721	< 10.		UG/L	0.0		9/09/94	UNDER CONTROL	Hexachloroethane
00.30671	94.11780	193395	< 10.		UG/L	0.0		9/09/94	UNDER CONTROL	Indeno[1,2,3-cd]pyrene
00.30671	94.11780	78591	< 10.		UG/L	0.0		9/09/94	UNDER CONTROL	Isophorone
00.30671	94.11780	534521	< 50.		UG/L	0.0		9/09/94	UNDER CONTROL	2-Methyl-4,6-dinitrophenol
00.30671	94.11780	91576	< 10.		UG/L	0.0		9/09/94	UNDER CONTROL	2-Methylnaphthalene
00.30671	94.11780	95487	< 10.		UG/L	0.0		9/09/94	UNDER CONTROL	2-Methylphenol
00.30671	94.11780	106445	< 10.		UG/L	0.0		9/09/94	UNDER CONTROL	4-Methylphenol
00.30671	94.11780	91203	< 10.		UG/L	0.0		9/09/94	UNDER CONTROL	Naphthalene
00.30671	94.11780	88744	< 50.		UG/L	0.0		9/09/94	UNDER CONTROL	2-Nitroaniline
00.30671	94.11780	99092	< 50.		UG/L	0.0		9/09/94	UNDER CONTROL	3-Nitroaniline
00.30671	94.11780	100016	< 50.		UG/L	0.0		9/09/94	UNDER CONTROL	4-Nitroaniline
00.30671	94.11780	98953	< 10.		UG/L	0.0		9/09/94	UNDER CONTROL	Nitrobenzene
00.30671	94.11780	88755	< 10.		UG/L	0.0		9/09/94	UNDER CONTROL	2-Nitrophenol
00.30671	94.11780	100027	< 50.		UG/L	0.0		9/09/94	UNDER CONTROL	4-Nitrophenol

********** EM-9 QUALITY ASSURANCE REPORT **********

CUSTOMER NUMBER	SAMPLE NUMBER	ANALYSIS	ANALYTICAL RESULT	ANALYTICAL UNCERTAINTY	UNITS	QC VALUE	QC UNCERTAINTY	COMPLETION DATE	COMMENT	COMPOUND NAME
00.30671	94.11780	621647	< 10.		UG/L	0.0		9/09/94	UNDER CONTROL	N-Nitrosodi-n-propylamine
00.30671	94.11780	62759	< 10.		UG/L	0.0		9/09/94	UNDER CONTROL	N-Nitrosodimethylamine
00.30671	94.11780	86306	< 10.		UG/L	0.0		9/09/94	UNDER CONTROL	N-Nitrosodiphenylamine
00.30671	94.11780	87865	< 50.		UG/L	0.0		9/09/94	UNDER CONTROL	Pentachlorophenol
00.30671	94.11780	85018	< 10.		UG/L	0.0		9/09/94	UNDER CONTROL	Phenanthrene
00.30671	94.11780	108952	< 10.		UG/L	0.0		9/09/94	UNDER CONTROL	Phenol
00.30671	94.11780	129000	< 10.		UG/L	0.0		9/09/94	UNDER CONTROL	Pyrene
00.30671	94.11780	120821	< 10.		UG/L	0.0		9/09/94	UNDER CONTROL	1,2,4-Trichlorobenzene
00.30671	94.11780	95954	< 50.		UG/L	0.0		9/09/94	UNDER CONTROL	2,4,5-Trichlorophenol
00.30671	94.11780	88062	< 10.		UG/L	0.0		9/09/94	UNDER CONTROL	2,4,6-Trichlorophenol

Blank Spike Results: none

Blank Spike Duplicate Results: none

********** EM-9 QUALITY ASSURANCE REPORT **********

SUMMARY OF CONTROL STATUS OF BLIND QA SAMPLES RUN WITH THIS BATCH

Blind QC Results, Sample # 94.11775 Date Collected: 6/20/94 Date Received: 6/20/94 Date Extracted: 6/23/94 Date Analyzed: 7/13/94

SAMPLE NUM	ANALYSIS	ANALYTICAL RESULT	ANALYTICAL UNCERTAINTY	UNITS	QC VALUE	QC UNCERTAINTY	COMPLETION DATE	COMMENT	COMPOUND-NAME
94.11775	83329	< 10.		UG/L	0.0		9/09/94	UNDER CONTROL	Acenaphthene
94.11775	208968	< 10.		UG/L	0.0		9/09/94	UNDER CONTROL	Acenaphthylene
94.11775	62533	< 10.		UG/L	0.0		9/09/94	UNDER CONTROL	Aniline
94.11775	120127	< 10.		UG/L	0.0		9/09/94	UNDER CONTROL	Anthracene
94.11775	56553	< 10.		UG/L	0.0		9/09/94	UNDER CONTROL	Benzo[a]anthracene
94.11775	50328	< 10.		UG/L	0.0		9/09/94	UNDER CONTROL	Benzo[a]pyrene
94.11775	205992	< 10.		UG/L	0.0		9/09/94	UNDER CONTROL	Benzo[b]fluoranthene
94.11775	191242	< 10.		UG/L	0.0		9/09/94	UNDER CONTROL	Benzo[g,h,i]perylene
94.11775	207089	< 10.		UG/L	0.0		9/09/94	UNDER CONTROL	Benzo[k]fluoranthene
94.11775	65850	< 50.		UG/L	0.0		9/09/94	UNDER CONTROL	Benzoic acid
94.11775	100516	< 20.		UG/L	0.0		9/09/94	UNDER CONTROL	Benzyl alcohol
94.11775	111911	< 10.		UG/L	0.0		9/09/94	UNDER CONTROL	Bis(2-chloroethoxy)methane
94.11775	111444	< 10.		UG/L	0.0		9/09/94	UNDER CONTROL	Bis(2-chloroethyl)ether
94.11775	108601	< 10.		UG/L	0.0		9/09/94	UNDER CONTROL	Bis(2-chloroisopropyl)ether
94.11775	117817	< 10.		UG/L	0.0		9/09/94	UNDER CONTROL	Bis(2-ethylhexyl)phthalate
94.11775	101553	< 10.		UG/L	0.0		9/09/94	UNDER CONTROL	4-Bromophenylphenyl ether
94.11775	85687	< 10.		UG/L	0.0		9/09/94	UNDER CONTROL	Butyl benzyl phthalate
94.11775	59507	< 20.		UG/L	0.0		9/09/94	UNDER CONTROL	4-Chloro-3-methylphenol
94.11775	106478	< 20.		UG/L	0.0		9/09/94	UNDER CONTROL	4-Chloroaniline
94.11775	91587	< 10.		UG/L	0.0		9/09/94	UNDER CONTROL	2-Chloronaphthalene
94.11775	95578	37.	11.1	UG/L	64.7	6.5	9/09/94	WARNING 2-3 SIG	o-Chlorophenol
94.11775	7005723	< 10.		UG/L	0.0		9/09/94	UNDER CONTROL	4-Chlorophenylphenyl ether
94.11775	218019	< 10.		UG/L	0.0		9/09/94	UNDER CONTROL	Chrysene
94.11775	84742	< 10.		UG/L	0.0		9/09/94	UNDER CONTROL	Di-n-butyl phthalate
94.11775	117840	< 10.		UG/L	0.0		9/09/94	UNDER CONTROL	Di-n-octyl phthalate
94.11775	53703	< 10.		UG/L	0.0		9/09/94	UNDER CONTROL	Dibenzo[a,h]anthracene

94.11775	132649	< 10.		UG/L	0.0		9/09/94	UNDER CONTROL	Dibenzofuran
94.11775	95501	< 10.		UG/L	0.0		9/09/94	UNDER CONTROL	o-Dichlorobenzene (1,2)
94.11775	541731	< 10.		UG/L	0.0		9/09/94	UNDER CONTROL	m-Dichlorobenzene (1,3)
94.11775	106467	< 10.		UG/L	0.0		9/09/94	UNDER CONTROL	p-Dichlorobenzene (1,4)
94.11775	91941	< 20.		UG/L	0.0		9/09/94	UNDER CONTROL	3,3'-Dichlorobenzidine
94.11775	120832	54.	16.2	UG/L	102.	10.2	9/09/94	WARNING 2-3 SIG	2,4-Dichlorophenol
94.11775	84662	< 10.		UG/L	0.0		9/09/94	UNDER CONTROL	Diethyl phthalate
94.11775	131113	< 10.		UG/L	0.0		9/09/94	UNDER CONTROL	Dimethyl phthalate
94.11775	105679	< 10.		UG/L	0.0		9/09/94	UNDER CONTROL	2,4-Dimethylphenol
94.11775	51285	< 50.		UG/L	0.0		9/09/94	UNDER CONTROL	2,4-Dinitrophenol
94.11775	121142	< 10.		UG/L	0.0		9/09/94	UNDER CONTROL	2,4-Dinitrotoluene
94.11775	606202	< 10.		UG/L	0.0		9/09/94	UNDER CONTROL	2,6-Dinitrotoluene
94.11775	206440	< 10.		UG/L	0.0		9/09/94	UNDER CONTROL	Fluoranthene
94.11775	86737	< 10.		UG/L	0.0		9/09/94	UNDER CONTROL	Fluorene
94.11775	118741	< 10.		UG/L	0.0		9/09/94	UNDER CONTROL	Hexachlorobenzene
94.11775	87683	< 10.		UG/L	0.0		9/09/94	UNDER CONTROL	Hexachlorobutadiene
94.11775	77474	< 10.		UG/L	0.0		9/09/94	UNDER CONTROL	Hexachlorocyclopentadiene
94.11775	67721	< 10.		UG/L	0.0		9/09/94	UNDER CONTROL	Hexachloroethane
94.11775	193395	< 10.		UG/L	0.0		9/09/94	UNDER CONTROL	Indeno[1,2,3-cd]pyrene
94.11775	78591	< 10.		UG/L	0.0		9/09/94	UNDER CONTROL	Isophorone
94.11775	534521	< 50.		UG/L	0.0		9/09/94	UNDER CONTROL	2-Methyl-4,6-dinitrophenol
94.11775	91576	< 10.		UG/L	0.0		9/09/94	UNDER CONTROL	2-Methylnaphthalene
94.11775	95487	52.	15.6	UG/L	81.5	8.2	9/09/94	UNDER CONTROL	2-Methylphenol
94.11775	106445	< 10.		UG/L	0.0		9/09/94	UNDER CONTROL	4-Methylphenol
94.11775	91203	< 10.		UG/L	0.0		9/09/94	UNDER CONTROL	Naphthalene
94.11775	88744	< 50.		UG/L	0.0		9/09/94	UNDER CONTROL	2-Nitroaniline
94.11775	99092	< 50.		UG/L	0.0		9/09/94	UNDER CONTROL	3-Nitroaniline
94.11775	100016	< 50.		UG/L	0.0		9/09/94	UNDER CONTROL	4-Nitroaniline
94.11775	98953	< 10.		UG/L	0.0		9/09/94	UNDER CONTROL	Nitrobenzene
94.11775	88755	< 10.		UG/L	0.0		9/09/94	UNDER CONTROL	2-Nitrophenol
94.11775	100027	< 50.		UG/L	0.0		9/09/94	UNDER CONTROL	4-Nitrophenol
94.11775	621647	< 10.		UG/L	0.0		9/09/94	UNDER CONTROL	N-Nitrosodi-n-propylamine
94.11775	62759	< 10.		UG/L	0.0		9/09/94	UNDER CONTROL	N-Nitrosodimethylamine
94.11775	86306	< 10.		UG/L	0.0		9/09/94	UNDER CONTROL	N-Nitrosodiphenylamine
94.11775	87865	60.	18.	UG/L	109.	10.9	9/09/94	WARNING 2-3 SIG	Pentachlorophenol
94.11775	85018	< 10.		UG/L	0.0		9/09/94	UNDER CONTROL	Phenanthrene
94.11775	108952	< 10.		UG/L	0.0		9/09/94	UNDER CONTROL	Phenol
94.11775	129000	< 10.		UG/L	0.0		9/09/94	UNDER CONTROL	Pyrene
94.11775	120821	< 10.		UG/L	0.0		9/09/94	UNDER CONTROL	1,2,4-Trichlorobenzene
94.11775	95954	59.	17.7	UG/L	119.	11.9	9/09/94	WARNING 2-3 SIG	2,4,5-Trichlorophenol
94.11775	88062	40.	12.	UG/L	79.3	7.9	9/09/94	WARNING 2-3 SIG	2,4,6-Trichlorophenol

The following QA's (blind or open) have no CV data for comparison

********** EM-9 QUALITY ASSURANCE REPORT **********

SURROGATE RESULTS FOR EPA SEMIVOLATILES

Surrogate 1 = 2-Fluorophenol (CAS # = 367124)
Surrogate 2 = Phenol-d5 (CAS # = 4165622)
Surrogate 3 = Nitrobenzene-d5 (CAS # = 4165600)
Surrogate 4 = 2-Fluorobiphenyl (CAS # = 321608)
Surrogate 5 = 2,4,6-Tribromophenol (CAS # = 118796)
Surrogate 6 = p-Terphenyl-d14 (CAS # =)
Surrogate 7 = 4-Chloroanaline (CAS # = 106478)

SAMPLE NUMBER	UNITS	Surrogate 1	Surrogate 2	Surrogate 3	Surrogate 4	Surrogate 5	Surrogate 6	Surrogate 7	COMPLETION DATE
94.11770	%	45.	53.	49.	39.	30.	13.		9-Sep-1994
94.11771	%	47.	56.	51.	43.	43.	17.		9-Sep-1994
94.11772	%	43.	52.	51.	44.	50.	20.		9-Sep-1994
94.11775	%	51.	54.	55.	43.	51.	56.		9-Sep-1994
94.11780	%	52.	56.	55.	45.	45.	53.		9-Sep-1994
EPA Limits:									
Water	%	21 - 100	10 - 94	35 - 114	43 - 116	10 - 123	33 - 141	34 - 120	
Soil	%	25 - 121	24 - 113	23 - 120	30 - 115	19 - 122	18 - 137		

REPORT NUMBER: 27557

Analyst	Reviewer	Section Leader	QA Officer
	Laura Kelly		mag
Date	9/9/94	Date	9-9-94

No Sample Discrepancies Noted by Sample Management Section

The control status of the preceeding data was evaluated using the standard statistical criteria set forth in

'Quality Assurance for Health and Environmental Chemistry: 1992,' LA-12790-MS, Vol. 1, pp. 19-20

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Rainwater drums

********** EM-9 ANALYTICAL REPORT **********

EPA VOLATILES Prepared by: LAK on 11-Oct-1994

REQUEST NUMBER: 18766 MATRIX: W ANALYST: 211 PROGRAM CODE: M83B NOTEBOOK: 9409028 PAGE:

OWNER: Garry Allen GROUP: CST-6 MAIL-STOP: E525 PHONE: 7-3394 TECHNIQUE: GCMS ANALYTICAL PROCEDURE: EPA SW-846 3RD

Customer Sample Results, Sample # 94.20779 Date Collected: 8/30/94 Date Received: 8/31/94 Date Extracted: 9/09/94 Date Analyzed: 9/09/94

CUSTOMER NUMBER	SAMPLE NUMBER	ANALYSIS	ANALYTICAL RESULT	ANALYTICAL UNCERTAINTY	UNITS	COMPLETION DATE	COMMENT	COMPOUND NAME
AAB7693	94.20779	67641	< 20.		UG/L	10/11/94		Acetone
AAB7693	94.20779	71432	< 5.		UG/L	10/11/94		Benzene
AAB7693	94.20779	108861	< 5.		UG/L	10/11/94		Bromobenzene
AAB7693	94.20779	74975	< 5.		UG/L	10/11/94		Bromochloromethane
AAB7693	94.20779	75274	< 5.		UG/L	10/11/94		Bromodichloromethane
AAB7693	94.20779	75252	< 5.		UG/L	10/11/94		Bromoform
AAB7693	94.20779	74839	< 10.		UG/L	10/11/94		Bromomethane
AAB7693	94.20779	78933	< 20.		UG/L	10/11/94		2-Butanone
AAB7693	94.20779	104518	< 5.		UG/L	10/11/94		n-Butylbenzene
AAB7693	94.20779	135988	< 5.		UG/L	10/11/94		sec-Butylbenzene
AAB7693	94.20779	98066	< 5.		UG/L	10/11/94		tert-Butylbenzene
AAB7693	94.20779	75150	< 5.		UG/L	10/11/94		Carbon disulfide
AAB7693	94.20779	56235	< 5.		UG/L	10/11/94		Carbon tetrachloride
AAB7693	94.20779	108907	< 5.		UG/L	10/11/94		Chlorobenzene
AAB7693	94.20779	124481	< 5.		UG/L	10/11/94		Chlorodibromomethane
AAB7693	94.20779	75003	< 10.		UG/L	10/11/94		Chloroethane
AAB7693	94.20779	67663	< 5.		UG/L	10/11/94		Chloroform
AAB7693	94.20779	74873	< 10.		UG/L	10/11/94		Chloromethane
AAB7693	94.20779	95498	< 5.		UG/L	10/11/94		o-Chlorotoluene
AAB7693	94.20779	106434	< 5.		UG/L	10/11/94		p-Chlorotoluene
AAB7693	94.20779	96128	< 10.		UG/L	10/11/94		1,2-Dibromo-3-chloropropane
AAB7693	94.20779	74953	< 5.		UG/L	10/11/94		Dibromomethane
AAB7693	94.20779	95501	< 5.		UG/L	10/11/94		o-Dichlorobenzene (1,2)
AAB7693	94.20779	541731	< 5.		UG/L	10/11/94		m-Dichlorobenzene (1,3)
AAB7693	94.20779	106467	< 5.		UG/L	10/11/94		p-Dichlorobenzene (1,4)
AAB7693	94.20779	75718	< 10.		UG/L	10/11/94		Dichlorodifluoromethane

********** EM-9 ANALYTICAL REPORT **********

CUSTOMER NUMBER	SAMPLE NUMBER	ANALYSIS	ANALYTICAL RESULT	ANALYTICAL UNCERTAINTY	UNITS	COMPLETION DATE	COMMENT	COMPOUND NAME
AAB7693	94.20779	75343	< 5.		UG/L	10/11/94		1,1-Dichloroethane
AAB7693	94.20779	107062	< 5.		UG/L	10/11/94		1,2-Dichloroethane
AAB7693	94.20779	75354	< 5.		UG/L	10/11/94		1,1-Dichloroethene
AAB7693	94.20779	156605	< 5.		UG/L	10/11/94		trans-1,2-Dichloroethene
AAB7693	94.20779	156592	< 5.		UG/L	10/11/94		cis-1,2-Dichloroethylene
AAB7693	94.20779	78875	< 5.		UG/L	10/11/94		1,2-Dichloropropane
AAB7693	94.20779	142289	< 5.		UG/L	10/11/94		1,3-Dichloropropane
AAB7693	94.20779	594207	< 5.		UG/L	10/11/94		2,2-Dichloropropane
AAB7693	94.20779	563586	< 5.		UG/L	10/11/94		1,1-Dichloropropene
AAB7693	94.20779	10061015	< 5.		UG/L	10/11/94		cis-1,3-Dichloropropene
AAB7693	94.20779	10061026	< 5.		UG/L	10/11/94		trans-1,3-Dichloropropene
AAB7693	94.20779	100414	< 5.		UG/L	10/11/94		Ethylbenzene
AAB7693	94.20779	106934	< 5.		UG/L	10/11/94		Ethylene dibromide
AAB7693	94.20779	87683	< 5.		UG/L	10/11/94		Hexachlorobutadiene
AAB7693	94.20779	591786	< 20.		UG/L	10/11/94		2-Hexanone
AAB7693	94.20779	98828	< 5.		UG/L	10/11/94		Isopropylbenzene
AAB7693	94.20779	99876	< 5.		UG/L	10/11/94		4-Isopropyltoluene
AAB7693	94.20779	74884	< 5.		UG/L	10/11/94		Methyl iodide
AAB7693	94.20779	108101	< 20.		UG/L	10/11/94		4-Methyl-2-pentanone
AAB7693	94.20779	75092	< 5.		UG/L	10/11/94		Methylene chloride
AAB7693	94.20779	91203	< 5.		UG/L	10/11/94		Naphthalene
AAB7693	94.20779	103651	< 5.		UG/L	10/11/94		Propylbenzene
AAB7693	94.20779	100425	< 5.		UG/L	10/11/94		Styrene
AAB7693	94.20779	630206	< 5.		UG/L	10/11/94		1,1,1,2-Tetrachloroethane
AAB7693	94.20779	79345	< 5.		UG/L	10/11/94		1,1,2,2-Tetrachloroethane
AAB7693	94.20779	127184	< 5.		UG/L	10/11/94		Tetrachloroethylene
AAB7693	94.20779	108883	40.	12.	UG/L	10/11/94		Toluene
AAB7693	94.20779	76131	< 5.		UG/L	10/11/94		1,1,2-Trichloro-1,2,2-trifluoroethane
AAB7693	94.20779	87616	< 5.		UG/L	10/11/94		1,2,3-Trichlorobenzene
AAB7693	94.20779	120821	< 5.		UG/L	10/11/94		1,2,4-Trichlorobenzene
AAB7693	94.20779	71556	< 5.		UG/L	10/11/94		1,1,1-Trichloroethane
AAB7693	94.20779	79005	< 5.		UG/L	10/11/94		1,1,2-Trichloroethane
AAB7693	94.20779	79016	< 5.		UG/L	10/11/94		Trichloroethene
AAB7693	94.20779	75694	< 5.		UG/L	10/11/94		Trichlorofluoromethane
AAB7693	94.20779	96184	< 5.		UG/L	10/11/94		1,2,3-Trichloropropane
AAB7693	94.20779	95636	< 5.		UG/L	10/11/94		1,2,4-Trimethylbenzene

********** EM-9 ANALYTICAL REPORT **********

CUSTOMER NUMBER	SAMPLE NUMBER	ANALYSIS		ANALYTICAL RESULT	ANALYTICAL UNCERTAINTY	UNITS	COMPLETION DATE	COMMENT	COMPOUND NAME
AAB7693	94.20779	108678		< 5.		UG/L	10/11/94		1,3,5-Trimethylbenzene
AAB7693	94.20779	75014		< 10.		UG/L	10/11/94		Vinyl chloride
AAB7693	94.20779	1330207		< 5.		UG/L	10/11/94		Mixed-Xylenes (o ± m ± p)

Tentatively Identified Compounds in Customer Sample # 94.20779

CUSTOMER NUMBER	SAMPLE NUMBER	ANALYSIS		ANALYTICAL RESULT	ANALYTICAL UNCERTAINTY	UNITS	COMPLETION DATE	COMMENT	COMPOUND NAME
AAB7693	94.20779	160	TI	7.		UG/L	10/11/94		Terpene Hydrocarbons
AAB7693	94.20779	100	TI	11.		UG/L	10/11/94		Unknown organic compound

********** EM-9 ANALYTICAL REPORT **********

Matrix Spike Results for Sample # 94.20779 Date Collected: 8/30/94 Date Received: 8/31/94 Date Extracted: 9/09/94 Date Analyzed: 9/09/94

CUSTOMER NUMBER	SAMPLE NUMBER	ANALYSIS	AMOUNT SPIKED	AMOUNT RECOVERED	UNITS	COMPLETION DATE	COMMENT	COMPOUND NAME
AAB7693	94.20779	71432	50.	44.2	UG/L	10/11/94		Benzene
AAB7693	94.20779	108907	50.	50.3	UG/L	10/11/94		Chlorobenzene
AAB7693	94.20779	75343	50.	57.3	UG/L	10/11/94		1,1-Dichloroethane
AAB7693	94.20779	108883	50.	94.8	UG/L	10/11/94		Toluene
AAB7693	94.20779	79016	50.	51.3	UG/L	10/11/94		Trichloroethene

Matrix Spike Duplicate Results for Sample # 94.20779 Date Collected: 8/30/94 Date Received: 8/31/94 Date Extracted: 9/09/94 Date Analyzed: 9/09/94

CUSTOMER NUMBER	SAMPLE NUMBER	ANALYSIS	AMOUNT SPIKED	AMOUNT RECOVERED	UNITS	COMPLETION DATE	COMMENT	COMPOUND NAME
AAB7693	94.20779	71432	50.	49.3	UG/L	10/11/94		Benzene
AAB7693	94.20779	108907	50.	48.6	UG/L	10/11/94		Chlorobenzene
AAB7693	94.20779	75343	50.	50.2	UG/L	10/11/94		1,1-Dichloroethane
AAB7693	94.20779	108883	50.	92.9	UG/L	10/11/94		Toluene
AAB7693	94.20779	79016	50.	49.8	UG/L	10/11/94		Trichloroethene

Rainwater Drums

********** EM-9 ANALYTICAL REPORT **********

EPA VOLATILES Prepared by: LAK on 11-Oct-1994

REQUEST NUMBER: 18766 MATRIX: W ANALYST: 211 PROGRAM CODE: M83B NOTEBOOK: 9409028 PAGE:

OWNER: Garry Allen GROUP: CST-6 MAIL-STOP: E525 PHONE: 7-3394 TECHNIQUE: GCMS ANALYTICAL PROCEDURE: EPA SW-846 3RD

Customer Sample Results, Sample # 94.20780 Date Collected: 8/30/94 Date Received: 8/31/94 Date Extracted: 9/09/94 Date Analyzed: 9/09/94

CUSTOMER NUMBER	SAMPLE NUMBER	ANALYSIS	ANALYTICAL RESULT	ANALYTICAL UNCERTAINTY	UNITS	COMPLETION DATE	COMMENT	COMPOUND NAME
AAB7691	94.20780	67641	< 20.		UG/L	10/11/94		Acetone
AAB7691	94.20780	71432	< 5.		UG/L	10/11/94		Benzene
AAB7691	94.20780	108861	< 5.		UG/L	10/11/94		Bromobenzene
AAB7691	94.20780	74975	< 5.		UG/L	10/11/94		Bromochloromethane
AAB7691	94.20780	75274	< 5.		UG/L	10/11/94		Bromodichloromethane
AAB7691	94.20780	75252	< 5.		UG/L	10/11/94		Bromoform
AAB7691	94.20780	74839	< 10.		UG/L	10/11/94		Bromomethane
AAB7691	94.20780	78933	< 20.		UG/L	10/11/94		2-Butanone
AAB7691	94.20780	104518	< 5.		UG/L	10/11/94		n-Butylbenzene
AAB7691	94.20780	135988	< 5.		UG/L	10/11/94		sec-Butylbenzene
AAB7691	94.20780	98066	< 5.		UG/L	10/11/94		tert-Butylbenzene
AAB7691	94.20780	75150	< 5.		UG/L	10/11/94		Carbon disulfide
AAB7691	94.20780	56235	< 5.		UG/L	10/11/94		Carbon tetrachloride
AAB7691	94.20780	108907	< 5.		UG/L	10/11/94		Chlorobenzene
AAB7691	94.20780	124481	< 5.		UG/L	10/11/94		Chlorodibromomethane
AAB7691	94.20780	75003	< 10.		UG/L	10/11/94		Chloroethane
AAB7691	94.20780	67663	< 5.		UG/L	10/11/94		Chloroform
AAB7691	94.20780	74873	< 10.		UG/L	10/11/94		Chloromethane
AAB7691	94.20780	95498	< 5.		UG/L	10/11/94		o-Chlorotoluene
AAB7691	94.20780	106434	< 5.		UG/L	10/11/94		p-Chlorotoluene
AAB7691	94.20780	96128	< 10.		UG/L	10/11/94		1,2-Dibromo-3-chloropropane
AAB7691	94.20780	74953	< 5.		UG/L	10/11/94		Dibromomethane
AAB7691	94.20780	95501	< 5.		UG/L	10/11/94		o-Dichlorobenzene (1,2)
AAB7691	94.20780	541731	< 5.		UG/L	10/11/94		m-Dichlorobenzene (1,3)
AAB7691	94.20780	106467	< 5.		UG/L	10/11/94		p-Dichlorobenzene (1,4)
AAB7691	94.20780	75718	< 10.		UG/L	10/11/94		Dichlorodifluoromethane

********** EM-9 ANALYTICAL REPORT **********

CUSTOMER NUMBER	SAMPLE NUMBER	ANALYSIS	ANALYTICAL RESULT	ANALYTICAL UNCERTAINTY	UNITS	COMPLETION DATE	COMMENT	COMPOUND NAME
AAB7691	94.20780	75343	< 5.		UG/L	10/11/94		1,1-Dichloroethane
AAB7691	94.20780	107062	< 5.		UG/L	10/11/94		1,2-Dichloroethane
AAB7691	94.20780	75354	< 5.		UG/L	10/11/94		1,1-Dichloroethene
AAB7691	94.20780	156605	< 5.		UG/L	10/11/94		trans-1,2-Dichloroethene
AAB7691	94.20780	156592	< 5.		UG/L	10/11/94		cis-1,2-Dichloroethylene
AAB7691	94.20780	78875	< 5.		UG/L	10/11/94		1,2-Dichloropropane
AAB7691	94.20780	142289	< 5.		UG/L	10/11/94		1,3-Dichloropropane
AAB7691	94.20780	594207	< 5.		UG/L	10/11/94		2,2-Dichloropropane
AAB7691	94.20780	563586	< 5.		UG/L	10/11/94		1,1-Dichloropropene
AAB7691	94.20780	10061015	< 5.		UG/L	10/11/94		cis-1,3-Dichloropropene
AAB7691	94.20780	10061026	< 5.		UG/L	10/11/94		trans-1,3-Dichloropropene
AAB7691	94.20780	100414	< 5.		UG/L	10/11/94		Ethylbenzene
AAB7691	94.20780	106934	< 5.		UG/L	10/11/94		Ethylene dibromide
AAB7691	94.20780	87683	< 5.		UG/L	10/11/94		Hexachlorobutadiene
AAB7691	94.20780	591786	< 20.		UG/L	10/11/94		2-Hexanone
AAB7691	94.20780	98828	< 5.		UG/L	10/11/94		Isopropylbenzene
AAB7691	94.20780	99876	< 5.		UG/L	10/11/94		4-Isopropyltoluene
AAB7691	94.20780	74884	< 5.		UG/L	10/11/94		Methyl iodide
AAB7691	94.20780	108101	< 20.		UG/L	10/11/94		4-Methyl-2-pentanone
AAB7691	94.20780	75092	< 5.		UG/L	10/11/94		Methylene chloride
AAB7691	94.20780	91203	< 5.		UG/L	10/11/94		Naphthalene
AAB7691	94.20780	103651	< 5.		UG/L	10/11/94		Propylbenzene
AAB7691	94.20780	100425	< 5.		UG/L	10/11/94		Styrene
AAB7691	94.20780	630206	< 5.		UG/L	10/11/94		1,1,1,2-Tetrachloroethane
AAB7691	94.20780	79345	< 5.		UG/L	10/11/94		1,1,2,2-Tetrachloroethane
AAB7691	94.20780	127184	< 5.		UG/L	10/11/94		Tetrachloroethylene
AAB7691	94.20780	108883	< 5.		UG/L	10/11/94		Toluene
AAB7691	94.20780	76131	< 5.		UG/L	10/11/94		1,1,2-Trichloro-1,2,2-trifluoroethane
AAB7691	94.20780	87616	< 5.		UG/L	10/11/94		1,2,3-Trichlorobenzene
AAB7691	94.20780	120821	< 5.		UG/L	10/11/94		1,2,4-Trichlorobenzene
AAB7691	94.20780	71556	< 5.		UG/L	10/11/94		1,1,1-Trichloroethane
AAB7691	94.20780	79005	< 5.		UG/L	10/11/94		1,1,2-Trichloroethane
AAB7691	94.20780	79016	< 5.		UG/L	10/11/94		Trichloroethene
AAB7691	94.20780	75694	< 5.		UG/L	10/11/94		Trichlorofluoromethane
AAB7691	94.20780	96184	< 5.		UG/L	10/11/94		1,2,3-Trichloropropane
AAB7691	94.20780	95636	< 5.		UG/L	10/11/94		1,2,4-Trimethylbenzene

********** EM-9 ANALYTICAL REPORT **********

CUSTOMER NUMBER	SAMPLE NUMBER	ANALYSIS	ANALYTICAL RESULT	ANALYTICAL UNCERTAINTY	UNITS	COMPLETION DATE	COMMENT	COMPOUND NAME
AAB7691	94.20780	108678	< 5.		UG/L	10/11/94		1,3,5-Trimethylbenzene
AAB7691	94.20780	75014	< 10.		UG/L	10/11/94		Vinyl chloride
AAB7691	94.20780	1330207	< 5.		UG/L	10/11/94		Mixed-Xylenes (o ± m ± p)

Tentatively Identified Compounds in Customer Sample # 94.20780

none

Rainwater Drums

********** EM-9 ANALYTICAL REPORT **********

EPA VOLATILES Prepared by: LAK on 11-Oct-1994

REQUEST NUMBER: 18766 MATRIX: W ANALYST: 211 PROGRAM CODE: M83B NOTEBOOK: 9409028 PAGE:

OWNER: Garry Allen GROUP: CST-6 MAIL-STOP: E525 PHONE: 7-3394 TECHNIQUE: GCMS ANALYTICAL PROCEDURE: EPA SW-846 3RD

Customer Sample Results, Sample # 94.20781 Date Collected: 8/30/94 Date Received: 8/31/94 Date Extracted: 9/09/94 Date Analyzed: 9/09/94

CUSTOMER NUMBER	SAMPLE NUMBER	ANALYSIS	ANALYTICAL RESULT	ANALYTICAL UNCERTAINTY	UNITS	COMPLETION DATE	COMMENT	COMPOUND NAME
AAB7692	94.20781	67641	< 20.		UG/L	10/11/94		Acetone
AAB7692	94.20781	71432	< 5.		UG/L	10/11/94		Benzene
AAB7692	94.20781	108861	< 5.		UG/L	10/11/94		Bromobenzene
AAB7692	94.20781	74975	< 5.		UG/L	10/11/94		Bromochloromethane
AAB7692	94.20781	75274	< 5.		UG/L	10/11/94		Bromodichloromethane
AAB7692	94.20781	75252	< 5.		UG/L	10/11/94		Bromoform
AAB7692	94.20781	74839	< 10.		UG/L	10/11/94		Bromomethane
AAB7692	94.20781	78933	< 20.		UG/L	10/11/94		2-Butanone
AAB7692	94.20781	104518	< 5.		UG/L	10/11/94		n-Butylbenzene
AAB7692	94.20781	135988	< 5.		UG/L	10/11/94		sec-Butylbenzene
AAB7692	94.20781	98066	< 5.		UG/L	10/11/94		tert-Butylbenzene
AAB7692	94.20781	75150	< 5.		UG/L	10/11/94		Carbon disulfide
AAB7692	94.20781	56235	< 5.		UG/L	10/11/94		Carbon tetrachloride
AAB7692	94.20781	108907	< 5.		UG/L	10/11/94		Chlorobenzene
AAB7692	94.20781	124481	< 5.		UG/L	10/11/94		Chlorodibromomethane
AAB7692	94.20781	75003	< 10.		UG/L	10/11/94		Chloroethane
AAB7692	94.20781	67663	< 5.		UG/L	10/11/94		Chloroform
AAB7692	94.20781	74873	< 10.		UG/L	10/11/94		Chloromethane
AAB7692	94.20781	95498	< 5.		UG/L	10/11/94		o-Chlorotoluene
AAB7692	94.20781	106434	< 5.		UG/L	10/11/94		p-Chlorotoluene
AAB7692	94.20781	96128	< 10.		UG/L	10/11/94		1,2-Dibromo-3-chloropropane
AAB7692	94.20781	74953	< 5.		UG/L	10/11/94		Dibromomethane
AAB7692	94.20781	95501	< 5.		UG/L	10/11/94		o-Dichlorobenzene (1,2)
AAB7692	94.20781	541731	< 5.		UG/L	10/11/94		m-Dichlorobenzene (1,3)
AAB7692	94.20781	106467	< 5.		UG/L	10/11/94		p-Dichlorobenzene (1,4)
AAB7692	94.20781	75718	< 10.		UG/L	10/11/94		Dichlorodifluoromethane

********** EM-9 ANALYTICAL REPORT **********

CUSTOMER NUMBER	SAMPLE NUMBER	ANALYSIS	ANALYTICAL RESULT	ANALYTICAL UNCERTAINTY	UNITS	COMPLETION DATE	COMMENT	COMPOUND NAME
AAB7692	94.20781	75343	< 5.		UG/L	10/11/94		1,1-Dichloroethane
AAB7692	94.20781	107062	< 5.		UG/L	10/11/94		1,2-Dichloroethane
AAB7692	94.20781	75354	< 5.		UG/L	10/11/94		1,1-Dichloroethene
AAB7692	94.20781	156605	< 5.		UG/L	10/11/94		trans-1,2-Dichloroethene
AAB7692	94.20781	156592	< 5.		UG/L	10/11/94		cis-1,2-Dichloroethylene
AAB7692	94.20781	78875	< 5.		UG/L	10/11/94		1,2-Dichloropropane
AAB7692	94.20781	142289	< 5.		UG/L	10/11/94		1,3-Dichloropropane
AAB7692	94.20781	594207	< 5.		UG/L	10/11/94		2,2-Dichloropropane
AAB7692	94.20781	563586	< 5.		UG/L	10/11/94		1,1-Dichloropropene
AAB7692	94.20781	10061015	< 5.		UG/L	10/11/94		cis-1,3-Dichloropropene
AAB7692	94.20781	10061026	< 5.		UG/L	10/11/94		trans-1,3-Dichloropropene
AAB7692	94.20781	100414	< 5.		UG/L	10/11/94		Ethylbenzene
AAB7692	94.20781	106934	< 5.		UG/L	10/11/94		Ethylene dibromide
AAB7692	94.20781	87683	< 5.		UG/L	10/11/94		Hexachlorobutadiene
AAB7692	94.20781	591786	< 20.		UG/L	10/11/94		2-Hexanone
AAB7692	94.20781	98828	< 5.		UG/L	10/11/94		Isopropylbenzene
AAB7692	94.20781	99876	< 5.		UG/L	10/11/94		4-Isopropyltoluene
AAB7692	94.20781	74884	< 5.		UG/L	10/11/94		Methyl iodide
AAB7692	94.20781	108101	< 20.		UG/L	10/11/94		4-Methyl-2-pentanone
AAB7692	94.20781	75092	< 5.		UG/L	10/11/94		Methylene chloride
AAB7692	94.20781	91203	< 5.		UG/L	10/11/94		Naphthalene
AAB7692	94.20781	103651	< 5.		UG/L	10/11/94		Propylbenzene
AAB7692	94.20781	100425	< 5.		UG/L	10/11/94		Styrene
AAB7692	94.20781	630206	< 5.		UG/L	10/11/94		1,1,1,2-Tetrachloroethane
AAB7692	94.20781	79345	< 5.		UG/L	10/11/94		1,1,2,2-Tetrachloroethane
AAB7692	94.20781	127184	< 5.		UG/L	10/11/94		Tetrachloroethylene
AAB7692	94.20781	108883	< 5.		UG/L	10/11/94		Toluene
AAB7692	94.20781	76131	< 5.		UG/L	10/11/94		1,1,2-Trichloro-1,2,2-trifluoroethane
AAB7692	94.20781	87616	< 5.		UG/L	10/11/94		1,2,3-Trichlorobenzene
AAB7692	94.20781	120821	< 5.		UG/L	10/11/94		1,2,4-Trichlorobenzene
AAB7692	94.20781	71556	< 5.		UG/L	10/11/94		1,1,1-Trichloroethane
AAB7692	94.20781	79005	< 5.		UG/L	10/11/94		1,1,2-Trichloroethane
AAB7692	94.20781	79016	< 5.		UG/L	10/11/94		Trichloroethene
AAB7692	94.20781	75694	< 5.		UG/L	10/11/94		Trichlorofluoromethane
AAB7692	94.20781	96184	< 5.		UG/L	10/11/94		1,2,3-Trichloropropane
AAB7692	94.20781	95636	< 5.		UG/L	10/11/94		1,2,4-Trimethylbenzene

********** EM-9 ANALYTICAL REPORT **********

CUSTOMER NUMBER	SAMPLE NUMBER	ANALYSIS	ANALYTICAL RESULT	ANALYTICAL UNCERTAINTY	UNITS	COMPLETION DATE	COMMENT	COMPOUND NAME
AAB7692	94.20781	108678	< 5.		UG/L	10/11/94		1,3,5-Trimethylbenzene
AAB7692	94.20781	75014	< 10.		UG/L	10/11/94		Vinyl chloride
AAB7692	94.20781	1330207	< 5.		UG/L	10/11/94		Mixed-Xylenes (o ± m ± p)

Tentatively Identified Compounds in Customer Sample # 94.20781

none

Decon fluids

********** EM-9 ANALYTICAL REPORT **********

EPA VOLATILES Prepared by: LAK on 11-Oct-1994

REQUEST NUMBER: 18766 MATRIX: W ANALYST: 211 PROGRAM CODE: M83B NOTEBOOK: 9409028 PAGE:

OWNER: Garry Allen GROUP: CST-6 MAIL-STOP: E525 PHONE: 7-3394 TECHNIQUE: GCMS ANALYTICAL PROCEDURE: EPA SW-846 3RD

Customer Sample Results, Sample # 94.20782 Date Collected: 8/30/94 Date Received: 8/31/94 Date Extracted: 9/09/94 Date Analyzed: 9/09/94

CUSTOMER NUMBER	SAMPLE NUMBER	ANALYSIS	ANALYTICAL RESULT	ANALYTICAL UNCERTAINTY	UNITS	COMPLETION DATE	COMMENT	COMPOUND NAME
AAB7694	94.20782	67641	< 20.		UG/L	10/11/94		Acetone
AAB7694	94.20782	71432	< 5.		UG/L	10/11/94		Benzene
AAB7694	94.20782	108861	< 5.		UG/L	10/11/94		Bromobenzene
AAB7694	94.20782	74975	< 5.		UG/L	10/11/94		Bromochloromethane
AAB7694	94.20782	75274	< 5.		UG/L	10/11/94		Bromodichloromethane
AAB7694	94.20782	75252	< 5.		UG/L	10/11/94		Bromoform
AAB7694	94.20782	74839	< 10.		UG/L	10/11/94		Bromomethane
AAB7694	94.20782	78933	< 20.		UG/L	10/11/94		2-Butanone
AAB7694	94.20782	104518	< 5.		UG/L	10/11/94		n-Butylbenzene
AAB7694	94.20782	135988	< 5.		UG/L	10/11/94		sec-Butylbenzene
AAB7694	94.20782	98066	< 5.		UG/L	10/11/94		tert-Butylbenzene
AAB7694	94.20782	75150	< 5.		UG/L	10/11/94		Carbon disulfide
AAB7694	94.20782	56235	< 5.		UG/L	10/11/94		Carbon tetrachloride
AAB7694	94.20782	108907	< 5.		UG/L	10/11/94		Chlorobenzene
AAB7694	94.20782	124481	< 5.		UG/L	10/11/94		Chlorodibromomethane
AAB7694	94.20782	75003	< 10.		UG/L	10/11/94		Chloroethane
AAB7694	94.20782	67663	< 5.		UG/L	10/11/94		Chloroform
AAB7694	94.20782	74873	< 10.		UG/L	10/11/94		Chloromethane
AAB7694	94.20782	95498	< 5.		UG/L	10/11/94		o-Chlorotoluene
AAB7694	94.20782	106434	< 5.		UG/L	10/11/94		p-Chlorotoluene
AAB7694	94.20782	96128	< 10.		UG/L	10/11/94		1,2-Dibromo-3-chloropropane
AAB7694	94.20782	74953	< 5.		UG/L	10/11/94		Dibromomethane
AAB7694	94.20782	95501	< 5.		UG/L	10/11/94		o-Dichlorobenzene (1,2)
AAB7694	94.20782	541731	< 5.		UG/L	10/11/94		m-Dichlorobenzene (1,3)
AAB7694	94.20782	106467	< 5.		UG/L	10/11/94		p-Dichlorobenzene (1,4)
AAB7694	94.20782	75718	< 10.		UG/L	10/11/94		Dichlorodifluoromethane

********** EM-9 ANALYTICAL REPORT **********

CUSTOMER NUMBER	SAMPLE NUMBER	ANALYSIS	ANALYTICAL RESULT	ANALYTICAL UNCERTAINTY	UNITS	COMPLETION DATE	COMMENT	COMPOUND NAME
AAB7694	94.20782	75343	< 5.		UG/L	10/11/94		1,1-Dichloroethane
AAB7694	94.20782	107062	< 5.		UG/L	10/11/94		1,2-Dichloroethane
AAB7694	94.20782	75354	< 5.		UG/L	10/11/94		1,1-Dichloroethene
AAB7694	94.20782	156605	< 5.		UG/L	10/11/94		trans-1,2-Dichloroethene
AAB7694	94.20782	156592	< 5.		UG/L	10/11/94		cis-1,2-Dichloroethylene
AAB7694	94.20782	78875	< 5.		UG/L	10/11/94		1,2-Dichloropropane
AAB7694	94.20782	142289	< 5.		UG/L	10/11/94		1,3-Dichloropropane
AAB7694	94.20782	594207	< 5.		UG/L	10/11/94		2,2-Dichloropropane
AAB7694	94.20782	563586	< 5.		UG/L	10/11/94		1,1-Dichloropropene
AAB7694	94.20782	10061015	< 5.		UG/L	10/11/94		cis-1,3-Dichloropropene
AAB7694	94.20782	10061026	< 5.		UG/L	10/11/94		trans-1,3-Dichloropropene
AAB7694	94.20782	100414	< 5.		UG/L	10/11/94		Ethylbenzene
AAB7694	94.20782	106934	< 5.		UG/L	10/11/94		Ethylene dibromide
AAB7694	94.20782	87683	< 5.		UG/L	10/11/94		Hexachlorobutadiene
AAB7694	94.20782	591786	< 20.		UG/L	10/11/94		2-Hexanone
AAB7694	94.20782	98828	< 5.		UG/L	10/11/94		Isopropylbenzene
AAB7694	94.20782	99876	< 5.		UG/L	10/11/94		4-Isopropyltoluene
AAB7694	94.20782	74884	< 5.		UG/L	10/11/94		Methyl iodide
AAB7694	94.20782	108101	< 20.		UG/L	10/11/94		4-Methyl-2-pentanone
AAB7694	94.20782	75092	< 5.		UG/L	10/11/94		Methylene chloride
AAB7694	94.20782	91203	< 5.		UG/L	10/11/94		Naphthalene
AAB7694	94.20782	103651	< 5.		UG/L	10/11/94		Propylbenzene
AAB7694	94.20782	100425	< 5.		UG/L	10/11/94		Styrene
AAB7694	94.20782	630206	< 5.		UG/L	10/11/94		1,1,1,2-Tetrachloroethane
AAB7694	94.20782	79345	< 5.		UG/L	10/11/94		1,1,2,2-Tetrachloroethane
AAB7694	94.20782	127184	< 5.		UG/L	10/11/94		Tetrachloroethylene
AAB7694	94.20782	108883	< 5.		UG/L	10/11/94		Toluene
AAB7694	94.20782	76131	< 5.		UG/L	10/11/94		1,1,2-Trichloro-1,2,2-trifluoroethane
AAB7694	94.20782	87616	< 5.		UG/L	10/11/94		1,2,3-Trichlorobenzene
AAB7694	94.20782	120821	< 5.		UG/L	10/11/94		1,2,4-Trichlorobenzene
AAB7694	94.20782	71556	< 5.		UG/L	10/11/94		1,1,1-Trichloroethane
AAB7694	94.20782	79005	< 5.		UG/L	10/11/94		1,1,2-Trichloroethane
AAB7694	94.20782	79016	< 5.		UG/L	10/11/94		Trichloroethene
AAB7694	94.20782	75694	< 5.		UG/L	10/11/94		Trichlorofluoromethane
AAB7694	94.20782	96184	< 5.		UG/L	10/11/94		1,2,3-Trichloropropane
AAB7694	94.20782	95636	< 5.		UG/L	10/11/94		1,2,4-Trimethylbenzene

********** EM-9 ANALYTICAL REPORT **********

CUSTOMER NUMBER	SAMPLE NUMBER	ANALYSIS		ANALYTICAL RESULT	ANALYTICAL UNCERTAINTY	UNITS	COMPLETION DATE	COMMENT	COMPOUND NAME
AAB7694	94.20782	108678		< 5.		UG/L	10/11/94		1,3,5-Trimethylbenzene
AAB7694	94.20782	75014		< 10.		UG/L	10/11/94		Vinyl chloride
AAB7694	94.20782	1330207		< 5.		UG/L	10/11/94		Mixed-Xylenes (o ± m ± p)

Tentatively Identified Compounds in Customer Sample # 94.20782

CUSTOMER NUMBER	SAMPLE NUMBER	ANALYSIS		ANALYTICAL RESULT	ANALYTICAL UNCERTAINTY	UNITS	COMPLETION DATE	COMMENT	COMPOUND NAME
AAB7694	94.20782	100	TI	16.		UG/L	10/11/94		Unknown organic compound
AAB7694	94.20782	100	TI	13.		UG/L	10/11/94		Unknown organic compound
AAB7694	94.20782	100	TI	9.		UG/L	10/11/94		Unknown organic compound

Decon funds

********** EM-9 ANALYTICAL REPORT **********

EPA VOLATILES Prepared by: LAK on 11-Oct-1994

REQUEST NUMBER: 18766 MATRIX: W ANALYST: 211 PROGRAM CODE: M83B NOTEBOOK: 9409028 PAGE:

OWNER: Garry Allen GROUP: CST-6 MAIL-STOP: E525 PHONE: 7-3394 TECHNIQUE: GCMS ANALYTICAL PROCEDURE: EPA SW-846 3RD

Customer Sample Results, Sample # 94.20783 Date Collected: 8/30/94 Date Received: 8/31/94 Date Extracted: 9/09/94 Date Analyzed: 9/09/94

CUSTOMER NUMBER	SAMPLE NUMBER	ANALYSIS	ANALYTICAL RESULT	ANALYTICAL UNCERTAINTY	UNITS	COMPLETION DATE	COMMENT	COMPOUND NAME
AAB7695	94.20783	67641	< 20.		UG/L	10/11/94		Acetone
AAB7695	94.20783	71432	< 5.		UG/L	10/11/94		Benzene
AAB7695	94.20783	108861	< 5.		UG/L	10/11/94		Bromobenzene
AAB7695	94.20783	74975	< 5.		UG/L	10/11/94		Bromochloromethane
AAB7695	94.20783	75274	< 5.		UG/L	10/11/94		Bromodichloromethane
AAB7695	94.20783	75252	< 5.		UG/L	10/11/94		Bromoform
AAB7695	94.20783	74839	< 10.		UG/L	10/11/94		Bromomethane
AAB7695	94.20783	78933	< 20.		UG/L	10/11/94		2-Butanone
AAB7695	94.20783	104518	< 5.		UG/L	10/11/94		n-Butylbenzene
AAB7695	94.20783	135988	< 5.		UG/L	10/11/94		sec-Butylbenzene
AAB7695	94.20783	98066	< 5.		UG/L	10/11/94		tert-Butylbenzene
AAB7695	94.20783	75150	< 5.		UG/L	10/11/94		Carbon disulfide
AAB7695	94.20783	56235	< 5.		UG/L	10/11/94		Carbon tetrachloride
AAB7695	94.20783	108907	< 5.		UG/L	10/11/94		Chlorobenzene
AAB7695	94.20783	124481	< 5.		UG/L	10/11/94		Chlorodibromomethane
AAB7695	94.20783	75003	< 10.		UG/L	10/11/94		Chloroethane
AAB7695	94.20783	67663	< 5.		UG/L	10/11/94		Chloroform
AAB7695	94.20783	74873	< 10.		UG/L	10/11/94		Chloromethane
AAB7695	94.20783	95498	< 5.		UG/L	10/11/94		o-Chlorotoluene
AAB7695	94.20783	106434	< 5.		UG/L	10/11/94		p-Chlorotoluene
AAB7695	94.20783	96128	< 10.		UG/L	10/11/94		1,2-Dibromo-3-chloropropane
AAB7695	94.20783	74953	< 5.		UG/L	10/11/94		Dibromomethane
AAB7695	94.20783	95501	< 5.		UG/L	10/11/94		o-Dichlorobenzene (1,2)
AAB7695	94.20783	541731	< 5.		UG/L	10/11/94		m-Dichlorobenzene (1,3)
AAB7695	94.20783	106467	< 5.		UG/L	10/11/94		p-Dichlorobenzene (1,4)
AAB7695	94.20783	75718	< 10.		UG/L	10/11/94		Dichlorodifluoromethane

********** EM-9 ANALYTICAL REPORT **********

CUSTOMER NUMBER	SAMPLE NUMBER	ANALYSIS	ANALYTICAL RESULT	ANALYTICAL UNCERTAINTY	UNITS	COMPLETION DATE	COMMENT	COMPOUND NAME
AAB7695	94.20783	75343	< 5.		UG/L	10/11/94		1,1-Dichloroethane
AAB7695	94.20783	107062	< 5.		UG/L	10/11/94		1,2-Dichloroethane
AAB7695	94.20783	75354	< 5.		UG/L	10/11/94		1,1-Dichloroethene
AAB7695	94.20783	156605	< 5.		UG/L	10/11/94		trans-1,2-Dichloroethene
AAB7695	94.20783	156592	< 5.		UG/L	10/11/94		cis-1,2-Dichloroethylene
AAB7695	94.20783	78875	< 5.		UG/L	10/11/94		1,2-Dichloropropane
AAB7695	94.20783	142289	< 5.		UG/L	10/11/94		1,3-Dichloropropane
AAB7695	94.20783	594207	< 5.		UG/L	10/11/94		2,2-Dichloropropane
AAB7695	94.20783	563586	< 5.		UG/L	10/11/94		1,1-Dichloropropene
AAB7695	94.20783	10061015	< 5.		UG/L	10/11/94		cis-1,3-Dichloropropene
AAB7695	94.20783	10061026	< 5.		UG/L	10/11/94		trans-1,3-Dichloropropene
AAB7695	94.20783	100414	< 5.		UG/L	10/11/94		Ethylbenzene
AAB7695	94.20783	106934	< 5.		UG/L	10/11/94		Ethylene dibromide
AAB7695	94.20783	87683	< 5.		UG/L	10/11/94		Hexachlorobutadiene
AAB7695	94.20783	591786	< 20.		UG/L	10/11/94		2-Hexanone
AAB7695	94.20783	98828	< 5.		UG/L	10/11/94		Isopropylbenzene
AAB7695	94.20783	99876	< 5.		UG/L	10/11/94		4-Isopropyltoluene
AAB7695	94.20783	74884	< 5.		UG/L	10/11/94		Methyl iodide
AAB7695	94.20783	108101	< 20.		UG/L	10/11/94		4-Methyl-2-pentanone
AAB7695	94.20783	75092	< 5.		UG/L	10/11/94		Methylene chloride
AAB7695	94.20783	91203	< 5.		UG/L	10/11/94		Naphthalene
AAB7695	94.20783	103651	< 5.		UG/L	10/11/94		Propylbenzene
AAB7695	94.20783	100425	< 5.		UG/L	10/11/94		Styrene
AAB7695	94.20783	630206	< 5.		UG/L	10/11/94		1,1,1,2-Tetrachloroethane
AAB7695	94.20783	79345	< 5.		UG/L	10/11/94		1,1,2,2-Tetrachloroethane
AAB7695	94.20783	127184	< 5.		UG/L	10/11/94		Tetrachloroethylene
AAB7695	94.20783	108883	< 5.		UG/L	10/11/94		Toluene
AAB7695	94.20783	76131	< 5.		UG/L	10/11/94		1,1,2-Trichloro-1,2,2-trifluoroethane
AAB7695	94.20783	87616	< 5.		UG/L	10/11/94		1,2,3-Trichlorobenzene
AAB7695	94.20783	120821	< 5.		UG/L	10/11/94		1,2,4-Trichlorobenzene
AAB7695	94.20783	71556	< 5.		UG/L	10/11/94		1,1,1-Trichloroethane
AAB7695	94.20783	79005	< 5.		UG/L	10/11/94		1,1,2-Trichloroethane
AAB7695	94.20783	79016	< 5.		UG/L	10/11/94		Trichloroethene
AAB7695	94.20783	75694	< 5.		UG/L	10/11/94		Trichlorofluoromethane
AAB7695	94.20783	96184	< 5.		UG/L	10/11/94		1,2,3-Trichloropropane
AAB7695	94.20783	95636	< 5.		UG/L	10/11/94		1,2,4-Trimethylbenzene

********** EM-9 ANALYTICAL REPORT **********

CUSTOMER NUMBER	SAMPLE NUMBER	ANALYSIS	ANALYTICAL RESULT	ANALYTICAL UNCERTAINTY	UNITS	COMPLETION DATE	COMMENT	COMPOUND NAME
AAB7695	94.20783	108678	< 5.		UG/L	10/11/94		1,3,5-Trimethylbenzene
AAB7695	94.20783	75014	< 10.		UG/L	10/11/94		Vinyl chloride
AAB7695	94.20783	1330207	< 5.		UG/L	10/11/94		Mixed-Xylenes (o ± m ± p)

Tentatively Identified Compounds in Customer Sample # 94.20783

none

********** EM-9 QUALITY ASSURANCE REPORT **********

EPA VOLATILES Prepared by: LAK on 11-Oct-1994

REQUEST NUMBER: 18766 MATRIX: W ANALYST: 211 PROGRAM CODE: M83B NOTEBOOK: 9409028 PAGE:

OWNER: Garry Allen GROUP: CST-6 MAIL STOP: E525 PHONE: 7-3394 TECHNIQUE: GCMS ANALYTICAL PROCEDURE: EPA SW-846 3RD

SUMMARY OF CONTROL STATUS OF OPEN (NON-BLIND) QA SAMPLES RUN WITH THIS BATCH

There were no open (non-blind) Quality Control materials run with the samples reported above for one of the following reasons:

____ Only qualitative data requested

____ Only Blind QC samples run with this batch.

____ No QC samples run with this sample batch.

____ No QC samples for this constituent and matrix type available within EM-9

********** EM-9 QUALITY ASSURANCE REPORT **********

SUMMARY OF CONTROL STATUS OF BLANK QC SAMPLES RUN WITH THIS BATCH

Blank Results, Sample # 94.20786 Date Collected: 8/31/94 Date Received: 8/31/94 Date Extracted: 9/09/94 Date Analyzed: 9/09/94

CUSTOMER NUMBER	SAMPLE NUMBER	ANALYSIS	ANALYTICAL RESULT	ANALYTICAL UNCERTAINTY	UNITS	QC VALUE	QC UNCERTAINTY	COMPLETION DATE	COMMENT	COMPOUND NAME
00.30670	94.20786	67641	< 20.		UG/L	0.0		10/11/94	UNDER CONTROL	Acetone
00.30670	94.20786	71432	< 5.		UG/L	0.0		10/11/94	UNDER CONTROL	Benzene
00.30670	94.20786	108861	< 5.		UG/L	0.0		10/11/94	UNDER CONTROL	Bromobenzene
00.30670	94.20786	74975	< 5.		UG/L	0.0		10/11/94	UNDER CONTROL	Bromochloromethane
00.30670	94.20786	75274	< 5.		UG/L	0.0		10/11/94	UNDER CONTROL	Bromodichloromethane
00.30670	94.20786	75252	< 5.		UG/L	0.0		10/11/94	UNDER CONTROL	Bromoform
00.30670	94.20786	74839	< 10.		UG/L	0.0		10/11/94	UNDER CONTROL	Bromomethane
00.30670	94.20786	78933	< 20.		UG/L	0.0		10/11/94	UNDER CONTROL	2-Butanone
00.30670	94.20786	104518	< 5.		UG/L	0.0		10/11/94	UNDER CONTROL	n-Butylbenzene
00.30670	94.20786	135988	< 5.		UG/L	0.0		10/11/94	UNDER CONTROL	sec-Butylbenzene
00.30670	94.20786	98066	< 5.		UG/L	0.0		10/11/94	UNDER CONTROL	tert-Butylbenzene
00.30670	94.20786	75150	< 5.		UG/L	0.0		10/11/94	UNDER CONTROL	Carbon disulfide
00.30670	94.20786	56235	< 5.		UG/L	0.0		10/11/94	UNDER CONTROL	Carbon tetrachloride
00.30670	94.20786	108907	< 5.		UG/L	0.0		10/11/94	UNDER CONTROL	Chlorobenzene
00.30670	94.20786	124481	< 5.		UG/L	0.0		10/11/94	UNDER CONTROL	Chlorodibromomethane
00.30670	94.20786	75003	< 10.		UG/L	0.0		10/11/94	UNDER CONTROL	Chloroethane
00.30670	94.20786	67663	< 5.		UG/L	0.0		10/11/94	UNDER CONTROL	Chloroform
00.30670	94.20786	74873	< 10.		UG/L	0.0		10/11/94	UNDER CONTROL	Chloromethane
00.30670	94.20786	95498	< 5.		UG/L	0.0		10/11/94	UNDER CONTROL	o-Chlorotoluene
00.30670	94.20786	106434	< 5.		UG/L	0.0		10/11/94	UNDER CONTROL	p-Chlorotoluene
00.30670	94.20786	96128	< 10.		UG/L	0.0		10/11/94	UNDER CONTROL	1,2-Dibromo-3-chloropropane

********** EM-9 QUALITY ASSURANCE REPORT **********

CUSTOMER NUMBER	SAMPLE NUMBER	ANALYSIS	ANALYTICAL RESULT	ANALYTICAL UNCERTAINTY	UNITS	QC VALUE	QC UNCERTAINTY	COMPLETION DATE	COMMENT	COMPOUND NAME
00.30670	94.20786	74953	< 5.		UG/L	0.0		10/11/94	UNDER CONTROL	Dibromomethane
00.30670	94.20786	95501	< 5.		UG/L	0.0		10/11/94	UNDER CONTROL	o-Dichlorobenzene (1,2)
00.30670	94.20786	541731	< 5.		UG/L	0.0		10/11/94	UNDER CONTROL	m-Dichlorobenzene (1,3)
00.30670	94.20786	106467	< 5.		UG/L	0.0		10/11/94	UNDER CONTROL	p-Dichlorobenzene (1,4)
00.30670	94.20786	75718	< 10.		UG/L	0.0		10/11/94	UNDER CONTROL	Dichlorodifluoromethane
00.30670	94.20786	75343	< 5.		UG/L	0.0		10/11/94	UNDER CONTROL	1,1-Dichloroethane
00.30670	94.20786	107062	< 5.		UG/L	0.0		10/11/94	UNDER CONTROL	1,2-Dichloroethane
00.30670	94.20786	75354	< 5.		UG/L	0.0		10/11/94	UNDER CONTROL	1,1-Dichloroethene
00.30670	94.20786	156605	< 5.		UG/L	0.0		10/11/94	UNDER CONTROL	trans-1,2-Dichloroethene
00.30670	94.20786	156592	< 5.		UG/L	0.0		10/11/94	UNDER CONTROL	cis-1,2-Dichloroethylene
00.30670	94.20786	78875	< 5.		UG/L	0.0		10/11/94	UNDER CONTROL	1,2-Dichloropropane
00.30670	94.20786	142289	< 5.		UG/L	0.0		10/11/94	UNDER CONTROL	1,3-Dichloropropane
00.30670	94.20786	594207	< 5.		UG/L	0.0		10/11/94	UNDER CONTROL	2,2-Dichloropropane
00.30670	94.20786	563586	< 5.		UG/L	0.0		10/11/94	UNDER CONTROL	1,1-Dichloropropene
00.30670	94.20786	10061015	< 5.		UG/L	0.0		10/11/94	UNDER CONTROL	cis-1,3-Dichloropropene
00.30670	94.20786	10061026	< 5.		UG/L	0.0		10/11/94	UNDER CONTROL	trans-1,3-Dichloropropene
00.30670	94.20786	100414	< 5.		UG/L	0.0		10/11/94	UNDER CONTROL	Ethylbenzene
00.30670	94.20786	106934	< 5.		UG/L	0.0		10/11/94	UNDER CONTROL	Ethylene dibromide
00.30670	94.20786	591786	< 20.		UG/L	0.0		10/11/94	UNDER CONTROL	2-Hexanone
00.30670	94.20786	98828	< 5.		UG/L	0.0		10/11/94	UNDER CONTROL	Isopropylbenzene
00.30670	94.20786	99876	< 5.		UG/L	0.0		10/11/94	UNDER CONTROL	4-Isopropyltoluene
00.30670	94.20786	74884	< 5.		UG/L	0.0		10/11/94	UNDER CONTROL	Methyl iodide
00.30670	94.20786	108101	< 20.		UG/L	0.0		10/11/94	UNDER CONTROL	4-Methyl-2-pentanone
00.30670	94.20786	75092	< 5.		UG/L	0.0		10/11/94	UNDER CONTROL	Methylene chloride
00.30670	94.20786	103651	< 5.		UG/L	0.0		10/11/94	UNDER CONTROL	Propylbenzene
00.30670	94.20786	100425	< 5.		UG/L	0.0		10/11/94	UNDER CONTROL	Styrene
00.30670	94.20786	630206	< 5.		UG/L	0.0		10/11/94	UNDER CONTROL	1,1,1,2-Tetrachloroethane
00.30670	94.20786	79345	< 5.		UG/L	0.0		10/11/94	UNDER CONTROL	1,1,2,2-Tetrachloroethane
00.30670	94.20786	127184	< 5.		UG/L	0.0		10/11/94	UNDER CONTROL	Tetrachloroethylene
00.30670	94.20786	108883	< 5.		UG/L	0.0		10/11/94	UNDER CONTROL	Toluene
00.30670	94.20786	76131	< 5.		UG/L	0.0		10/11/94	UNDER CONTROL	1,1,2-Trichloro-1,2,2-trifluoroetha
00.30670	94.20786	71556	< 5.		UG/L	0.0		10/11/94	UNDER CONTROL	1,1,1-Trichloroethane
00.30670	94.20786	79005	< 5.		UG/L	0.0		10/11/94	UNDER CONTROL	1,1,2-Trichloroethane
00.30670	94.20786	79016	< 5.		UG/L	0.0		10/11/94	UNDER CONTROL	Trichloroethene
00.30670	94.20786	75694	< 5.		UG/L	0.0		10/11/94	UNDER CONTROL	Trichlorofluoromethane
00.30670	94.20786	96184	< 5.		UG/L	0.0		10/11/94	UNDER CONTROL	1,2,3-Trichloropropane

********** EM-9 QUALITY ASSURANCE REPORT **********

CUSTOMER NUMBER	SAMPLE NUMBER	ANALYSIS	ANALYTICAL RESULT	ANALYTICAL UNCERTAINTY	UNITS	QC VALUE	QC UNCERTAINTY	COMPLETION DATE	COMMENT	COMPOUND NAME
00.30670	94.20786	95636	< 5.		UG/L	0.0		10/11/94	UNDER CONTROL	1,2,4-Trimethylbenzene
00.30670	94.20786	108678	< 5.		UG/L	0.0		10/11/94	UNDER CONTROL	1,3,5-Trimethylbenzene
00.30670	94.20786	75014	< 10.		UG/L	0.0		10/11/94	UNDER CONTROL	Vinyl chloride
00.30670	94.20786	1330207	< 5.		UG/L	0.0		10/11/94	UNDER CONTROL	Mixed-Xylenes (o ± m ± p)

Blank Spike Results: none

Blank Spike Duplicate Results: none

********** EM-9 QUALITY ASSURANCE REPORT **********

SUMMARY OF CONTROL STATUS OF BLIND QA SAMPLES RUN WITH THIS BATCH

Blind QC Results, Sample # 94.20778 Date Collected: 8/31/94 Date Received: 8/31/94 Date Extracted: 9/09/94 Date Analyzed: 9/09/94

SAMPLE NUM	ANALYSIS	ANALYTICAL RESULT	ANALYTICAL UNCERTAINTY	UNITS	QC VALUE	QC UNCERTAINTY	COMPLETION DATE	COMMENT	COMPOUND-NAME
94.20778	67641	< 20.		UG/L	0.0		10/11/94	UNDER CONTROL	Acetone
94.20778	71432	55.	16.5	UG/L	50.	5.	10/11/94	UNDER CONTROL	Benzene
94.20778	108861	< 5.		UG/L	0.0		10/11/94	UNDER CONTROL	Bromobenzene
94.20778	74975	< 5.		UG/L	0.0		10/11/94	UNDER CONTROL	Bromochloromethane
94.20778	75274	51.	15.3	UG/L	44.8	4.5	10/11/94	UNDER CONTROL	Bromodichloromethane
94.20778	75252	90.	27.	UG/L	85.5	8.6	10/11/94	UNDER CONTROL	Bromoform
94.20778	74839	< 10.		UG/L	0.0		10/11/94	UNDER CONTROL	Bromomethane
94.20778	78933	< 20.		UG/L	0.0		10/11/94	UNDER CONTROL	2-Butanone
94.20778	104518	< 5.		UG/L	0.0		10/11/94	UNDER CONTROL	n-Butylbenzene
94.20778	135988	< 5.		UG/L	0.0		10/11/94	UNDER CONTROL	sec-Butylbenzene
94.20778	98066	< 5.		UG/L	0.0		10/11/94	UNDER CONTROL	tert-Butylbenzene
94.20778	75150	< 5.		UG/L	0.0		10/11/94	UNDER CONTROL	Carbon disulfide
94.20778	56235	150.	45.	UG/L	143.	14.3	10/11/94	UNDER CONTROL	Carbon tetrachloride
94.20778	108907	42.	12.6	UG/L	42.	4.2	10/11/94	UNDER CONTROL	Chlorobenzene
94.20778	[illegible]	150.	45.	UG/L	137.	14.	10/11/94	UNDER CONTROL	[illegible]dibromomethane
94.20778	[illegible]	< 10.		UG/L	0.0		10/11/94	UNDER CONTROL	[illegible]thane
94.20778	[illegible]	< 5.		UG/L	0.0		10/11/94	UNDER CONTROL	[illegible]form
94.20778	[illegible]	< 10.		UG/L	0.0		10/11/94	UNDER CONTROL	Chloromethane
94.20778	95498	< 5.		UG/L	0.0		10/11/94	UNDER CONTROL	o-Chlorotoluene
94.20778	106434	< 5.		UG/L	0.0		10/11/94	UNDER CONTROL	p-Chlorotoluene
94.20778	96128	< 10.		UG/L	0.0		10/11/94	UNDER CONTROL	1,2-Dibromo-3-chloropropane
94.20778	74953	< 5.		UG/L	0.0		10/11/94	UNDER CONTROL	Dibromomethane
94.20778	95501	73.	21.9	UG/L	69.3	6.9	10/11/94	UNDER CONTROL	o-Dichlorobenzene (1,2)
94.20778	541731	< 5.		UG/L	0.0		10/11/94	UNDER CONTROL	m-Dichlorobenzene (1,3)
94.20778	106467	110.	33.	UG/L	112.	11.2	10/11/94	UNDER CONTROL	p-Dichlorobenzene (1,4)
94.20778	75718	< 10.		UG/L	0.0		10/11/94	UNDER CONTROL	Dichlorodifluoromethane

94.20778	75343	< 5.		UG/L	0.0		10/11/94	UNDER CONTROL	1,1-Dichloroethane
94.20778	107062	78.	23.4	UG/L	74.4	7.4	10/11/94	UNDER CONTROL	1,2-Dichloroethane
94.20778	75354	< 5.		UG/L	0.0		10/11/94	UNDER CONTROL	1,1-Dichloroethene
94.20778	156605	< 5.		UG/L	0.0		10/11/94	UNDER CONTROL	trans-1,2-Dichloroethene
94.20778	156592	< 5.		UG/L	0.0		10/11/94	UNDER CONTROL	cis-1,2-Dichloroethylene
94.20778	78875	< 5.		UG/L	0.0		10/11/94	UNDER CONTROL	1,2-Dichloropropane
94.20778	142289	< 5.		UG/L	0.0		10/11/94	UNDER CONTROL	1,3-Dichloropropane
94.20778	594207	< 5.		UG/L	0.0		10/11/94	UNDER CONTROL	2,2-Dichloropropane
94.20778	563586	< 5.		UG/L	0.0		10/11/94	UNDER CONTROL	1,1-Dichloropropene
94.20778	10061015	< 5.		UG/L	0.0		10/11/94	UNDER CONTROL	cis-1,3-Dichloropropene
94.20778	10061026	< 5.		UG/L	0.0		10/11/94	UNDER CONTROL	trans-1,3-Dichloropropene
94.20778	100414	20.	6.	UG/L	17.9	1.8	10/11/94	UNDER CONTROL	Ethylbenzene
94.20778	106934	< 5.		UG/L	0.0		10/11/94	UNDER CONTROL	Ethylene dibromide
94.20778	87683	< 5.		UG/L	0.0		10/11/94	UNDER CONTROL	Hexachlorobutadiene
94.20778	591786	< 20.		UG/L	0.0		10/11/94	UNDER CONTROL	2-Hexanone
94.20778	98828	< 5.		UG/L	0.0		10/11/94	UNDER CONTROL	Isopropylbenzene
94.20778	99876	< 5.		UG/L	0.0		10/11/94	UNDER CONTROL	4-Isopropyltoluene
94.20778	74884	< 5.		UG/L	0.0		10/11/94	UNDER CONTROL	Methyl iodide
94.20778	108101	24.	7.2	UG/L	27.9	2.8	10/11/94	UNDER CONTROL	4-Methyl-2-pentanone
94.20778	75092	62.	18.6	UG/L	49.5	5.	10/11/94	UNDER CONTROL	Methylene chloride
94.20778	91203	< 5.		UG/L	0.0		10/11/94	UNDER CONTROL	Naphthalene
94.20778	103651	< 5.		UG/L	0.0		10/11/94	UNDER CONTROL	Propylbenzene
94.20778	100425	< 5.		UG/L	0.0		10/11/94	UNDER CONTROL	Styrene
94.20778	630206	56.	16.8	UG/L	52.3	5.2	10/11/94	UNDER CONTROL	1,1,1,2-Tetrachloroethane
94.20778	79345	< 5.		UG/L	0.0		10/11/94	UNDER CONTROL	1,1,2,2-Tetrachloroethane
94.20778	127184	47.	14.1	UG/L	41.4	4.1	10/11/94	UNDER CONTROL	Tetrachloroethylene
94.20778	108883	82.	24.6	UG/L	72.6	7.3	10/11/94	UNDER CONTROL	Toluene
94.20778	76131	< 5.		UG/L	0.0		10/11/94	UNDER CONTROL	1,1,2-Trichloro-1,2,2-trifluoroethane
94.20778	87616	< 5.		UG/L	0.0		10/11/94	UNDER CONTROL	1,2,3-Trichlorobenzene
94.20778	120821	< 5.		UG/L	0.0		10/11/94	UNDER CONTROL	1,2,4-Trichlorobenzene
94.20778	71556	81.	24.3	UG/L	67.3	6.7	10/11/94	UNDER CONTROL	1,1,1-Trichloroethane
94.20778	79005	< 5.		UG/L	0.0		10/11/94	UNDER CONTROL	1,1,2-Trichloroethane
94.20778	79016	63.	18.9	UG/L	57.2	5.7	10/11/94	UNDER CONTROL	Trichloroethene
94.20778	75694	< 5.		UG/L	0.0		10/11/94	UNDER CONTROL	Trichlorofluoromethane
94.20778	[illegible]	< 5.		UG/L	0.0		10/11/94	UNDER CONTROL	1,2,3-Trichloropropane
94.20778	[illegible]	< 5.		UG/L	0.0		10/11/94	UNDER CONTROL	1,2,4-Trimethylbenzene
94.20778	[illegible]	< 5.		UG/L	0.0		10/11/94	UNDER CONTROL	1,3,5-Trimethylbenzene
94.20778	75014	< 10.		UG/L	0.0		10/11/94	UNDER CONTROL	Vinyl chloride
94.20778	1330207	32.	9.6	UG/L	29.1	2.9	10/11/94	UNDER CONTROL	Mixed-Xylenes (o + m + p)

********** EM-9 QUALITY ASSURANCE REPORT **********

SURROGATE RESULTS FOR EPA VOLATILES

Surrogate 1 = 1,2-Dichloroethane d4 (CAS # = 17060070)
Surrogate 2 = Toluene d8 (CAS # = 2037265)
Surrogate 3 = 4-Bromofluorobenzene (CAS # = 460004)
Surrogate 4 = 2-Chlorostyrene (CAS # = 2039874)
Surrogate 5 = Dibromofluoromethane (CAS # = 1868537)

SAMPLE NUMBER	UNITS	Surrogate 1	Surrogate 2	Surrogate 3	Surrogate 4	Surrogate 5	COMPLETION DATE	SAMPLE TYPE
94.20778	%	0.0	104.	95.		99.	11-Oct-1994	
94.20779	%	0.0	98.	102.		104.	11-Oct-1994	MS
94.20779	%	0.0	100.	96.		103.	11-Oct-1994	MSD
94.20779	%	0.0	105.	97.		96.	11-Oct-1994	
94.20780	%	0.0	103.	96.		97.	11-Oct-1994	
94.20781	%	0.0	106.	96.		95.	11-Oct-1994	
94.20782	%	0.0	104.	95.		100.	11-Oct-1994	
94.20783	%	0.0	104.	97.		102.	11-Oct-1994	
94.20784	%	0.0	105.	97.		96.	11-Oct-1994	
94.20785	%	0.0	104.	96.		100.	11-Oct-1994	
94.20786	%	0.0	104.	96.		103.	11-Oct-1994	B
EPA Limits:								
Water	%	76 - 114	88 - 110	86 - 115	86 - 115	86 - 118		
Soil	%	70 - 121	81 - 117	74 - 121	74 - 121			

********** EM-9 QUALITY ASSURANCE REPORT **********

REPORT NUMBER: 28345

Analyst	Reviewer	Section Leader	QA Officer
Date	10/12/94	Date	10/12/94
	Date		Date

No Sample Discrepancies Noted by Sample Management Section

The control status of the preceeding data was evaluated using the standard statistical criteria set forth in 'Quality Assurance for Health and Environmental Chemistry: 1992,' LA-12790-MS, Vol. I, pp. 19-20

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********** EM-9 ANALYTICAL REPORT **********

EPA VOLATILES Prepared by: LAK on 11-Oct-1994

REQUEST NUMBER: 18766 MATRIX: W ANALYST: 211 PROGRAM CODE: M83B NOTEBOOK: 9409028 PAGE:

OWNER: Garry Allen GROUP: CST-6 MAIL-STOP: E525 PHONE: 7-3394 TECHNIQUE: GCMS ANALYTICAL PROCEDURE: EPA SW-846 3RD

Customer Sample Results, Sample # 94.20784 Date Collected: 8/30/94 Date Received: 8/31/94 Date Extracted: 9/09/94 Date Analyzed: 9/09/94

CUSTOMER NUMBER	SAMPLE NUMBER	ANALYSIS	ANALYTICAL RESULT	ANALYTICAL UNCERTAINTY	UNITS	COMPLETION DATE	COMMENT	COMPOUND NAME
AAB7696	94.20784	67641	< 20.		UG/L	10/11/94		Acetone
AAB7696	94.20784	71432	< 5.		UG/L	10/11/94		Benzene
AAB7696	94.20784	108861	< 5.		UG/L	10/11/94		Bromobenzene
AAB7696	94.20784	74975	< 5.		UG/L	10/11/94		Bromochloromethane
AAB7696	94.20784	75274	< 5.		UG/L	10/11/94		Bromodichloromethane
AAB7696	94.20784	75252	< 5.		UG/L	10/11/94		Bromoform
AAB7696	94.20784	74839	< 10.		UG/L	10/11/94		Bromomethane
AAB7696	94.20784	78933	< 20.		UG/L	10/11/94		2-Butanone
AAB7696	94.20784	104518	< 5.		UG/L	10/11/94		n-Butylbenzene
AAB7696	94.20784	135988	< 5.		UG/L	10/11/94		sec-Butylbenzene
AAB7696	94.20784	98066	< 5.		UG/L	10/11/94		tert-Butylbenzene
AAB7696	94.20784	75150	< 5.		UG/L	10/11/94		Carbon disulfide
AAB7696	94.20784	56235	< 5.		UG/L	10/11/94		Carbon tetrachloride
AAB7696	94.20784	108907	< 5.		UG/L	10/11/94		Chlorobenzene
AAB7696	94.20784	124481	< 5.		UG/L	10/11/94		Chlorodibromomethane
AAB7696	94.20784	75003	< 10.		UG/L	10/11/94		Chloroethane
AAB7696	94.20784	67663	< 5.		UG/L	10/11/94		Chloroform
AAB7696	94.20784	74873	< 10.		UG/L	10/11/94		Chloromethane
AAB7696	94.20784	95498	< 5.		UG/L	10/11/94		o-Chlorotoluene
AAB7696	94.20784	106434	< 5.		UG/L	10/11/94		p-Chlorotoluene
AAB7696	94.20784	96128	< 10.		UG/L	10/11/94		1,2-Dibromo-3-chloropropane
AAB7696	94.20784	74953	< 5.		UG/L	10/11/94		Dibromomethane
AAB7696	94.20784	95501	< 5.		UG/L	10/11/94		o-Dichlorobenzene (1,2)
AAB7696	94.20784	541731	< 5.		UG/L	10/11/94		m-Dichlorobenzene (1,3)
AAB7696	94.20784	106467	< 5.		UG/L	10/11/94		p-Dichlorobenzene (1,4)
AAB7696	94.20784	75718	< 10.		UG/L	10/11/94		Dichlorodifluoromethane

********** EM-9 ANALYTICAL REPORT **********

CUSTOMER NUMBER	SAMPLE NUMBER	ANALYSIS	ANALYTICAL RESULT	ANALYTICAL UNCERTAINTY	UNITS	COMPLETION DATE	COMMENT	COMPOUND NAME
AAB7696	94.20784	75343	< 5.		UG/L	10/11/94		1,1-Dichloroethane
AAB7696	94.20784	107062	< 5.		UG/L	10/11/94		1,2-Dichloroethane
AAB7696	94.20784	75354	< 5.		UG/L	10/11/94		1,1-Dichloroethene
AAB7696	94.20784	156605	< 5.		UG/L	10/11/94		trans-1,2-Dichloroethene
AAB7696	94.20784	156592	< 5.		UG/L	10/11/94		cis-1,2-Dichloroethylene
AAB7696	94.20784	78875	< 5.		UG/L	10/11/94		1,2-Dichloropropane
AAB7696	94.20784	142289	< 5.		UG/L	10/11/94		1,3-Dichloropropane
AAB7696	94.20784	594207	< 5.		UG/L	10/11/94		2,2-Dichloropropane
AAB7696	94.20784	563586	< 5.		UG/L	10/11/94		1,1-Dichloropropene
AAB7696	94.20784	10061015	< 5.		UG/L	10/11/94		cis-1,3-Dichloropropene
AAB7696	94.20784	10061026	< 5.		UG/L	10/11/94		trans-1,3-Dichloropropene
AAB7696	94.20784	100414	< 5.		UG/L	10/11/94		Ethylbenzene
AAB7696	94.20784	106934	< 5.		UG/L	10/11/94		Ethylene dibromide
AAB7696	94.20784	87683	< 5.		UG/L	10/11/94		Hexachlorobutadiene
AAB7696	94.20784	591786	< 20.		UG/L	10/11/94		2-Hexanone
AAB7696	94.20784	98828	< 5.		UG/L	10/11/94		Isopropylbenzene
AAB7696	94.20784	99876	< 5.		UG/L	10/11/94		4-Isopropyltoluene
AAB7696	94.20784	74884	< 5.		UG/L	10/11/94		Methyl iodide
AAB7696	94.20784	108101	< 20.		UG/L	10/11/94		4-Methyl-2-pentanone
AAB7696	94.20784	75092	< 5.		UG/L	10/11/94		Methylene chloride
AAB7696	94.20784	91203	< 5.		UG/L	10/11/94		Naphthalene
AAB7696	94.20784	103651	< 5.		UG/L	10/11/94		Propylbenzene
AAB7696	94.20784	100425	< 5.		UG/L	10/11/94		Styrene
AAB7696	94.20784	630206	< 5.		UG/L	10/11/94		1,1,1,2-Tetrachloroethane
AAB7696	94.20784	79345	< 5.		UG/L	10/11/94		1,1,2,2-Tetrachloroethane
AAB7696	94.20784	127184	< 5.		UG/L	10/11/94		Tetrachloroethylene
AAB7696	94.20784	108883	< 5.		UG/L	10/11/94		Toluene
AAB7696	94.20784	76131	< 5.		UG/L	10/11/94		1,1,2-Trichloro-1,2,2-trifluoroethane
AAB7696	94.20784	87616	< 5.		UG/L	10/11/94		1,2,3-Trichlorobenzene
AAB7696	94.20784	120821	< 5.		UG/L	10/11/94		1,2,4-Trichlorobenzene
AAB7696	94.20784	71556	< 5.		UG/L	10/11/94		1,1,1-Trichloroethane
AAB7696	94.20784	79005	< 5.		UG/L	10/11/94		1,1,2-Trichloroethane
AAB7696	94.20784	79016	< 5.		UG/L	10/11/94		Trichloroethene
AAB7696	94.20784	75694	< 5.		UG/L	10/11/94		Trichlorofluoromethane
AAB7696	94.20784	96184	< 5.		UG/L	10/11/94		1,2,3-Trichloropropane
AAB7696	94.20784	95636	< 5.		UG/L	10/11/94		1,2,4-Trimethylbenzene

********** EM-9 ANALYTICAL REPORT **********

CUSTOMER NUMBER	SAMPLE NUMBER	ANALYSIS		ANALYTICAL RESULT	ANALYTICAL UNCERTAINTY	UNITS	COMPLETION DATE	COMMENT	COMPOUND NAME
AAB7696	94.20784	108678		< 5.		UG/L	10/11/94		1,3,5-Trimethylbenzene
AAB7696	94.20784	75014		< 10.		UG/L	10/11/94		Vinyl chloride
AAB7696	94.20784	1330207		< 5.		UG/L	10/11/94		Mixed-Xylenes (o ± m ± p)

Tentatively Identified Compounds in Customer Sample # 94.20784

CUSTOMER NUMBER	SAMPLE NUMBER	ANALYSIS		ANALYTICAL RESULT	ANALYTICAL UNCERTAINTY	UNITS	COMPLETION DATE	COMMENT	COMPOUND NAME
AAB7696	94.20784	108952	TI	11.		UG/L	10/11/94		Phenol
AAB7696	94.20784	100	TI	7.		UG/L	10/11/94		Unknown organic compound
AAB7696	94.20784	100	TI	7.		UG/L	10/11/94		Unknown organic compound
AAB7696	94.20784	100	TI	76.		UG/L	10/11/94		Unknown organic compound
AAB7696	94.20784	100	TI	7.		UG/L	10/11/94		Unknown organic compound
AAB7696	94.20784	100	TI	18.		UG/L	10/11/94		Unknown organic compound
AAB7696	94.20784	100	TI	12.		UG/L	10/11/94		Unknown organic compound
AAB7696	94.20784	100	TI	7.		UG/L	10/11/94		Unknown organic compound
AAB7696	94.20784	166	TI	7.		UG/L	10/11/94		Unsaturated Hydrocarbons
AAB7696	94.20784	166	TI	14.		UG/L	10/11/94		Unsaturated Hydrocarbons

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********** EM-9 ANALYTICAL REPORT **********

EPA VOLATILES Prepared by: LAK on 11-Oct-1994

REQUEST NUMBER: 18766 MATRIX: W ANALYST: 211 PROGRAM CODE: M83B NOTEBOOK: 9409028 PAGE:

OWNER: Garry Allen GROUP: CST-6 MAIL-STOP: E525 PHONE: 7-3394 TECHNIQUE: GCMS ANALYTICAL PROCEDURE: EPA SW-846 3RD

Customer Sample Results, Sample # 94.20785 Date Collected: 8/30/94 Date Received: 8/31/94 Date Extracted: 9/09/94 Date Analyzed: 9/09/94

CUSTOMER NUMBER	SAMPLE NUMBER	ANALYSIS	ANALYTICAL RESULT	ANALYTICAL UNCERTAINTY	UNITS	COMPLETION DATE	COMMENT	COMPOUND NAME
AAB7697	94.20785	67641	< 20.		UG/L	10/11/94		Acetone
AAB7697	94.20785	71432	< 5.		UG/L	10/11/94		Benzene
AAB7697	94.20785	108861	< 5.		UG/L	10/11/94		Bromobenzene
AAB7697	94.20785	74975	< 5.		UG/L	10/11/94		Bromochloromethane
AAB7697	94.20785	75274	< 5.		UG/L	10/11/94		Bromodichloromethane
AAB7697	94.20785	75252	< 5.		UG/L	10/11/94		Bromoform
AAB7697	94.20785	74839	< 10.		UG/L	10/11/94		Bromomethane
AAB7697	94.20785	78933	< 20.		UG/L	10/11/94		2-Butanone
AAB7697	94.20785	104518	< 5.		UG/L	10/11/94		n-Butylbenzene
AAB7697	94.20785	135988	< 5.		UG/L	10/11/94		sec-Butylbenzene
AAB7697	94.20785	98066	< 5.		UG/L	10/11/94		tert-Butylbenzene
AAB7697	94.20785	75150	< 5.		UG/L	10/11/94		Carbon disulfide
AAB7697	94.20785	56235	< 5.		UG/L	10/11/94		Carbon tetrachloride
AAB7697	94.20785	108907	< 5.		UG/L	10/11/94		Chlorobenzene
AAB7697	94.20785	124481	< 5.		UG/L	10/11/94		Chlorodibromomethane
AAB7697	94.20785	75003	< 10.		UG/L	10/11/94		Chloroethane
AAB7697	94.20785	67663	< 5.		UG/L	10/11/94		Chloroform
AAB7697	94.20785	74873	< 10.		UG/L	10/11/94		Chloromethane
AAB7697	94.20785	95498	< 5.		UG/L	10/11/94		o-Chlorotoluene
AAB7697	94.20785	106434	< 5.		UG/L	10/11/94		p-Chlorotoluene
AAB7697	94.20785	96128	< 10.		UG/L	10/11/94		1,2-Dibromo-3-chloropropane
AAB7697	94.20785	74953	< 5.		UG/L	10/11/94		Dibromomethane
AAB7697	94.20785	95501	< 5.		UG/L	10/11/94		o-Dichlorobenzene (1,2)
AAB7697	94.20785	541731	< 5.		UG/L	10/11/94		m-Dichlorobenzene (1,3)
AAB7697	94.20785	106467	< 5.		UG/L	10/11/94		p-Dichlorobenzene (1,4)
AAB7697	94.20785	75718	< 10.		UG/L	10/11/94		Dichlorodifluoromethane

********** EM-9 ANALYTICAL REPORT **********

CUSTOMER NUMBER	SAMPLE NUMBER	ANALYSIS	ANALYTICAL RESULT	ANALYTICAL UNCERTAINTY	UNITS	COMPLETION DATE	COMMENT	COMPOUND NAME
AAB7697	94.20785	75343	< 5.		UG/L	10/11/94		1,1-Dichloroethane
AAB7697	94.20785	107062	< 5.		UG/L	10/11/94		1,2-Dichloroethane
AAB7697	94.20785	75354	< 5.		UG/L	10/11/94		1,1-Dichloroethene
AAB7697	94.20785	156605	< 5.		UG/L	10/11/94		trans-1,2-Dichloroethene
AAB7697	94.20785	156592	< 5.		UG/L	10/11/94		cis-1,2-Dichloroethylene
AAB7697	94.20785	78875	< 5.		UG/L	10/11/94		1,2-Dichloropropane
AAB7697	94.20785	142289	< 5.		UG/L	10/11/94		1,3-Dichloropropane
AAB7697	94.20785	594207	< 5.		UG/L	10/11/94		2,2-Dichloropropane
AAB7697	94.20785	563586	< 5.		UG/L	10/11/94		1,1-Dichloropropene
AAB7697	94.20785	10061015	< 5.		UG/L	10/11/94		cis-1,3-Dichloropropene
AAB7697	94.20785	10061026	< 5.		UG/L	10/11/94		trans-1,3-Dichloropropene
AAB7697	94.20785	100414	< 5.		UG/L	10/11/94		Ethylbenzene
AAB7697	94.20785	106934	< 5.		UG/L	10/11/94		Ethylene dibromide
AAB7697	94.20785	87683	< 5.		UG/L	10/11/94		Hexachlorobutadiene
AAB7697	94.20785	591786	< 20.		UG/L	10/11/94		2-Hexanone
AAB7697	94.20785	98828	< 5.		UG/L	10/11/94		Isopropylbenzene
AAB7697	94.20785	99876	< 5.		UG/L	10/11/94		4-Isopropyltoluene
AAB7697	94.20785	74884	< 5.		UG/L	10/11/94		Methyl iodide
AAB7697	94.20785	108101	< 20.		UG/L	10/11/94		4-Methyl-2-pentanone
AAB7697	94.20785	75092	< 5.		UG/L	10/11/94		Methylene chloride
AAB7697	94.20785	91203	< 5.		UG/L	10/11/94		Naphthalene
AAB7697	94.20785	103651	< 5.		UG/L	10/11/94		Propylbenzene
AAB7697	94.20785	100425	< 5.		UG/L	10/11/94		Styrene
AAB7697	94.20785	630206	< 5.		UG/L	10/11/94		1,1,1,2-Tetrachloroethane
AAB7697	94.20785	79345	< 5.		UG/L	10/11/94		1,1,2,2-Tetrachloroethane
AAB7697	94.20785	127184	< 5.		UG/L	10/11/94		Tetrachloroethylene
AAB7697	94.20785	108883	5.	1.5	UG/L	10/11/94		Toluene
AAB7697	94.20785	76131	< 5.		UG/L	10/11/94		1,1,2-Trichloro-1,2,2-trifluoroethane
AAB7697	94.20785	87616	< 5.		UG/L	10/11/94		1,2,3-Trichlorobenzene
AAB7697	94.20785	120821	< 5.		UG/L	10/11/94		1,2,4-Trichlorobenzene
AAB7697	94.20785	71556	< 5.		UG/L	10/11/94		1,1,1-Trichloroethane
AAB7697	94.20785	79005	< 5.		UG/L	10/11/94		1,1,2-Trichloroethane
AAB7697	94.20785	79016	< 5.		UG/L	10/11/94		Trichloroethene
AAB7697	94.20785	75694	< 5.		UG/L	10/11/94		Trichlorofluoromethane
AAB7697	94.20785	96184	< 5.		UG/L	10/11/94		1,2,3-Trichloropropane
AAB7697	94.20785	95636	< 5.		UG/L	10/11/94		1,2,4-Trimethylbenzene

********** EM-9 ANALYTICAL REPORT **********

CUSTOMER NUMBER	SAMPLE NUMBER	ANALYSIS		ANALYTICAL RESULT	ANALYTICAL UNCERTAINTY	UNITS	COMPLETION DATE	COMMENT	COMPOUND NAME
AAB7697	94.20785	108678		< 5.		UG/L	10/11/94		1,3,5-Trimethylbenzene
AAB7697	94.20785	75014		< 10.		UG/L	10/11/94		Vinyl chloride
AAB7697	94.20785	1330207		< 5.		UG/L	10/11/94		Mixed-Xylenes (o ± m ± p)

Tentatively Identified Compounds in Customer Sample # 94.20785

CUSTOMER NUMBER	SAMPLE NUMBER	ANALYSIS		ANALYTICAL RESULT	ANALYTICAL UNCERTAINTY	UNITS	COMPLETION DATE	COMMENT	COMPOUND NAME
AAB7697	94.20785	100	TI	14.		UG/L	10/11/94		Unknown organic compound

********** EM-9 QUALITY ASSURANCE REPORT **********

EPA VOLATILES Prepared by: LAK on 11-Oct-1994

REQUEST NUMBER: 18766 MATRIX: W ANALYST: 211 PROGRAM CODE: M83B NOTEBOOK: 9409028 PAGE:

OWNER: Garry Allen GROUP: CST-6 MAIL-STOP: E525 PHONE: 7-3394 TECHNIQUE: GCMS ANALYTICAL PROCEDURE: EPA SW-846 3RD

SUMMARY OF CONTROL STATUS OF OPEN (NON-BLIND) QA SAMPLES RUN WITH THIS BATCH

There were no open (non-blind) Quality Control materials run with the samples reported above for one of the following reasons:

____ Only qualitative data requested

____ Only Blind QC samples run with this batch.

____ No QC samples run with this sample batch.

____ No QC samples for this constituent and matrix type available within EM-9

********** EM-9 QUALITY ASSURANCE REPORT **********

SUMMARY OF CONTROL STATUS OF BLANK QC SAMPLES RUN WITH THIS BATCH

Blank Results, Sample # 94.20786 Date Collected: 8/31/94 Date Received: 8/31/94 Date Extracted: 9/09/94 Date Analyzed: 9/09/94

CUSTOMER NUMBER	SAMPLE NUMBER	ANALYSIS	ANALYTICAL RESULT	ANALYTICAL UNCERTAINTY	UNITS	QC VALUE	QC UNCERTAINTY	COMPLETION DATE	COMMENT	COMPOUND NAME
00.30670	94.20786	67641	< 20.		UG/L	0.0		10/11/94	UNDER CONTROL	Acetone
00.30670	94.20786	71432	< 5.		UG/L	0.0		10/11/94	UNDER CONTROL	Benzene
00.30670	94.20786	108861	< 5.		UG/L	0.0		10/11/94	UNDER CONTROL	Bromobenzene
00.30670	94.20786	74975	< 5.		UG/L	0.0		10/11/94	UNDER CONTROL	Bromochloromethane
00.30670	94.20786	75274	< 5.		UG/L	0.0		10/11/94	UNDER CONTROL	Bromodichloromethane
00.30670	94.20786	75252	< 5.		UG/L	0.0		10/11/94	UNDER CONTROL	Bromoform
00.30670	94.20786	74839	< 10.		UG/L	0.0		10/11/94	UNDER CONTROL	Bromomethane
00.30670	94.20786	78933	< 20.		UG/L	0.0		10/11/94	UNDER CONTROL	2-Butanone
00.30670	94.20786	104518	< 5.		UG/L	0.0		10/11/94	UNDER CONTROL	n-Butylbenzene
00.30670	94.20786	135988	< 5.		UG/L	0.0		10/11/94	UNDER CONTROL	sec-Butylbenzene
00.30670	94.20786	98066	< 5.		UG/L	0.0		10/11/94	UNDER CONTROL	tert-Butylbenzene
00.30670	94.20786	75150	< 5.		UG/L	0.0		10/11/94	UNDER CONTROL	Carbon disulfide
00.30670	94.20786	56235	< 5.		UG/L	0.0		10/11/94	UNDER CONTROL	Carbon tetrachloride
00.30670	94.20786	108907	< 5.		UG/L	0.0		10/11/94	UNDER CONTROL	Chlorobenzene
00.30670	94.20786	124481	< 5.		UG/L	0.0		10/11/94	UNDER CONTROL	Chlorodibromomethane
00.30670	94.20786	75003	< 10.		UG/L	0.0		10/11/94	UNDER CONTROL	Chloroethane
00.30670	94.20786	67663	< 5.		UG/L	0.0		10/11/94	UNDER CONTROL	Chloroform
00.30670	94.20786	74873	< 10.		UG/L	0.0		10/11/94	UNDER CONTROL	Chloromethane
00.30670	94.20786	95498	< 5.		UG/L	0.0		10/11/94	UNDER CONTROL	o-Chlorotoluene
00.30670	94.20786	106434	< 5.		UG/L	0.0		10/11/94	UNDER CONTROL	p-Chlorotoluene
00.30670	94.20786	96128	< 10.		UG/L	0.0		10/11/94	UNDER CONTROL	1,2-Dibromo-3-chloropropane

********** EM-9 QUALITY ASSURANCE REPORT **********

CUSTOMER NUMBER	SAMPLE NUMBER	ANALYSIS	ANALYTICAL RESULT	ANALYTICAL UNCERTAINTY	UNITS	QC VALUE	QC UNCERTAINTY	COMPLETION DATE	COMMENT	COMPOUND NAME
00.30670	94.20786	74953	< 5.		UG/L	0.0		10/11/94	UNDER CONTROL	Dibromomethane
00.30670	94.20786	95501	< 5.		UG/L	0.0		10/11/94	UNDER CONTROL	o-Dichlorobenzene (1,2)
00.30670	94.20786	541731	< 5.		UG/L	0.0		10/11/94	UNDER CONTROL	m-Dichlorobenzene (1,3)
00.30670	94.20786	106467	< 5.		UG/L	0.0		10/11/94	UNDER CONTROL	p-Dichlorobenzene (1,4)
00.30670	94.20786	75718	< 10.		UG/L	0.0		10/11/94	UNDER CONTROL	Dichlorodifluoromethane
00.30670	94.20786	75343	< 5.		UG/L	0.0		10/11/94	UNDER CONTROL	1,1-Dichloroethane
00.30670	94.20786	107062	< 5.		UG/L	0.0		10/11/94	UNDER CONTROL	1,2-Dichloroethane
00.30670	94.20786	75354	< 5.		UG/L	0.0		10/11/94	UNDER CONTROL	1,1-Dichloroethene
00.30670	94.20786	156605	< 5.		UG/L	0.0		10/11/94	UNDER CONTROL	trans-1,2-Dichloroethene
00.30670	94.20786	156592	< 5.		UG/L	0.0		10/11/94	UNDER CONTROL	cis-1,2-Dichloroethylene
00.30670	94.20786	78875	< 5.		UG/L	0.0		10/11/94	UNDER CONTROL	1,2-Dichloropropane
00.30670	94.20786	142289	< 5.		UG/L	0.0		10/11/94	UNDER CONTROL	1,3-Dichloropropane
00.30670	94.20786	594207	< 5.		UG/L	0.0		10/11/94	UNDER CONTROL	2,2-Dichloropropane
00.30670	94.20786	563586	< 5.		UG/L	0.0		10/11/94	UNDER CONTROL	1,1-Dichloropropene
00.30670	94.20786	10061015	< 5.		UG/L	0.0		10/11/94	UNDER CONTROL	cis-1,3-Dichloropropene
00.30670	94.20786	10061026	< 5.		UG/L	0.0		10/11/94	UNDER CONTROL	trans-1,3-Dichloropropene
00.30670	94.20786	100414	< 5.		UG/L	0.0		10/11/94	UNDER CONTROL	Ethylbenzene
00.30670	94.20786	106934	< 5.		UG/L	0.0		10/11/94	UNDER CONTROL	Ethylene dibromide
00.30670	94.20786	591786	< 20.		UG/L	0.0		10/11/94	UNDER CONTROL	2-Hexanone
00.30670	94.20786	98828	< 5.		UG/L	0.0		10/11/94	UNDER CONTROL	Isopropylbenzene
00.30670	94.20786	99876	< 5.		UG/L	0.0		10/11/94	UNDER CONTROL	4-Isopropyltoluene
00.30670	94.20786	74884	< 5.		UG/L	0.0		10/11/94	UNDER CONTROL	Methyl iodide
00.30670	94.20786	108101	< 20.		UG/L	0.0		10/11/94	UNDER CONTROL	4-Methyl-2-pentanone
00.30670	94.20786	75092	< 5.		UG/L	0.0		10/11/94	UNDER CONTROL	Methylene chloride
00.30670	94.20786	103651	< 5.		UG/L	0.0		10/11/94	UNDER CONTROL	Propylbenzene
00.30670	94.20786	100425	< 5.		UG/L	0.0		10/11/94	UNDER CONTROL	Styrene
00.30670	94.20786	630206	< 5.		UG/L	0.0		10/11/94	UNDER CONTROL	1,1,1,2-Tetrachloroethane
00.30670	94.20786	79345	< 5.		UG/L	0.0		10/11/94	UNDER CONTROL	1,1,2,2-Tetrachloroethane
00.30670	94.20786	127184	< 5.		UG/L	0.0		10/11/94	UNDER CONTROL	Tetrachloroethylene
00.30670	94.20786	108883	< 5.		UG/L	0.0		10/11/94	UNDER CONTROL	Toluene
00.30670	94.20786	76131	< 5.		UG/L	0.0		10/11/94	UNDER CONTROL	1,1,2-Trichloro-1,2,2-trifluoroetha
00.30670	94.20786	71556	< 5.		UG/L	0.0		10/11/94	UNDER CONTROL	1,1,1-Trichloroethane
00.30670	94.20786	79005	< 5.		UG/L	0.0		10/11/94	UNDER CONTROL	1,1,2-Trichloroethane
00.30670	94.20786	79016	< 5.		UG/L	0.0		10/11/94	UNDER CONTROL	Trichloroethene
00.30670	94.20786	75694	< 5.		UG/L	0.0		10/11/94	UNDER CONTROL	Trichlorofluoromethane
00.30670	94.20786	96184	< 5.		UG/L	0.0		10/11/94	UNDER CONTROL	1,2,3-Trichloropropane

********** EM-9 QUALITY ASSURANCE REPORT **********

CUSTOMER NUMBER	SAMPLE NUMBER	ANALYSIS	ANALYTICAL RESULT	ANALYTICAL UNCERTAINTY	UNITS	QC VALUE	QC UNCERTAINTY	COMPLETION DATE	COMMENT	COMPOUND NAME
00.30670	94.20786	95636	< 5.		UG/L	0.0		10/11/94	UNDER CONTROL	1,2,4-Trimethylbenzene
00.30670	94.20786	108678	< 5.		UG/L	0.0		10/11/94	UNDER CONTROL	1,3,5-Trimethylbenzene
00.30670	94.20786	75014	< 10.		UG/L	0.0		10/11/94	UNDER CONTROL	Vinyl chloride
00.30670	94.20786	1330207	< 5.		UG/L	0.0		10/11/94	UNDER CONTROL	Mixed-Xylenes (o ± m ± p)

Blank Spike Results: none

Blank Spike Duplicate Results: none

********** EM-9 QUALITY ASSURANCE REPORT **********

SUMMARY OF CONTROL STATUS OF BLIND QA SAMPLES RUN WITH THIS BATCH

Blind QC Results, Sample # 94.20778 Date Collected: 8/31/94 Date Received: 8/31/94 Date Extracted: 9/09/94 Date Analyzed: 9/09/94

SAMPLE NUM	ANALYSIS	ANALYTICAL RESULT	ANALYTICAL UNCERTAINTY	UNITS	QC VALUE	QC UNCERTAINTY	COMPLETION DATE	COMMENT	COMPOUND-NAME
94.20778	67641	< 20.		UG/L	0.0		10/11/94	UNDER CONTROL	Acetone
94.20778	71432	55.	16.5	UG/L	50.	5.	10/11/94	UNDER CONTROL	Benzene
94.20778	108861	< 5.		UG/L	0.0		10/11/94	UNDER CONTROL	Bromobenzene
94.20778	74975	< 5.		UG/L	0.0		10/11/94	UNDER CONTROL	Bromochloromethane
94.20778	75274	51.	15.3	UG/L	44.8	4.5	10/11/94	UNDER CONTROL	Bromodichloromethane
94.20778	75252	90.	27.	UG/L	85.5	8.6	10/11/94	UNDER CONTROL	Bromoform
94.20778	74839	< 10.		UG/L	0.0		10/11/94	UNDER CONTROL	Bromomethane
94.20778	78933	< 20.		UG/L	0.0		10/11/94	UNDER CONTROL	2-Butanone
94.20778	104518	< 5.		UG/L	0.0		10/11/94	UNDER CONTROL	n-Butylbenzene
94.20778	135988	< 5.		UG/L	0.0		10/11/94	UNDER CONTROL	sec-Butylbenzene
94.20778	98066	< 5.		UG/L	0.0		10/11/94	UNDER CONTROL	tert-Butylbenzene
94.20778	75150	< 5.		UG/L	0.0		10/11/94	UNDER CONTROL	Carbon disulfide
94.20778	56235	150.	45.	UG/L	143.	14.3	10/11/94	UNDER CONTROL	Carbon tetrachloride
94.20778	108907	42.	12.6	UG/L	42.	4.2	10/11/94	UNDER CONTROL	Chlorobenzene
94.20778	124481	150.	45.	UG/L	137.	14.	10/11/94	UNDER CONTROL	Chlorodibromomethane
94.20778	75003	< 10.		UG/L	0.0		10/11/94	UNDER CONTROL	Chloroethane
94.20778	67663	< 5.		UG/L	0.0		10/11/94	UNDER CONTROL	Chloroform
94.20778	74873	< 10.		UG/L	0.0		10/11/94	UNDER CONTROL	Chloromethane
94.20778	95498	< 5.		UG/L	0.0		10/11/94	UNDER CONTROL	o-Chlorotoluene
94.20778	106434	< 5.		UG/L	0.0		10/11/94	UNDER CONTROL	p-Chlorotoluene
94.20778	96128	< 10.		UG/L	0.0		10/11/94	UNDER CONTROL	1,2-Dibromo-3-chloropropane
94.20778	74953	< 5.		UG/L	0.0		10/11/94	UNDER CONTROL	Dibromomethane
94.20778	95501	73.	21.9	UG/L	69.3	6.9	10/11/94	UNDER CONTROL	o-Dichlorobenzene (1,2)
94.20778	541731	< 5.		UG/L	0.0		10/11/94	UNDER CONTROL	m-Dichlorobenzene (1,3)
94.20778	106467	110.	33.	UG/L	112.	11.2	10/11/94	UNDER CONTROL	p-Dichlorobenzene (1,4)
9'.20778	75718	< 10.		UG/L	0.0		10/11/94	UNDER CONTROL	Dichlorodifluoromethane

94.20778	75343	< 5.		UG/L	0.0		10/11/94	UNDER CONTROL	1,1-Dichloroethane
94.20778	107062	78.	23.4	UG/L	74.4	7.4	10/11/94	UNDER CONTROL	1,2-Dichloroethane
94.20778	75354	< 5.		UG/L	0.0		10/11/94	UNDER CONTROL	1,1-Dichloroethene
94.20778	156605	< 5.		UG/L	0.0		10/11/94	UNDER CONTROL	trans-1,2-Dichloroethene
94.20778	156592	< 5.		UG/L	0.0		10/11/94	UNDER CONTROL	cis-1,2-Dichloroethylene
94.20778	78875	< 5.		UG/L	0.0		10/11/94	UNDER CONTROL	1,2-Dichloropropane
94.20778	142289	< 5.		UG/L	0.0		10/11/94	UNDER CONTROL	1,3-Dichloropropane
94.20778	594207	< 5.		UG/L	0.0		10/11/94	UNDER CONTROL	2,2-Dichloropropane
94.20778	563586	< 5.		UG/L	0.0		10/11/94	UNDER CONTROL	1,1-Dichloropropene
94.20778	10061015	< 5.		UG/L	0.0		10/11/94	UNDER CONTROL	cis-1,3-Dichloropropene
94.20778	10061026	< 5.		UG/L	0.0		10/11/94	UNDER CONTROL	trans-1,3-Dichloropropene
94.20778	100414	20.	6.	UG/L	17.9	1.8	10/11/94	UNDER CONTROL	Ethylbenzene
94.20778	106934	< 5.		UG/L	0.0		10/11/94	UNDER CONTROL	Ethylene dibromide
94.20778	87683	< 5.		UG/L	0.0		10/11/94	UNDER CONTROL	Hexachlorobutadiene
94.20778	591786	< 20.		UG/L	0.0		10/11/94	UNDER CONTROL	2-Hexanone
94.20778	98828	< 5.		UG/L	0.0		10/11/94	UNDER CONTROL	Isopropylbenzene
94.20778	99876	< 5.		UG/L	0.0		10/11/94	UNDER CONTROL	4-Isopropyltoluene
94.20778	74884	< 5.		UG/L	0.0		10/11/94	UNDER CONTROL	Methyl iodide
94.20778	108101	24.	7.2	UG/L	27.9	2.8	10/11/94	UNDER CONTROL	4-Methyl-2-pentanone
94.20778	75092	62.	18.6	UG/L	49.5	5.	10/11/94	UNDER CONTROL	Methylene chloride
94.20778	91203	< 5.		UG/L	0.0		10/11/94	UNDER CONTROL	Naphthalene
94.20778	103651	< 5.		UG/L	0.0		10/11/94	UNDER CONTROL	Propylbenzene
94.20778	100425	< 5.		UG/L	0.0		10/11/94	UNDER CONTROL	Styrene
94.20778	630206	56.	16.8	UG/L	52.3	5.2	10/11/94	UNDER CONTROL	1,1,1,2-Tetrachloroethane
94.20778	79345	< 5.		UG/L	0.0		10/11/94	UNDER CONTROL	1,1,2,2-Tetrachloroethane
94.20778	127184	47.	14.1	UG/L	41.4	4.1	10/11/94	UNDER CONTROL	Tetrachloroethylene
94.20778	108883	82.	24.6	UG/L	72.6	7.3	10/11/94	UNDER CONTROL	Toluene
94.20778	76131	< 5.		UG/L	0.0		10/11/94	UNDER CONTROL	1,1,2-Trichloro-1,2,2-trifluoroethane
94.20778	87616	< 5.		UG/L	0.0		10/11/94	UNDER CONTROL	1,2,3-Trichlorobenzene
94.20778	120821	< 5.		UG/L	0.0		10/11/94	UNDER CONTROL	1,2,4-Trichlorobenzene
94.20778	71556	81.	24.3	UG/L	67.3	6.7	10/11/94	UNDER CONTROL	1,1,1-Trichloroethane
94.20778	79005	< 5.		UG/L	0.0		10/11/94	UNDER CONTROL	1,1,2-Trichloroethane
94.20778	79016	63.	18.9	UG/L	57.2	5.7	10/11/94	UNDER CONTROL	Trichloroethene
94.20778	75694	< 5.		UG/L	0.0		10/11/94	UNDER CONTROL	Trichlorofluoromethane
94.20778	96184	< 5.		UG/L	0.0		10/11/94	UNDER CONTROL	1,2,3-Trichloropropane
94.20778	95636	< 5.		UG/L	0.0		10/11/94	UNDER CONTROL	1,2,4-Trimethylbenzene
94.20778	108678	< 5.		UG/L	0.0		10/11/94	UNDER CONTROL	1,3,5-Trimethylbenzene
94.20778	75014	< 10.		UG/L	0.0		10/11/94	UNDER CONTROL	Vinyl chloride
94.20778	1330207	32.	9.6	UG/L	29.1	2.9	10/11/94	UNDER CONTROL	Mixed-Xylenes (o ± m ± p)

********** EM-9 QUALITY ASSURANCE REPORT **********

SURROGATE RESULTS FOR EPA VOLATILES

Surrogate 1 = 1,2-Dichloroethane d4 (CAS # = 17060070)
Surrogate 2 = Toluene d8 (CAS # = 2037265)
Surrogate 3 = 4-Bromofluorobenzene (CAS # = 460004)
Surrogate 4 = 2-Chlorostyrene (CAS # = 2039874)
Surrogate 5 = Dibromofluoromethane (CAS # = 1868537)

SAMPLE NUMBER	UNITS	Surrogate 1	Surrogate 2	Surrogate 3	Surrogate 4	Surrogate 5	COMPLETION DATE	SAMPLE TYPE
94.20778	%	0.0	104.	95.		99.	11-Oct-1994	
94.20779	%	0.0	98.	102.		104.	11-Oct-1994	MS
94.20779	%	0.0	100.	96.		103.	11-Oct-1994	MSD
94.20779	%	0.0	105.	97.		96.	11-Oct-1994	
94.20780	%	0.0	103.	96.		97.	11-Oct-1994	
94.20781	%	0.0	106.	96.		95.	11-Oct-1994	
94.20782	%	0.0	104.	95.		100.	11-Oct-1994	
94.20783	%	0.0	104.	97.		102.	11-Oct-1994	
94.20784	%	0.0	105.	97.		96.	11-Oct-1994	
94.20785	%	0.0	104.	96.		100.	11-Oct-1994	
94.20786	%	0.0	104.	96.		103.	11-Oct-1994	B
EPA Limits:								
Water	%	76 - 114	88 - 110	86 - 115	86 - 115	86 - 118		
Soil	%	70 - 121	81 - 117	74 - 121	74 - 121			

FINDING NUMBER: 35

CONCLUSION NUMBER: 73

FINDING NUMBER: 35

CONCLUSION NUMBER: 73

DISCUSSION:

Compliance Order NMHWA 95-03 requires that within ten (10) days from the receipt of the Order, the U.S. Department of Energy and Los Alamos National Laboratory must submit documentation that proves the "knowledge of process" claimed regarding the waste noted in paragraph 73 or submit a revised waste analysis plan which address the wastes noted.

Attached are the following documents which address the generator's knowledge of the waste:

- Summary of discussion between ESH-19 and ESA-WMA.
- Los Alamos National Laboratory's RCRA Part B Permit Application, Revision 4.1, dated November 1988, Section 3.0 WASTE CHARACTERISTICS AND ANALYSIS PLAN, **Subsection 3.1.5, Explosives Wastes, and Subsection 3.2, Waste Analysis Plan.**
- Los Alamos National Laboratory's RCRA Part B Permit Application, Revision 4.1, dated November 1988, Section 3.0 WASTE CHARACTERISTICS AND ANALYSIS PLAN, **Table 3-7, Established Explosives at TA-16 Nominal Compositions.**
- Waste Profile Forms for waste thermally treated at the TA-16 Burning Grounds.
- Group M-1 Analytical Laboratory Report, dated October 7, 1993 (example of analytical data).
- Governing SOPs for the TA-16 Burning Grounds.

Note: ESH-19 in cooperation with ESA-WMA is currently in the process of revising the Waste Analysis Plan (WAP) for the Burning Grounds as directed by the New Mexico Environment Department. The OB/OD operates under an interim status permit per HWMR-5 Part VI, Section 265.382. The interim status operations currently use the WAP as outlined in our permit application. The updated Part B will contain an updated WAP as appropriate.

SUMMARY OF DISCUSSION BETWEEN ESH-19 AND ESA-WMA

SUBJECT: TA-16-BURNING GROUNDS, FINDING 35, CONCLUSION 73

The TA-16 Burning Grounds waste profiles and waste analyses are covered under the Laboratory's "RCRA Part A", and "RCRA Part B Permit Application". In addition, the conduct of operations at TA-16 Burning Grounds are governed by specific Standard Operation Procedures (SOPs). The SOPs describe in detail the procedure for accepting waste generated within the technical boundaries of the TA-16 exclusion area and the acceptance criteria of waste generated from other generators (ref. attached SOPs).

Waste which is flashed at the Burning Grounds is generated within High Explosive (HE) areas throughout the Laboratory. The HE is flashed as a requirement of the DOE Explosive Safety Manual to ensure safe handling of possible HE contaminated items.

Personnel from ESA-WMA have presented documentation to support their position that the waste, through Process Knowledge (PK) is a non-hazardous waste. ESA-WE has in place administrative controls to prevent the introduction of unknown or uncharacterized hazardous waste onto the flash pad for thermal treatment. ESA-WE currently requires a Waste Profile Form (WPF) for all waste being sent to the facility from outside organizations. At the conclusion of the flashing process, a WPF is generated to characterized the treatment residue and the waste is disposed in accordance with Laboratory's Administrative Requirements (ARs).

ESA-WMA response to the finding is as follows: Flash pad operations are generally for commercially available materials and equipment flashed as a precaution because they have been used in conjunction with HE and may be contaminated with HE. They are considered to be non-hazardous, administratively controlled, materials only as profiled by WPF 07259 incoming to the flash pad and WPF 08180 outgoing from the flash pad. As such, these materials are not subject to metal analysis. HE and HE contaminated wastes are not subject to metal analysis as in Attachment A of the Facility Operating Permit and are characterized through process knowledge. Through process knowledge, sand sent to TA-54 from the HE filter vessels are considered contaminated with barium until proven otherwise and as such, are subject to metal analysis. As stated in the RCRA Part B application, burn pad sand (actually structure 401 and 406 filter vessel sand, there is no sand used or generated at any of the burn pads 387, 388, and 399) is tested for barium content prior to release then treated as hazardous or non-hazardous depending on barium test results. Both cases are profiled, WPF 09425 refers to non-hazardous waste containing less than 100 ppm barium, WFP 09424 refers to hazardous waste containing greater than 100 ppm barium (references included in packet).

3.1.4 Shops Department Wastes

The Main Shops Department, Building TA-3-39, houses most of the highly versatile machine shop capabilities at the Laboratory. Parts can be machined from almost any known metal or alloy. Waste materials from machining operations are segregated by metal when generated. (For example, there are containers for aluminum, chips and turnings.) The machining operations routinely generate waste lithium metal and lithium hydride, both of which are hazardous because of their reactivity (D003). Again, these materials, when generated, are known and not comingled with other metal wastes. The Main Shops Department also generates waste nonhalogenated solvents (F003) and halogenated degreasers (F001) and solvents (F002).

3.1.5 Explosives Wastes

High explosives (HE) waste is generated by the Dynamics Testing (M) and Design Engineering (WX) Divisions groups in the course of processing and testing various HE materials. Processing includes pressing, machining and casting HE. Table 3-7 shows the established explosives that may be processed at the Laboratory. Waste occurs as discrete pieces of HE, as well as chips, machine cuttings and powder. Solid HE may include off-specification or old explosives as well as scrap pieces of HE from processing operations. The chips, cuttings and powder are usually in the form of waterborne suspensions (K044, D005), collected in specially designed accumulating/settling sump tanks. Spent carbon (K045) from the TA-16 wastewater treatment facility is generated approximately twice a year. Wastes also consist of materials contaminated with HE; these may include paper, oil, solvents, wood, machine tools, fixtures, etc. HE-contaminated equipment, tools and other large items are considered reactive (D003). HE-contaminated oil may also contain listed solvents (F001, F002, F003, F005) as well as exhibit the characteristics of EP toxicity for barium (D005). Chemically, the predominant wastes consist of HMX, RDX (cyclonite), TNT (2,4,6 trinitrotoluene), PETN (pentaerythritol tetranitrate), ammonium nitrate, barium nitrate, TATB (triaminotrinitrobenzene), nitrocellulose, tetryl, nitroguanidine and various plastic binders. Nearly all the HE waste substances are ignitable (D001) or reactive (D003) and barium nitrate is EP toxic (D005). Residues from HE waste are generated by flashing or burning HE waste at TA-16. These residues are typically present in the uppermost layer of sand that covers the burn pad. The sand from the two pads used to burn pieces of explosives is considered hazardous because of its barium content (D005).

3.2 WASTE ANALYSIS PLAN

This section describes the waste analysis plan which has been developed and implemented at Los Alamos in accordance with 40 CFR 264.13, General Waste Analysis, and NMHWR 206.B.3.b. The plan ensures that the characteristics of the waste that require storage and treatment at Los Alamos or require off-site disposal at a permitted facility are known well enough to permit proper waste-handling procedures to be applied.

First, the waste is sorted generally by type:

- Waste from processing operations,
- Wastes from research and development, and
- High explosive (HE) waste.

Information on the waste container label and/or internal shipping ticket is considered. Generator supplied analytical data along with a description of the waste, names and phone numbers of contact persons are examined. The composition of the waste is based on a knowledge of the nature of the basic and applied chemistry R&D programs. At the Laboratory, the waste generators are typically chemists who are involved in the testing and analysis of chemicals and the evaluation of reactions. These researchers have detailed knowledge of the raw material which produced the waste and may have analyzed the waste as part of the research activities being conducted.

40 CFR 262.11(c)(2) (NMHWMR204.A.3.c.[2]) states that a generator may make a hazardous waste determination by "applying knowledge of the hazard characteristic of the waste in light of the materials or the process used". 40 CFR 264.13(a)(2) (NMHWMR 206.B.3.a.[1]) indicates that the detailed chemical and physical analysis of a representative sample of the waste may include "existing published or documented data on the hazardous wastes and or hazardous wastes generated from similar processes". The waste analysis plan makes use of the fact that the composition of the wastes are known as they are generated. As a result, waste analysis is not performed on all waste streams routinely. Instead, waste analysis is limited to times when the process or operation producing the waste changes or is suspected to have changed; when the waste is an unknown material; or to certify that wastes subject to land

disposal restrictions meet the treatment standards specified in 40 CFR Part 268 Subpart D.

The Waste Management Group utilizes the fact that the composition of most wastes generated at Los Alamos is known. The composition of the processing operations waste is known due to a detailed knowledge of the raw materials used, the process or operation generating the waste and results of previous waste analyses. Unless the process or operation changes the composition of the waste stream remains relatively constant.

The composition of the high explosive waste like the composition of the processing operations wastes is also known a priori. The Laboratory Waste Management Group is familiar with the generating process, the raw materials used, and previous waste analysis results.

Routine analyses are performed on wastes treated internally, including Laboratory organic wastes intended for incineration at the TA-50 chemical waste incinerator, wastes that are to be treated in the TA-50 batch treatment system and in the TA 54 Area L tanks; and wastes destined for off-site disposal at a permitted facility. These routine analyses are limited to those parameters needed to support the treatment operations or to document compliance with 40 CFR Part 268 requirements. More detailed analyses are performed on a representative number of individual waste streams to verify the accuracy of process knowledge.

3.2.1 Identification of Processes Generating Hazardous Wastes and Chemical and Physical Characteristics of the Waste Streams

Section 3.1 and Table 3-1 provide a waste inventory of the wastes handled, treated and stored at Los Alamos or transferred off-site to a permitted facility identified by process or operation generating the waste and waste characteristics.

A large variety and number of experiments are performed in the research and development programs. Consequently, from a waste management prospective detailing individual waste generation "processes" would be an unwieldy task. As a result, research and development programs wastes are grouped as a single

TABLE 3-7

ESTABLISHED EXPLOSIVES AT TA-16 NOMINAL COMPOSITIONS

NAME OR CODE	COMPOSITION
A1 ANFO[a]	Ammonium nitrate/fuel oil/aluminum power
AN	Ammonium nitrate
ANFO	Ammonium nitrate/fuel oil
Baratol	76 wt% Barium nitrate/24 wt% TNT
BDNPA	Bis(dinitropropyl) acetal
BDNPF	Bis(dinitropropyl) formal
Black powder	74 wt% Potassium nitrate/15.6 wt% charcoal/10.4 wt% sulfur
Boracitol	60 wt% Boric acid/40 wt% TNT
BTX	5,7-Dinitro-1-picrylbenzotriazole
Composition A-3	91 wt% RDX/9 wt% beeswax
Composition A-4	97 wt% RDX/3 wt% beeswax
Composition A-5	98.5 wt% RDX/1.5 wt% beeswax
Composition B and B-3	60 wt% RDX/40 wt% TNT
Composition C-3	88 wt% RDX/12 wt% wax
Composition C-4	91 wt% RDX/2.1 wt% polyisobutylene/1.6 wt% motor oil/5.3 wt% de(2-ethylhexyl) sebacate
Cyclotol, 75/25	75 wt% RDX/25 wt% TNT
Cyclotol, 70/30	70 wt% RDX/30 wt% TNT
DATB	Diaminotrinitrobenzene
DBA-1[a]	AN/$NaNO_3$/TNT/H_2O/thickener
Detasheet C	63 wt% PETN/8 wt% NC/29 wt% elastomeric binder
Detasheet D	75 wt% PETN/25 wt% elastomeric binder
	NOTE: Although this material may be red in color, it is an explosive and not an inert material.
DINGU	Dinitroglycoluril
DNPA	2,2-Dinitropropyl acrylate polymer
DNT	Dinitrotoluene
EDC-8[b]	76 wt% PETN/24 wt% Silicone rubber, MS 2420
EDC-28[c]	94 wt% RDX/6 wt% FPC 461
EDC-32[d]	85 wt% HMX/15 wt% Viton A
EDC-37[e]	91 wt% HMX/1 wt% nitrocellulose/8 wt% K-10 liquid
*EDC-38[f]	94.5 wt% HMX/3.5 wt% K-10 Liquid/2 wt% Polyurethane
HBX-1	40 wt% RDX/38 wt% TNT/17 wt% A1/5 wt% Wax/0.5 wt% $CaCl_2$

TABLE 3-7

ESTABLISHED EXPLOSIVES AT TA-16
NOMINAL COMPOSITIONS
(CONTINUED)

NAME OR CODE	COMPOSITION
High Energy Propellants[g]	Solid propellants generally used in missile systems
HMX	Cyclotetramethylenetetranitramine
HNS	Hexanitrostilbene
K-10[h]	65.3 wt% dinitroethylbenzene/34.7 wt% trinitroethylbenzene
LX-04	85 wt% HMX/15 wt% Viton A
LX-07	90 wt% HMX/10 wt% Viton A
LX-14	95.5 wt% HMX/4.5 wt% Estane 5702 F-1
Methane/oxygen[h]	Explosive mixtures of methane and oxygen gases
NC	Nitrocellulose, cellulose nitrate
Nitromethane	Nitromethane
NQ	Nitroguanidine
NTO	1,2,4-nitro-triazole-5-one
Octol	75 wt% HMX/25 wt% TNT
PBX-9001	90 wt% RDX/8.5 wt% polystyrene/1.5 wt% dioctyl phthalate
PBX-9007	90 wt% RDX/9.1 wt% polystyrene/0.5 wt% dioctyl phthalate/0.4 wt% resin
PBX-9010	90 wt% RDX/10 wt% Kel-F 3700 elastomer
PBX-9011	90 wt% HMX/10 wt% Estane 5703 F-1
PBX-9205	92 wt% RDX/6 wt% polystyrene/2 wt% dioctyl phthalate
PBX-9206	92 wt% HMX/8 wt% Kel-F 3700 elastomer
PBX-9401	94.2 wt% RDX/3.6 wt% polystyrene/2.2 wt% trioctyl phosphate
PBX-9404	94 wt% HMX/3 wt% nitrocellulose/3 wt% chloroethyl phosphate
PBX-9405	94 wt% RDX/3 wt% nitrocellulose/3 wt% chloroethyl phosphate
PBX-9407	94 wt% RDX/6 wt% Exon 461
PBX-9501	95 wt% HMX/2.5 wt% Estane/2.5 wt% BDNPA/F
PBX-9502	95 wt% TATB/5 wt% Kel-F 800
PBX-9503	80 wt% TATB Class 2)/15 wt% HMX (Class 2)/5 wt% Kel-F 800
PBXW-113	88 wt% HMX/12 wt% rubber/plasticizer binder
Pentolite	50 wt% PETN/50 wt% TNT

TABLE 3-7

ESTABLISHED EXPLOSIVES AT TA-16
NOMINAL COMPOSITIONS
(CONTINUED)

NAME OR CODE	COMPOSITION
PETN	Pentaerythritol tetranitrate
Picric Acid	Du Pont 85 wt% pure
PYX	2,6-Bis(picrylamino)-3,5-dinitropyridine
RDX	Cyclonite, cyclotrimethylenetrinitramine
Smokeless Powder (Single Base)	Standard military grades. Single or multi-perforated grains of colloided nitrocellulose. Stabilizers, plasticizers, inorganic nitrates, and other modifying agents may also be present.
Smokeless Powder (Double Base)	Standard military grades. Single or multi-perforated grains of colloided nitrocellulose containing nitroglycerine or nitroglycol. Stabilizers, plasticizers, inorganic nitrates, and other modifying agents may also be present.
STRATABLAST C[a]	Slurry blasting explosive
TAGN[h]	Triaminoguanidine nitrate
TAL-1005E[a]	Slurry blasting explosive
TATB	Triaminotrinitrobenzene
Tetryl	2,4,6-Trinitrophenylmethylnitramine
TNS	Trinitrostilbene
TNT	Trinitrotoluene
TNT/NC	80 wt% TNT/20 wt% NC
Tritonal	80 wt% TNT/20 wt% aluminum powder
XTX-8003	80 wt% Recrystallized PETN/20 wt% Sylgard 182
XTX-8004	80 wt% RDX/20 wt% Sylgard 182

[a]For transportation only to and from M- and WX-Division Groups and storage by group WX-3.
[b]EDC-8 is the United Kingdom's version of XTX-8003.
[c]EDC-28 is the United Kingdom's version of PBX-9407.
[d]EDC-32 is the United Kingdom's version of LX-04.
[e]For shipping, storage, and experimental evaluation of quantities less than 5 g and for assembly of finished charges into test devices only.
[f]For shipping, storage, and analytical evaluation of molding powder and assembly of finished pieces into test devices.
[g]After approval by the Explosives Development Committee.
[h]For shipping, storage, and experimental evaluations on less than 5-g quantities.

TABLE 3-7

ESTABLISHED EXPLOSIVES AT TA-16
NOMINAL COMPOSITIONS
(CONTINUED)

NAME OR CODE	COMPOSITION
Smokeless Powder (Single Base)	Standard military grades. Single or multi-perforated grains of colloided nitrocellulose. Stabilizers, plasticizers, inorganic nitrates, and other modifying agents may also be present.
Smokeless Powder (Double Base)	Standard military grades. Single or multi-perforated grains of colloided nitrocellulose. Stabilizers, plasticizers, inorganic nitrates, and other modifying agents may also be present.
STRATABLAST C[a]	Slurry blasting explosive
TAGN[h]	Triaminoguanidine nitrate
TAL-1005E[a]	Slurry blasting explosive
TATB	Triaminotrinitrobenzene
Tetryl	2,4,6-Trinitrophenylmethylnitramine
TNS	Trinitrostilbene
TNT	Trinitrotoluene
TNT/NC	80 wt% TNT/20 wt% NC
Tritonal	80 wt% TNT/20 wt% aluminum powder
XTX-8003	80 wt% Recrystallized PETN/20 wt% Sylgard 182
XTX-8004	80 wt% RDX/20 wt% Sylgard 182

[a]For transportation only to and from M- and WX-Division Groups and storage by group WX-3.
[b]EDC-8 is the United Kingdom's version of XTX-8003.
[c]EDC-28 is the United Kingdom's version of PBX-9407.
[d]EDC-32 is the United Kingdom's version of LX-04.
[e]For shipping, storage, and experimental evaluation of quantities less than 5 g and for assembly of finished charges into test devices only.
[f]For shipping, storage, and analytical evaluation of molding powder and assembly of finished pieces into test devices.
[g]After approval by the Explosives Development Committee.
[h]For shipping, storage, and experimental evaluations on less than 5-g quantities.
[i]After approval by the Explosives Development Committee.

LOS ALAMOS NATIONAL LABORATORY

WASTE PROFILE FORM

EM-4 USE ONLY
Reference Number 9424

Complete both sides of this form using a black or blue pen. Incomplete forms will be rejected. Send form to ATTN: WPF, MS K490.

Division/Group	Telephone	Mail Stop	Technical Area	Building	Room
ESA-NMA	7-8393	C930	TA-16	Burn Ground	Burn trays Filter vessels

Method of Characterization

- [x] Knowledge of Process (KOP)
- [ ] MSDS attached (optional)

- OR -

- [x] Chemical/Physical Analysis (specify below)
- [ ] Request for analysis
- [x] Analysis attached

Waste Categories *(Choose one or more of the categories below that most accurately describes your waste.)*

[ ] Flammable	[ ] Pesticide	[ ] Photographic	[ ] Spent coolant	[ ] Plastics
[ ] Combustible	[ ] Beryllium	[ ] Sanitary	[ ] Aerosol cans	[ ] Filter media
[ ] High explosive	[ ] Asbestos	[ ] Radiochemistry	[ ] Motor oil	[ ] Vacuum filter media
[ ] DOT oxidizer	[ ] Solvent	[ ] Paint waste	[ ] Pump oil	[ ] Cement paste
[ ] Pyrophoric	[ ] Waste rags	[ ] Laboratory trash	[ ] Capacitor oil	[ ] Nonsalvageable
[ ] Cyanide	[ ] Glass	[ ] Metallurgic	[ ] UST remediation	[ ] Nonrecyclable
[ ] Heavy metal	[ ] Plating solution	[ ] Sump metal	[ ] Contaminated soils	[ ] Building debris
[ ] Corrosive	[ ] Etchant	[ ] Medical/Biological	[ ] Environmental/SWMU	[ ] Firing site debris

General Description *(Provide a general description of the waste and/or waste-generating process below.)*

Ash from high explosives burning operation. May contain sand. Greater than 100 ppm Barium.

Waste Description *(Check only one box in each column.)*

Form	Ignitability (F)	Corrosivity (pH)	Reactivity	PCBs
[ ] Solid	[ ] < 100°	[ ] ≤ 2.0	[ ] Unstable	[ ] < 50 ppm
[ ] Semisolid/sludge	[ ] 100° to 139°	[ ] 2.1 to 12.4	[ ] Water reactive	[ ] 50 to 500 ppm
[ ] Absorbed liquid	[ ] 140° to 200°	[ ] ≥ 12.5	[ ] Cyanides	[ ] > 500 ppm
[ ] Liquid	[ ] > 200°	[x] Not aqueous	[ ] Sulfides	[x] None
[ ] Gas cylinder or vessel	[x] Not ignitable		[ ] Shock sensitive	
[ ] Multilayered			[ ] Class A or B explosive	
[ ] Suspended solids			[x] Nonreactive	
[x] Powder or ash				

Waste Origination

A. Is this waste generated in a radiation controlled area? [ ] Yes [x] No

B. If yes, is the waste generated or accumulated in a properly defined, registered radioactive material management area (RMMA)? (RMMA # _____) [ ] Yes [ ] No

C. If the answer to question A is yes and you have determined that your waste is nonradioactive, provide justification in the additional comments section on the reverse side of this form.

Radioactivity [x] Nonradioactive

[ ] Suspect [ ] Radioactive

Activity Measure	Radiation Type	
[ ] ≤2.0 nCi/g	[ ] alpha	[ ] gamma
[ ] >2.0 nCi/g	[ ] $t^{1/2}$ < 20 yr	[ ] tritium
[ ] >10.0 nCi/g	[ ] $t^{1/2}$ ≥ 20 yr	
[ ] >100.0 nCi/g	[ ] beta	

WASTE GENERATOR CERTIFICATION: *Based on my knowledge of the waste and/or chemical/physical analysis, I certify that the information on this form is correct. I understand that this information will be made available to regulatory agencies and that there are significant penalties for submitting false information, including the possibility of fines and imprisonment for knowing violations.*

Waste Generator's Name (last, first, middle)	Z Number	Signature	Date
Velarde, Peter N.	074172	[signature]	8/22/94

If your waste management coordinator is the custodian of your waste management documentation, provide the name and mail stop of this person (optional). -->

Name (last, first, middle)	Mail Stop
Sandoval, Cynthia W.	C930

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Complete Reverse Side

Toxic Metals *(Indicate if any of the following toxic metals are present in your waste at the posted concentrations.)*

arsenic	☑ None	☐ <5.0 ppm	☐ ≥5.0 ppm	☐ TCLP	☐ Other _____
barium	☐ None	☐ <100.0 ppm	☑ ≥100.0 ppm	☐ TCLP	☐ Other _____
cadmium	☑ None	☐ <1.0 ppm	☐ ≥1.0 ppm	☐ TCLP	☐ Other _____
chromium	☑ None	☐ <5.0 ppm	☐ ≥5.0 ppm	☐ TCLP	☐ Other _____
lead	☑ None	☐ <5.0 ppm	☐ ≥5.0 ppm	☐ TCLP	☐ Other _____
mercury	☑ None	☐ <0.2 ppm	☐ ≥0.2 ppm	☐ TCLP	☐ Other _____
nickel	☑ None	☐ <134.0 ppm	☐ ≥134.0 ppm	☐ TCLP	☐ Other _____
selenium	☑ None	☐ <1.0 ppm	☐ ≥1.0 ppm	☐ TCLP	☐ Other _____
silver	☑ None	☐ <5.0 ppm	☐ ≥5.0 ppm	☐ TCLP	☐ Other _____
thallium	☑ None	☐ <130.0 ppm	☐ ≥130.0 ppm	☐ TCLP	☐ Other _____

Organic Compounds *(Indicate if any of the following organic compounds are present in your waste at the posted concentrations.)*

benzene	☑ None	☐ <0.5 ppm	☐ ≥0.5 ppm	☐ TCLP	☐ Other _____
carbon tetrachloride	☑ None	☐ <0.5 ppm	☐ ≥0.5 ppm	☐ TCLP	☐ Other _____
chlorobenzene	☑ None	☐ <100.0 ppm	☐ ≥100.0 ppm	☐ TCLP	☐ Other _____
chloroform	☑ None	☐ <6.0 ppm	☐ ≥6.0 ppm	☐ TCLP	☐ Other _____
cresol	☑ None	☐ <200.0 ppm	☐ ≥200.0 ppm	☐ TCLP	☐ Other _____
1,4-dichlorobenzene	☑ None	☐ <7.5 ppm	☐ ≥7.5 ppm	☐ TCLP	☐ Other _____
1,2-dichloroethane	☑ None	☐ <0.5 ppm	☐ ≥0.5 ppm	☐ TCLP	☐ Other _____
1,1-dichloroethylene	☑ None	☐ <0.7 ppm	☐ ≥0.7 ppm	☐ TCLP	☐ Other _____
2,4-dinitrotoluene	☑ None	☐ <0.13 ppm	☐ ≥0.13 ppm	☐ TCLP	☐ Other _____
hexachlorobenzene	☑ None	☐ <0.13 ppm	☐ ≥0.13 ppm	☐ TCLP	☐ Other _____
hexachlorobutadiene	☑ None	☐ <0.5 ppm	☐ ≥0.5 ppm	☐ TCLP	☐ Other _____
hexachloroethane	☑ None	☐ <3.0 ppm	☐ ≥3.0 ppm	☐ TCLP	☐ Other _____
methyl ethyl ketone	☑ None	☐ <200.0 ppm	☐ ≥200.0 ppm	☐ TCLP	☐ Other _____
nitrobenzene	☑ None	☐ <2.0 ppm	☐ ≥2.0 ppm	☐ TCLP	☐ Other _____
pentachlorophenol	☑ None	☐ <100.0 ppm	☐ ≥100.0 ppm	☐ TCLP	☐ Other _____
pyridine	☑ None	☐ <5.0 ppm	☐ ≥5.0 ppm	☐ TCLP	☐ Other _____
tetrachloroethylene/perchloroethylene	☑ None	☐ <0.7 ppm	☐ ≥0.7 ppm	☐ TCLP	☐ Other _____
trichloroethylene	☑ None	☐ <0.5 ppm	☐ ≥0.5 ppm	☐ TCLP	☐ Other _____
2,4,5-trichlorophenol	☑ None	☐ <400.0 ppm	☐ ≥400.0 ppm	☐ TCLP	☐ Other _____
2,4,6-trichlorophenol	☑ None	☐ <2.0 ppm	☐ ≥2.0 ppm	☐ TCLP	☐ Other _____
vinyl chloride	☑ None	☐ <0.2 ppm	☐ ≥0.2 ppm	☐ TCLP	☐ Other _____

Hazardous Constituents *(Identify hazardous constituents for F- and K-listed wastes and substances causing waste to exhibit a characteristic.)*

_____ _____ _____

_____ _____ _____

_____ _____ _____

Additional Comments *(Provide comments regarding the chemical or radiological nature of the waste.)*

_____

_____

_____

_____

Do not write in this box - EM-8 use only

Waste Classification

☐ Non-RCRA waste	☐ RCRA-regulated solid waste	☑ RCRA-regulated hazardous waste	☐ Radioactive waste
☐ PCB ☐ non-PCB TSCA waste ☐ asbestos	☐ municipal refuse ☐ nonhazardous chemical waste ☐ administratively controlled waste ☐ ~~sanitary/industrial sludges~~	☑ hazardous waste ☐ mixed low-level waste ☐ mixed transuranic waste	☐ low-level waste ☐ transuranic waste

RCRA Code 1	RCRA Code 2	RCRA Code 3	RCRA Code 4	RCRA Code 5	RCRA Code 6	RCRA Code 7	RCRA Code 8
D005							

EM-8 Reviewer's Signature	Date	Cost Center/Program Code for Analysis	Reference Number
J Hoyman	8/26/94		9424

LOS ALAMOS NATIONAL LABORATORY

WASTE PROFILE FORM

EM-4 USE ONLY
Reference Number
9425

Complete both sides of this form using a black or blue pen. Incomplete forms will be rejected. Send form to ATTN: WPF, MS K490.

Division/Group	Telephone	Mail Stop	Technical Area	Building	Room
ESA-WMA	7-8393	C930	TA-16	Burn Ground	Burn Trays Filter Vessels

Method of Characterization

- [x] Knowledge of Process (KOP)
- [ ] MSDS attached (optional)

- OR -

- [x] Chemical/Physical Analysis (specify below)
- [ ] Request for analysis
- [x] Analysis attached

Waste Categories *(Choose one or more of the categories below that most accurately describes your waste.)*

[ ] Flammable	[ ] Pesticide	[ ] Photographic	[ ] Spent coolant	[ ] Plastics
[ ] Combustible	[ ] Beryllium	[ ] Sanitary	[ ] Aerosol cans	[ ] Filter media
[ ] High explosive	[ ] Asbestos	[ ] Radiochemistry	[ ] Motor oil	[ ] Vacuum filter media
[ ] DOT oxidizer	[ ] Solvent	[ ] Paint waste	[ ] Pump oil	[ ] Cement paste
[ ] Pyrophoric	[ ] Waste rags	[ ] Laboratory trash	[ ] Capacitor oil	[ ] Nonsalvageable
[ ] Cyanide	[ ] Glass	[ ] Metallurgic	[ ] UST remediation	[ ] Nonrecyclable
[ ] Heavy metal	[ ] Plating solution	[ ] Scrap metal	[ ] Contaminated soils	[ ] Building debris
[ ] Corrosive	[ ] Etchant	[ ] Medical/Biological	[ ] Environmental/SWMU	[ ] Firing site debris

General Description *(Provide a general description of the waste and/or waste-generating process below.)*

Ash from high explosives burning operation. May contain sand. Less than 100 ppm Barium

Waste Description *(Check only one box in each column.)*

Form	Ignitability (F)	Corrosivity (pH)	Reactivity	PCBs
[ ] Solid	[ ] < 100°	[ ] ≤ 2.0	[ ] Unstable	[ ] < 50 ppm
[ ] Semisolid/sludge	[ ] 100° to 139°	[ ] 2.1 to 12.4	[ ] Water reactive	[ ] 50 to 500 ppm
[ ] Absorbed liquid	[ ] 140° to 200°	[ ] ≥ 12.5	[ ] Cyanides	[ ] > 500 ppm
[ ] Liquid	[ ] > 200°	[x] Not aqueous	[ ] Sulfides	[x] None
[ ] Gas cylinder or vessel	[x] Not ignitable		[ ] Shock sensitive	
[ ] Multilayered			[ ] Class A or B explosive	
[ ] Suspended solids			[x] Nonreactive	
[x] Powder or ash				

Waste Origination

A. Is this waste generated in a radiation controlled area? [ ] Yes [x] No

B. If yes, is the waste generated or accumulated in a properly defined, registered radioactive materials management area (RMMA)? (RMMA #_____) [ ] Yes [ ] No

C. If the answer to question A is yes and you have determined that your waste is nonradioactive, provide justification in the additional comments section on the reverse side of this form.

Radioactivity [x] Nonradioactive

[ ] Suspect [ ] Radioactive

Activity Measure	Radiation Type	
[ ] ≤2.0 nCi/g	[ ] alpha	[ ] gamma
[ ] >2.0 nCi/g	[ ] $t^{1/2}$ < 20 yr	[ ] tritium
[ ] >10.0 nCi/g	[ ] $t^{1/2}$ ≥ 20 yr	
[ ] >100.0 nCi/g	[ ] beta	

WASTE GENERATOR CERTIFICATION: *Based on my knowledge of the waste and/or chemical/physical analysis, I certify that the information on this form is correct. I understand that this information will be made available to regulatory agencies and that there are significant penalties for submitting false information, including the possibility of fines and imprisonment for knowing violations.*

Waste Generator's Name (last, first, middle)	Z Number	Signature	Date
Velarde, Peter N.	074172	[signature]	8/22/94

If your waste management coordinator is the custodian of your waste management documentation, provide the name and mail stop of this person (optional). -->	Name (last, first, middle)	Mail Stop
	Sandoval, Cynthia W.	C930

Toxic Metals *(Indicate if any of the following toxic metals are present in your waste at the posted concentrations.)*

arsenic	☐ None	☐ <5.0 ppm	☐ ≥5.0 ppm	☐ TCLP	☐ Other _____
barium	☐ None	☑ <100.0 ppm	☐ ≥100.0 ppm	☐ TCLP	☐ Other _____
cadmium	☑ None	☐ <1.0 ppm	☐ ≥1.0 ppm	☐ TCLP	☐ Other _____
chromium	☑ None	☐ <5.0 ppm	☐ ≥5.0 ppm	☐ TCLP	☐ Other _____
lead	☑ None	☐ <5.0 ppm	☐ ≥5.0 ppm	☐ TCLP	☐ Other _____
mercury	☑ None	☐ <0.2 ppm	☐ ≥0.2 ppm	☐ TCLP	☐ Other _____
nickel	☑ None	☐ <134.0 ppm	☐ ≥134.0 ppm	☐ TCLP	☐ Other _____
selenium	☑ None	☐ <1.0 ppm	☐ ≥1.0 ppm	☐ TCLP	☐ Other _____
silver	☑ None	☐ <5.0 ppm	☐ ≥5.0 ppm	☐ TCLP	☐ Other _____
thallium	☑ None	☐ <130.0 ppm	☐ ≥130.0 ppm	☐ TCLP	☐ Other _____

Organic Compounds *(Indicate if any of the following organic compounds are present in your waste at the posted concentrations.)*

benzene	☑ None	☐ <0.5 ppm	☐ ≥0.5 ppm	☐ TCLP	☐ Other _____
carbon tetrachloride	☑ None	☐ <0.5 ppm	☐ ≥0.5 ppm	☐ TCLP	☐ Other _____
chlorobenzene	☑ None	☐ <100.0 ppm	☐ ≥100.0 ppm	☐ TCLP	☐ Other _____
chloroform	☑ None	☐ <6.0 ppm	☐ ≥6.0 ppm	☐ TCLP	☐ Other _____
cresol	☑ None	☐ <200.0 ppm	☐ ≥200.0 ppm	☐ TCLP	☐ Other _____
1,4-dichlorobenzene	☑ None	☐ <7.5 ppm	☐ ≥7.5 ppm	☐ TCLP	☐ Other _____
1,2-dichloroethane	☑ None	☐ <0.5 ppm	☐ ≥0.5 ppm	☐ TCLP	☐ Other _____
1,1-dichloroethylene	☑ None	☐ <0.7 ppm	☐ ≥0.7 ppm	☐ TCLP	☐ Other _____
2,4-dinitrotoluene	☑ None	☐ <0.13 ppm	☐ ≥0.13 ppm	☐ TCLP	☐ Other _____
hexachlorobenzene	☑ None	☐ <0.13 ppm	☐ ≥0.13 ppm	☐ TCLP	☐ Other _____
hexachlorobutadiene	☑ None	☐ <0.5 ppm	☐ ≥0.5 ppm	☐ TCLP	☐ Other _____
hexachloroethane	☑ None	☐ <3.0 ppm	☐ ≥3.0 ppm	☐ TCLP	☐ Other _____
methyl ethyl ketone	☑ None	☐ <200.0 ppm	☐ ≥200.0 ppm	☐ TCLP	☐ Other _____
nitrobenzene	☑ None	☐ <2.0 ppm	☐ ≥2.0 ppm	☐ TCLP	☐ Other _____
pentachlorophenol	☑ None	☐ <100.0 ppm	☐ ≥100.0 ppm	☐ TCLP	☐ Other _____
pyridine	☑ None	☐ <5.0 ppm	☐ ≥5.0 ppm	☐ TCLP	☐ Other _____
tetrachloroethylene/perchloroethylene	☑ None	☐ <0.7 ppm	☐ ≥0.7 ppm	☐ TCLP	☐ Other _____
trichloroethylene	☑ None	☐ <0.5 ppm	☐ ≥0.5 ppm	☐ TCLP	☐ Other _____
2,4,5-trichlorophenol	☑ None	☐ <400.0 ppm	☐ ≥400.0 ppm	☐ TCLP	☐ Other _____
2,4,6-trichlorophenol	☑ None	☐ <2.0 ppm	☐ ≥2.0 ppm	☐ TCLP	☐ Other _____
vinyl chloride	☑ None	☐ <0.2 ppm	☐ ≥0.2 ppm	☐ TCLP	☐ Other _____

Hazardous Constituents *(Identify hazardous constituents for F- and K-listed wastes and substances causing waste to exhibit a characteristic.)*

_____ _____ _____

_____ _____ _____

_____ _____ _____

Additional Comments *(Provide comments regarding the chemical or radiological nature of the waste.)*

_____

_____

_____

_____

Do not write in this box - EM-8 use only

Waste Classification

☐ Non-RCRA waste	☑ RCRA-regulated solid waste	☐ RCRA-regulated hazardous waste	☐ Radioactive waste
☐ PCB	☐ municipal refuse	☐ hazardous waste	☐ low-level waste
☐ non-PCB TSCA waste	☑ nonhazardous chemical waste	☐ mixed low-level waste	☐ transuranic waste
☐ asbestos	☐ administratively controlled waste	☐ mixed transuranic waste	
	☐ mining/industrial sludges		

RCRA Code 1	RCRA Code 2	RCRA Code 3	RCRA Code 4	RCRA Code 5	RCRA Code 6	RCRA Code 7	RCRA Code 8

EM-8 Reviewer's Signature	Date	Cost Center/Program Code for Analysis	Reference Number
J Clayson	8/26/94		9425

LOS ALAMOS NATIONAL LABORATORY

WASTE PROFILE FORM

QA

EM-6 USE ONLY
Reference Number
07259

Complete both sides of this form using a black or blue pen. Incomplete forms will be rejected. Send form to ATTN: WPF, MS K490.

Division/Group	Telephone	Mail Stop	Technical Area	Building	Room
WX-3 (ESA2)	7-8393	C930	TA-16	Flash pad 387	

Method of Characterization

- [x] Knowledge of Process (KOP)
- [ ] MSDS attached (optional)

- OR -

- [ ] Chemical/Physical Analysis (specify below)
- [ ] Request for analysis
- [ ] Analysis attached

Waste Categories *(Choose one or more of the categories below that most accurately describes your waste.)*

[x] Flammable	[ ] Pesticide	[ ] Photographic	[ ] Spent coolant	[x] Plastics
[x] Combustible	[ ] Beryllium	[ ] Sanitary	[x] Aerosol cans	[ ] Filter media
[x] High explosive (trace)	[ ] Asbestos	[ ] Radiochemistry	[ ] Motor oil	[ ] Vacuum filter media
[ ] DOT oxidizer	[x] Solvent (trace)	[ ] Paint waste	[ ] Pump oil	[ ] Cement paste
[ ] Pyrophoric	[x] Waste rags	[x] Laboratory trash	[ ] Capacitor oil	[x] Nonsalvageable
[ ] Cyanide	[ ] Glass	[x] Metallurgic	[ ] UST remediation	[x] Nonrecyclable
[x] Heavy metal	[ ] Plating solution	[x] Scrap metal	[ ] Contaminated soils	[x] Building debris
[ ] Corrosive	[ ] Etchant	[ ] Medical/Biological	[ ] Environmental/SWMU	[x] Firing site debris

General Description *(Provide a general description of the waste and/or waste-generating process below.)* This waste is flashed at TA-16-387 to remove potential HE contamination and can include: Scrap metal, discarded equipment, glass, plastic, firing site debris, drop tower debris. Non-listed solvent or oil contaminated rags or kimwipes and packing materials that are potentially HE contaminated are used as fuel for the flash fire

Waste Description *(Check only one box in each column.)*

Form	Ignitability (F)	Corrosivity (pH)	Reactivity	PCBs
[x] Solid	[x] < 100°	[ ] ≤ 2.0	[ ] Unstable	[ ] < 50 ppm
[ ] Semisolid/sludge	[ ] 100° to 139°	[ ] 2.1 to 12.4	[ ] Water reactive	[ ] 50 to 500 ppm
[ ] Absorbed liquid	[ ] 140° to 200°	[ ] ≥ 12.5	[ ] Cyanides	[ ] > 500 ppm
[ ] Liquid	[ ] > 200°	[x] Not aqueous	[ ] Sulfides	[x] None
[ ] Gas cylinder or vessel	[x] Not ignitable		[ ] Shock sensitive	
[ ] Multilayered			[ ] Class A or B explosive	
[ ] Suspended solids			[x] Nonreactive	
[ ] Powder or ash				

Waste Origination

A. Is this waste generated in a radiation controlled area? [ ] Yes [x] No

B. If yes, is the waste generated or accumulated in a properly defined, registered radioactive materials management area (RMMA)? (RMMA # _____) [ ] Yes [ ] No

C. If the answer to question A is yes and you have determined that your waste is nonradioactive, provide justification in the additional comments section on the reverse side of this form.

Radioactivity [x] Nonradioactive

[ ] Suspect [ ] Radioactive

Activity Measure	Radiation Type	
[ ] ≤2.0 nCi/g	[ ] alpha	[ ] gamma
[ ] >2.0 nCi/g	[ ] $t^{1/2}$ < 20 yr	[ ] tritium
[ ] >10.0 nCi/g	[ ] $t^{1/2}$ ≥ 20 yr	
[ ] >100.0 nCi/g	[ ] beta	

WASTE GENERATOR CERTIFICATION: *Based on my knowledge of the waste and/or chemical/physical analysis, I certify that the information on this form is correct. I understand that this information will be made available to regulatory agencies and that there are significant penalties for submitting false information, including the possibility of fines and imprisonment for knowing violations.*

Waste Generator's Name (last, first, middle)	Z Number	Signature	Date
Sandoval Cynthia W.	096496	Cynthia W. Sandoval	10-[illegible]-93

If your waste management coordinator is the custodian of your waste management documentation, provide the name and mail stop of this person (optional). -->	Name (last, first, middle)	Mail Stop
	Sandoval, C. W.	C930

Toxic Metals *(Indicate if any of the following toxic metals are present in your waste at the posted concentrations.)*

arsenic	☑ None	18-19 ☐ <5.0 ppm	☐ ≥5.0 ppm	☐ TCLP	☐ Other
barium	☐ None	DS ☒ <100.0 ppm	☐ ≥100.0 ppm	☐ TCLP	☑ Other *
cadmium	☐ None	DS ☒ <1.0 ppm	☐ ≥1.0 ppm	☐ TCLP	☑ Other **
chromium	☐ None	DS ☒ <5.0 ppm	☐ ≥5.0 ppm	☐ TCLP	☑ Other **
lead	☑ None	☐ <5.0 ppm	☐ ≥5.0 ppm	☐ TCLP	☐ Other
mercury	☑ None	☐ <0.2 ppm	☐ ≥0.2 ppm	☐ TCLP	☐ Other
nickel	☑ None	☐ <134.0 ppm	☐ ≥134.0 ppm	☐ TCLP	☐ Other
selenium	☑ None	☐ <1.0 ppm	☐ ≥1.0 ppm	☐ TCLP	☐ Other
silver	☑ None	☐ <5.0 ppm	☐ ≥5.0 ppm	☐ TCLP	☐ Other
thallium	☑ None	☐ <130.0 ppm	☐ ≥130.0 ppm	☐ TCLP	☐ Other

Organic Compounds *(Indicate if any of the following organic compounds are present in your waste at the posted concentrations.)*

benzene	☑ None	☐ <0.5 ppm	☐ ≥0.5 ppm	☐ TCLP	☐ Other
carbon tetrachloride	☑ None	☐ <0.5 ppm	☐ ≥0.5 ppm	☐ TCLP	☐ Other
chlorobenzene	☑ None	☐ <100.0 ppm	☐ ≥100.0 ppm	☐ TCLP	☐ Other
chloroform	☑ None	☐ <6.0 ppm	☐ ≥6.0 ppm	☐ TCLP	☐ Other
cresol	☑ None	☐ <200.0 ppm	☐ ≥200.0 ppm	☐ TCLP	☐ Other
1,4-dichlorobenzene	☑ None	☐ <7.5 ppm	☐ ≥7.5 ppm	☐ TCLP	☐ Other
1,2-dichloroethane	☑ None	☐ <0.5 ppm	☐ ≥0.5 ppm	☐ TCLP	☐ Other
1,1-dichloroethylene	☑ None	☐ <0.7 ppm	☐ ≥0.7 ppm	☐ TCLP	☑ Other *
2,4-dinitrotoluene	☐ None	DS ☑ <0.13 ppm	☐ ≥0.13 ppm	☐ TCLP	☐ Other
hexachlorobenzene	☑ None	☐ <0.13 ppm	☐ ≥0.13 ppm	☐ TCLP	☐ Other
hexachlorobutadiene	☑ None	☐ <0.5 ppm	☐ ≥0.5 ppm	☐ TCLP	☐ Other
hexachloroethane	☑ None	☐ <3.0 ppm	☐ ≥3.0 ppm	☐ TCLP	☐ Other
methyl ethyl ketone	☑ None	☐ <200.0 ppm	☐ ≥200.0 ppm	☐ TCLP	☐ Other
nitrobenzene	☑ None	☐ <2.0 ppm	☐ ≥2.0 ppm	☐ TCLP	☐ Other
pentachlorophenol	☑ None	☐ <100.0 ppm	☐ ≥100.0 ppm	☐ TCLP	☐ Other
pyridine	☑ None	☐ <5.0 ppm	☐ ≥5.0 ppm	☐ TCLP	☐ Other
tetrachloroethylene/perchloroethylene	☑ None	☐ <0.7 ppm	☐ ≥0.7 ppm	☐ TCLP	☐ Other
trichloroethylene	☑ None	☐ <0.5 ppm	☐ ≥0.5 ppm	☐ TCLP	☐ Other
2,4,5-trichlorophenol	☑ None	☐ <400.0 ppm	☐ ≥400.0 ppm	☐ TCLP	☐ Other
2,4,6-trichlorophenol	☑ None	☐ <2.0 ppm	☐ ≥2.0 ppm	☐ TCLP	☐ Other
vinyl chloride	☑ None	☐ <0.2 ppm	☐ ≥0.2 ppm	☐ TCLP	☐ Other

Hazardous Constituents *(Identify hazardous constituents for F- and K-listed wastes and substances causing waste to exhibit a characteristic.)*

trace high explosives

~~turpine type cleaners~~ (~~high~~ flash pt. mineral type solvent) DS 10-19-93

Additional Comments *(Provide comments regarding the chemical or radiological nature of the waste.)*

* Potential trace as a HE constituent.

** Potential trace content as a plating on screws, etc.

The described waste is flashed to remove potential HE contamination then removed for disposal by EM-7 (NFF# 03208) as a non-hazardous waste.

Do not write in this box - EM-8 use only

Waste Classification

☐ Non-RCRA waste	☑ RCRA-regulated solid waste	☐ RCRA-regulated hazardous waste	☐ Radioactive waste
☐ PCB ☐ non-PCB TSCA waste ☐ asbestos	☐ municipal refuse ☑ nonhazardous chemical waste ☑ administratively controlled waste ☐ sanitary/industrial sludges	☐ hazardous waste ☐ mixed low-level waste ☐ mixed transuranic waste	☐ low-level waste ☐ transuranic waste

RCRA Code 1	RCRA Code 2	RCRA Code 3	RCRA Code 4	RCRA Code 5	RCRA Code 6	RCRA Code 7	RCRA Code 8

EM-8 Reviewer's Signature	Date	Cost Center/Program Code for Analysis	Reference Number
Michael DeCash	10/19/93		7259

QA

LOS ALAMOS NATIONAL LABORATORY

WASTE PROFILE FORM

EM-E USE ONLY
Reference Number
C7260

Complete both sides of this form using a black or blue pen. Incomplete forms will be rejected. Send form to ATTN: WPF, MS K490.

Division/Group	Telephone	Mail Stop	Technical Area	Building	Room
WX-3 (ESA-2)	7-8393	C930	TA-16	Burn Pads	388 and 399

Method of Characterization

- [x] *Knowledge of Process* (KOP)
- [ ] MSDS attached (optional)

- OR -

- [ ] *Chemical/Physical Analysis* (specify below)
- [ ] Request for analysis
- [ ] Analysis attached

Waste Categories *(Choose one or more of the categories below that most accurately describes your waste.)*

[x] Flammable	[ ] Pesticide	[ ] Photographic	[ ] Spent coolant	[x] Plastics
[x] Combustible	[ ] Beryllium	[ ] Sanitary	[ ] Aerosol cans	[ ] Filter media
[x] High explosive	[ ] Asbestos	[ ] Radiochemistry	[ ] Motor oil	[ ] Vacuum filter media
[ ] DOT oxidizer	[x] Solvent	[ ] Paint waste	[ ] Pump oil	[ ] Cement paste
[ ] Pyrophoric	[x] Waste rags	[x] Laboratory trash	[ ] Capacitor oil	[x] Nonsalvageable
[ ] Cyanide	[ ] Glass	[ ] Metallurgic	[ ] UST remediation	[x] Nonrecyclable
[ ] Heavy metal	[ ] Plating solution	[ ] Scrap metal	[ ] Contaminated soils	[ ] Building debris
[ ] Corrosive	[ ] Etchant	[ ] Medical/Biological	[ ] Environmental/SWMU	[ ] Firing site debris

General Description *(Provide a general description of the waste and/or waste-generating process below.)*

Potentially HE contaminated, listed solvent contaminated kimwipes, PE and rubber gloves, plastic vials and lids, pipe stem cleaners, and other lab trash.

Waste Description *(Check only one box in each column.)*

Form	Ignitability (F)	Corrosivity (pH)	Reactivity	PCBs
[x] Solid	[ ] < 100°	[ ] ≤ 2.0	[ ] Unstable	[ ] < 50 ppm
[ ] Semisolid/sludge	[ ] 100° to 139°	[ ] 2.1 to 12.4	[ ] Water reactive	[ ] 50 to 500 ppm
[x] Absorbed liquid	[x] 140° to 200°	[ ] ≥ 12.5	[ ] Cyanides	[ ] > 500 ppm
[ ] Liquid	[ ] > 200°	[x] Not aqueous	[ ] Sulfides	[x] None
[ ] Gas cylinder or vessel	[ ] Not ignitable		[ ] Shock sensitive	
[ ] Multilayered			[ ] Class A or B explosive	
[ ] Suspended solids			[x] Nonreactive	
[ ] Powder or ash				

Waste Origination

A. Is this waste generated in a radiation controlled area? [ ] Yes [x] No

B. If yes, is the waste generated or accumulated in a properly defined, registered radioactive materials management area (RMMA)? (RMMA # _____) [ ] Yes [ ] No

C. If the answer to question A is yes and you have determined that your waste is nonradioactive, provide justification in the additional comments section on the reverse side of this form.

Radioactivity [x] Nonradioactive

[ ] Suspect [ ] Radioactive

Activity Measure	Radiation Type	
[ ] ≤2.0 nCi/g	[ ] alpha	[ ] gamma
[ ] >2.0 nCi/g	[ ] $t^{1/2}$ < 20 yr	[ ] tritium
[ ] >10.0 nCi/g	[ ] $t^{1/2}$ ≥ 20 yr	
[ ] >100.0 nCi/g	[ ] beta	

WASTE GENERATOR CERTIFICATION: *Based on my knowledge of the waste and/or chemical/physical analysis, I certify that the information on this form is correct. I understand that this information will be made available to regulatory agencies and that there are significant penalties for submitting false information, including the possibility of fines and imprisonment for knowing violations.*

Waste Generator's Name (last, first, middle)	Z Number	Signature	Date
Sandoval, Cynthia W.	Z096496	Cynthia W. Sandoval	10-8-93

If your waste management coordinator is the custodian of your waste management documentation, provide the name and mail stop of this person (optional). —>	Name (last, first, middle)	Mail Stop
	Sandoval, C. W.	C930

Complete Reverse Side ☞

Toxic Metals (Indicate if any of the following toxic metals are present in your waste at the posted concentrations.)

arsenic	☑ None	☐ <5.0 ppm	☐ ≥5.0 ppm	☐ TCLP	☐ Other
barium	☐ None	☒ <100.0 ppm	☐ ≥100.0 ppm	☐ TCLP	☑ Other *
cadmium	☑ None	☐ <1.0 ppm	☐ ≥1.0 ppm	☐ TCLP	☐ Other
chromium	☑ None	☐ <5.0 ppm	☐ ≥5.0 ppm	☐ TCLP	☐ Other
lead	☑ None	☐ <5.0 ppm	☐ ≥5.0 ppm	☐ TCLP	☐ Other
mercury	☐ None	☐ <0.2 ppm	☐ ≥0.2 ppm	☐ TCLP	☐ Other
nickel	☑ None	☐ <134.0 ppm	☐ ≥134.0 ppm	☐ TCLP	☐ Other
selenium	☑ None	☐ <1.0 ppm	☐ ≥1.0 ppm	☐ TCLP	☐ Other
silver	☑ None	☐ <5.0 ppm	☐ ≥5.0 ppm	☐ TCLP	☐ Other
thallium	☑ None	☐ <130.0 ppm	☐ ≥130.0 ppm	☐ TCLP	☐ Other

Organic Compounds (Indicate if any of the following organic compounds are present in your waste at the posted concentrations.)

benzene	☑ None	☐ <0.5 ppm	☐ ≥0.5 ppm	☐ TCLP	☐ Other
carbon tetrachloride	☑ None	☐ <0.5 ppm	☐ ≥0.5 ppm	☐ TCLP	☐ Other
chlorobenzene	☑ None	☐ <100.0 ppm	☐ ≥100.0 ppm	☐ TCLP	☐ Other
chloroform	☐ None	☒ <6.0 ppm	☐ ≥6.0 ppm	☐ TCLP	☐ Other
cresol	☑ None	☐ <200.0 ppm	☐ ≥200.0 ppm	☐ TCLP	☑ Other **
1,4-dichlorobenzene	☑ None	☐ <7.5 ppm	☐ ≥7.5 ppm	☐ TCLP	☐ Other
1,2-dichloroethane	☑ None	☐ <0.5 ppm	☐ ≥0.5 ppm	☐ TCLP	☐ Other
1,1-dichloroethylene	☑ None	☐ <0.7 ppm	☐ ≥0.7 ppm	☐ TCLP	☐ Other
2,4-dinitrotoluene	☐ None	☒ <0.13 ppm	☐ ≥0.13 ppm	☐ TCLP	☐ Other
hexachlorobenzene	☑ None	☐ <0.13 ppm	☐ ≥0.13 ppm	☐ TCLP	☑ Other
hexachlorobutadiene	☑ None	☐ <0.5 ppm	☐ ≥0.5 ppm	☐ TCLP	☐ Other *
hexachloroethane	☑ None	☐ <3.0 ppm	☐ ≥3.0 ppm	☐ TCLP	☐ Other
methyl ethyl ketone	☐ None	☒ <200.0 ppm	☐ ≥200.0 ppm	☐ TCLP	☐ Other
nitrobenzene	☑ None	☐ <2.0 ppm	☐ ≥2.0 ppm	☐ TCLP	☑ Other
pentachlorophenol	☑ None	☐ <100.0 ppm	☐ ≥100.0 ppm	☐ TCLP	☐ Other **
pyridine	☑ None	☐ <5.0 ppm	☐ ≥5.0 ppm	☐ TCLP	☐ Other
tetrachloroethylene/perchloroethylene	☐ None	☒ <0.7 ppm	☐ ≥0.7 ppm	☐ TCLP	☐ Other
trichloroethylene	☐ None	☒ <0.5 ppm	☐ ≥0.5 ppm	☐ TCLP	☐ Other
2,4,5-trichlorophenol	☑ None	☐ <400.0 ppm	☐ ≥400.0 ppm	☐ TCLP	☑ Other **
2,4,6-trichlorophenol	☑ None	☐ <2.0 ppm	☐ ≥2.0 ppm	☐ TCLP	☑ Other **
vinyl chloride	☑ None	☐ <0.2 ppm	☐ ≥0.2 ppm	☐ TCLP	☐ Other
					☐ Other
					☐ Other

Hazardous Constituents (Identify hazardous constituents for F- and K-listed wastes and substances causing waste to exhibit a characteristic)

trace high explosives acetone, toluene, methanol, acetonitrile, tetrahydr
the following solvents as potential methylene chloride, heptane,
trace on kimwipe and lab trash: isobutyl alcohol ethyl propionate

Additional Comments (Provide comments regarding the chemical or radiological nature of the waste.)

* potential trace content as an HE constituent.
** potential trace contamination on kimwipes or lab trash

Do not write in this box - EM-6 use only

Waste Classification

☐ Non-RCRA waste	☐ RCRA-regulated solid waste	☑ RCRA-regulated hazardous waste	☐ Radioactive waste
☐ PCB ☐ non-PCB TSCA waste ☐ asbestos	☐ municipal refuse ☐ nonhazardous chemical waste ☐ administratively controlled waste ☐ sanitary/industrial sludges	☑ hazardous waste ☐ mixed low-level waste ☐ mixed transuranic waste	☐ low-level waste ☐ transuranic waste

RCRA Code 1	RCRA Code 2	RCRA Code 3	RCRA Code 4	RCRA Code 5	RCRA Code 6	RCRA Code 7	RCRA Code 8
F005	F002						

EM-6 Reviewer's Signature	Date	Cost Center/Program Code for Analysis	Reference Number
Michelle Cash	10/19/93		7-26 C

out going

LOS ALAMOS NATIONAL LABORATORY

WASTE PROFILE FORM

EM-6 USE ONLY
Reference Number 5180

Complete both sides of this form using a black or blue pen. Incomplete forms will be rejected. Send form to ATTN: WPF, MS K490.

Division/Group	Telephone	Mail Stop	Technical Area	Building	Room
ESA-2	7-8393	C930	TA-16	Burn Ground	Flash Pad 387

Method of Characterization
- [x] Knowledge of Process (KOP)
- [ ] MSDS attached (optional)

- OR -

- [ ] Chemical/Physical Analysis (specify below)
- [ ] Request for analysis
- [ ] Analysis attached

Waste Categories *(Choose one or more of the categories below that most accurately describes your waste.)*

[ ] Flammable	[ ] Pesticide	[ ] Photographic	[ ] Spent coolant	[ ] Plastics
[ ] Combustible	[ ] Beryllium	[ ] Sanitary	[ ] Aerosol cans	[ ] Filter media
[ ] High explosive	[ ] Asbestos	[ ] Radiochemistry	[ ] Motor oil	[ ] Vacuum filter media
[ ] DOT oxidizer	[ ] Solvent	[ ] Paint waste	[ ] Pump oil	[ ] Cement paste
[ ] Pyrophoric	[ ] Waste rags	[ ] Laboratory trash	[ ] Capacitor oil	[x] Nonsalvageable
[ ] Cyanide	[x] Glass	[ ] Metallurgic	[ ] UST remediation	[x] Nonrecyclable
[ ] Heavy metal	[ ] Plating solution	[x] Scrap metal	[ ] Contaminated soils	[x] Building debris
[ ] Corrosive	[ ] Etchant	[ ] Medical/Biological	[ ] Environmental/SWMU	[x] Firing site debris

General Description *(Provide a general description of the waste and/or waste-generating process below.)*

Administratively controlled waste from a HE processing area that has been flashed for health & safety reasons; can include scrap metal, discarded equipment, glass, firing site debris, drop tower debris, ash & gravel

Waste Description *(Check only one box in each column.)*

Form	Ignitability (F)	Corrosivity (pH)	Reactivity	PCBs
[x] Solid	[ ] < 100°	[ ] ≤ 2.0	[ ] Unstable	[ ] < 50 ppm
[ ] Semisolid/sludge	[ ] 100° to 139°	[ ] 2.1 to 12.4	[ ] Water reactive	[ ] 50 to 500 ppm
[ ] Absorbed liquid	[ ] 140° to 200°	[ ] ≥ 12.5	[ ] Cyanides	[ ] > 500 ppm
[ ] Liquid	[ ] > 200°	[x] Not aqueous	[ ] Sulfides	[x] None
[ ] Gas cylinder or vessel	[x] Not ignitable		[ ] Shock sensitive	
[ ] Multilayered			[ ] Class A or B explosive	
[ ] Suspended solids			[x] Nonreactive	
[ ] Powder or ash				

Waste Origination

A. Is this waste generated in a radiation controlled area? [ ] Yes [x] No

B. If yes, is the waste generated or accumulated in a properly defined, registered radioactive materials management area (RMMA)? (RMMA # _____) [ ] Yes [ ] No

C. If the answer to question A is yes and you have determined that your waste is nonradioactive, provide justification in the additional comments section on the reverse side of this form.

Radioactivity [x] Nonradioactive

[ ] Suspect [ ] Radioactive

Activity Measure	Radiation Type	
[ ] ≤2.0 nCi/g	[ ] alpha	[ ] gamma
[ ] >2.0 nCi/g	[ ] $t^{1/2}$ < 20 yr	[ ] tritium
[ ] >10.0 nCi/g	[ ] $t^{1/2}$ ≥ 20 yr	
[ ] >100.0 nCi/g	[ ] beta	

WASTE GENERATOR CERTIFICATION: *Based on my knowledge of the waste and/or chemical/physical analysis, I certify that the information on this form is correct. I understand that this information will be made available to regulatory agencies and that there are significant penalties for submitting false information, including the possibility of fines and imprisonment for knowing violations.*

Waste Generator's Name (last, first, middle)	Z Number	Signature	Date
Sandoval, Cynthia W	96496	Cynthia W Sandoval	3-21-94

If your waste management coordinator is the custodian of your waste management documentation, provide the name and mail stop of this person (optional). —>	Name (last, first, middle)	Mail Stop
	Sandoval, Cynthia W.	C930

RECEIVED MAR 22 1994

Toxic Metals *(Indicate if any of the following toxic metals are present in your waste at the posted concentrations.)*

arsenic	☒ None	☐ <5.0 ppm	☐ ≥5.0 ppm	☐ TCLP	☐ Other
barium	☒ None	☑ <100.0 ppm	☐ ≥100.0 ppm	☐ TCLP	☐ Other
cadmium	☒ None	☑ <1.0 ppm	☐ ≥1.0 ppm	☐ TCLP	☒ Other *
chromium	☒ None	☑ <5.0 ppm	☐ ≥5.0 ppm	☐ TCLP	☒ Other *
lead	☒ None	☐ <5.0 ppm	☐ ≥5.0 ppm	☐ TCLP	☐ Other
mercury	☒ None	☐ <0.2 ppm	☐ ≥0.2 ppm	☐ TCLP	☐ Other
nickel	☒ None	☐ <134.0 ppm	☐ ≥134.0 ppm	☐ TCLP	☐ Other
selenium	☒ None	☐ <1.0 ppm	☐ ≥1.0 ppm	☐ TCLP	☐ Other
silver	☒ None	☐ <5.0 ppm	☐ ≥5.0 ppm	☐ TCLP	☐ Other
thallium	☒ None	☐ <130.0 ppm	☐ ≥130.0 ppm	☐ TCLP	☐ Other

Organic Compounds *(Indicate if any of the following organic compounds are present in your waste at the posted concentrations.)*

benzene	☒ None	☐ <0.5 ppm	☐ ≥0.5 ppm	☐ TCLP	☐ Other
carbon tetrachloride	☒ None	☐ <0.5 ppm	☐ ≥0.5 ppm	☐ TCLP	☐ Other
chlorobenzene	☒ None	☐ <100.0 ppm	☐ ≥100.0 ppm	☐ TCLP	☐ Other
chloroform	☒ None	☐ <6.0 ppm	☐ ≥6.0 ppm	☐ TCLP	☐ Other
cresol	☒ None	☐ <200.0 ppm	☐ ≥200.0 ppm	☐ TCLP	☐ Other
1,4-dichlorobenzene	☒ None	☐ <7.5 ppm	☐ ≥7.5 ppm	☐ TCLP	☐ Other
1,2-dichloroethane	☒ None	☐ <0.5 ppm	☐ ≥0.5 ppm	☐ TCLP	☐ Other
1,1-dichloroethylene	☒ None	☐ <0.7 ppm	☐ ≥0.7 ppm	☐ TCLP	☐ Other
2,4-dinitrotoluene	☒ None	☐ <0.13 ppm	☐ ≥0.13 ppm	☐ TCLP	☐ Other
hexachlorobenzene	☒ None	☐ <0.13 ppm	☐ ≥0.13 ppm	☐ TCLP	☐ Other
hexachlorobutadiene	☒ None	☐ <0.5 ppm	☐ ≥0.5 ppm	☐ TCLP	☐ Other
hexachloroethane	☒ None	☐ <3.0 ppm	☐ ≥3.0 ppm	☐ TCLP	☐ Other
methyl ethyl ketone	☒ None	☐ <200.0 ppm	☐ ≥200.0 ppm	☐ TCLP	☐ Other
nitrobenzene	☒ None	☐ <2.0 ppm	☐ ≥2.0 ppm	☐ TCLP	☐ Other
pentachlorophenol	☒ None	☐ <100.0 ppm	☐ ≥100.0 ppm	☐ TCLP	☐ Other
pyridine	☒ None	☐ <5.0 ppm	☐ ≥5.0 ppm	☐ TCLP	☐ Other
tetrachloroethylene/perchloroethylene	☒ None	☐ <0.7 ppm	☐ ≥0.7 ppm	☐ TCLP	☐ Other
trichloroethylene	☒ None	☐ <0.5 ppm	☐ ≥0.5 ppm	☐ TCLP	☐ Other
2,4,5-trichlorophenol	☒ None	☐ <400.0 ppm	☐ ≥400.0 ppm	☐ TCLP	☐ Other
2,4,6-trichlorophenol	☒ None	☐ <2.0 ppm	☐ ≥2.0 ppm	☐ TCLP	☐ Other
vinyl chloride	☒ None	☐ <0.2 ppm	☐ ≥0.2 ppm	☐ TCLP	☐ Other

Hazardous Constituents *(Identify hazardous constituents for F- and K-listed wastes and substances causing waste to exhibit a characteristic.)*

Additional Comments *(Provide comments regarding the chemical or radiological nature of the waste.)*

* Potential trace content as a plating on screws, etc.
Per conversation w/generator - metals changed 3/23/94 MC
This waste profile will replace WPF # 03208.

Do not write in this box - EM-8 use only

Waste Classification

☐ Non-RCRA waste	☑ RCRA-regulated solid waste	☐ RCRA-regulated hazardous waste	☐ Radioactive waste
☐ PCB ☐ non-PCB TSCA waste ☐ asbestos	☐ municipal refuse ☐ nonhazardous chemical waste ☑ administratively controlled waste ☐ sanitary/industrial sludges	☐ hazardous waste ☐ mixed low-level waste ☐ mixed transuranic waste	☐ low-level waste ☐ transuranic waste

RCRA Code 1	RCRA Code 2	RCRA Code 3	RCRA Code 4	RCRA Code 5	RCRA Code 6	RCRA Code 7	RCRA Code 8

EM-8 Reviewer's Signature	Date	Cost Center/Program Code for Analysis	Reference Number
Michelle Cash	3/23/94		8180

LOS ALAMOS NATIONAL LABORATORY

WASTE PROFILE FORM

EM-8 USE ONLY
Reference Number 9835

Complete both sides of this form using a black or blue pen. Incomplete forms will be rejected. Send form to ATTN: WPF, MS K490.

Division/Group	Telephone	Mail Stop	Technical Area	Building	Room
DX-16	667-4325	C-920	9	37	

Method of Characterization
- [x] Knowledge of Process (KOP)
- [ ] MSDS attached (optional)
- -OR-
- [ ] Chemical/Physical Analysis (specify below)
- [ ] Request for analysis
- [ ] Analysis attached

Waste Categories *(Choose one or more of the categories below that most accurately describes your waste.)*

[ ] Flammable	[ ] Pesticide	[ ] Photographic	[ ] Spent sealant	[ ] Plastics
[ ] Combustible	[ ] Beryllium	[ ] Sanitary	[ ] Aerosol cans	[ ] Filter media
[x] High explosive	[ ] Asbestos	[ ] Radiochemistry	[ ] Motor oil	[ ] Vacuum filter media
[ ] DOT oxidizer	[ ] Solvent	[ ] Paint waste	[ ] Pump oil	[ ] Cement paste
[ ] Pyrophoric	[ ] Waste rags	[ ] Laboratory trash	[ ] Capacitor oil	[x] Nonsalvageable
[ ] Cyanide	[ ] Glass	[ ] Metallurgic	[ ] UST remediation	[ ] Nonrecyclable
[ ] Heavy metal	[ ] Plating solution	[ ] Scrap metal	[ ] Contaminated soils	[ ] Building debris
[ ] Corrosive	[ ] Etchant	[ ] Medical/Biological	[ ] Environmental/SWMU	[ ] Firing site debris

General Description *(Provide a general description of the waste and/or waste-generating process below.)*

High Explosive contaminated equipment

Waste Description *(Check only one box in each column.)*

Form	Ignitability (F)	Corrosivity (pH)	Reactivity	PCBs
[x] Solid	[ ] < 100°	[ ] ≤ 2.0	[ ] Unstable	[ ] < 50 ppm
[ ] Semisolid/sludge	[ ] 100° to 139°	[ ] 2.1 to 12.4	[ ] Water reactive	[ ] 50 to 500 ppm
[ ] Absorbed liquid	[ ] 140° to 200°	[ ] ≥ 12.5	[ ] Cyanides	[ ] > 500 ppm
[ ] Liquid	[ ] > 200°	[x] Not aqueous	[ ] Sulfides	[x] None
[ ] Gas cylinder or vessel	[x] Not ignitable		[ ] Shock sensitive	
[ ] Multilayered			[ ] Class A or B explosive	
[ ] Suspended solids			[x] Nonreactive	
[ ] Powder or ash				

Waste Origination

A. Is this waste generated in a radiation controlled area? [ ] Yes [x] No

B. If yes, is the waste generated/accumulated in a properly defined, registered radioactive materials management area (RMMA)? (RMMA # _____) [ ] Yes [x] No

C. If the answer to question A is yes and you have determined that your waste is nonradioactive, provide justification in the additional comments section on the reverse side of this form.

Radioactivity [x] Nonradioactive
[ ] Suspect [ ] Radioactive

Activity Measure	Radiation Type	
[ ] ≤2.0 nCi/g	[ ] alpha	[ ] gamma
[ ] >2.0 nCi/g	[ ] $t^{1/2}$ < 30 yr	[ ] tritium
[ ] >10.0 nCi/g	[ ] $t^{1/2}$ ≥ 30 yr	
[ ] >100.0 nCi/g	[ ] beta	

WASTE GENERATOR CERTIFICATION: *Based on my knowledge of the waste and/or chemical/physical analysis, I certify that the information on this form is correct. I understand that this information will be made available to regulatory agencies and that there are significant penalties for submitting false information, including the possibility of fines and imprisonment for knowing violations.*

Waste Generator's Name (last, first, middle)	Z Number	Signature	Date
Jio, Gordon	093700	Gordon Jio	10/18/94

If your waste management coordinator is the custodian of your waste management documentation, provide the name and mail stop of this person (optional). —>	Name (last, first, middle)	Mail Stop
	Jio, Gordon	C-920

Form 1346 (9/92) RECEIVED OCT 18 1994

Complete Reverse Side ☞

Toxic Metals *(Indicate if any of the following toxic metals are present in your waste at the posted concentrations.)*

arsenic	☐ None	☐ <5.0 ppm	☐ ≥5.0 ppm	☐ TCLP	☐ Other
barium	☐ None	☐ <100.0 ppm	☐ ≥100.0 ppm	☐ TCLP	☐ Other
cadmium	☐ None	☐ <1.0 ppm	☐ ≥1.0 ppm	☐ TCLP	☐ Other
chromium	☐ None	☐ <5.0 ppm	☐ ≥5.0 ppm	☐ TCLP	☐ Other
lead	☐ None	☐ <5.0 ppm	☐ ≥5.0 ppm	☐ TCLP	☐ Other
mercury	☐ None	☐ <0.2 ppm	☐ ≥0.2 ppm	☐ TCLP	☐ Other
nickel	☐ None	☐ <134.0 ppm	☐ ≥134.0 ppm	☐ TCLP	☐ Other
selenium	☐ None	☐ <1.0 ppm	☐ ≥1.0 ppm	☐ TCLP	☐ Other
silver	☐ None	☐ <5.0 ppm	☐ ≥5.0 ppm	☐ TCLP	☐ Other
thallium	☐ None	☐ <130.0 ppm	☐ ≥130.0 ppm	☐ TCLP	☐ Other

Organic Compounds *(Indicate if any of the following organic compounds are present in your waste at the posted concentrations.)*

benzene	☐ None	☐ <0.5 ppm	☐ ≥0.5 ppm	☐ TCLP	☐ Other
carbon tetrachloride	☐ None	☐ <0.5 ppm	☐ ≥0.5 ppm	☐ TCLP	☐ Other
chlorobenzene	☐ None	☐ <100.0 ppm	☐ ≥100.0 ppm	☐ TCLP	☐ Other
chloroform	☐ None	☐ <6.0 ppm	☐ ≥6.0 ppm	☐ TCLP	☐ Other
cresol	☐ None	☐ <200.0 ppm	☐ ≥200.0 ppm	☐ TCLP	☐ Other
1,4-dichlorobenzene	☐ None	☐ <7.5 ppm	☐ ≥7.5 ppm	☐ TCLP	☐ Other
1,2-dichloroethane	☐ None	☐ <0.5 ppm	☐ ≥0.5 ppm	☐ TCLP	☐ Other
1,1-dichloroethylene	☐ None	☐ <0.7 ppm	☐ ≥0.7 ppm	☐ TCLP	☐ Other
2,4-dinitrotoluene	☐ None	☐ <0.13 ppm	☐ ≥0.13 ppm	☐ TCLP	☐ Other
hexachlorobenzene	☐ None	☐ <0.13 ppm	☐ ≥0.13 ppm	☐ TCLP	☐ Other
hexachlorobutadiene	☐ None	☐ <0.5 ppm	☐ ≥0.5 ppm	☐ TCLP	☐ Other
hexachloroethane	☐ None	☐ <3.0 ppm	☐ ≥3.0 ppm	☐ TCLP	☐ Other
methyl ethyl ketone	☐ None	☐ <200.0 ppm	☐ ≥200.0 ppm	☐ TCLP	☐ Other
nitrobenzene	☐ None	☐ <2.0 ppm	☐ ≥2.0 ppm	☐ TCLP	☐ Other
pentachlorophenol	☐ None	☐ <100.0 ppm	☐ ≥100.0 ppm	☐ TCLP	☐ Other
pyridine	☐ None	☐ <5.0 ppm	☐ ≥5.0 ppm	☐ TCLP	☐ Other
tetrachloroethylene/perchloroethylene	☐ None	☐ <0.7 ppm	☐ ≥0.7 ppm	☐ TCLP	☐ Other
trichloroethylene	☐ None	☐ <0.5 ppm	☐ ≥0.5 ppm	☐ TCLP	☐ Other
2,4,5-trichlorophenol	☐ None	☐ <400.0 ppm	☐ ≥400.0 ppm	☐ TCLP	☐ Other
2,4,6-trichlorophenol	☐ None	☐ <2.0 ppm	☐ ≥2.0 ppm	☐ TCLP	☐ Other
vinyl chloride	☐ None	☐ <0.2 ppm	☐ ≥0.2 ppm	☐ TCLP	☐ Other

Hazardous Constituents *(Identify hazardous constituents for F- and K-listed wastes and substances causing waste to exhibit a characteristic.)*

Additional Comments *(Provide comments regarding the chemical or radiological nature of the waste.)*

Class D Explosive per Gordon fax 10/20
trace amounts of HE

Do not write in this box - EM-8 use only

Waste Classification

☐ Non-RCRA waste	☑ RCRA-regulated solid waste	☐ RCRA-regulated hazardous waste	☐ Radioactive waste
☐ PCB ☐ non-PCB TSCA waste ☐ asbestos	☐ municipal refuse ☐ nonhazardous chemical waste ☑ administratively controlled waste ☐ sanitary/industrial sludges	☐ hazardous waste ☐ mixed low-level waste ☐ mixed transuranic waste	☐ low-level waste ☐ transuranic waste

RCRA Code 1	RCRA Code 2	RCRA Code 3	RCRA Code 4	RCRA Code 5	RCRA Code 6	RCRA Code 7	RCRA Code 8

EM-8 Reviewer's Signature	Date	Cost Center/Program Code for Analysis	Reference Number
Michelle Cash	10/19/94		9835

GROUP M-1 ANALYTICAL LABORATORY REPORT

REQUESTER: P. VELARDE
SAMPLE: ASH BARREL #1, BARREL #2
ANALYSIS REQ'D: % BARIUM SULFATE
OPERATOR: W. KING

LAB. No. 21869
P. C. CE-18
DATE REC'D 9-15-93
REPORTED: 10-7-93

SAMPLE	BARIUM SULFATE
BARREL #1	6,000 ppm
BARREL #2	<100 ppm

Picked up 2-3-94

VI. D. (cont.)

If conditions are marginal, he will notify the maintenance agency and request immediate service to clean the roads. HE trucks will not be driven over these roads until they are, in the Disposal Crew Leader's judgment, clear. Tire chains may be used on trucks transporting HE, at the Disposal Crew Leader's discretion.

E. The gate, Structure 349, on the access road will be closed by the burning ground crew before explosives disposal operations begin at the burning ground. When the gate is closed during normal operating hours (8:00 a.m. to 4:30 p.m.), approval for entrance to the burning ground may be obtained by telephoning the Disposal Crew Leader. If for any reason the gate must be closed during non- operating hours (4:30 p.m. to 8:00 a.m.), or on weekends or holidays, the Disposal Crew Leader will notify his Unit Leader. The Unit Leader will notify Security personnel at Station 560 of the gate closing.

F. Scrap metal will not be allowed to accumulate on burning pads, except as allowed for the flashing of unburnable materials (WX-3 SOP 12.3.6). The Disposal Crew Leader will inspect each pad after each burning operation. Remaining scrap-metal will be removed, and when a convenient quantity of scrap has collected, HSE-7 will be notified that the material is ready for burial in a suitable burial site.

* G. Operations will not be conducted at the burning ground during the approach of or an actual electrical storm. Control Shelter 389 is considered a safe area during electrical storms.

H. No more than two persons are to be involved in setting the ignition train and squibs when preparing to make a burn. Other personnel at the burning ground shall be in Control Shelter 389 during this operation. All personnel shall be in Control Shelter 389 when an ignition train is fired. All personnel who are superfluous to the operation shall have been sent out of the area. The number of people exposed to the hazard will be kept to a minimum and within the personnel limits established in the SOP for the specific disposal operation.

I. All personnel in Control Shelter 389 during the burning operation shall remain there until all explosives have been reduced to a

VI. J. (cont.)

1. If it can be determined that explosives are not involved in the fire, the Disposal Crew Leader will immediately send someone to the entrance gate (Structure 349) to admit the Fire Department.

2. If explosives are involved in the fire, all personnel shall remain in Control Shelter 389 until the Disposal Crew Leader has been instructed by the Group Office in regard to the procedure he should follow.

* K. In the case of a detonation during the burning of explosives, the Disposal Crew Leader will immediately notify the Disposal Unit Leader and WX-3 Group Office. All personnel will remain in Control Shelter 389 until the Disposal Crew Leader has been instructed by the Unit Leader or Group Office in regard to the procedure he should follow.

L. Personnel must not step on explosives, and precautions must be taken at all times to prevent spilling or scattering of HE.

M. Blasting caps, electric detonators, and HE units containing electric detonators or MDF arrays will not be destroyed at the burning ground.

N. HE pieces that contain metal or other materials that could produce shrapnel will not be burned at the burning ground.

O. Explosives machining slurry waste will be burned only on the filter beds or in the pressure filters. HE machining waste that is brought to the burning ground in boxes will be disposed of in accordance with WX-3 SOP 12.1.4.

P. Postponement of a Burning Operation

Should an unexpected windstorm or other event prevent the burning of dry scrap HE after it has been spread, the following procedure will be used:

1. The Disposal Unit Leader will be notified that the burn cannot be made.

2. Classified items will be removed from the pit in the follow-

GENERAL RULES FOR DISPOSAL OPERATIONS

I. SCOPE

This SOP contains rules and regulations that apply at all times to all persons involved with Group WX-3 disposal operations. The disposal operations are under the jurisdiction of the Fabrication Section and are supervised by the Stock Preparation and Disposal Unit Leader. The disposal facilities are to be used for the destruction by burning of combustible industrial waste and scrap HE generated in WX-3 operations. Some waste and scrap HE from other Laboratory groups may be disposed of in accordance with WX-3 SOP 12.4.1.

II. LOCATION

A. Burning Pits TA-16-387, 388, and 399

B. Filter Beds TA-16-392 and 394

C. Inert Storage Pit TA-16-386

D. Pressure Filters TA-16-401 and 406

E. Air Heater TA-16-402

F. Control Shelter TA-16-389

G. Gate, Structure TA-16-349

H. WX-3 Incinerator in TA-16 Explosives Area

I. HE settling tanks located at TA-9, TA-11, TA-14, TA-16, TA-22, and TA-40

* J. Experimental Treatment Facility, TA-16-228

III. LIMITS

A. Personnel

1. Nine persons are permitted inside the burning ground area provided that no specific area is in excess of the posted limits.

III. A. (cont.)

2. Specified limits for particular disposal operations are given in the WX-3 SOP that pertains to the operation.

B. Explosives

See WX-3 SOP for particular disposal operation.

IV. ALLOWABLE EXPLOSIVES

* Any explosive material listed in WX-3 SOP 1.1.0, Tables 1 and 2 and any experimental explosives/components listed in active HED's.

V. TRAINING AND SAFETY APPAREL

A. Personnel engaged in explosives disposal activities will be thoroughly trained in regard to the hazards involved in handling, transporting, disposing of explosives, and in the precautions necessary for personal protection. Personnel will be expected to understand the intent of the SOPs and to conduct themselves accordingly.

B. All personnel involved in disposal operations will be instructed in, and are expected to follow, the applicable portions of WX-3 SOP Chapters 1, 12, 13, and 14.

C. Operators who are engaged in disposal operations at the burning ground will wear flameproof coveralls, industrial safety shoes, and appropriate eye protection.

VI. BURNING GROUND GENERAL OPERATING RULES

* A. The Disposal Crew Leader has custody of the blasting machine and squibs. In his absence, this custody may be delegated to his alternate or to the Unit Leader.

B. At the end of any disposal operations, all tools and equipment are to be returned to their proper storage places.

C. No more than two people are permitted to ride in a truck hauling explosives, and both of them must be in the cab.

* D. During winter operations, the Disposal Crew Leader will check the roads, turn outs, and parking areas of the burning ground to make sure their condition is satisfactory for HE trucks. Roads will

3. Unclassified materials will be left in the burning pit. The gate to the burning pit will be closed and padlocked. The gate, Structure 349, will be closed.

4. The Pressing and Disposal Service Manager shall inform the Station 560 Security personnel that security checks cannot be made beyond the gate, Structure 349, until further notice from WX-3.

5. The HE scrap will be burned as soon as weather conditions permit.

Q. All radio transmitters at the burning ground must be turned off when squibs are being handled and may not be turned on until the squibs have been fired or returned to storage.

R. The residual ash that remains after HE burns is to be disposed of the following manner:

* 1. All residual ash known or suspected of being contaminated with barium will be collected and stored in special containers. These containers will be controlled so that no contaminated ash will be held at the burning ground for longer than 90 days.

2. Non-contaminated ashes will be collected and stored in containers designated for that purpose. The ashes will be held at the Burning Ground until a convenient quantity exists, then appropriate HSE-7 personnel will be notified.

* S. Sump fluids either treated (barium processing) or untreated (normal HE processing) will be processed through the pressure filters (TA-16-401 and 406) per SOP 12.1.4. Effluent from the filters is passed through the waste treatment facility (TA-16-228) before exiting to the environment. Operation of the waste treatment facility is convered in SOP 12.2.1.

GENERAL RULES FOR DISPOSAL OPERATIONS

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Page 6, Revision 3

APPROVED M. J. Barr DATE 10-29-87
M. J. Barr, Unit Supervisor

APPROVED R. A. Hildner DATE 10-29-87
R. A. Hildner, Section Leader, WX-3

APPROVED J. L. Parkinson DATE 10/29/87
J. L. Parkinson, Group Leader, WX-3

APPROVED Wm. A. Bradley DATE 11/2/87
W. A. Bradley, Asst. Division Leader, WX

APPROVED NOT REQUIRED DATE
A. M. Valentine, Group Leader, HSE-1

APPROVED Jack L. Bacastow for W. C. C. DATE 1/7/88
W. C. Courtright, Group Leader, HSE-3
RBG 12/23

V. A. (cont.)

1. Waste that is wet with oil, solvents, or water will be absorbed in some medium and placed directly into a cardboard box. A 55 gallon drum containing absorbent may also be used. Waste in cardboard boxes will also be placed into a Dempster Dumpster.

2. The contents of the containers must be clearly identified. Permanent type receptacles, such as Dempster Dumpsters, drums, garbage cans, and disposal cans, will have the contents for which they are intended stenciled on their sides. Cardboard boxes containing potentially HE contaminated waste, other than scrap HE, must have their contents identified on the outside. Identification by a marking pen is sufficient. Boxes containing scrap HE must have an explosives scrap record card (Form WX-3-41) attached to the outside. The card shall be filled out as completely as possible, in regard to the TO number, source, type and approximate weight of the contents. All receptacles containing wastes regulated by the Resource Conservation & Recovery Act (RCRA) must have the words "Hazardous Waste" posted on the outside.

3. If more than one large piece of scrap HE is placed in a box some type of cushioning material such as Kimpak, must be placed between the pieces in such a manner that rubbing or colliding cannot occur while during transportation.

4. Pressed and cast HE scrap will be placed in separate boxes. A reinforcing piece of cardboard shall be placed in the bottom of cardboard boxes containing scrap HE. All cardboard boxes shall be closed and the lid securely taped.

5. Pieces of HE scrap that weigh over 50 pounds shall be placed in a suitably sized HE transportation container that has a lid that can be securely closed.

6. HE scrap with boosters or metal attachments will be labeled and packaged separately from other explosives.

* 7. Hazardous wastes must not be allowed to accumulate at each generation site in quantities greater than will fill a 55 gallom drum. This quantity translates into an 800 lb maximum at any generation or satellite storage area. Should this level be exceeded the 90 day maximum storage limit will apply starting on the day the limit was exceeded.

8. Paper bags will be used for potentially HE contaminated waste that go to the open burn cage.

PACKAGING AND COLLECTION OF WASTE MATERIAL FOR DISPOSAL

I. SCOPE

* This scope governs the packaging and collection procedures for all waste materials requiring disposal by Group WX-3 personnel. Waste materials originating in other groups will be packaged according to this SOP before being processed by WX-3 disposal personnel. Most waste covered by this SOP is considred a hazardous waste and Resource Conservation and Recovery Act (RCRA) requirements will apply.

II. LOCATION

A. All buildings within the S-Site Administrative and Explosives Areas.

B. Other Laboratory sites requiring disposal services by WX-3 disposal personnel.

III. EQUIPMENT

A. Disposal cans, safety style (SCM-9556)
B. Disposal cans, safety style (LG-663)
C. Disposal cans (SGS-9569)
D. Garbage cans (GS-2495)
E. 55-gallon oil drums
F. Oily waste receptacles (UL-approved)
G. Dempster Dumpsters
H. Cardboard boxes (GS-2513 through GS-2523)
I. Reinforcing cardboard flats (GS-9612 through GS-9615 and GS-2590)

IV. MATERIALS

A. Plastic bags
B. Masking tape
C. Cushioning material
D. Sash cord
E. Paper bags
F. Cardboard boxes

V. GENERAL INSTRUCTIONS

A. Packaging

The following rules apply to the packaging of all HE contaminated waste materials:

*Indicates change

V. (cont.)

C. Material and Containers

1. Potentially contaminated HE trash will be stored in Dempster Dumpsters. The word INCINERATOR will be stenciled on the Dempster Dumpsters used for storage of potentially HE contaminated trash. Trash that is too large to be placed in Dempster Dumpsters will be marked INCINERATOR, and the Senior Technician will be notified. He will arrange for the trash to be transported to the incinerator by disposal personnel. Dumpsters marked INCINERATOR, are for burnable trash only. Non-burnables are not to be placed in them.

2. Scrap Explosives

All scrap HE, except settling tank waste, will be packaged in cardboard boxes or WX-3 transportation containers if they are to be destroyed. HE machining waste that cannot be flushed into the settling tank will be placed in a plastic bag or suitable carboard container and packaged in cardboard boxes.

3. Scrap MDF

All scrap MDF will be kept separate from other HE scrap. Scrap MDF will be packaged in cardboard boxes. Lengths of MDF that are too long to fit may be coiled into a cardboard box will be disposed of at the Burning Ground.

4. Scrap Extrudable Explosives

Bulk extrudable explosives, and experimental plastic test devices containing extrudable explosives, will be kept separate from other HE scrap and packaged in plastic bags before they are placed in cardboard boxes. Test devices will be wrapped with Kimpak to prevent them from coming into contact with each other.

5. HE Contaminated Solvents

* a. Flammable solvents, including toluene, acetone, and alcohol, will be poured into red disposal cans or 55 gallon drums stenciled FLAMMABLE. The cans and drums must be equipped with flame arresters.

* b. Halogenated hydrocarbons, such as trichloroethylene and methylchloroform (chlorothene) will be poured into white disposal cans stenciled NONFLAMMABLE.

* c. Dimethylsulfoxide (DMSO) will be poured into disposal cans stenciled "DMSO only".

V. (cont.)

B. Collection and Transportation

1. The collection crew shall be instructed in, and expected to follow, the applicable portions of WX-3 SOP Chapters 12, 13, and 14.

2. The collection of waste materials and scrap HE from designated pickup points within the S-Site Explosives Area will be scheduled by the disposal personnel on a basis of good housekeeping policy. A periodic inspection of all active pickup points will be made by the disposal personnel to ensure that there is no unsafe or untidy buildup of materials at any waste storage point.

3. Waste materials will be transported to the S-Site burning ground by the disposal personnel. When authorized by the Disposal Unit Leader, other personnel may transport waste material to the burning ground.

4. Burnable trash potentially contaminated with HE may be transported to the WX-3 incinerators by the disposal personnel or by Pan Am personnel. Trash collection from the pickup stations, specified on Form WX-3-40, will be scheduled by Pan Am.

5. The Stock Preparation and Disposal Service Manager will be notified, should an accumulation of trash occur at any pickup station that should be moved before the scheduled pickup date. The Stock Preparation and Disposal Section Supervisor may arrange for WX-3 personnel or Pan Am to make a special pickup.

* 6. Only Administratively controlled or potentially HE contaminated burnable wastes will be transported to the open burn cage for burning.

7. Plastic bags are not permitted in the open (wire cage) incinerator. If a bag is present, its contents should be dumped into the dumpster or a cardboard/paper container and the bag retained by the Disposal Technical Supervisor. Dumpster loads will be periodically monitored to assure compliance.

V. C. (cont.)

8. Waste Oil

Waste oil is any oil that may have become contaminated with HE. It could include Way-lube, vacuum oil or oil pumped from sumps, or collected from drip pans. Waste oil may be stored in 5-gallon cans (SGS-9569) or 55-gallon drums. Waste oil will be disposed of by burning at the Burning Pit.

9. Oily Rags

Each equipment room in the Explosives Area is equipped with an oily waste receptacle. Potentially HE contaminated oily rags will be placed in these receptacles. When the receptacle becomes full, the rags will be placed in the Dempster Dumpster marked INCINERATOR outside the building.

10. HE Contaminated Waste

a. Potentially HE contaminated burnable materials, including rags, paper tissues, and plastic items such as foam liners, will be packaged in cardboard boxes. These boxes will be placed in the Dempster Dumpster marked INCINERATOR outside the building.

b. Unburnable materials (glass, metallic, etc.) will be packaged in cardboard boxes or placed in cans designated for that purpose. The Stock Preparation and Disposal Unit Leader will be notified of items that are too large or heavy for packaging in cardboard boxes.

c. Generally burnable waste collected within buildings having explosives is considered HE contaminated waste. However, each building supervisor is responsible for the proper disposal of waste that is verified free of any explosive. Waste should be placed in paper bags or cardboard boxes whenever possible. Plastic bags are not to be used except for extremely fluid, contaminated waste.

11. Uncontaminated Waste

a. Uncontaminated burnable materials such as wood, plastic, rubber, and paper will be placed in a Dempster Dumpster marked UNCONTAMINATED-BURNABLE. It will be the responsibility of the building supervisor to determine that no HE contaminated materials are placed in the dumpster.

V. C. 5. (cont.)

d. Contaminated solvents, both flammable and nonflammable, will be burned or flashed in accordance with the appropriate section of SOP 12.3.4.

6. Floor Sweepings

a. Potentially HE contaminated dry floor sweepings will be packaged in a cardboard box. Full boxes will be placed in the Dempster Dumpster marked INCINERATOR outside the building at the designed pickup station.

b. Potentially HE contaminated oily or wet floor sweepings will be placed in a suitable paper bag or cardboard box within an oily waste receptacle. When the bags become full, they will be sealed and deposited in the Dempster Dumpster marked INCINERATOR outside the building.

7. Hydraulic Fluids

a. Used hydraulic fluids drained from explosive processing equipment will be stored in disposal cans or 55-gallon drums marked "Hold for Disposal" until the presence or absence of HE in the fluid is determined.

b. Group WX-12 maintenance personnel will identify each container, or group of containers if the material has a common source, with an identifying number, and will record the source, fluid type and date of removal.

c. Representative samples of drained hydraulic fluid from HE processing equipment will be sent to the Group M-1 Analytical Laboratory and analyzed for HE. Fluid containing more than 0.25% of HE will be labeled HE CONTAMINATED FLUID and will be burned at Burning Pit TA-16-394 or the new incinerator. Fluids containing less than 0.25% of HE may also be burned or the material may be disposed of by HSE-7 personnel.

d. Drained hydraulic fluid from non-HE processing equipment will not be sampled for analysis, but will be disposed of by Group HSE-7 after being certified free of HE by an Authorized Certifying Agent.

PACKAGING AND COLLECTION OF WASTE MATERIAL FOR DISPOSAL

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Page 3, Revision 16	Page 7, Revision 11
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APPROVED _____ DATE 8-3-87
M. J. Berr

APPROVED _____ DATE 8-3-87
R. A. Hildner, Assoc. Grp. Leader, WX-3

APPROVED _____ DATE _____
J. L. Parkinson, Group Leader, WX-3

APPROVED _____ DATE 8/5/87
W. A. Bradley, Asst. Division Leader, WX

APPROVED _____ DATE 10/27/87
~~A. M. Valentine, Group Leader, HSE-1~~
R. A. Koenig, Group Leader, HSE-7

APPROVED _____ DATE 11/16/87
W. C. Courtright, Group Leader, HSE-3

V. C. 11. (cont.)

b. Uncontaminated, unburnable materials such as glassware, bottles, and metal cans will be placed in containers designated for that purpose. It will be the responsibility of the building supervisor to determine that no HE contaminated materials are placed in the containers.

c. The special dumpsters and containers listed in V.C.11.a. and b. above may be removed from the exclusion area by HSE-7 agents without certification, since the contents are HE free.

12. HE Contaminated Items for Burial

HE contaminated, noncombustible scrap and equipment, classified and unclassified, that are no longer needed may be buried. The items will be inspected by an Authorized Certifying Agent and if they can be buried, he will certify them for burial. Building TA-16-10 will be considered a storage area. If quantities greater than what can be stored in a 55 gallon drum are accumulated here but are stored less than 90 days the facility must be placed on a daily/weekly inspection schedule. Classified items shall be stored inside Building 10 and unclassified items shall be placed on the dock outside Building 10.

13. Adhesive Residue Waste

All potentially HE contaminated adhesive residues, brushes, and containers that are generated within the S-Site Explosives Area will be placed in paper bags, sealed, and then deposited in a specially marked Dempster Dumpster. HSE-7 should be notified when the dumpster is full.

14. Residual Ashes

The residual ash that remains on a burning pad after a burn will be disposed of as described in WX-3 SOP 12.1.0.

D. Records

1. All pickups of scrap HE will be recorded on Form WX-3-70.

2. All pickups of trash will be recorded on Form WX-3-40.

VI. B. Continued

Waste should be reviewed for lead chunks and large metal parts during the loading operation. Those materials must be removed before burning. Any lead will be kept in Building 390 for HSE-7 disposition. Metal pieces should be removed to the flash pad (387).

C. Incinerator Loading

More than one hopper load (two maximum) may be pushed into the primary chamber depending on the waste composition. The incinerator must be operated in the manual mode for loading if more than one hopper load is to be burned (see EOP 1150). Two hopper loads would normally only be used with very loose, uncompacted trash and only for the first burn of the day. Reloading of the hopper should be done during the cooling cycle after the incinerator cycle is complete.

D. Mode of Operation

The incinerator may be operated in the manual or automatic mode. There is very little time differential between the two. When operating in the manual mode, the operator should remain at the control panel only long enough to assure proper burner operation.

E. Waste Inspection

The transportainer and hopper loading operations allow some opportunity for visual inspection of the waste. This opportunity should be used to look for restricted waste types such as lead chunks. As stated in B above this material should be removed.

F. Ash and Residue Disposition

Residue should be transported to the flashed metal pile (near Pad 387) for HSE-7 disposition. Ash will be placed in drums for HSE-7 disposition.

VII. <u>Documentation</u>

A log should be kept of the number of dumpsters delivered, their source (if possible), any restricted material removed from the waste in general, and the number of burn cycles needed to dispose of a transportainer load. In addition, records should be kept of maintenance activities. The number of burn cycles should be reported to the unit leader at the end of every

VIII. Emergency Procedures

The Spronz incinerator is a commercial design used by small communities, shopping centers, and large stores. The unit is reliable with few operational problems. Operations at Los Alamos TA-16 have revealed two potential problem areas discussed below.

1. Preignition of a hopper load while loading. This situation can occur if flammable material in the waste is overheated by hot ash or brick. The operator in attendance will turn OFF all power to the incinerator, leave the incinerator area, call the WX-3 Disposal Unit Leader as to the nature of the problem.

2. Gas may leak should a propane line/fitting fail during operation. The operator will turn off all power to the incinerator, turn off the main propane valve at tank, and call the WX-3 Disposal Unit Leader.

TA-16-1150 BURN GROUND INCINERATOR OPERATION

I. Scope

This SOP must be followed when operating the Spronz RL-80-P incinerator located at the S-Site (TA-16) burn ground. Group WX-3 EOP 1150 will also apply. This SOP will discuss waste delivery, inspection, loading, and documentation while the EOP will discuss actual incinerator operations.

II. Location

The Spronz RL-80-P incinerator is located at the TA-16 burn ground near Building 390. This installation is identified as TA-16-1150.

III. Limits

A. Personnel Limits

Normal explosive operations require two people at the burn ground. However, due to the nature of the administratively controlled-dumpster trash burned, the incinerator may be safely operated by one person. The maximum number of personnel in the vicinity of the incinerator during operation is five. This number of people would only be present during operational reviews for audits.

B. Explosive Limits

Only trace amounts of explosives are normally associated with this operation (residue on cleaning rags). It would not be practical to establish a limit, as confirmation would be virtually impossible.

IV. Equipment

Ash scraper, gloves, HSE approved face masks and ash pans.

V. Hazards

The Spronz RL-90-P incinerator is constructed and insulated such that an operator is not exposed to any thermal or effluent hazard during normal operations.

V. Continued

Potential hazards do exist in the following areas.

1. Gas leaks - The incinerator is fueled by propane from a nearby tank. Fittings and valves can wear allowing propane to escape. If an operator detects a gaseous odor, maintenance (WX-12) and the unit supervisor should be notified. The incinerator should not be operated until the problem is resolved.

2. Loading Door Closure - The loading door may not close completely if waste residue remains in the opening. Operators should assure proper closure before initiating the burn (applicable to manual operation only).

3. Transportainer Odors - Waste is batch loaded from dumpsters into a storage transportainer. Various garbage type, stale coffee, etc. odors may evolve from the dumped materials. If odors are strong the transportainer lid should be opened during the incinerator loading operation or extended cleaning. An HSE approved full face mask should be worn if an operator enters the transportainer for cleaning or to clear a loading problem and finds the odors offensive.

4. Front End Loader - During incinerator loading the front end loader scoop is elevated to near maximum height. The disposal crew should use extra care to avoid damaging the loading hopper portion of the incinerator. Any damage must be immediately reported to the unit supervisor.

VI. Operations

A. Waste Delivery

Administratively controlled waste is normally delivered in dumpsters to the transportainer located near the incinerator. The transportainer can receive 15 to 20 dumpster loads depending on how full the dumpsters are. It is the responsibility of the burn ground supervisor to assure capacity is not exceeded and that any waste on the ground after loading is picked up.

B. Incinerator Hopper Loading

The incinerator hopper is normally loaded using a front-end loader. Hand loading of scrap from a pickup or truck bed is also permitted. The hopper should not be loaded above the door height.

TA-16-1150 BURN GROUND INCINERATOR OPERATION

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Page 2, Revision 0
Page 3, Revision 0
Page 4, Revision 0
Page 5, Revision 0

SUBMITTED M. J. Barr DATE 12-4-89
M. J. Barr

APPROVED R. A. Hildner DATE 12-4-89
R. A. Hildner, Section Leader, WX-3

APPPROVED J. L. Parkinson DATE 12/6/89
J. L. Parkinson, Group Leader, WX-3

APPROVED Wm. A. Bradley DATE 12/7/89
W. A. Bradley, WX Division Operations

APPROVED J. M. Valentine DATE 1/19/90
A. M. Valentine, Group Leader, HSE-1

APPROVED Jack L. Bassett for H. H. Howard DATE 2/12/90
H. H. Howard, Group Leader, HSE-3
RHG 2/9

LOADING PITS WITH DRY EXPLOSIVE SCRAP

I. LOCATION

Burning Pits TA-16-388 and 399; Control Shelter TA-16-389; and gate, Structure TA-16-349.

II. EQUIPMENT

A. Felt (asphalt-saturated), 15-pound weight

B. Spark-proof knives

III. LIMITS

A. Explosives

1000 pounds per pit

B. Personnel

1. Four at Burning Pits 388 and 399

2. Five at Control Shelter 389

IV. PROCEDURE

A. Granular, Powdered, Pressed, and Cast Explosives

1. When scrap explosives are delivered to the burning ground, the Disposal Crew Leader will designate the burning pit to be used. The truck will be backed into the entrance to the pit for off-loading. The explosives loaded floor trucks or boxes will be unloaded just inside the entrance gates. The truck will then be driven outside the fenced area, parked, and the motor turned off.

2. A check of the burning ground will be made to make sure that all unauthorized personnel leave the burning ground and the gate, Structure 349, is closed.

* 3. The Disposal Crew Leader will determine the exact positioning of the explosives. A sufficient amount of felt will be unrolled and placed on the sand surface of the burn tray at least 10 feet from the explosives that were unloaded from the truck. A container of explosives will be placed on the felt, opened, and emptied. The explosives will not be tumbled out onto the ground or tray by up-ending the container. Each piece of explosive will be handled carefully and placed approximately two inches from the adjacent pieces in a single layer. After the containers have been emptied, they will be placed beside or on top of the explosives for

*INDICATES CHANGE

IV. A. 3. (cont.)

burning, or returned to the truck for transporting away from the burning ground. They may be burned in Pit TA-16-387 at a later date.

* 4. Cast or pressed pieces that weigh more than 55 pounds (25 kilograms) will follow Group WX-3 SOP 12.3.5.

5. After the first container has been emptied, another will be opened and the above steps repeated. This operation will continue without interruption until all the containers have been emptied and their contents spread.

* 6. When granular or powdered explosives are burned, the layer of explosives will not be deeper than three inches on the felt.

* 7. If the scrap material appears to contain anything other than the regular explosives, for example, MDF, detonators, or unidentified materials, it will be placed in one of the containers and set aside until the foreign material or item is properly identified and removed if necessary. If identification cannot be made immediately, the container must be sealed and returned to storage until the foreign material or item can be properly identified and removed if necessary. HE pieces with detonators or squibs attached shall not be burned.

8. After all the containers have been emptied, the empty floor trucks will be loaded on the truck. The truck will be driven to Control Shelter 389, parked, and the motor turned off, or it will be driven away from the burning ground.

9. Burning of the explosives on trays will be done in accordance with WX-3 SOP 12.5.1.

B. Scrap MDF and MDF Test Devices

1. Fifteen pounds of scrap MDF or five scrap MDF test devices may be burned at one time. No other explosives, except flake TNT, may be burned with the MDF. Flake TNT may be added to ensure complete burning. MDF devices containing detonators will not be burned.

* 2. A sufficient amount of felt will be unrolled on the sand surface within the burn tray. A maximum of 25 pounds of flake TNT will be spread on the felt to a depth not exceeding three inches.

IV. B. (cont.)

3. The scrap will be carefully placed on the TNT. Additional TNT (approximately five pounds) may be poured on the MDF or test devices to ensure complete combustion.

* 4. Burning of the explosives on trays will be in accordance with WX-3 SOP 12.5.1.

C. Scrap Extrudable HE

1. Loose pieces of extrudable HE and extrudable HE contained in experimental Extex devices may be burned together. The total amount of extrudable explosives that may be burned at one time is 25 pounds.

* 2. A sufficient amount of felt will be unrolled on the sand surface of the burn trays. A maximum of 85 pounds of flake TNT will be poured over the felt in a uniform depth not to exceed three inches.

* 3. The extrudable scrap will be spread uniformly over the TNT. No other explosives except flake TNT may be burned with extrudable HE.

4. Burning of the explosives on trays will be done in accordance with WX-3 SOP 12.5.1.

D. HE Charges with Booster System

HE charges to which booster systems or MDF arrays are permanently attached will not be disposed of by burning.

E. Burn Frequency

* 1. A minimum of 24 hours must lapse after burning HE before another burn can take place on the same pad. Ashes will be disposed of in accordance with SOP 12.1.0, paragraph VI.R.1 and 2. Ashes from burns must be removed before subsequent burns may be made.

LOADING PITS WITH DRY EXPLOSIVE SCRAP

Page 1, Revision 10
Page 2, Revision 10
Page 3, Revision 12
Page 4, Revision 16

Obsolete: Page 5, Revision 10

APPROVED M. J. Barr DATE 10-28-87
M. J. Barr, Unit Supervisor

APPROVED R. A. Hildner DATE 10-28-87
R. A. Hildner, Section Leader, WX-3

APPROVED J. L. Parkinson DATE 10/29/87
J. L. Parkinson, Group Leader, WX-3

APPROVED Wm. A. Bradley DATE 11/2/87
W. A. Bradley, Asst. Division Leader, WX

APPROVED NOT REQUIRED DATE
A. M. Valentine, Group Leader, HSE-1

APPROVED Jack L. Bacastow for W. C. C. DATE 1/7/88
W. C. Courtright, Group Leader, HSE-3
RHG 12/23

DISPOSAL OF HE CONTAMINATED WASTE BY BURNING

I. SCOPE

A. In compliance with the air quality regulations of the State of New Mexico, uncontaminated waste will not be burned in the open incinerator at S-Site. Uncontaminated waste generated in the S-Site explosives area will be disposed of following the appropriate section of Group WX-3 SOP 12.1.2

* B. Potentially HE contaminated waste, collected as described in WX-3 SOP 12.1.2, may be disposed of by burning in the open incinerator located at the S-Site explosive area. The potentially HE contaminated wasted may be loaded into the incinerator by either Pan Am or WX-3 disposal personnel, however, only WX-3 personnel may burn waste in the incinerator.

II. LOCATION

* WX-3 incinerator is located in the S-Site Explosives Area.

III. EQUIPMENT

A. Incinerator

B. Temporary roadblock

C. Excelsior

D. Safety matches (matches must be kept in a metal can, GS-2499).

E. Kerosene

NOTE: Items C through E, above, must be stored in Building TA-16-77 when they are not being used.

*Indicates change

IV. LIMITS

A. Explosives

Only potentially HE contaminated, burnable waste.

B. Personnel

Five at the incinerator.

V. LOADING THE INCINERATOR

A. The incinerator will not be loaded while the temporary roadblock is in position across the driveway.

B. When a truck has been loaded with potentially HE contaminated waste, it will be driven to the incinerator. The gates on the incinerator will be opened and the truck backed into the unloading position. The brake will be set and a rear wheel blocked.

Dempster Dumpsters will be transported to the incinerator by Pan Am personnel.

C. The waste will be unloaded from the truck into the incinerator. While the material is being unloaded, care must be exercised to assure that every piece of waste goes into the incinerator and that none is allowed to escape and litter the burning area.

D. After the truck or dumpsters are unloaded, the incinerator gate will be closed and the trucks driven from the burning area.

* E. If plastic bags are observed, the contents shall be dumped and the bag given to the Senior Disposal Technician for disposal.

VI. BURNING THE WASTE

A. When the incinerator's contents are ready to be burned, a temporary roadblock will be placed in position across the driveway.

B. The gate on the incinerator will be closed before the burn is started.

C. A train of excelsior, approximately two feet long, will be placed in contact with the waste in the incinerator.

D. Approximately one quart of kerosene will be poured on the train and waste.

VI. (cont.)

E. Items C and D, above, may be omitted if the waste is dry.

F. The train or trash will be lit with a safety match. The matches and unused materials will be returned to Building 77.

G. The temporary roadblock will be removed when there are no smoldering ashes in the incinerator.

H. The incinerator may be reloaded after the temporary roadblock has been removed.

I. Each burn will be recorded on Form WX-3-70.

VII. CLEANING THE INCINERATOR

When it becomes necessary, Group WX-12 will be requested to issue an order requesting Pan Am to remove the ashes from the incinerator. Disposal of the ashes will be in accordance with approved Laboratory procedures.

DISPOSAL OF HE CONTAMINATED WASTE BY BURNING

Page 1, Revision 10
Page 2, Revision 9
Page 3, Revision 9
Page 4, Revision 7
Page 5, Revision 0 - Obsolete

APPROVED _____ DATE 5-20-87
M. J. Barr

APPROVED _____ DATE 5-20-87
R. A. Hildner, Assoc. Grp. Leader, WX-3

APPROVED _____ DATE 5-20-87
J. L. Parkinson, Group Leader, WX-3

APPROVED _____ DATE 5-20-87
for W. A. Bradley, Asst. Division Leader, WX

APPROVED _____ DATE 5/21/87
for A. M. Valentine, Group Leader, HSE-1

APPROVED Jack L. Bacastow for W. C. C. DATE 5/20/87
W. C. Courtright, Group Leader, HSE-3

DISPOSAL OF HE-CONTAMINATED SOLVENTS AND OILS

I. SCOPE

This SOP governs the burning of HE-contaminated solvents and oils at the Group WX-3 burning ground.

II. LOCATION

Burning Pit TA-16-394; TA-16-386; Control Shelter TA-16-389; gate, Structure TA-16-349; and Building TA-16-400.

III. LIMITS

A. Personnel

1. Four at Burning Pit 394
2. Five at Control Shelter 389

B. Explosives

The quantity of HE-contaminated solvents and oils will not exceed 250 gallons in a single burning operation.

IV. EQUIPMENT

A. Burning ground firing circuit (ENG-C-23444)
B. Periscope (13Y-47593 D-1 through D-5)
C. Blasting machine (US Army, 10 cap-capacity) White-Rodgers Electric Company, Type 6901, Number 1
D. Burning ground trays (13Y-102275 D-1)
E. Boom truck
F. Drum hook (SK 7571 C-1)
G. Drum discharge plug, valve, and hose
H. Drum tilt stands
I. Flexible grounding straps
J. Vacuum tank (PN 213459)

V. MATERIALS

A. Squibs (S-94), WX-3 Code Number 225-03, or other similar DuPont S-series squibs
B. Excelsior
C. Kerosene
D. Kindling wood and scrap lumber

*Indicates Change

VI. PROTECTIVE APPAREL

In addition to issued apparel, respirators must be worn when volatile solvents are to be discharged for burning. Face shields or other suitable eye protection are to be worn during those periods when liquid is discharged and during cleanup operations when airborne particles constitute an eye hazard.

VII. MATERIALS HANDLING

Five-gallon cans and other containers that weigh 50 pounds or less may be moved by individual operators. Containers that weigh from 50 to 100 pounds may be moved by two operators provided the load is equally distributed. The 55-gallon drums and containers that weigh more than 100 pounds must be handled by the boom truck equipment.

VIII. AREA CLEARANCES

A. When the Disposal Crew Leader has determined that a burning area has been satisfactorily loaded and is ready to be burned, a check of the burning ground will be made. Personnel that are to remain during the burning operation will assemble in the control shelter. All others will leave the area. An operator will check to make sure that the gate (Structure 349) on the access road is closed. If it is open, he will notify the Disposal Crew Leader and another check of the area will be made before the burning operation continues. If it is closed, the operator will return to the control shelter.

B. All motor vehicles at the burning ground will be parked at Control Shelter 389 and their radios will be turned off.

C. The Disposal Crew Leader will check the radio located in the control shelter and make sure that it is turned off.

IX. PROCEDURE

A. Preparations

1. When HE-contaminated liquids are delivered to the burning ground in five-gallon cans, the truck will be backed into the entrance of Burning Pit 394 and the motor turned off. After the contaminated liquids have been unloaded, the truck will be driven to Control Shelter 389, parked, and the motor turned off, or it will be driven away from the burning ground area.

IX. A.

2. When HE-contaminated liquids are delivered to the burning ground in 55-gallon drums, the truck will be backed into the entrance of Burning Pit 394, and the truck boom will

be used to unload and position the drums on tilt stands on the burning ground pit. After the drums have been unloaded, the truck will be driven at least 50 ft from the pit and the motor turned off.

3. When HE-contaminated liquids are delivered to the burning ground in the vacuum tank (PN 213459) mounted on a truck, the truck will be backed into the entrance of Burning Pit 394. The contaminated liquids will be drained from the tank into the trays by using a discharge hose. The inside of the vacuum tank will be cleaned with water and detergent after draining liquids into the pans.

* 4. After the delivery truck has left the pit, the disposal personnel will begin the disposal operation. For flammable liquids, it will not be necessary to use any wood to assist the burning. For nonflammable liquids, kindling wood or scrap lumber will be placed around the trays. Care will be taken to ensure that the trays are level. The amount of wood to be used will be determined by the type and quantity of HE-contaminated liquids to be burned. Contaminated solvents, if available, may be mixed with moderately flammable oils to promote burning.

5. The HE-contaminated liquids will be poured into the trays from the 5-gallon containers by hand. A grounding strap will be attached to the 5-gallon container and the tray being filled.

6. The HE-contaminated liquids will be discharged into the trays from 55-gallon drums with the plastic plug, valve, and hose provided for this purpose. Grounding straps will be attached to the 55-gallon drum and the trays being filled.

7. The empty containers and discharge equipment will be loaded on the delivery truck and taken to Pit 386.

X. BURNING PROCEDURES

The burning of HE-contaminated liquids will be done in accordance with WX-3 SOP 12.5.1.

XI. CLEANUP

* A. On the first workday after the burning operation, the Disposal Crew Leader will inspect the trays to determine whether all liquid has been burned or flashed and all HE has been burned. If he is not satisfied that the burning is complete, he may repeat the appropriate steps of this SOP and WX-3 SOP 12.5.1 to ensure complete burning of the material. It is permissible

to leave unburned oil in the trays (covered) until additional burnable fluids become available.

B. Equipment used to charge Burning Pit 394 with fluids to be burned will be thoroughly cleaned at Building 400. The equipment may be returned to the burning ground for storage.

C. A record of all HE-contaminated liquid disposal operations will be kept on Form WX-3-70.

DISPOSAL OF HE-CONTAMINATED SOLVENTS AND OILS

Page 1, Revision 8
Page 2, Revision 8
Page 3, Revision 9
Page 4, Revision 5
Page 5, Revision 5

APPROVED M. J. Barr DATE 10-28-87
M. J. Barr, Unit Supervisor

APPROVED R. A. Hildner DATE 10-28-87
R. A. Hildner, Section Leader, WX-3

APPROVED J. L. Parkinson DATE 10/29/87
J. L. Parkinson, Group Leader, WX-3

APPROVED W. A. Bradley DATE 11/2/87
W. A. Bradley, Asst. Division Leader, WX

APPROVED NOT REQUIRED DATE
A. M. Valentine, Group Leader, HSE-1

APPROVED W. C. Courtright DATE 9/27/88
W. C. Courtright, Group Leader, HSE-3
RMG 12/23

FLASHING AND DISPOSAL OF UNBURNABLE MATERIALS

I. LOCATION

Burning Pits TA-16-386 and 387; Control Shelter TA16-389; and gate, Structure TA-16-349

II. EQUIPMENT

A. Burning ground stands (SK-4377 D-1)

B. Wire screen (SK-4377 D-1, Item D)

C. Kindling wood or scrap lumber

D. Kerosene or Excelsior

E. Chain Link Fencing

III. LIMITS

A. Explosives

HE-contaminated unburnable materials

B. Personnel

1. Four at Burning Pit 387

2. Five at Control Shelter 389

IV. PROCEDURE

A. HE-Contaminated Materials

1. Preparation and Inspection

* Materials to be flashed will be inspected for presence of reservoirs of oils, other fluids and excessive deposits of explosives which will be removed. Inspection covers will be removed as appropriate. Suspected materials such as asbestos or other insulating materials will be identified and/or removed in accordance with lab procedures. Any sealed containers should have their valves opened or removed.

*Indicates change

IV. A. (cont.)

2. Receiving and Placing

a. Group WX-3 disposal personnel will deliver explosives-contaminated unburnable materials to the burning ground. Any other personnel involved in the delivery will be supervised by the Disposal Crew Leader. Burning Pit 386 may be used (less than 90 days) to store HE-contaminated unburnable materials until enough have been collected to justify a flashing operation.

b. Kindling wood or scrap lumber will be placed on the bottom grill of the burning ground stands. The total amount of wood to be used will be determined by the type and quantity of materials to be flashed. In all cases, there must be a sufficient quantity of wood to ensure that the flashing will be complete and no significant HE contamination will remain.

c. The Disposal Crew Leader will supervise the unloading of trucks and placing of the materials on the stands. For small items, such as valves, a wire screen will be placed on top of the stands. This will hold the materials above the fire for proper flashing.

* d. If it appears that it would be more convenient to place the materials on the sand for flashing, this is permitted. The Disposal Crew Leader must be sure that the placement of the wood will properly heat all the materials to ensure a satisfactory flashing job. If appropriate, chain link fencing may be placed under the material to be flashed. The fencing may be gripped at the corners to remove loose, flashed materials to the assembly pad.

e. The flashing operation, will be performed in accordance with WX-3 SOP 12.5.1.

3. Disposal

a. On the first workday after the flashing operation (a minimum of 24 hours must lapse), the Disposal Crew Leader will inspect the flashed materials to determine whether they have been completely flashed. If he is not satisfied with the flashing, he will repeat the appropriate steps of this SOP and WX-3 SOP 12.5.1 to ensure complete flashing.

IV. A. 3. (cont.)

b. Completely flashed materials may be stored (no time limit) at the burning grounds until a suitable quantity for disposal exists.

c. When sufficient quantities of flashed materials have accumulated the site certifying agent will inspect them and certify that they are non-RCRA wastes as defined by 40CFR.261 and that they are suitable for burial (Form No. WX-12-2).

d. A record of all flashing operations will be kept on Form WX-3-70.

B. Uncontaminated Materials

1. "Unburnable, Uncontaminated" materials that are sent to the burning ground through the regular trash collection system (see WX-3 SOP 12.1.2) will be examined by disposal personnel to make sure that no HE contamination is present. If there is any indication that HE contamination is present, the materials will be flashed in accordance with the appropriate sections of this SOP. After it has been determined by disposal personnel that no HE contamination is present, the materials may be held with flashed materials without being flashed. A record of all materials that are disposed of without being flashed will be kept on Form WX-3-70.

2. Open fire flashing is very effective in eliminating HE contamination of non-burnable waste. However, Laboratory policy dictates that these wastes remain under institutional control. Therefore, these materials will be disposed of by HSE-7 in a controlled burial site only.

FLASHING AND DISPOSAL OF UNBURNABLE MATERIALS

Page 1, Revision 7
Page 2, Revision 7
Page 3, Revision 8
Page 4, Revision 7

APPROVED M. J. Barr DATE 10-28-87
M. J. Barr, Unit Supervisor

APPROVED R. A. Hildner DATE 10-28-87
R. A. Hildner, Section Leader, WX-3

APPROVED J. L. Parkinson DATE 10/29/87
J. L. Parkinson, Group Leader, WX-3

APPROVED Wm. A. Bradley DATE 11/2/87
W. A. Bradley, Asst. Division Leader, WX

APPROVED NOT REQUIRED DATE
A. M. Valentine, Group Leader, HSE-1

APPROVED Jack L. Bacon for W. C. C. DATE 1/7/88
W. C. Courtright, Group Leader, HSE-3
RHG 12/23

* DISPOSAL OF HE PIECES WEIGHING OVER 25 KILOGRAMS (55 POUNDS)

I. SCOPE

* This SOP governs the disposal by burning of cast or pressed HE pieces that weigh over 25 kilograms each. No HE pieces will be burned that have permanently mounted detonators, MDF arrays, or booster pellets on them. No HE pieces will be burned that contain metals or other materials that could produce shrapnel in the event of a detonation.

II. LOCATION

Burning Pit areas TA-16-388 and 399; Control Shelter TA-16-389; and gate, Structure TA-16-349.

III. LIMITS

A. Explosives

* 1000 pounds per tray, including 100 pounds of flake TNT. No single piece or assembly will exceed 250 pounds.

B. Personnel

1. Four at Burning Pit Areas 388 or 399
2. Five at Control Shelter 389

IV. EQUIPMENT

A. Burning ground firing circuit (ENG-C-23444)
B. Periscope (13Y-101920)
C. Blasting machine (US Army, 10-cap capacity), White-Rodgers Electric Company, Type 6901, Number 1
D. Boom truck
E. HE van
F. Sling (SK-7022 C-1)
G. Floor trucks
H. Group WX-3 HE transportation containers
I. Destruction tray (13Y-47523) with box cover (13Y-47538 C-1) (Lid A)

*Indicates change

V. MATERIALS

A. Squibs (S-94), WX-3 Code Number 225-03 or similar DuPont S-Series squibs
B. Excelsior
C. Kerosene
D. Felt (asphalt saturated), 15-pound weight

VI. PROTECTIVE APPAREL

See WX-3 SOP 12.1.0 V.C

VII. HANDLING

Mechanized and manual handling will be done in accordance with WX-3 SOPs 14.1.1 through 14.1.4.

VIII. AREA CLEARANCE

A check will be made of the burning ground to make sure that all unauthorized personnel leave the burning ground and that the gate, Structure 349, is closed.

IX. PROCEDURE

A. Receiving and Placing

* 1. The HE van may be used to deliver HE pieces weighing up to 100 pounds to the burning pit. The explosives-loaded floor trucks will be off-loaded manually from the van just inside the entrance gates. After floor truck unloading, the floor truck will be loaded on the van. The van will then be driven to Control Shelter 389, parked, and the motor turned off, or it may leave the burning ground area.

* 2. HE pieces that weigh more than 100 pounds will be delivered to the burning pit using the boom or flat bed truck. The truck will be backed into the fenced area of the pit, and the truck boom will be used to set the HE-laden destruction trays on the prepared burn tray or designated area. After placement of the HE, the truck will be driven to Control Shelter 389, parked, and the motor turned off, or it may leave the burning ground area. It is permissible to use a fork lift to remove and place exceptionally large pieces.

* 3. Up to 100 pounds of TNT may be used to form a flame train between HE pieces and to ensure complete burning. The TNT train must not exceed three inches in depth.

IX. A. (cont.)

* 4. The tops of the destruction trays (if used) will be removed before the burn is made.

B. Burning

* 1. An ignition train will then be prepared by placing a wad of excelsior about 15 inches long on the previously placed felt. Excelsior will also be spread over, and in contact with, nearby pieces. Flake TNT will be used to form a flame train leading from the ignition point to all HE pieces in the burn.

2. Burning of the HE will be done in accordance with WX-3 SOP 12.5.1.

C. Cleanup and Disposal

* 1. At least 24 hours must lapse after burning the HE before another burn can take place on the same tray or area. Ashes will be disposed of in accordance with SOP 12.1.0, paragraph VI.R.1 and 2.

* 2. A record of which pit area was used each day will be kept on Form WX-3-70.

DISPOSAL OF HE PIECES WEIGHING OVER 25 KILOGRAMS (55 POUNDS)

Page 1, Revision 8
Page 2, Revision 9
Page 3, Revision 7
Page 4, Revision 8

APPROVED M. J. Barr DATE 9-24-87
M. J. Barr

APPROVED R.A. Hildner DATE 9-27-87
R. A. Hildner, Section Leader, WX-3

APPROVED J. L. Parkinson DATE 9/29/87
J. L. Parkinson, Group Leader, WX-3

APPROVED W. A. Bradley DATE 10/2/87
W. A. Bradley, Asst. Division Leader, WX

APPROVED NOT REQUIRED DATE
A. M. Valentine, Group Leader, HSE-1

APPROVED Jack L. Bacastow for W. C. C. DATE 11/16/87
W. C. Courtright, Group Leader, HSE-3
EHG 11/13

DISPOSAL OF HE CONTAMINATED MATERIALS AND SCRAP HE ORIGINATING IN OTHER LABORATORY GROUPS

I. SCOPE

This SOP governs the disposal by Group WX-3 of HE-contaminated materials and scrap HE originating in other Laboratory groups. This does not include HE settling tank waste, which is covered in WX-3 SOP 12.1.4.

II. FORM WX-3-151

Form WX-3-151 has been designed to take care of the majority of items that may be disposed of at the WX-3 burning ground. The form must be filled out by the requesting group and sent to the WX-3 Disposal Unit Leader before materials may be picked up. WX-3 personnel will pick up all items that may be disposed of at the WX-3 burning ground. The requesting group will be notified of any material that may not be disposed of at the WX-3 burning ground.

III. PACKAGING

The requesting group will be required to package all materials for pickup in accordance with WX-3 SOP 12.1.2. Approved packaging, boxes, and containers are available on request from the WX-3 Transportation and Materials Handling Unit.

IV. INSTRUCTIONS TO DISPOSAL SERVICE MANAGER

There is a space on the form for special instructions to the WX-3 Disposal Service Manager. When the Disposal Unit Leader determines that the material may be disposed of at the WX-3 burning ground, he will write any special instructions needed for disposal in the space provided on the form. The Disposal Service Manager may then have the material picked up. If disposal is not allowed, the Unit Leader will notify the requester.

After the material is disposed of at the WX-3 burning ground, the form will be dated and kept at least six months by the Disposal Service Manager.

*General Revision

DISPOSAL OF HE CONTAMINATED MATERIALS AND SCRAP HE ORIGINATING IN OTHER LABORATORY GROUPS

Page 1, Revision 4
Page 2, Revision 0

SUBMITTED _____ DATE _____
W. M. Mathieson, Assoc. Group Leader, WX-3

APPROVED _____ DATE 3/26/86
J. L. Parkinson, Group Leader, WX-3

APPROVED _____ DATE 3/27/86
W. A. Bradley, Asst. Division Leader, WX

APPROVED NOT REQUIRED DATE _____
A. M. Valentine, Group Leader, HSE-1

APPROVED _____ DATE 5/29/86
W. C. Courtright, Group Leader, HSE-3