LA-UR-91-1660

TA-3

Los Alamos National Laboratory

Environmental Restoration

A Department of Energy environmental clean-up program

EXTENT OF SATURATION IN MORTANDAD CANYON

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document hand delivered May 23, 1991
in magazine file

May 1991

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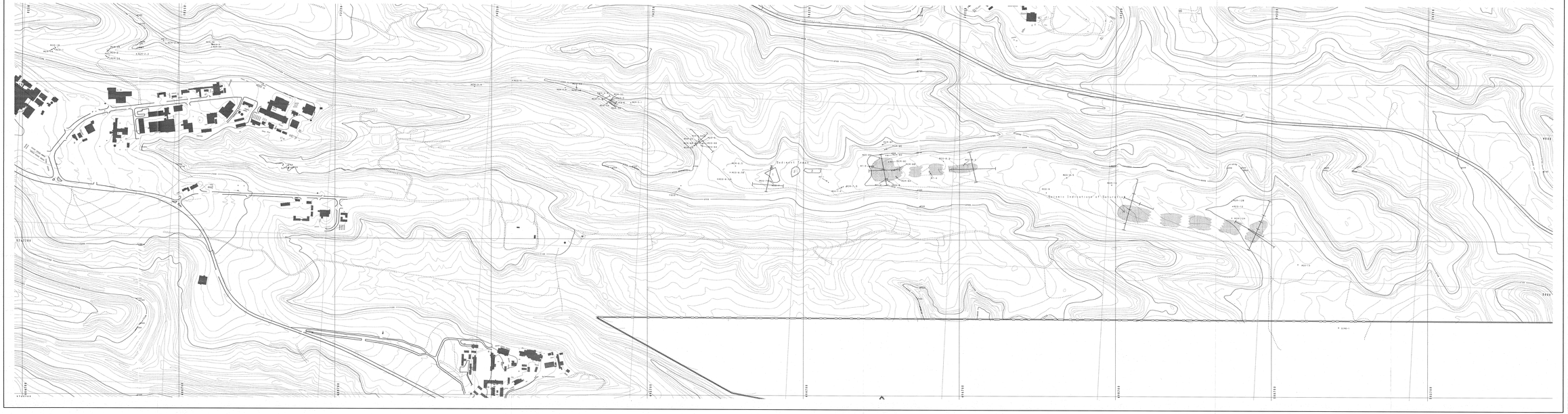
EXTENT OF SATURATION IN MORTANDAD CANYON

SECTION 8 APPENDICES

8.1 through 8.6

8.1 Locations of Studies in Mortandad Canyon



Mortandad Canyon

KEY

- 10 foot Contours
- 100 foot Contours
- Paved Roads
- Dirt Roads
- Parking Lot
- NM State Plane Grid
- LASL Grid
- Material Disposal Area
- LANL Boundary
- Test Holes or Wells

STRUCTURE TYPE

- Permanent Structure
- Temporary Structure
- Underground Structure

275 feet per inch

5398

University of California
Los Alamos National Laboratory
Earth & Environmental Sciences Division
FIMAD Facility for Information Management, Analysis and Display

Produced by: Marcia Jones
Date: 91-05-14

8.2 Previous Studies

8.2.1 Abstracts

Baltz, E.H., Abrahams, J.H., and Purtymun, W.D., 1963,
Preliminary Report on the Geology and Hydrology of Mortandad Canyon near Los Alamos, New Mexico, with Reference to Disposal of Liquid Low-Level Radioactive Waste,
U.S. Geological Survey, Open File.

The U.S. Geological Survey, in cooperation with the U.S. Atomic Energy Commission and the Los Alamos Scientific Laboratory, selected the upper part of Mortandad Canyon near Los Alamos, New Mexico for a site for disposal of treated, liquid, low-level radioactive waste. This report summarizes the part of the study of the geology and hydrology that was done from October 1960 through June 1961. Additional work is being continued.

Mortandad Canyon is a narrow, east-southeast-trending canyon about 91/2 miles long that heads on the central part of the Pajarito Plateau at an altitude of about 7,340 feet. The canyon is tributary to the Rio Grande. The drainage area of the part of Mortandad Canyon that was investigated is about 2 miles, and the total drainage area is about 4.9 sqaure miles.

The Pajarito Plateau is capped by Bandelier Tuff of Pleistocene age. Mortandad Canyon is cut in the Bandelier, and alluvium covers the floor of the canyon to depths ranging from less than 1 foot to as much as 100 feet. The Bandelier is underlain by silt, sand, conglomerate, and interbedded basalt of the Santa Fe Group of Miocene, Pliocene, and Pleistocene age. Some ground water is perched in the alluvium in the canyon; however, the top of the main aquifer is in the Santa Fe Group at a depth of about 990 feet below the canyon floor.

Joints in the Bandelier Tuff probably were caused by shrinkage of the tuff during cooling. The joints range from hairline cracks to fissures several inches wide. Water can infiltrate along the open joints where the Bandelier is at the surface; however, soil, alluvial fill, and autochthonous clay inhibit infiltration on the top of the mesa, and probably in the alluvium-floored canyon, also.

Thirty-three test holes, each less than 100 feet deep, were drilled in 10 lines across Mortandad Canyon from the western margin of the study area to just west of the Los Alamos-Santa Fe County line. Ten of the holes were cased for observation wells to measure water levels and collect samples from the alluvium. Twenty-three of the holes were cased to seal out water and were used to access tubes to accomodate a neutron-neutron probe for determining the moisture content of the alluvium and tuff.

The source of recharge for the perched ground water body in the alluvium in Mortandad Canyon is the precipitation in the drainage area of the canyon. During the winter of 1960-1961, a snowpack 1-2 feet thick accumulated in the narrow shaded upper part of the canyon. The alluvium beneath the snowpack received some recharge because of diurnal melting during the winter. In March 1961 the snowmelt water saturated most of the thin alluvium in the upper part of the canyon, and a surface stream began to flow. The maximum flow of surface stream was about 250 gpm. Water from the stream infiltrated into alluvium at the front of the surface stream and in the reach upstream from the front. A ground water mound was formed beneath the channel by water infiltrating from the stream. The front of the surface stream and the front of the ground water mound advanced eastward, to about the middle of the study area. From this point eastward, the alluvium is thick enough to absorb and transmit the amount of flow in 1961. Late in April the front of the subsurface stream retreated, and by the first of May the surface flow had stopped. During and after this period the ground water mound decayed, and ground water levels dropped in the upper part of the canyon as water

drained into the channel and downgradient through the alluvium.

The amount of recharge was small in the wide lower part of the canyon during the period of the study. The rise in ground water levels and the increase in moisture content of the alluvium in this lower part of the canyon indicate that water moved downgradient by underflow through alluvium from the recharge area in the upper part of the canyon. Moisture measurements indicate that only a little water moved into the underlying Bandelier Tuff from the saturated alluvium in the part of the canyon studied.

Abrahams, J.H., Baltz, E.H., and Purtyman, W.D., 1962,
Movement of Perched Ground Water in Alluvium Near Los Alamos, New Mexico,
U.S. Geological Survey, Prof. Paper, 450-B.

The infiltration and underground movement of snowmelt water in Mortandad Canyon near Los Alamos, New Mexico, were studied March through June 1961. The part of the canyon studied has a drainage area of about 2 square miles and heads at an altitude of about 7,350 feet on the central part of the plateau, where the annual precipitation is about 17.5 inches.

The Bandelier Tuff of Pleistocene age caps the Pajarito Plateau and rests on the Santa Fe Group of middle Miocene to Pleistocene age. The principal ground water body is in the Santa Fe Group about 960 ft beneath the canyon floor. However, a small body of perched ground water, which was the subject of investigation, occcurs in alluvium resting on the Bandelier in the bottom of Mortandad Canyon.

The water in the alluvium was monitored by means of holes drilled in seven lines across Mortandad Canyon. Water levels were measured in observation wells and moisture content of the alluvium and underlying tuff was determined.

Results of the study revealed the building of a ground water mound during infiltration. Ground water moved at different rates due to the composition of the soil profile. This phenomenon probably occurs elsewhere and should be considered in other infiltration investigations, especially in the interpretation of rate of water movement, use of tracers, and studies of chemical quality of water.

Polzer, W.L., and Essington, E.H., 1983,
Mobility of Waste Actinides in the Shallow Aquifer of Mortandad Canyon, Los Alamos, New Mexico,
Upublished, Rough Draft.

Treated waste effluents are released to the shallow aquifer of Mortandad Canyon at the Los Alamos National Laboratory. About 1% of the released actinides remains in solution (<0.45 um in diameter). An investigation of the relatiive mobilities of those plutonium and americum species indicate similar mobilities in the upper reaches of the canyon, but considerably different mobilities in the lower reaches; americium being more mobile than plutonium. The sorption of the of the actinides to the sediments in Mortandad Canyon tends to be less than that observed for many other environmental systems; however sorption is still substantial. The lower sorption is attributed to the characteristics of both the aquifer water and the canyon sediments.

The mobile plutonium is predominantly associated with inorganic colloidal material. Both the plutonium and the colloidal material posses neutral charge characteristics. On the other hand, the mobile americium appears to be associated with a low molecular weight complex and with colloidal material. The colloidal material probably predominates in the upper reaches of the canyon and the low molecular weight complex probably predominates in the lower reaches of the canyon. The charge characteristics of americium are predominatly neutral, but a significant factor of the charge is negative in the lower reaches of the canyon. Both the plutonium and americium appear to equilibrate rather slowly with their aqueous environment.

Purtymun, W.D., 1964,
Progress Report on the Hydrology of Mortandad Canyon, Disposal System for Treated Low-level Liquid Radioactive Wastes; July 1961 to June 1963,
U.S. Geological Survey, Administrative Release.

The U.S. Geological Survey in cooperation with the U.S. Atomic Energy Commission and the Los Alamos Scientific Laboratory collected hydrologic data in Mortandad Canyon prior to the discharge of low-level radioactive effluents into the canyon from an industrial waste-treatment plant at technical area TA-50. The plant began operation on June 28, 1963. Prior to and following June 1963 waste water also was discharged into Effluent Canyon, a tributary to Mortandad Canyon, from technical area TA-48 and from the New Sigma Building of the head of Mortandad Canyon.

Nine observation wells finished in the alluvium and nine access tubes to study the moisture distribution in the alluvium and tuff were constructed in the canyon during the period from July 1961 to June 1963. Two gaging stations were built, and equipped with semicontinuous recorders to monitor surface flow in the canyon.

Waste water from the plants in TA-48 and New Sigma Building and storm runoff constitute the surface flow on the canyon floor. The alluvium in the canyon is highly permeable and accepts recharge readily; the Tshirege and Otowi Members of the Bandelier Tuff are much less permeable and accept recharge very slowly, the Tshirege more slowly than the Otowi. The chemical quality of water in the alluvium changes slightly as the water moves eastward downgradient. The change may be related to differences in the bedrock beneath the alluvium; the Tshirege underlies the alluvium on the west, the Otowi on the east.

Chemical and radiochemical analyses of water provide background radioactivity data. Analyses of samples of alluvium and tuff provide background-radioactivity data of materials on the canyon floor. Gamma-radiation logs of observation well access tubes, and a test well provide additional background monitoring information and aid in computing storage for the effluents in the alluvium.

Purtymun, W.D., 1967,
The Disposal of Industrial Effluents in Mortandad Canyon, Los Alamos County, New Mexico,
U.S. Geological Survey, Administration Release.

The U.S. Geological Survey in cooperation with the U.S. Atomic Energy Commission and Groups H-6 and H-7 of the Los Alamos Scientific Laboratory made a study of the disposal area for low-level radioactive industrial effluents in Mortandad Canyon. The study was made to determine the movement of effluents in the disposal area and to evaluate the possibility of contamination of surface and ground water outside the disposal area.

Mortandad Canyon is cut into the Bandelier Tuff, which forms the Pajarito Plateau. The drainage area above and within the disposal area is small. The alluvium is thin in the upper canyon but thickness eastward into the middle and lower canyon.

The canyon has no natural perennial streamflow. Surface water entering the disposal area is storm runoff, waste water from cooling process at New Sigma and TA-48 and industrial effluents from the waste treatment plant at TA-50. The storm runoff, waste water and effluents infiltrate into the alluvium to recharge a body of water perched in the alluvium overlying the tuff. As the water moves through the alluvium some is lost to evapotranspiration while the remainder infiltrates into the tuff.

An inventory of surface water and water in the alluvium from July 1963 to June 1965 indicated that a greater amount of water was lost into the tuff in the upper canyon than in the middle and lower canyon of the disposal area because the alluvium overlying the tuff in the upper canyon is more permeable (silty sand) than the alluvium overlying the tuff in the middle and lower canyon (sandy silt). The movement of water in the tuff is downward beneath the disposal area into the unsaturated volcanic rocks and sediments of the Puye Conglomerate.

The upper part of the main aquifer in the Los Alamos area is in the Puye Conglomerate, about 1,000 feet beneath the canyon floor. The waterin the mian aquifer is moving at about 70 feet per year toward the Rio Grande. The Rio Grande, about 6 miles east of the disposal area, is the natural dischrage area for the main aquifer.

The chemical and radiochemical quality of the water in the alluvium improves downgradient in the disposal area due to dilution of the effuent by storm runoff and waste water, and by adsorption of certain ions and radionuclides by clay minerals. Water in the main aquifer showed no sign of contamination.

The geology and hydrology of Mortandad Canyon is ideal for the disposal of low-level radioactive effluents. The small drainage area and the volume of alluvium (to adsorb the storm runoff) reduces the chances for storms to flush contaminates to the Rio Grande. Chemical and radiochemical contamination is confined to the disposal area. The disposal area has an environment that reduces the contamination in the effluents and the slow movement of water in the main aquifer beneath the disposal area would allow ion-exchange and half-life decay of nay radionuclides that should reach the aquifer so that no contamination would remain in the water when it reached its natural discharge area.

Purtymun, W.D., 1973,
Regional Survey of Tritium in Surface and Ground Water in the Los Alamos Area, New Mexico; August 1966 through May 1969,
LANL, LA-5234-MS.

Surface and ground water samples were analyzed for tritium from 113 sampling stations during the period August 1966 through May 1969. Tritium was detected only in surface and ground water in the stream-connected aquifers in the alluvium of DP, Los Alamos, and Mortandad Canyons which are controlled areas. These canyons receive treated low-level radioactive effluents. The tritium in DP and Los Alamos Canyon is from old seepage pits that contained tritium. The tritium concentrations decrease downgradient in the canyons due to dilution with other waste water, sewage effluent, and storm runoff. Tritium in the alluvium in Lower Mortandad Canyon is residual from a release into the canyon prior to August 1966. The concentrations decreased with time due to dilution by effluents and storm runoff. The surface and ground water in the alluvium is not a source of municipal or industrial supply.

Purtymun, W.D., 1974,
Dispersion and Movement of Tritium in a Shallow Aquifer in Mortandad Canyon at the Los Alamos Scientific Laboratory,
LANL, LA-5716-MS.

Twenty [20] Ci of tritium discharged into Mortandad Canyon in November 1969 were used to determine the dispersion and movement of the tritium in a shallow aquifer in the alluvium. It took 388 days for the peak concentration to move 3027 m from the effluent outfall to the eastern end of the aquifer. The concentration decreased from 77,700 pCi/ml to 310 pCi/ml in that distance. Ground water in transit storage contained about 0.9Ci of tritium prior to the release of the 20 Ci. About 3.9 Ci of tritium remained in transit storage at the end of 1970. The remaining 17.0 Ci were lost with evapotranspiration, infiltration with ground water into the underlying tuff or suspended with soil moisture above the aquifer.

Purtymun, W.D., Hansen, W.R., and Peters, R.J., 1983,
Radiochemical Quality of Water in the Shallow Aquifer in Mortandad Canyon 1967-1978,
LANL, LA-9675-MS.

Mortandad Canyon receives treated industrial liquid effluents that contain trace amounts of radionuclides. The effluents, other waste water, and storm run-off recharge of a shallow aquifer in the alluvium of the canyon. The aquifer lies within the Los Alamos National Laboratory boundaries. Analyses for gross alpha, gross beta, Cs-137, Pu-238, Pu-239, Am-241, Sr-90, H-3 and total U have been made of water in the aquifer from 1967 through 1978. Average concentrations the radionuclides in solution decrease downgradient in the canyon with the exception of H-3. Average H-3 concentrations were the highest in the Middle Canyon. Inventories of most radionuclides in the water indicate that in 1978 less than 1% of the total amount released with the effluents in the canyon from 1963 through 1978 remained in solution. The amount of total U in solution in 1978 was about 16 % of the total amount released. If there is no significant change in the amounts received at the treatment plant and methods of treatment remain the same, the projected estimates of radionuclide concentrations in the aquifer will increase about 80% from 1978 to 1990. The average concentrations in 1978 and projected concentrations in 1990 of gross alpha, Cs-137, Pu-238, Pu-239, Am-241, Sr-90, H-3 and total U are less than 1% of the Department of Energy's concentration guides (CG) for areas with controlled public access. Gross beta radioactivity in 1978 was 2% of the CG and is projected to increase to 3% of the CG by 1990.

Purtymun, W.D., Maes, M.N., and Peters, R., 1984,
"Distribution of Moisture, Tritium and Plutonium in the Alluvium, Aquifer and Underlying Tuff in Mortandad Canyon", Environmental Surveillance at Los Alamos During 1984,
LANL, LA-10100-ENV, pp. 69-71.

Mortandad Canyon received industrial effluents containing trace amounts of radionuclides from the treatment plant at TA-50. An experiment was designed to determine the distribution of moisture content and concentrations of tritum and plutonium in the Mortandad Canyon aquifer.

At observation well MC-6, three core holes were drilled at right angles to the stream channel. Two other holes were cored to obtain background information. Cores taken from five holes were analyzed to determine moisture content and concentrations of tritium and plutonium.

Results of the study indicate some infiltration of water into the underlying tuff. This infiltration was accompanied by similar movement of tritium. The concentrations of plutonium on the sediments in the aquifer were low when compared to the high concentrations in solution in the aquifer or on sediments in the stream channel. It appears that most of the plutonium in the aquifer is in solution in an ionic complex that does not readily exchange or is adsorbed by clay minerals in the alluvium.

Hakonson, T.E., Nyhan, J.W., and Purtymun, W.D., 1976,
Accumulation and Transport of Soil Plutonium in Liquid Waste Dischare Areas at Los Alamos,
International Atomic Energy Agency, IAEA-SM-199/99.

Plutonium inventory estimates for the surface 12.5 cm of soil in Mortandad Canyon did not reflect all plutonium added to the canyon during a 7 month interval. The methods used in this study indicated that about 2 mCi Pu-238 and 0 mCi Pu-239/240 were added to the canyon during this interval, compared with known additions of 5.5 mCi Pu-238 and 0.4 mCi Pu-239/240. This discrepancy likely was the result of the large sampling variability, indicating that inventory changes in this order (i.e. up to 17%) are not detectable with any certainty. However, factors other than sampling variability may be involved, including losses of plutonium to depths exceeding 12.5 cm. The relative distribution of plutonium within the canyon demonstrates that transport has occurred beyond the extent of surface water and that runoff from summer rainstorms can serve as a radionuclide transport vector in landscapes exhibiting these hydrologic features. There was a highly significant relationship between suspended sediment concentrations and total amounts of radioactivity in water. The flow rates achieved during the runoff event play an important part in determining the total amount of sediment and thus radioactivity transport downstream. The storm runoff event sampled during this study resulted in the downstream transport of about 1-2% of the sediment inventories of plutonium.

Nyhan, J.W., and Trujillo, G., 1978,
"Soil Plutonium and Cesium in Stream Channels and Banks of Los Alamos Liquid Effluent-Receiving Areas",
Am. Soc. Argon, Annual Meeting: 32 (Abstract).

As part of the continuing ecological studies in three liquid radioactive waste disposal areas at Los Alamos, the distribution of various radionuclides in and near the stream channel at nine intensive study areas was studied. A set of soil samples was collected at each intensive study area at locations 0, .02, .1, .38, .50, and 10 m from the stream channel, as well as on the adjacent mesa tops. These 12 cores were cut up into various segments for each sampling location and analyzed for Pu-238, Pu-239,240 and Cs-137. Data relating to the concentrations and inventories of these radionuclides was analyzed for differences due to the varying waste use histories of the three waste disposal areas, differential migration rates of radionuclides into stream bank and channel soils, varying distances from the waste outfall, and the various hydrologic-physiographic characteristics of each intensive study area.

Nyhan, J.W., White, G.C., and Trujillo, G., 1980,
Soil Plutonium and Cesium in Stream Channels and Banks of Los Alamos Liquid Effluent-Receiving Areas,
LANL, LA-UR-80-1184.

Stream channel sediments and adjancent bank soils found in three intermittent streams used for treated liquid effluent disposal at Los Alamos, New Mexico were sampled to determine the distribution of Pu-238, Pu-239/240 and Cs-137. Radionuclide concentrations and inventories were determined as a function of distance downstream from the waste outfall and from the center of the stream channel-bank physiography, and the waste use history of each disposal area.

Radionuclide concentration in channel sediments were inversely related to distances up to 10 km downstream from the outfalls. Contaminant concentrations in bank soils severely decreased with perpendicular distances greater than 0.38 m from the stream channel and stream bank sampling depths greater than 20-40 cm. Concentrations and total inventories of radionuclides in stream bank soils generally decrease as stream bank height increased. Inventory estimates of radionuclides in channel sediments exhibited coefficients of variation that ranged from 0.41 to 2.6 reflecting the large variation in radionuclide concentrations at each site.

Several interesting temporal relationships of these radionuclides in intermittent streams were gleaned from the varying waste use histories of the three effluent-receiving areas. Eleven years after liquid wastes were added to one canyon, the major radionuclide inventories were found in the stream bank soils, unlike most of the other currently-used receiving areas. A period of time greater than six years seems to be required before the plutonium in liquid wastes currently added to the canyon is approximately equilibrated with the plutonium in the bank soils. These observations are discussed relative to the waste management practices in these southwestern intermittent streams.

Purtymun, W.D., Buchholz, J.R., and Hakonson, T.E., 1975,
Chemical Quality of Effluents and their Influence on Water Quality in Mortandad Canyon,
LANL, LA-UR-75-2076.

The chemical quality of liquid effluent released from an industrial waste treatment plant at the Los Alamos Scientific Laboratory controls the quality of water in a shallow aquifer in the alluvium of Mortandad Canyon. The dilution of the effluent with the waste water and storm runoff, uptake of ions by plants, base exchange with alluvium and losses from the aquifer into the underlying strata reduce the concentrations of the chemicals as they move down gradient in the canyon into the aquifer. Mass estimates of residual chemicals in solution in the aquifer were about 1% of the total released to the canyon from 1963-1974. The average annual concentration of sodium, nitrate, chloride, and total dissolved solids in the aquifer through a 12 year period was directly correlated with annual average concentration in the effluent. This relationship provides a means of predicting the impact of the chemical effluents on the quality of water in the aquifer.

Industrial liquid wastes resulting from some of the scientific programs at the Los Alamos Scientific Laboratory (LASL) were collected and processed at a waste treatment plant located adjacent to Mortandad Canyon in Technical Area (TA) 50. The plant which became operational in June 1963, has been the sole source of treated effluents to Mortandad Canyon. Hydrologic studies which were initiated in 1960 have continued as a part of an overall evaluation of the impact of the effluents on the environment. The purpose of this study was to investigate annual changes in the chemical quality of water in the canyon resulting from the release of effluents through the period 1963-1974. An annual mass inventory was made of chemical additions to the canyon and the residual chemicals in storage in the aquifer. Empirical data were used in developing a predictive model for estimating the concentrations of selected constituents in the aquifer.

Purtymun, W.D., Johnson, G.L., and John, E.C., 1966,
Distribution of Radioactivity in the Alluvium of a Disposal Area at Los Alamos, New Mexico.,
U.S. Geological Survey, Prof. Paper 550-D, pp. D250-D252.

Fine particles in alluvial material in a disposal area for liquid radioactive wastes at Los Alamos have greater affinity for radionuclides than coarse particles; however, most of the radioactivity is in the coarse material, which is more abundant. The radioactivity in the alluvium is dispersed by waste water and storm runoff and decreases with distance from the point of effluent outfall.

Most of the radionuclides are very little change in the quality of the ground water perched in the alluvium.

8.2.2 List of Surveillance Reports

APPENDIX 8.2.2

LIST OF PAST SURVEILLANCE REPORTS

J. E. Weir, J. H. Abrahams, J. R. Waldron, and W. D. Purtymun, "The Hydrology and the Chemical and Radiochemical Quality of Surface and Ground Water at Los Alamos, New Mexico, 1945-55," US Geol. Survey open-file report (1962).

J. H. Abrahams, "Geologic and Hydrologic environment of Radioactive Waste-Disposal Sites at Los Alamos, New Mexico," US Geol. Survey open-file report (1963).

J. H. Abrahams, "Hydrology and the Chemical and Radiochemical Quality of Surface and Ground Water at Los Alamos, New Mexico, January 1956 through June 1957," US Geol. Survey open-file report (1966).

J. H. Abrahams and W. D. Purtymun, "Hydrology and Chemical and Radiochemical Quality of Surface and Ground Water at Los Alamos, New Mexico, July 1957 through June 1961," US Geol. Survey open-file report (1963).

W. D. Purtymun, "The Chemical and Radiochemical Quality of Surface and Ground Water at Los Alamos, New Mexico, July 1961 through June 1962," US Geol. Survey open-file report (1963).

W. D. Purtymun, "The Chemical and Radiochemical Quality of Surface and Ground Water at Los Alamos, New Mexico, July 1962 through June 1963," US Geol. Survey open-file report (1963).

W. D. Purtymun, "The Chemical and Radiochemical Quality of Surface and Ground Water at Los Alamos, New Mexico, July 1963 through June 1964," US Geol. Survey open-file report (1965).

W. D. Purtymun, "The Chemical and Radiochemical Quality of Surface and Ground Water at Los Alamos, New Mexico, July 1963 through June 1974," US Geol. Survey open-file report (1966).

W. D. Purtymun and E. A. Enyart, "The Chemical and Radiochemical Quality of Surface and Ground Water at Los Alamos, New Mexico, July 1964 through June 1965," US Geol. Survey open-file report (1966).

W. D. Purtymun and J. L. Kunkler, "The Chemical and Radiochemical Quality of Surface and Ground Water at Los Alamos, New Mexico, July 1965 to June 1966," US Geol. Survey open-file report (1967).

W. D. Purtymun, Chemical and Radiochemical Analyses of Water in the Los Alamos Area, New Mexico, Made by the U.S. Geological Survey, 1960 through 1968," US Geol. Survey open-file report (1969).

W. R. Kennedy, "Los Alamos Environmental Monitoring Program," Los Alamos Scientific Laboratory report LA-3639-MS (1970).

W. R. Kennedy, W. D. Purtymun, and H. F. Schulte, "Los Alamos Environmental Monitoring Program, July through December, 1970," Los Alamos Scientific Laboratory report LA-4672-MS (1971).

Environmental Surveillance Group, "Environmental Monitoring in the Vicinity of the Los Alamos Scientific Laboratory, January through June 1971," Los Alamos Scientific Laboratory report LA-4871-MS (1972).

Environmental Surveillance Group, "Environmental Monitoring in the Vicinity of the Los Alamos Scientific Laboratory, July through December 1971," Los Alamos Scientific Laboratory report LA-4970 (1972).

Environmental Surveillance Group, "Environmental Monitoring in the Vicinity of the Los Alamos Scientific Laboratory, Calendar Year 1972," Los Alamos Scientific report LA-5184 (1973).

Environmental Surveillance Group, "Environmental Surveillance at Los Alamos During 1973," Los Alamos Scientific Laboratory report LA-5586 (1974).

Environmental Surveillance Group, "Environmental Surveillance at Los alamos During 1974," Los Alamos Scientific Laboratory report LA-5977-PR (1975).

Environmental Surveillance Group, "Environmental Surveillance at Los Alamos During 1975," Los Alamos Scientific Laboratory report LA-6321-MS (1976).

Environmental Surveillance Group, "Environmental Surveillance at Los Alamos During 1976," Los Alamos Scientific Laboratory report LA-6801-MS (1977).

Environmental Surveillance Group, "Environmental Surveillance at Los Alamos During 1977," Los Alamos Scientific Laboratory report LA-7263-MS (1978).

Environmental Surveillance Group, "Environmental Surveillance at Los Alamos During 1978," Los Alamos Scientific Laboratory report LA-7800-ENV (1979).

Environmental Surveillance Group, "Environmental Surveillance at Los Alamos During 1979," Los Alamos Scientific Laboratory report LA-8200-ENV (1980).

Environmental Surveillance Group, "Environmental Surveillance at Los Alamos During 1980," Los Alamos National Laboratory report LA-8810-ENV (1981).

Environmental Surveillance Group, "Environmental Surveillance at Los Alamos During 1981," Los Alamos National Laboratory report LA-9349-ENV (1982).

Environmental Surveillance Group, "Environmental Surveillance at Los Alamos During 1982," Los Alamos National Laboratory report LA-9762-ENV (1983).

Environmental Surveillance Group, "Environmental Surveillance at Los Alamos During 1983," Los Alamos National Laboratory report LA-10100-ENV (1984).

Environmental Surveillance Group, "Environmental Surveillance at Los alamos During 1984," Los Alamos National Laboratory report LA-10421-ENV (1985).

Environmental Surveillance Group, "Environmental Surveillance at Los Alamos During 1985," Los Alamos National Laboratory report LA-10721-ENV (1986).

Environmental Surveillance Group, "Environmental Surveillance at Los Alamos During 1986," Los Alamos National Laboratory report LA-10992-ENV (1987).

Environmental Surveillance Group, "Environmental Surveillance at Los Alamos During 1987," Los Alamos National Laboratory report LA-11306-ENV (1988).

Environmental Surveillance Group, "Environmental Surveillance at Los Alamos During 1988," Los Alamos National Laboratory report LA-11628-ENV (1989).

Environmental Surveillance Group, "Environmental Surveillance at Los Alamos During 1989," Los Alamos National Laboratory report LA-12000-ENV (Dec. 1990).

8.2.3 Excerpt from 1987 Environmental Surveillance Report

LA-11306-ENV
UC-41
Issued: May 1988

Environmental Surveillance at Los Alamos During 1987

Environmental Surveillance Group

Los Alamos National Laboratory
Los Alamos, New Mexico 87545

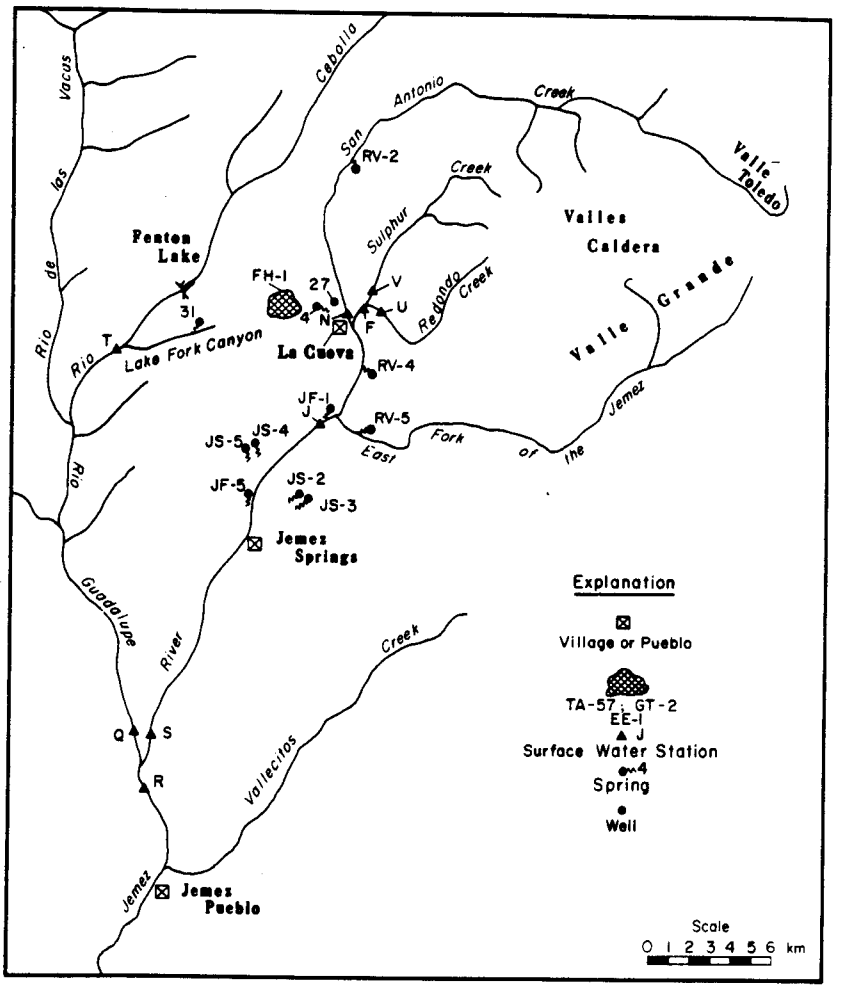


Fig. 30. Sampling stations for surface and ground water near the Fenton Hill Site (TA-57).

There were no significant changes in the chemical quality of surface and ground water at the individual stations from previous years (Purtymun 1988A).

F. Distribution of Radionuclides in Channel Alluvium of Mortandad Canyon [Donald VanEtten, William Purtymun, Max Maes, and Richard Peters (HSE-9)]

Trace amounts of radionuclides remaining in effluent are released from the treatment plant at TA-50 into the adjacent Mortandad Canyon (Table G-12). The effluent recharges a shallow body of ground water in the alluvium. The radionuclides in the effluent are adsorbed or bound to the sediments in the channel, reducing the amount found in the water of the shallow aquifer. This shallow aquifer is of limited extent and lies within the Laboratory boundary.

The sediments and radionuclides in the stream channel alluvium are subject to transport by additional releases of effluent or by storm run-off. The small drainage area of the canyon and the ability of the thick

section of unsaturated alluvium to store the run-off has prevented transport to the Laboratory boundary. To confine the surface run-off and contaminants within the Laboratory, there has been a series of sediment traps installed in the canyon since early 1970. The traps range from gravel-filled galleries to stilling basins that contain suspended solids as well as bed sediment (alluvium).

A storm on June 7, 1987, produced a record 50-year, 2-hr rainfall of 5.5 cm (2.16 in.). The rainfall resulted in the largest run-off event in Mortandad Canyon since hydrologic studies began in 1960. The peak discharge in the upper canyon at gaging station GS-1 was estimated to be 4.5 m^3/s (160 ft^3/s [cfs]). Two other large run-off events occurred in August 1968 (3.2 m^3/s [115 cfs]) and November 1987 (2.9 m^3/s [102 cfs]). The peak discharge at the sediment traps of the June 1987 event was about 3 m^3/s (100 cfs). The run-off filled the two sediment traps and overflowed into the third. The estimated volume of run-off was 3500 m^3 (930 000 gal.).

A set of sediment samples were collected in the canyon on June 16 and analyzed for transuranics and gamma emitting radionuclides (Fig. 31). The concentrations of plutonium and americium above the effluent outfall from TA-50 (stations 1, 2, and A) were background (Table 27). The ^{238}Pu concentrations between gaging station GS-1 to station 7 just above the sediment trap ranged from 3.3 to 11.7 pCi/g, and the $^{239,240}Pu$ in the same reach of canyon ranged from 12.2 to 39.3 pCi/g. The ^{241}Am for this same sampling area ranged from 11.72 to 33.81 pCi/g. The largest concentrations of transuranics in sediments were in sediment trap 1 with 18 pCi/g of ^{238}Pu, 58.9 pCi/g of $^{239,240}Pu$, and 79.50 pCi/g of ^{241}Am. The concentrations decreased in trap 2 and decreased further in trap 3. All of the bed sediments and most of the suspended sediments were retained in trap 1, resulting in higher concentrations here than in traps 2 and 3.

Gamma-emitting radionuclides followed the same trends as transuranics (Table 28). The concentrations above the effluent outfall were background. The highest concentrations were for ^{137}Cs with a range from 15.3 to 62.9 pCi/g in the channel above the traps and 96.7 pCi/g in trap 1. Trace amounts of ^{134}Cs, $^{59,60}Co$, and ^{75}Se were found in the channel sediment samples with the highest concentrations in the sediment traps.

The sediments from traps 1 and 2 were analyzed using EPA's toxic characteristic leach procedure (TCLP) to identify hazardous wastes. Analyses were carried out for pesticides (8 compounds), extractable organics (15 compounds), volatile organics (18 compounds), and metal (8 elements). None of these were detected.

Previous run-off events have not been contained in the area of the sediment traps. The analyses of sediments below the traps indicated that run-off events had carried radionuclides to station 10. Below station 10 and still within the Laboratory, the concentrations of radionuclides were at or below background. The

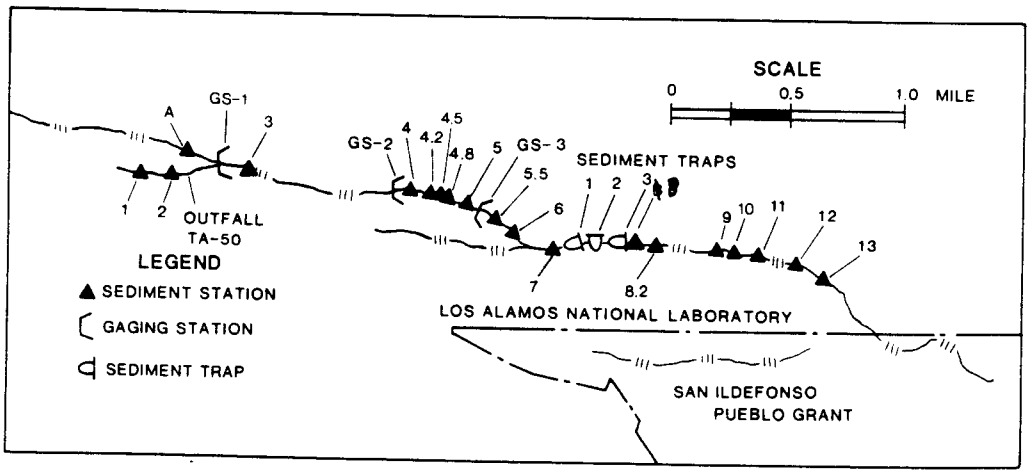


Fig. 31. Sediment sampling stations in Mortandad Canyon.

Table 27. Transuranics in Mortandad Canyon Channel Alluvium, June 16, 1987[a]

Station	^{238}Pu (pCi/g)		$^{239,240}Pu$ (pCi/g)		^{241}Am (pCi/g)	
Effluent Canyon						
1	0.012	(0.007)	0.024	(0.011)	-0.008	(0.002)
2	0.011	(0.006)	0.033	(0.011)	0.130	(0.050)
TA-50 Outfall	0.712	(0.058)	1.81	(0.107)	0.970	(0.050)
Mortandad Canyon						
A	0.005	(0.009)	0.033	(0.010)	0.02	(0.002)
GS-1	3.91	(0.330)	16.2	(1.20)	11.72	(0.14)
3	7.69	(0.580)	17.6	(1.30)	16.79	(0.17)
GS-2	7.00	(0.560)	24.6	(1.80)	31.96	(0.24)
4	7.27	(0.550)	26.2	(1.80)	33.81	(0.24)
4.2	11.7	(0.070)	39.3	(2.30)	22.08	(0.20)
4.5	4.69	(0.37)	18.9	(1.30)	19.85	(0.20)
4.8	4.26	(0.390)	18.1	(1.40)	28.76	(0.22)
5	7.11	(0.690)	29.7	(2.20)	20.51	(0.19)
GS-3	4.67	(0.450)	20.1	(1.60)	22.60	(0.19)
5.5	5.67	(0.430)	24.5	(1.60)	27.71	(0.22)
6	6.29	(0.610)	16.2	(1.40)	14.60	(0.16)
7	3.30	(0.171)	12.2	(0.519)	16.53	(0.17)
Sediment Trap 1	18.2	(1.30)	58.9	(3.90)	79.50	(0.40)
Sediment Trap 2	9.71	(0.750)	35.8	(2.60)	51.42	(0.31)
Sediment Trap 3	2.06	(0.126)	7.06	(0.329)	10.11	(0.13)
8 ~~3~~	2.13	(0.24)	7.17	(0.64)	12.53	(0.15)
8.2	0.105	(0.018)	0.399	(0.037)	0.56	(0.03)
10	0.09	(0.02)	0.33	(0.04)	0.31	(0.03)
11	0.095	(0.024)	0.330	(0.042)	0.01	(0.002)
12	-0.025	(0.017)	0.010	(0.012)	0.1	(0.01)
13	-0.010	(0.011)	0.089	(0.020)	0.8	(0.002)

[a]Location of sediment stations shown on Fig. 31; counting uncertainty in parentheses.

maintenance of the sediment traps is essential to contain residual radioactivity within the Laboratory boundaries.

G. Underground Storage Tanks (James White, Alice Barr, David McInroy, and Steven McLin)

Subtitle I of the Hazardous and Solid Waste Amendments to the Resource Conservation and Recovery Act has broadened the scope of underground tank regulations. Previously, only Subtitle C of RCRA regulated those underground tanks that contained hazardous waste. Subtitle I now brings underground tanks that contain regulated substances under RCRA regulation. Along with the requirement for EPA to promulgate specific regulations, several major provisions have been included in this new program. Among them are: the requirement to notify of existing tanks; the provision granting EPA authority to inspect the test tanks and to enforce regulatory requirements through the use of administrative orders, injunctions or civil penalties; the provision subjecting tanks controlled by the federal government to Subtitle I; and the requirement to satisfy statutory standards for new tanks.

Table 28. Radionuclides in Mortandad Canyon Channel Alluvium, June 16, 1987[a]

Station	^{137}Cs (pCi/g)	^{134}Cs (pCi/g)	^{60}Co (pCi/g)	^{57}Co (pCi/g)	^{75}Se (pCi/g)
Effluent Canyon					
1	0.24 (0.10)	0.11 (0.09)	0.07 (0.14)	0.39 (0.21)	−0.11 (0.14)
2	0.005 (0.07)	−0.12 (0.09)	−0.07 (0.12)	0.02 (0.14)	−0.03 (0.09)
TA-50 Outfall	0.69 (0.14)	0.28 (0.12)	0.16 (0.13)	1.56 (0.33)	0.71 (0.17)
Mortandad Canyon					
A	0.13 (0.09)	0.03 (0.08)	−0.10 (0.11)	0.09 (0.014)	0.003 (0.008)
GS-1	15.30 (2.31)	0.83 (0.17)	1.73 (0.30)	15.60 (2.36)	2.82 (0.44)
3	30.20 (4.55)	0.25 (0.18)	0.73 (0.20)	8.23 (1.26)	2.13 (0.36)
GS-2	48.90 (7.36)	0.10 (0.09)	0.40 (0.16)	4.30 (0.69)	2.00 (0.34)
4	62.90 (9.46)	0.97 (0.18)	0.35 (0.14)	3.52 (0.55)	1.92 (0.31)
4.2	31.60 (4.76)	0.34 (0.11)	0.23 (0.17)	3.00 (0.53)	1.27 (0.24)
4.5	37.30 (5.63)	0.56 (0.16)	0.18 (0.17)	1.80 (0.35)	0.73 (0.17)
4.8	43.20 (6.50)	0.78 (0.15)	0.12 (0.12)	1.99 (0.33)	1.33 (0.23)
5	23.50 (3.55)	0.29 (0.12)	0.02 (0.15)	1.75 (0.36)	0.79 (0.18)
GS-3	39.50 (5.95)	0.84 (0.16)	0.20 (0.12)	1.45 (0.25)	0.76 (0.15)
5.5	55.40 (8.33)	0.98 (0.19)	0.24 (0.12)	2.08 (0.35)	1.24 (0.23)
6	53.30 (8.01)	0.16 (0.11)	0.11 (0.16)	1.02 (0.29)	0.21 (0.12)
7	29.70 (4.48)	0.34 (0.10)	−0.18 (0.12)	0.85 (0.21)	0.34 (0.12)
Sediment Trap 1	96.70 (19.5)	0.24 (0.12)	1.36 (0.26)	11.70 (1.79)	7.64 (1.17)
Sediment Trap 2	96.50 (14.5)	1.68 (0.28)	0.71 (0.18)	5.52 (0.85)	3.41 (0.52)
Sediment Trap 3	15.10 (2.29)	0.16 (0.10)	−0.19 (0.14)	1.37 (0.36)	0.61 (0.17)
8	27.40 (4.13)	0.37 (0.16)	0.21 (0.19)	0.70 (0.32)	0.38 (0.19)
8.2	3.12 (0.48)	0.29 (0.10)	−0.14 (0.13)	0.48 (0.21)	0.07 (0.14)
10	1.60 (0.26)	0.23 (0.11)	−0.09 (0.14)	0.66 (0.22)	0.16 (0.14)
11	0.46 (0.13)	0.02 (0.08)	−0.27 (0.14)	−0.06 (0.12)	0.09 (0.09)
12	0.63 (0.15)	0.19 (0.11)	−0.20 (0.14)	0.66 (0.24)	0.01 (0.12)
13	0.23 (0.08)	−0.08 (0.09)	−0.05 (0.12)	−0.16 (0.14)	0.09 (0.09)

[a]Location of sediment stations shown in Fig. 31; counting uncertainty in parentheses.

8.2.4 Excerpt from 1989 Environmental Surveillance Report

LA-12000-ENV

UC-702 and UC-707
Issued: December 1990

Environmental Surveillance at Los Alamos During 1989

Environmental Protection Group

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Los Alamos, New Mexico 87545

Table G-24 (Cont)

Station	^{3}H (10^{-6} µCi/mL)	^{137}Cs (10^{-9} µCi/mL)	Total Uranium (µg/L)	^{238}Pu (10^{-9} µCi/mL)	$^{239,240}Pu$ (10^{-9} µCi/mL)	Gross Gamma (counts/min/L)
Mortandad Canyon						
GS-1	38 (4.0)	3130 (470)	4.0 (1.0)	7.36 (0.271)	28.4 (0.906)	2800 (300)
MCO-3	37 (4.0)	3000 (470)	4.0 (1.0)	7.82 (0.318)	29.9 (1.05)	2600 (300)
MCO-4	130 (10)	0.22 (46)	3.0 (1.0)	0.137 (0.034)	0.364 (0.054)	410 (80)
MCO-5	130 (10)	191 (103)	3.0 (1.0)	0.147 (0.024)	0.342 (0.038)	230 (80)
MCO-6	150 (20)	122 (46)	4.0 (1.0)	0.033 (0.012)	0.029 (0.010)	−20 (70)
MCO-7	150 (20)	8.1 (39)	4.0 (1.0)	0.003 (0.010)	0.030 (0.013)	−100 (70)
MCO-7.5	150 (20)	97 (90)	4.0 (1.0)	0.051 (0.018)	0.021 (0.010)	80 (70)
Maximum	150 (20)	3130 (470)	4.0 (1.0)	7.82 (0.318)	29.9 (1.05)	2800 (300)
Limits of detection	0.7	40	1	0.009	0.003	50

[a]Samples were collected in April 1989; counting uncertainties are in parentheses.

Table G-25 (Cont)

Station	SiO_2	Ca	Mg	K	Na	CO_3	HCO_3	P	SO_4	Cl	F	NO_3-N	TDS[b]	Total Hardness	pH[c]	Conductivity (mS/m)
Mortandad Canyon																
GS-1	43	210	2.8	120	320	1	382	0.1	107	352	7.2	117	1780	446	8.0	300
MCO-3	43	200	3.0	117	300	28	372	0.1	102	294	6.4	111	1700	462	8.0	280
MCO-4	32	60	8.5	43	200	0	181	0.2	105	54	1.7	107	1060	182	7.5	150
MCO-5	32	56	7.7	50	220	0	172	0.2	100	66	1.6	106	1000	170	7.4	140
MCO-6	34	23	5.0	5.5	210	0	175	0.2	38	27	1.9	81	782	78	7.3	100
MCO-7	34	23	5.2	5.4	220	0	174	0.2	39	33	1.5	82	762	79	7.8	110
MCO-7.5	34	23	5.3	5.5	210	0	181	0.2	40	26	1.6	82	770	83	7.0	110
Maximum	43	210	8.5	120	320	28	382	0.2	107	352	7.2	117	1780	462	8.0	300

[a]Samples were collected in April 1989.
[b]Total dissolved solids.
[c]Standard units.

Table G-34 (Cont)

Location	^{3}H (10^{-6} µCi/mL)	^{90}Sr (pCi/g)	^{137}Cs (pCi/g)	Total Uranium (µg/g)	^{238}Pu (pCi/g)	$^{239,240}Pu$ (pCi/g)	^{241}Am (pCi/g)	Gross Gamma (counts/min/g)
Sediments from Effluent Release Areas (Cont)								
DP–Los Alamos Canyon								
DP Canyon at DPS-1	—	—	0.30 (0.08)	2.0 (0.2)	0.003 (0.015)	0.043 (0.012)	0.370 (0.060)	2.1 (0.4)
DP Canyon at DPS-4	—	0.27 (0.37)	0.25 (0.14)	3.4 (0.3)	0.002 (0.001)	0.356 (0.017)	0.007 (0.001)	4.7 (0.6)
Los Alamos Canyon at Bridge	—	0.54 (0.44)	0.16 (0.07)	2.2 (0.2)	0.000 (0.001)	0.003 (0.001)	0.002 (0.001)	2.3 (0.4)
Los Alamos Canyon at LAO-1	—	0.02 (0.45)	0.36 (0.16)	4.5 (0.4)	0.004 (0.001)	0.467 (0.021)	0.006 (0.002)	4.8 (0.6)
Los Alamos Canyon at GS-1	—	0.49 (0.94)	1.8 (0.28)	3.4 (0.4)	0.017 (0.002)	0.192 (0.009)	0.103 (0.018)	4.6 (0.6)
Los Alamos Canyon at LAO-3	—	0.09 (0.50)	0.20 (0.13)	3.5 (0.4)	0.001 (0.001)	0.445 (0.021)	0.011 (0.002)	4.6 (0.6)
Los Alamos Canyon at LAO-4.5	—	0.14 (0.25)	2.5 (0.38)	4.0 (0.4)	0.019 (0.003)	0.221 (0.011)	0.138 (0.021)	5.9 (0.7)
Los Alamos Canyon at SR-4	—	0.12 (0.24)	1.5 (0.27)	3.1 (0.3)	0.008 (0.002)	0.124 (0.008)	0.062 (0.008)	4.1 (0.6)
Los Alamos Canyon at Totavi	—	0.03 (0.13)	0.28 (0.07)	2.0 (0.2)	0.001 (0.002)	0.011 (0.003)	0.002 (0.001)	1.7 (0.4)
Los Alamos Canyon at LA-2	—	0.14 (0.20)	0.19 (0.14)	1.7 (0.2)	0.001 (0.001)	0.002 (0.001)	0.002 (0.001)	2.4 (0.4)
Los Alamos Canyon at Otowi	—	0.16 (0.19)	0.11 (0.06)	1.6 (0.2)	0.007 (0.001)	0.002 (0.001)	0.002 (0.001)	1.5 (0.4)
Maximum		0.54 (0.44)	2.5 (0.38)	4.5 (0.4)	0.19 (0.003)	0.467 (0.021)	0.370 (0.050)	5.9 (0.7)
Mortandad Canyon								
Mortandad at CMR Building	—	–0.15 (0.18)	0.10 (0.13)	1.8 (0.2)	0.025 (0.003)	0.105 (0.002)	0.003 (0.001)	1.8 (0.4)
Mortandad west of GS-1	—	0.09 (0.46)	0.20 (0.07)	1.7 (0.2)	0.022 (0.003)	0.007 (0.002)	0.006 (0.001)	2.0 (0.4)
Mortandad at GS-1	—	—	0.30 (0.15)	2.6 (0.3)	–0.003 (0.006)	0.019 (0.011)	0.170 (0.040)	3.7 (0.5)
Mortandad at MCO-5	—	—	23.5 (3.5)	2.1 (0.2)	4.08 (0.173)	14.5 (0.537)	12.8 (0.80)	18 (2.0)
Mortandad at MCO-7	—	1.44 (0.28)	26.7 (4.0)	2.1 (0.2)	3.44 (0.150)	12.8 (0.473)	0.250 (0.050)	17 (2.0)
Mortandad at MCO-9	—	0.14 (0.21)	0.55 (0.11)	4.6 (0.5)	0.002 (0.002)	0.017 (0.004)	0.011 (0.002)	5.1 (0.6)
Mortandad at MCO-13	—	0.07 (0.20)	0.63 (0.18)	2.6 (0.3)	0.002 (0.002)	0.018 (0.005)	0.006 (0.001)	2.2 (0.4)
Maximum	—	—	26.7 (4.0)	4.6 (0.5)	4.08 (0.173)	14.5 (0.537)	12.8 (0.080)	18 (2.0)

[a]Samples were collected in April and May 1989; counting uncertainties are in parentheses.

8.3 Inventory of Mortandada Canyon Holes and Wells

TABLE 8.3-I

Hydrologic Data for Test Holes (Mortandad Canyon)

Observation Wells	Date Completed	Depth Drilled (ft)	Depth Completed (ft)	Depth 1991	Water Levels At Completion (ft)	Water Levels Date	Water Levels (ft)	Elevation Land-Surface Datum (LSD) (ft)	Top of Casing (MP) to Land-Surface Datum	Remark
MCM-2.2	11/61	90	87	87	Dry	4/91	Dry	7109	2.20	Angle hole beneath channel. (45°)
MCM-2.8	11/61	68	58	58	Dry	4/91	Dry	7086	5.00	Angle hole beneath channel. (30°)
MCM-4.5	11/61	48	48	35	–	–		6891	1.70	Double cased moisture hole
MCM-6.5	11/61	95	95	95	–	–		6840	0.20	Double cased moisture hole
MCM-7.5	11/61	94	94	94	–	–		6809	1.00	Double cased moisture hole
MT-1	11/88	69	69	68	43.0	2/91	42.92	6811.79	1.79	
MT-2	11/88	64	64	64	62.0	2/91	Dry	6796.88	1.60	
MT-3	11/88	74	74	73	45.0	2/91	54.72	6796.88	1.30	
MT-4	11/88	74	74	74	58.0	2/91	59.84	6785.22	1.34	
MCM-5.1	9/90	112	112	112	–	–	–	6870	0.22	
MCM-5.9	7/90	94	–	–	–	–	–	6852	–	Plugged and abandoned.
MCM-5.9A	7/90	194	194	194	–			6859.29	0.94	
MCC-8.2	4/89	184	–		73	–	–	6780	–	Plugged and abandoned.
SIMO	9/90	104	104	–	Dry	–	–	6658	–	On sacred land (San Ildefonso Pueblo).

TABLE 8.3-II

Hydrologic Data for Observation Wells (Mortandad Canyon)

Observation Wells	Date Completed	Depth Drilled (ft)	Depth Completed (ft)	Depth 1991	Water Levels At Completion (ft)	Water Levels Date	Water Levels (ft)	Elevation Land-Surface Datum (LSD) (ft)	Top of Casing (MP) to Land-Surface Datum	Remark
MCO-1	11/60	8	8	–	2.8	–	–	7153	–	Unable to locate in 1991
MCO-2	11/60	10	9	7.5	0.3	4/91	5.06	7133	2.00	
MCO-3	11/60	18	12	10.1	4.4	4/91	3.36	7052.72	1.54	
MCO-4	10/63	24	19	16.3	3.3	4/91	7.19	6900.36	1.02	
MCO-4.9	7/73	42	30	23.4	–	4/91	22.10	6879.31	1.25	
MCO-5	10/60	47	46	44.9	24.6	2/91	20.75	6875.80	1.95	
MCO-6	10/60	82	71	–	38.1	–	–	6849	–	Plugged and abandoned (relocated).
MCO-6	3/74	47	47	41.5	28.9	2/91	33.75	6848.96	2.34	
MCO-6.5A	11/61	47	45	33.3	41.0	2/91	Dry	6840	2.15	
MCO-6.5B	11/61	42	42	36.0	36.3	2/91	Dry	6839	0.70	
MCO-7	10/60	77	69	54.7	39.7	2/91	37.47	6827.40	1.24	
MCO-7.5A	11/61	63	60	–	41.2	–	–	6809	–	Well damaged (relocated).
MCO-7.5B	7/74	62	60	56.0	42.1	2/91	43.71	6808.80	1.28	
MCO-8	10/60	92	84	22.7	61.6		–	6796.45	0.25	Obstruction in well.
MCO-8A	11/61	52	50	48.5	Dry	2/91	Dry	6800	0.61	
MCO-8.2	11/61	72	70	60.3	59.2	2/91	Dry	6782	2.00	
MCO-9	11/60	57	55	54.6	Dry	2/91	Dry	6747.77	1.44	
MCO-9.5	11/61	57	46	40.3	Dry	2/91	Dry	6740	2.00	
MCO-11	11/61	23	20	–	Dry	–	–	–	–	Unable to locate in 1991.
MCO-12	11/61	64	60	–	Dry	–	–	6700	–	Casing pulled; hole plugged (relocated).
MCO 12	6/71	112	108	96.2	Dry	2/91	Dry	6702	0.62	
MCO-13	7/70	112	107	106.2	Dry	2/91	Dry	6674	0.67	
TSCO-1	11/61	37	35	23.1	Dry	2/91	8.93	6857	0.97	

TABLE 8.3-III

Construction Data for Moisture Access Holes (Mortandad Canyon)

Moisture Access Hole	Construction Date	Elevation LSD (ft)	Plastic Casing Diameter (in.)	Length of Casing LSD (ft)	Alluvium (ft)	Bandelier Tuff (ft)	Remark
MCM-1A	11/60	7156	2	12	0	12	
MCM-1B	11/60	7155	2	11	0	11	
MCM-2A	11/60	7139	2	11	0	11	
MCM-2B	11/60	7134	2	1	0	1	
MCM-3A	11/60	7049	2	13	11	3	
MCM-3B	11/60	7048	2	10	10	0	
MCM-4A	11/60	6901	2	9	9	0	
MCM-4B	11/60	6900	2	24	18	6	
MCM-4.8	11/61	6887	2	33	30	3	
MCM-5A	10/60	6881	2	25	23	3	
MCM-5B	10/60	6879	2	30	25	5	
MCM-5C	10/60	6878	2	37	30	7	
MCM-6A	10/60	6852	2	18	10	8	
MCM-6B	10/60	6851	2	52	37	15	
MCM-6C	10/60	6851	2	57	47	10	
MCM-6D	10/60	6850	2	35	35	0	
MCM-6E	10/60	6851	2	21	12	9	
MCM-6.5A	8/89	6839	2	23	23	–	Al casing
MCM-8A	10/60	6807	2	20	3	17	
MCM-8B	10/60	6797	2	30	30	0	
MCM-8C	10/60	6797	2	66	57	9	
MCM-8D	10/60	6796	2	86	59	27	
MCM-8E	10/60	6797	2	53	32	21	
MCM-8F	10/60	6799	2	23	4	19	
MCM-10	10/60	6731	2	67	62	5	
MCM-12A	6/71	6718	2	98	98	5	
MCM-12B	6/71	6705	2	79	79	0	
TSCM-1	11/61	6859	2	22	22	0	

Table 8.3-IV

Basic Data for New Monitoring Wells in Mortandad Canyon

Well Characteristics and Water Levels

	Date Drilled	Date Completed	Depth Drilled (ft)	Depth Completed (ft)	Water Levels Below Land Surface Datum (ft)			
					Date	Water Level	Date	Water Level
MCO-4A	11-01-89	11-01-89	24	19.4	11-14-89	5.1	8-15-90	Dry
MCO-4B	8-20-90	8-21-90	34	33.9	—	—	8-21-90	21.7
MCO-6A	11-02-89	11-06-89	33	32.7	11-09-89	30.3	6-02-90	Dry
MCO-6B	8-09-90	8-13-90	48	47.1	—	—	8-13-90	33.2
MCO-7A	11-06-89	11-14-89	47	44.8	11-09-89	35.2	6-21-90	37.2

Observation Well Elevations and Measuring Points

	Top of Steel Casing	Top of PVC Casing, Measuring Point	Land Surface Datum, or Brass Cap	Measuring Point to Land Surface Datum	New Mexico State Plane Coordinates (Brass Cap) Northing	Easting
MCO-4A	6889.00	6888.24	6887.53	-0.71	1 769 638.132	491 784.644
MCO-4B	6889.13	6888.71	6887.56	-1.15	1 769 634.899	491 792.173
MCO-6A	6851.80	6851.45	6850.18	-1.27	1 768 899.886	493 388.651
MCO-6B	6851.84	6851.08	6850.37	-0.71	1 768 921.493	493 386.276
MCO-7A	6829.27	6828.75	6827.71	-1.04	1 768 447.198	494 259.239

8.4 Logs for Holes and Wells

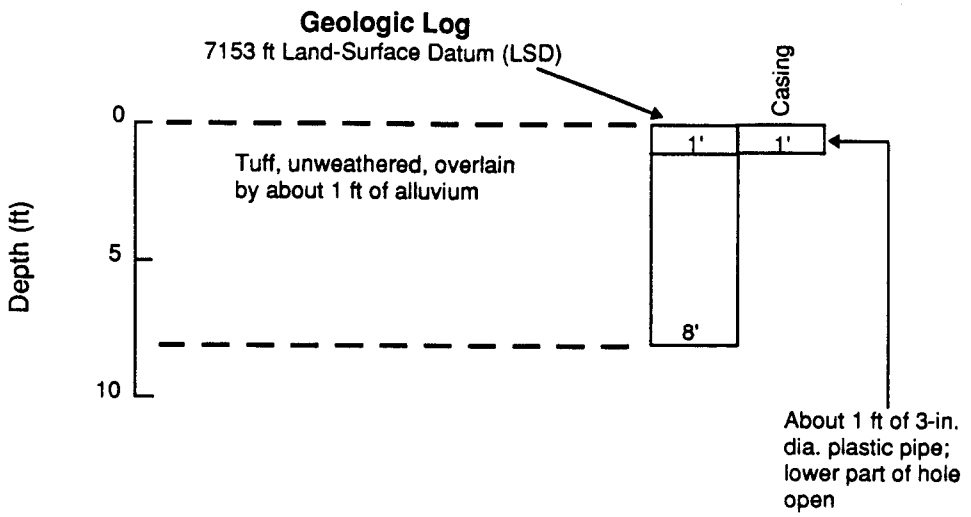


Fig. 8.4-1 Mortandad Canyon observation well MCO-1 (completed November 1960; water level 2.8 ft; unable to locate 1991)

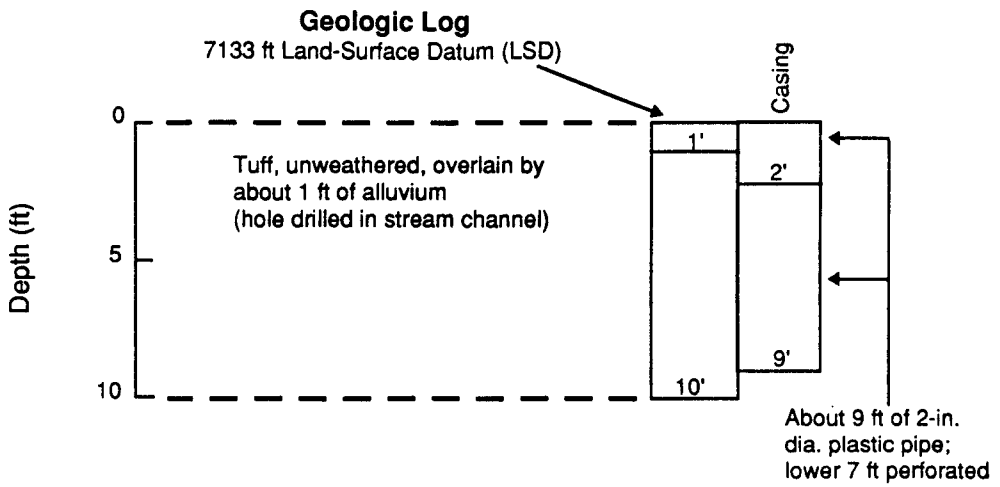


Fig. 8.4-2 Mortandad Canyon observation well MCO-2 (completed November 1960; water level 0.3 ft)

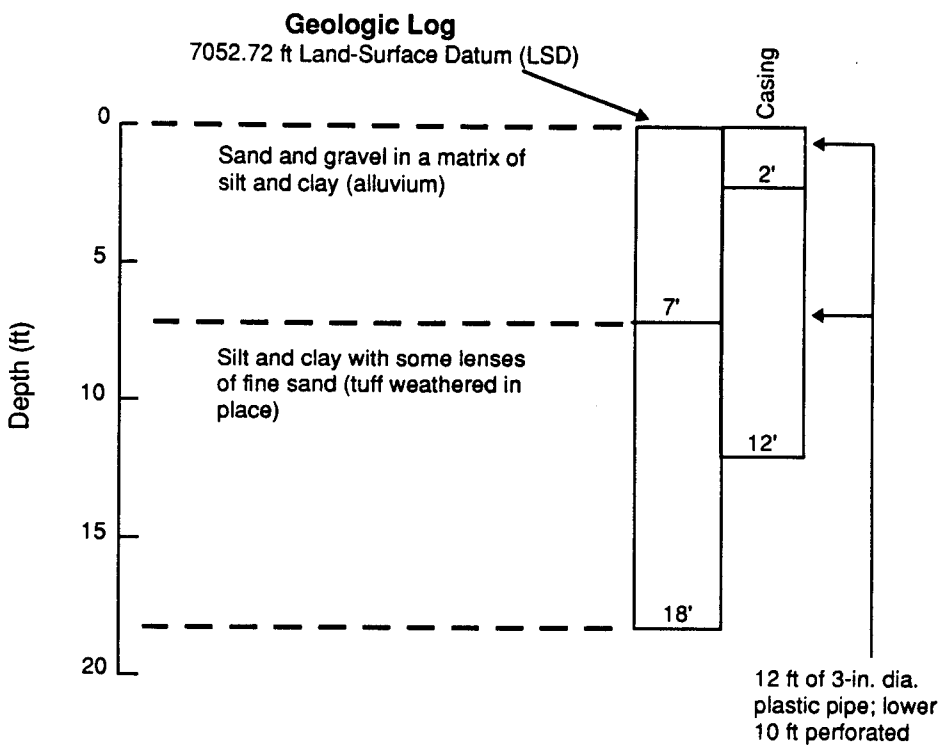


Fig. 8.4-3 Mortandad Canyon observation well MCO-3 (redrilled March 1967 and completed with 3-in. casing, 4.4 ft)

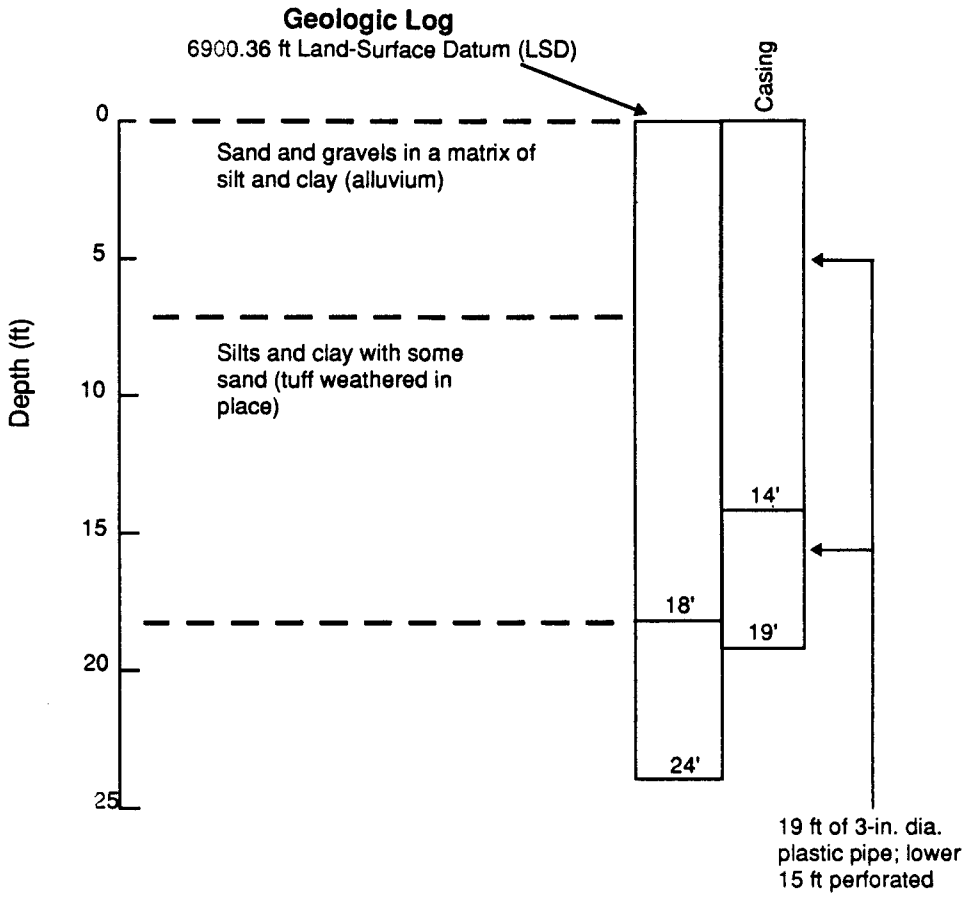


Fig. 8.4-4 Mortandad Canyon observation well MCO-4 (redrilled October 1963, water level 3.3 ft)

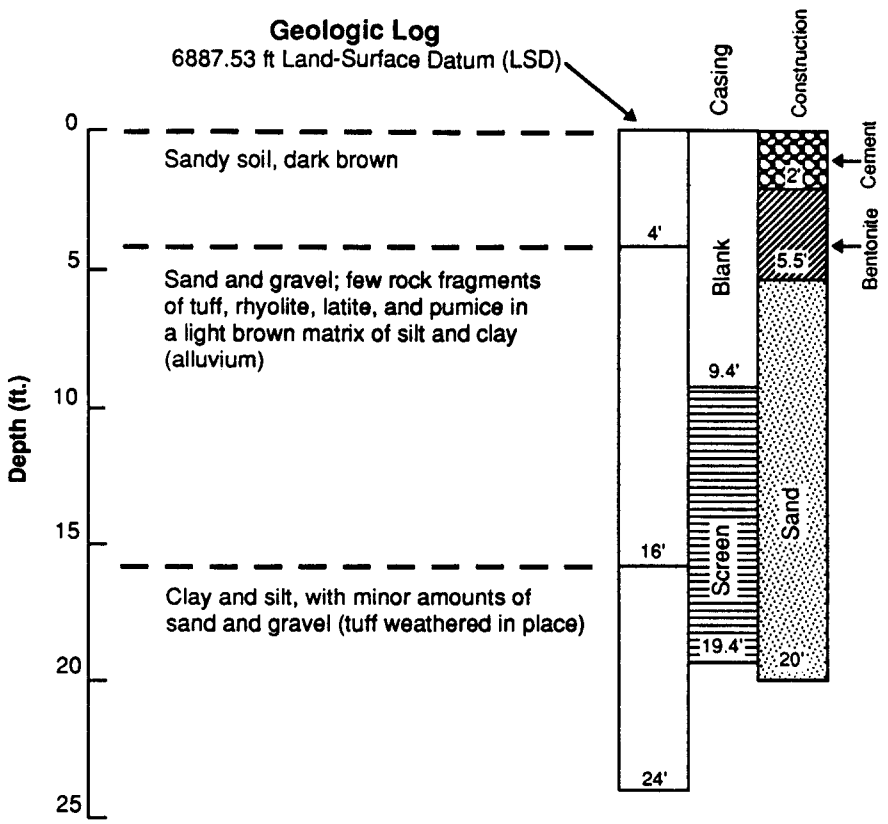


Fig. 8.4-5 Mortandad Canyon observation well MCO-4A (completed November 1, 1989, water level 5 ft)

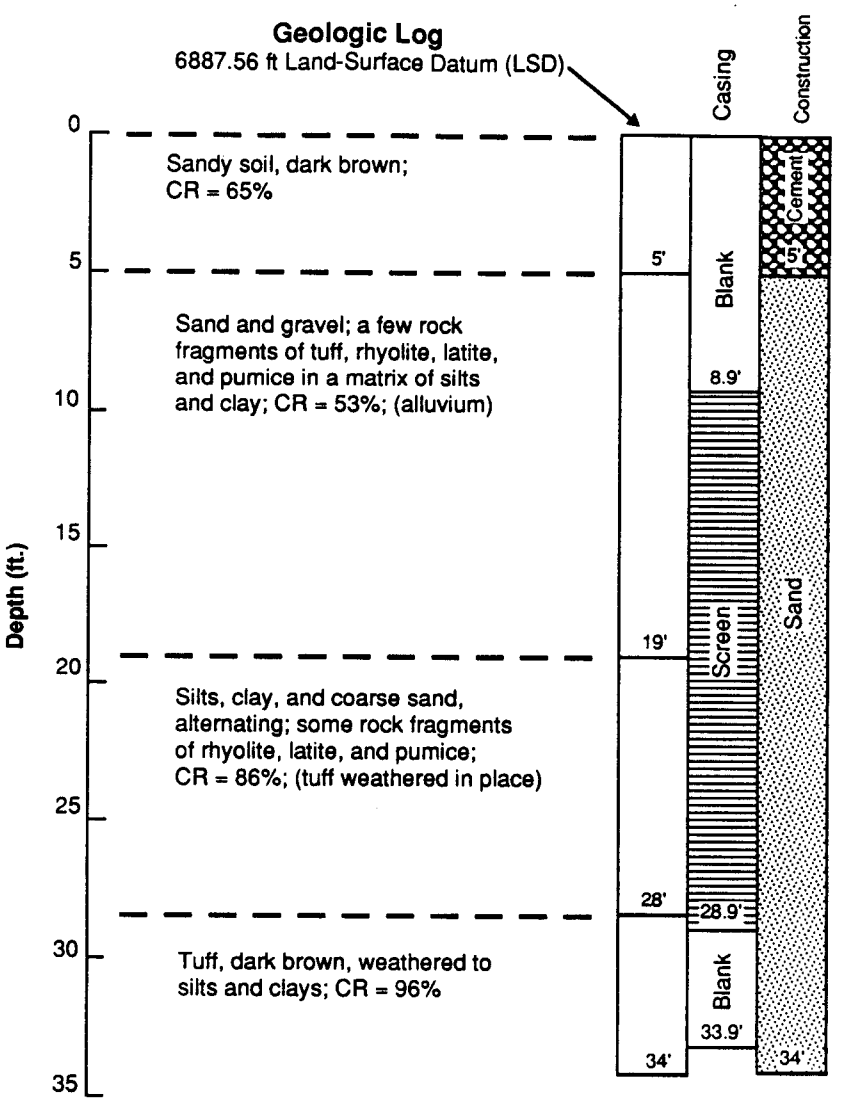


Fig. 8.4-6 Mortandad Canyon observation well MCO-4B (completed August 21, 1990, water level 22 ft)

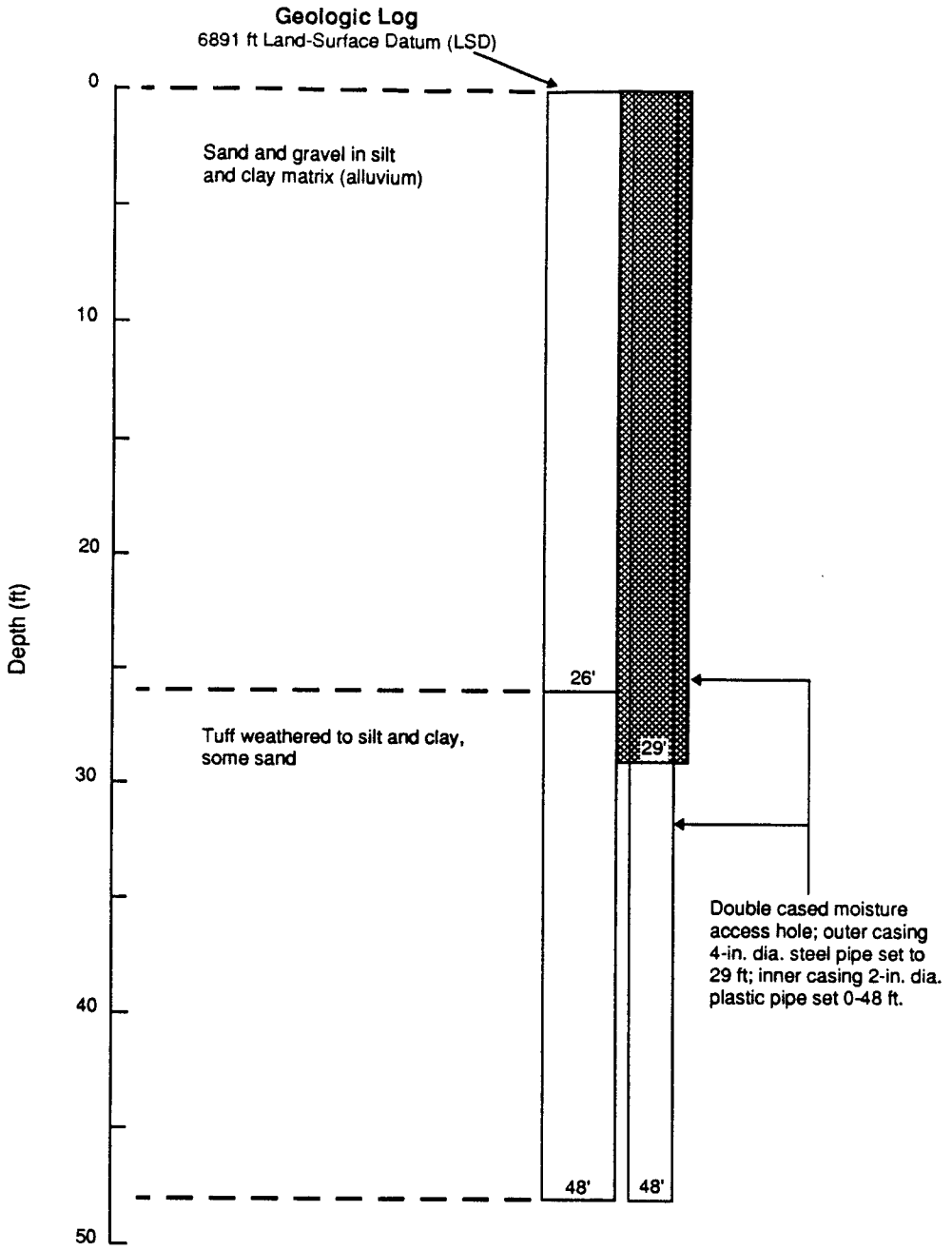


Fig. 8.4-7 Mortandad Canyon test hole MCM-4.5 (completed November 1961; water in alluvium cased out of hole)

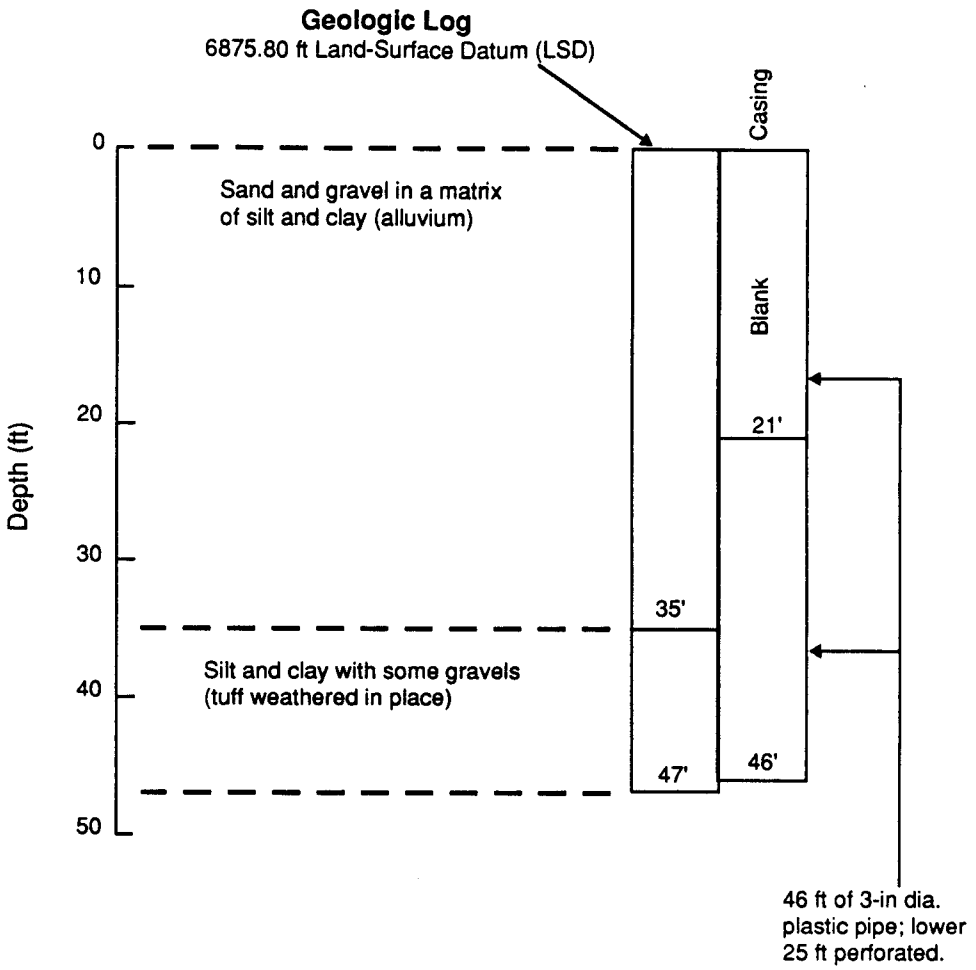


Fig. 8.4-8 Mortandad Canyon observation well MCO-5 (completed October 1960; water level 24.6 ft)

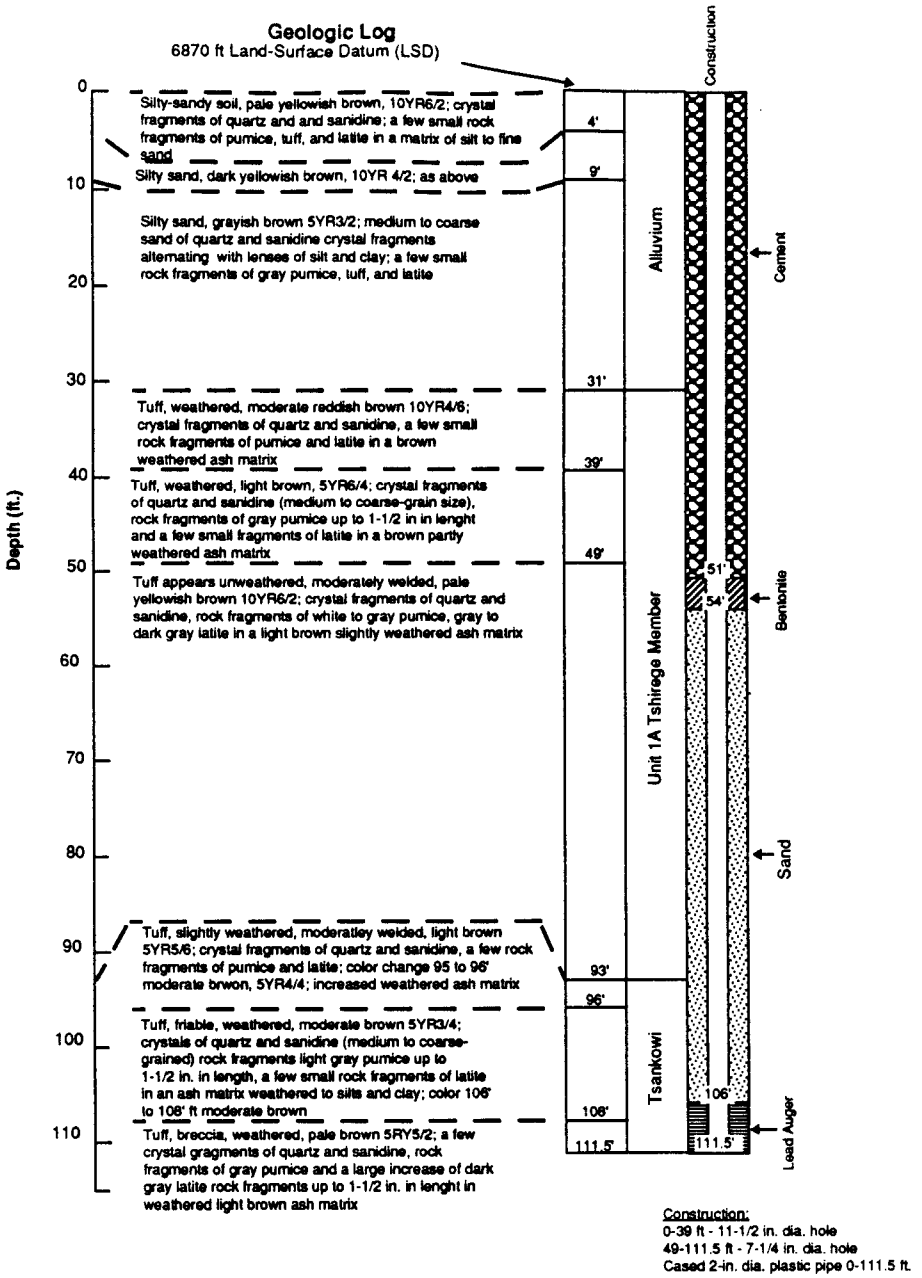


Fig. 8.4-9 Test Hole MCM-5.1 (completed September, 1990, water in alluvium cased out of hole)

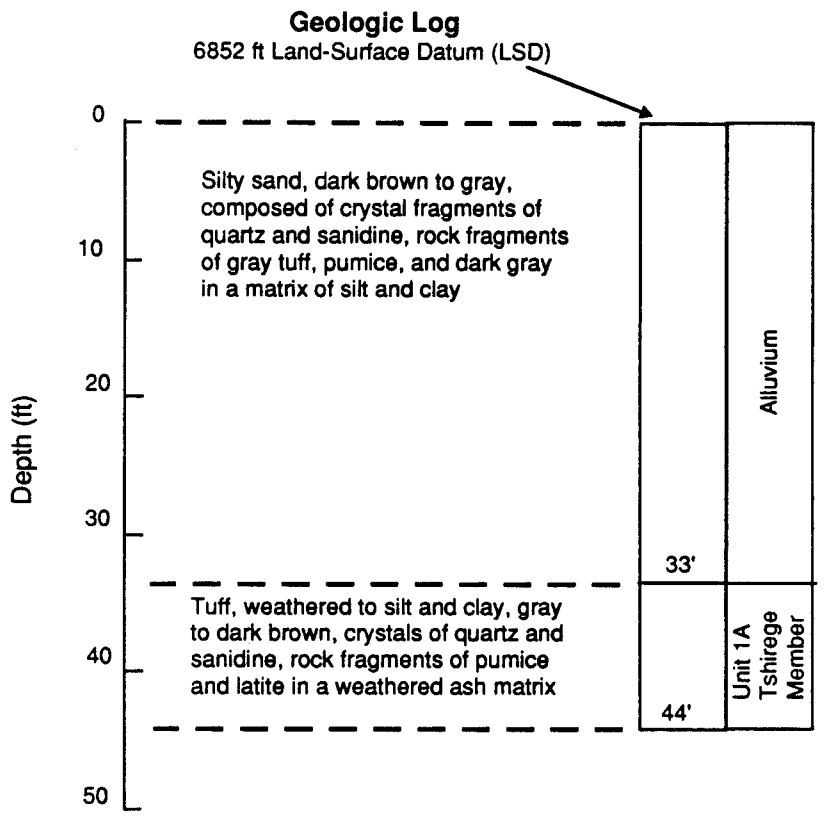


Fig. 8.4-10 Test Hole MCM-5.9 (drilled July 1990, abandoned and plugged)

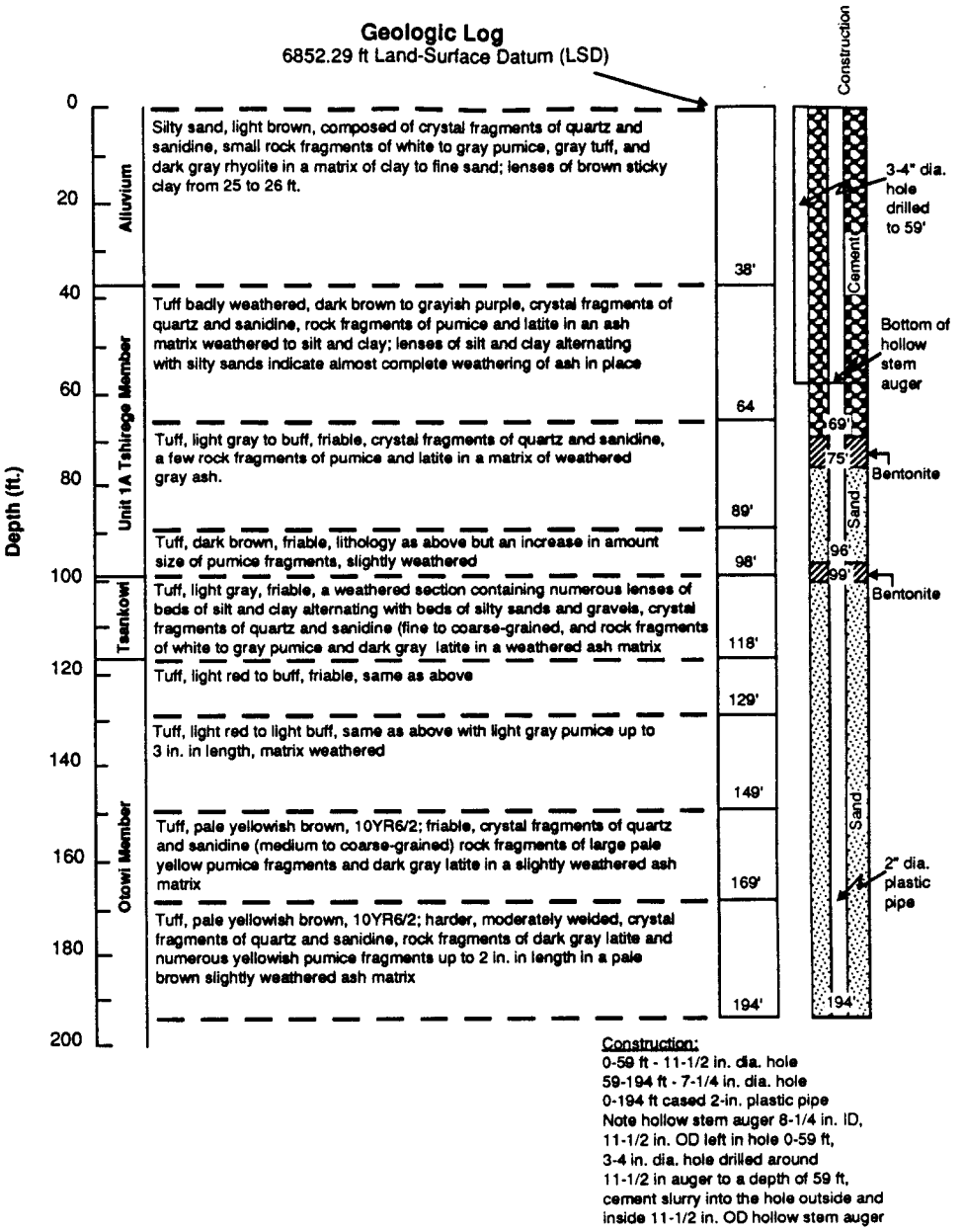


Fig. 8.4-11 Test Hole MCM-5.9A (completed July 1990, water in alluvium cased out of hole)

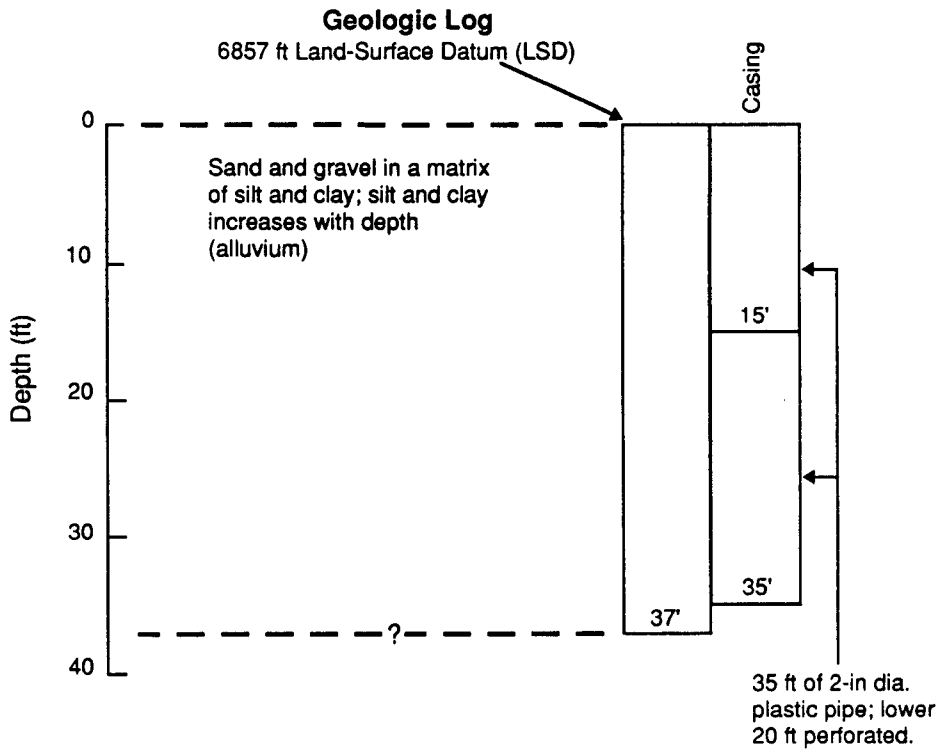


Fig. 8.4-12 Tent Site Canyon observation well TSCO-1 (completed November 1961)

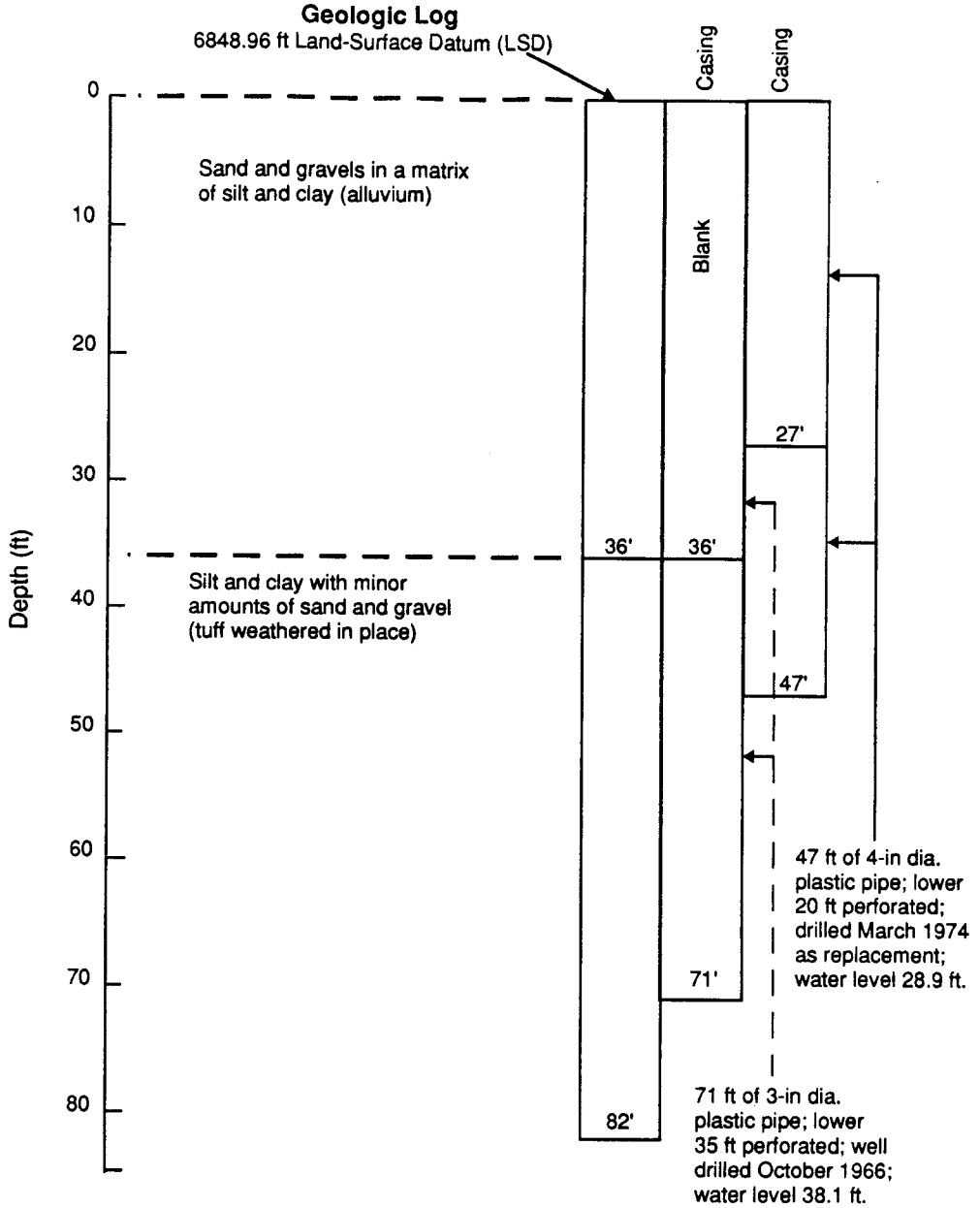


Fig. 8.4-13 Mortandad Canyon observation well MCO-6 (completed October 1960; replaced March 1974)

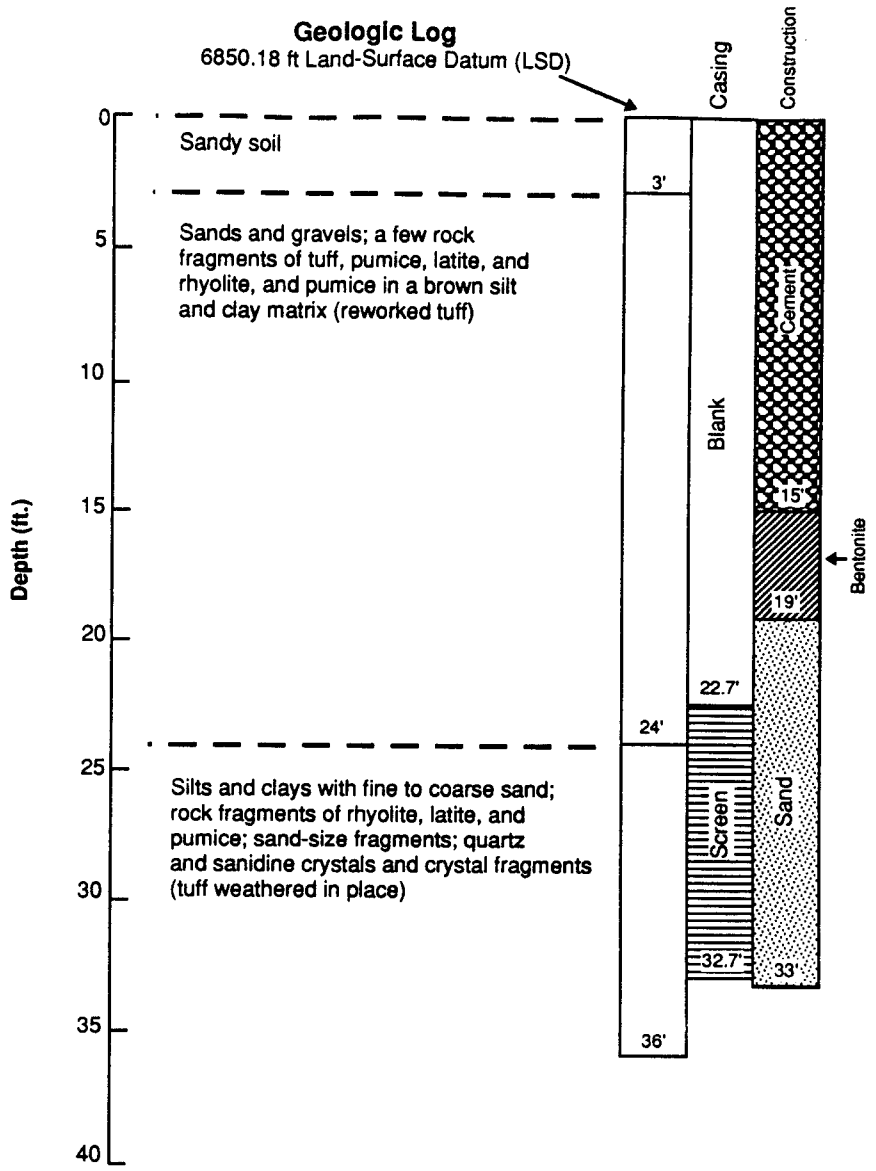


Fig. 8.4-14 Mortandad Canyon observation well MCO-6A (completed November 6, 1989, water level 30 ft)

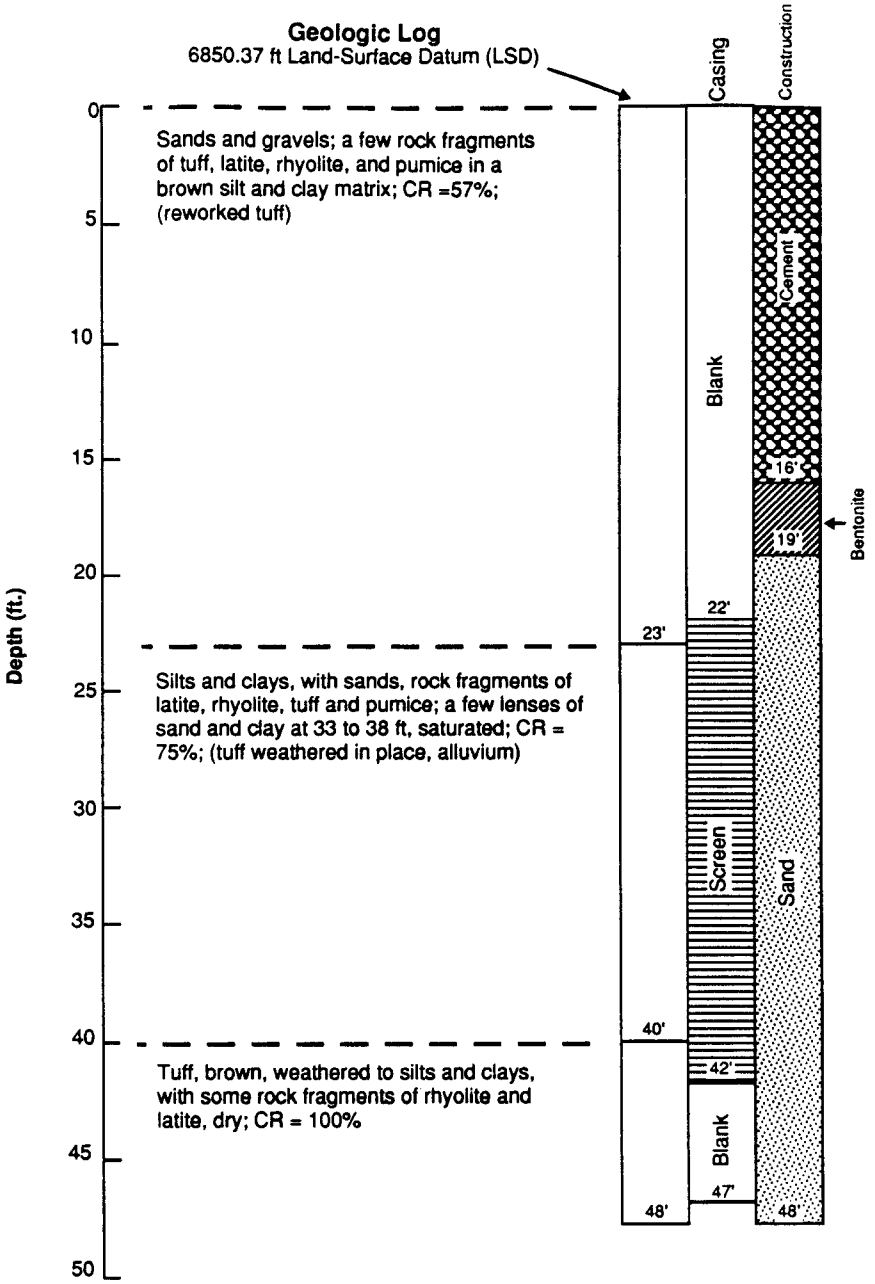


Fig. 8.4-15 Mortandad Canyon observation well MCO-6B (completed August 13, 1990, water level 33 ft)

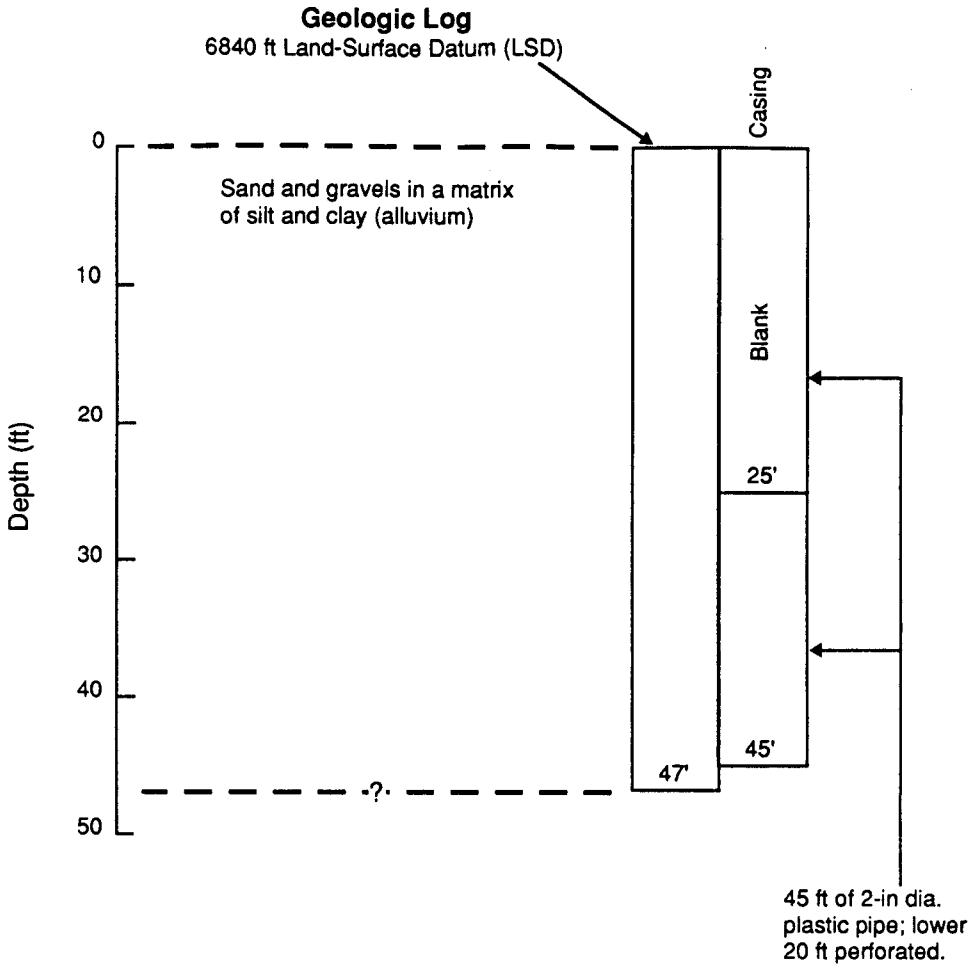


Fig. 8.4-16 Mortandad Canyon observation well MCO-6.5A (completed November 1961; water level 41.0 ft)

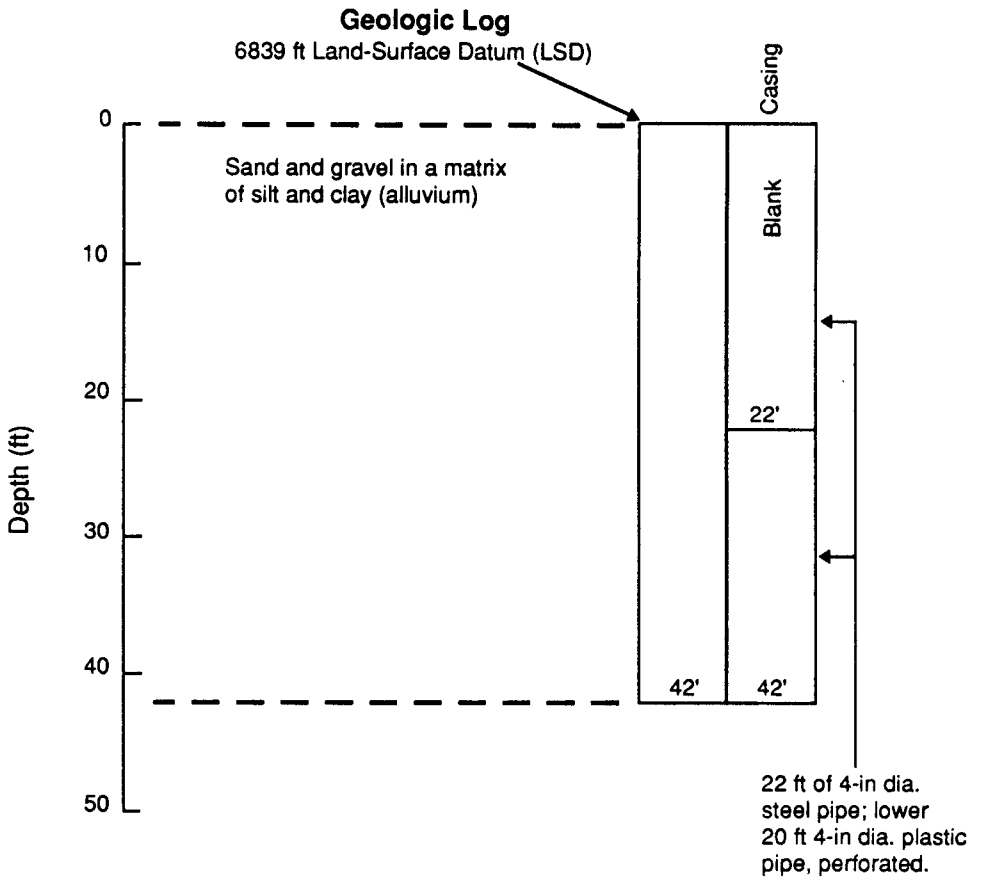


Fig. 8.4-17 Mortandad Canyon observation well MCO-6.5B (completed November 1961; water level 36.3 ft)

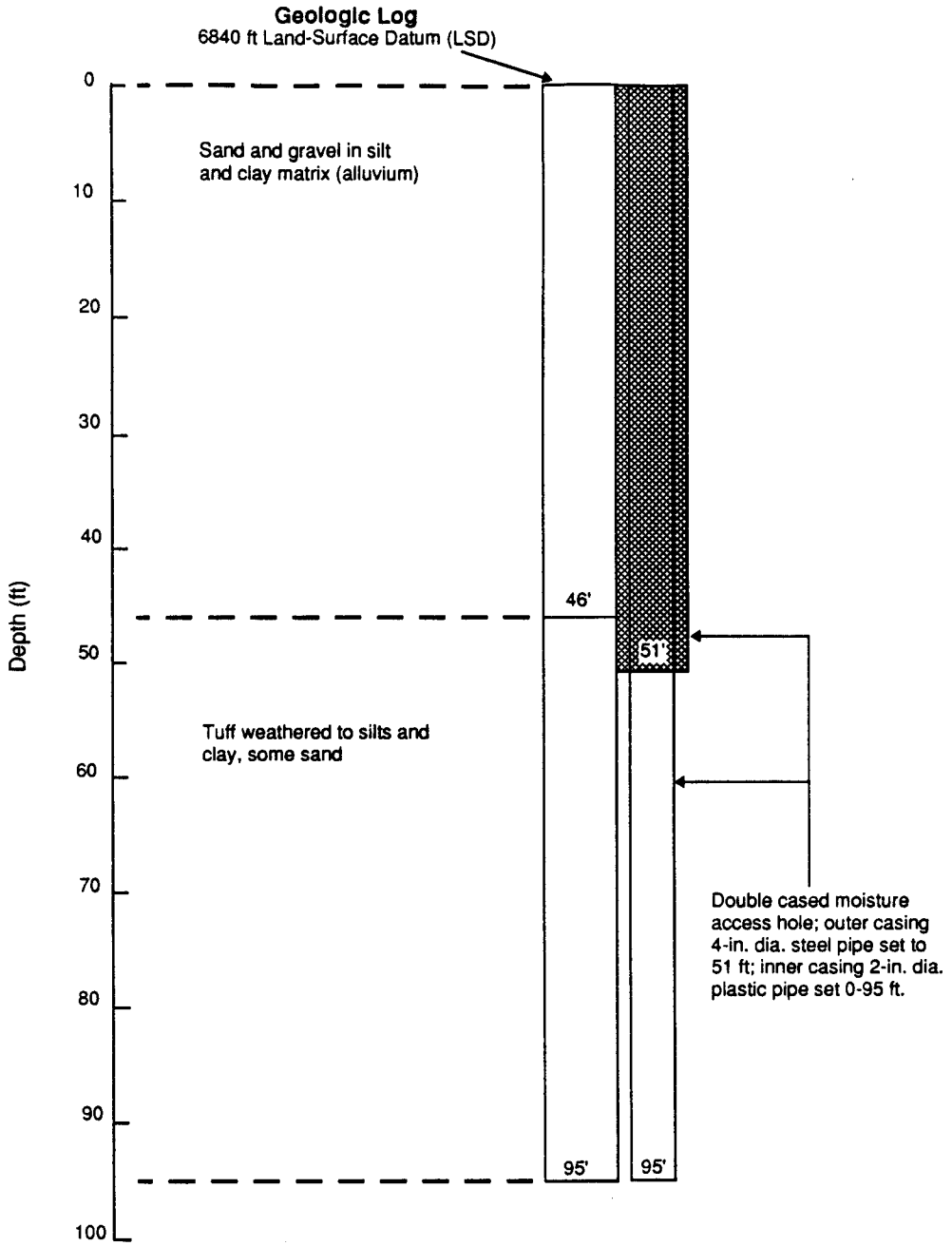


Fig. 8.4-18 Mortandad Canyon test hole MCM-6.5 (completed November 1961; water in alluvium cased out of hole)

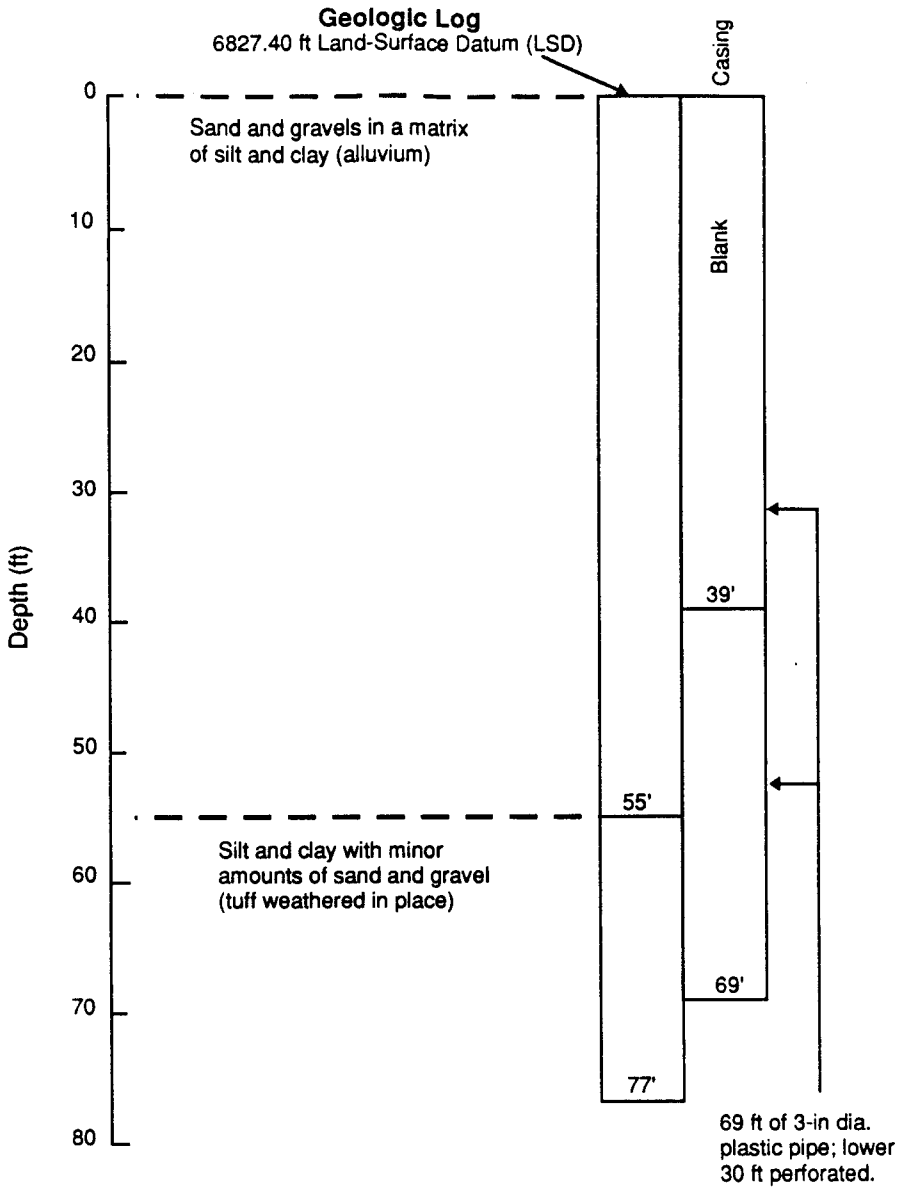


Fig. 8.4-19 Mortandad Canyon observation well MCO-7 (completed October 1960; water level 39.7 ft.

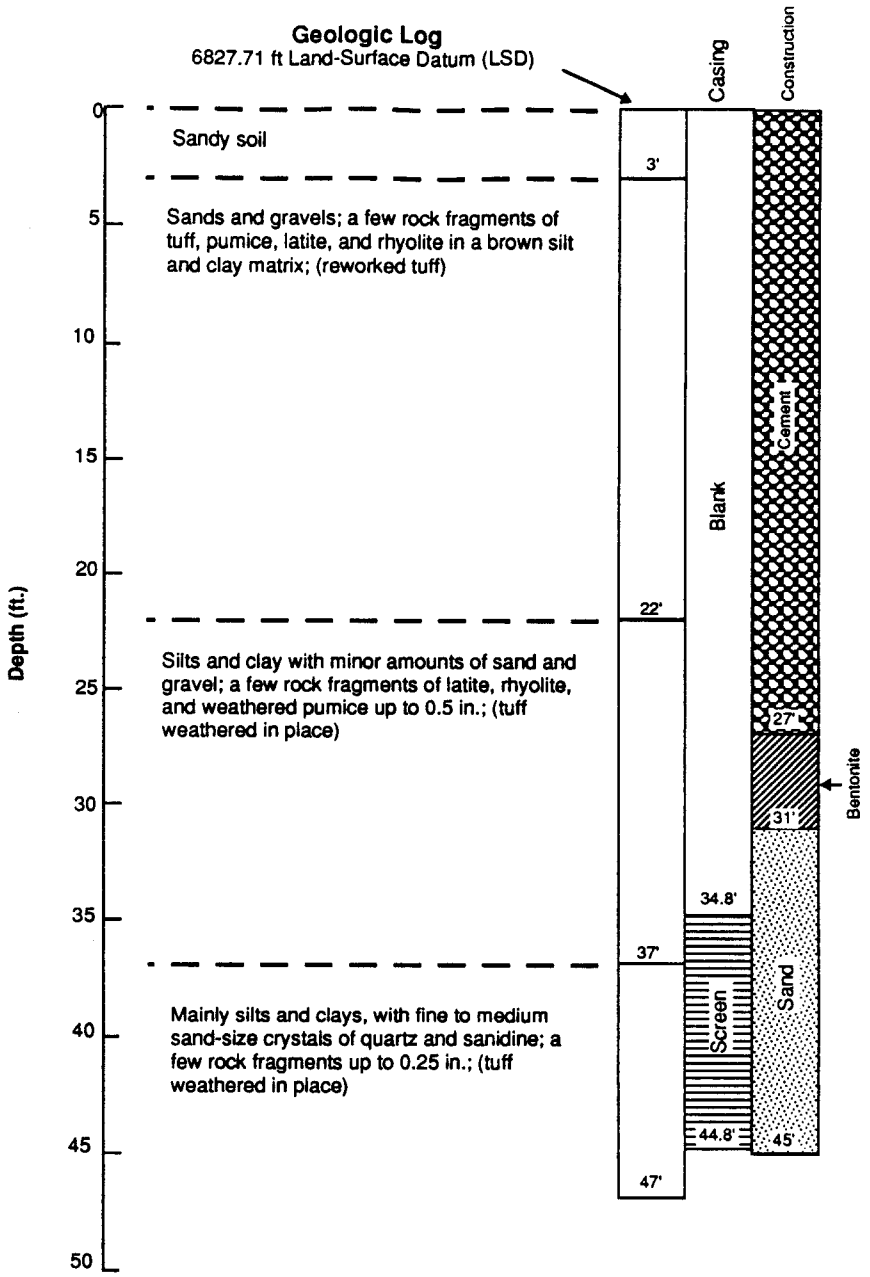


Fig. 8.4-20 Mortandad Canyon observation well MCO-7A (completed November 14, 1989, water level 35 ft)

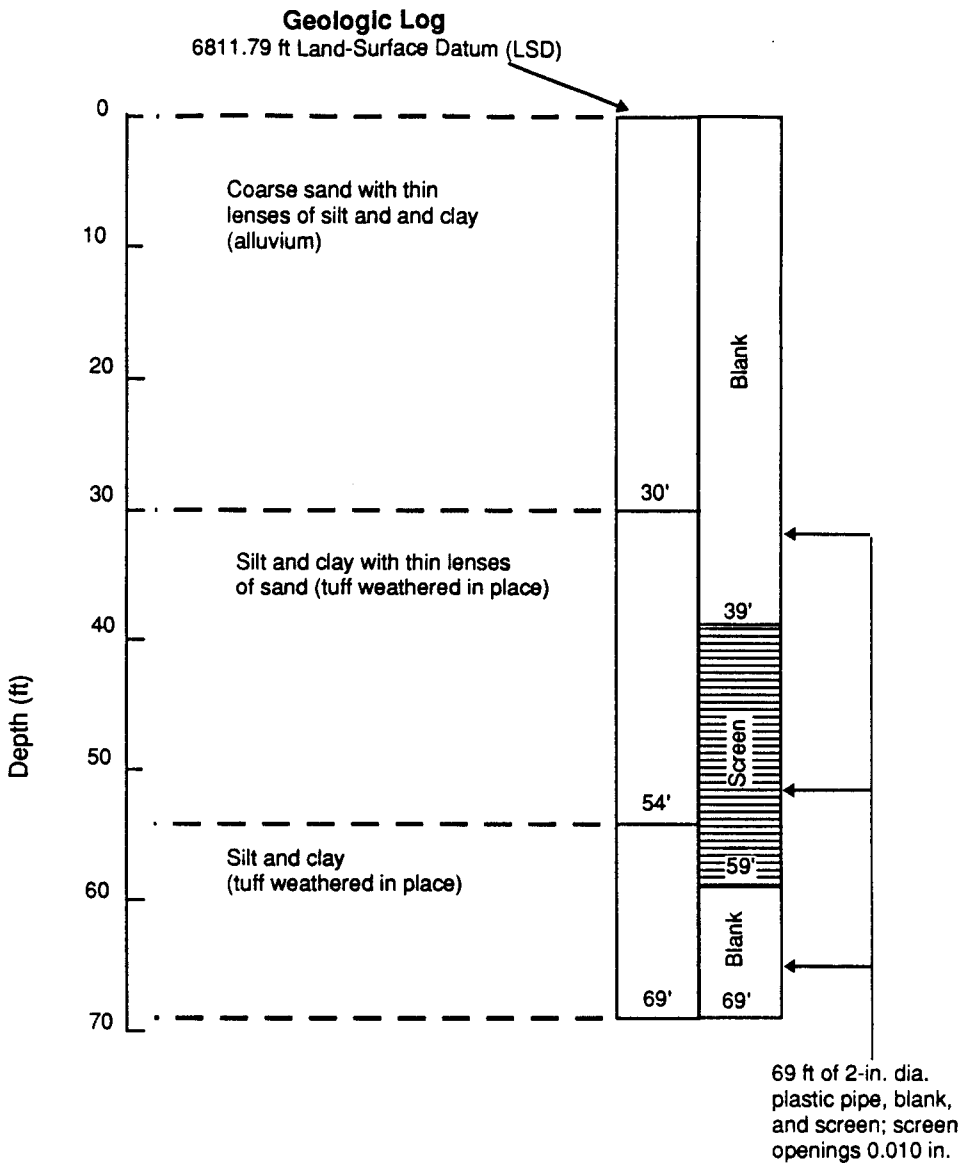


Fig. 8.4-21 Mortandad Canyon test hole MT-1 (completed November 1988; water level 43.0 ft)

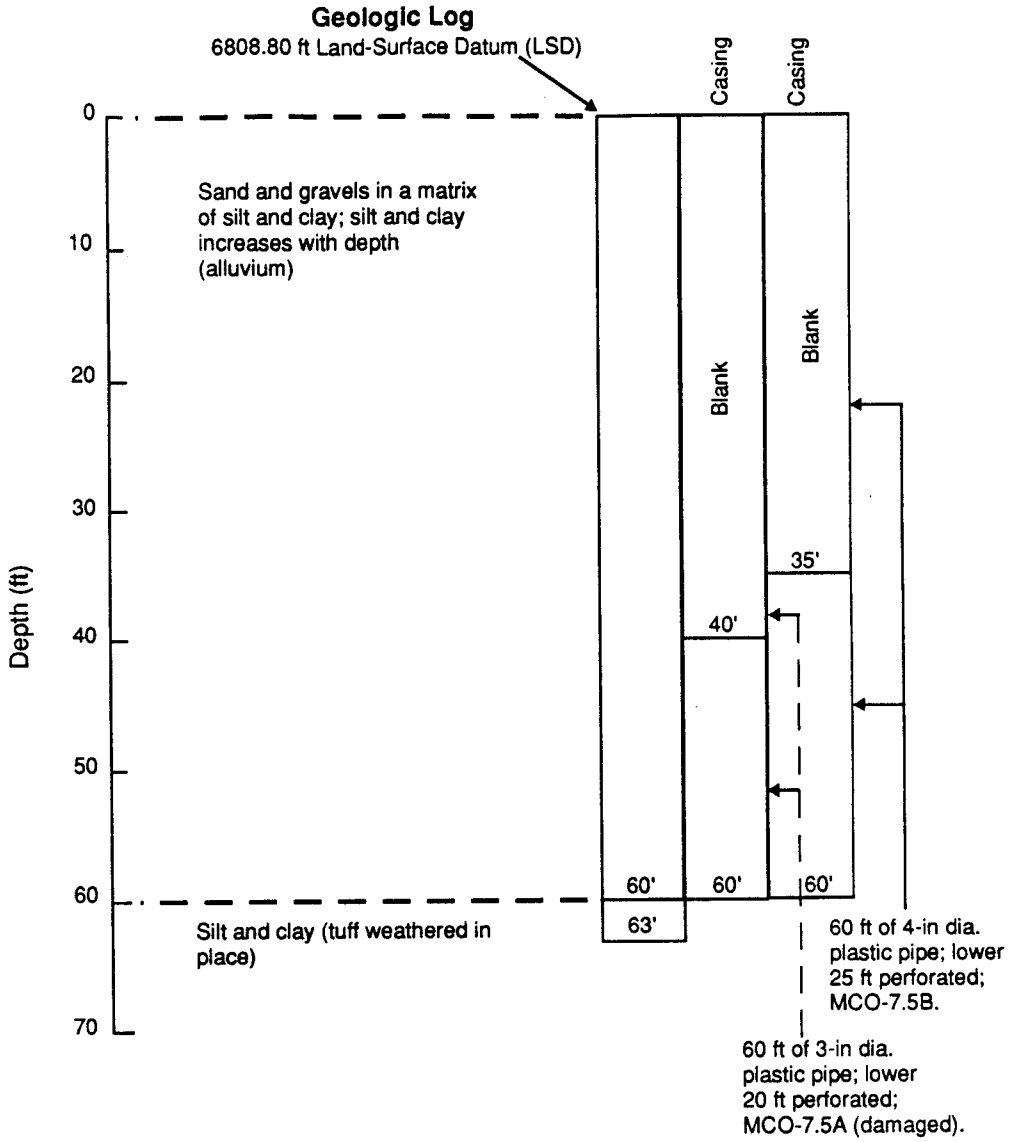


Fig. 8.4-22 Mortandad Canyon observation well MCO-7.5A (damaged) and adjacent well MCO-7.5B (completed November 1961, water level 41.2 ft; April 1974, water level 42.1 ft)

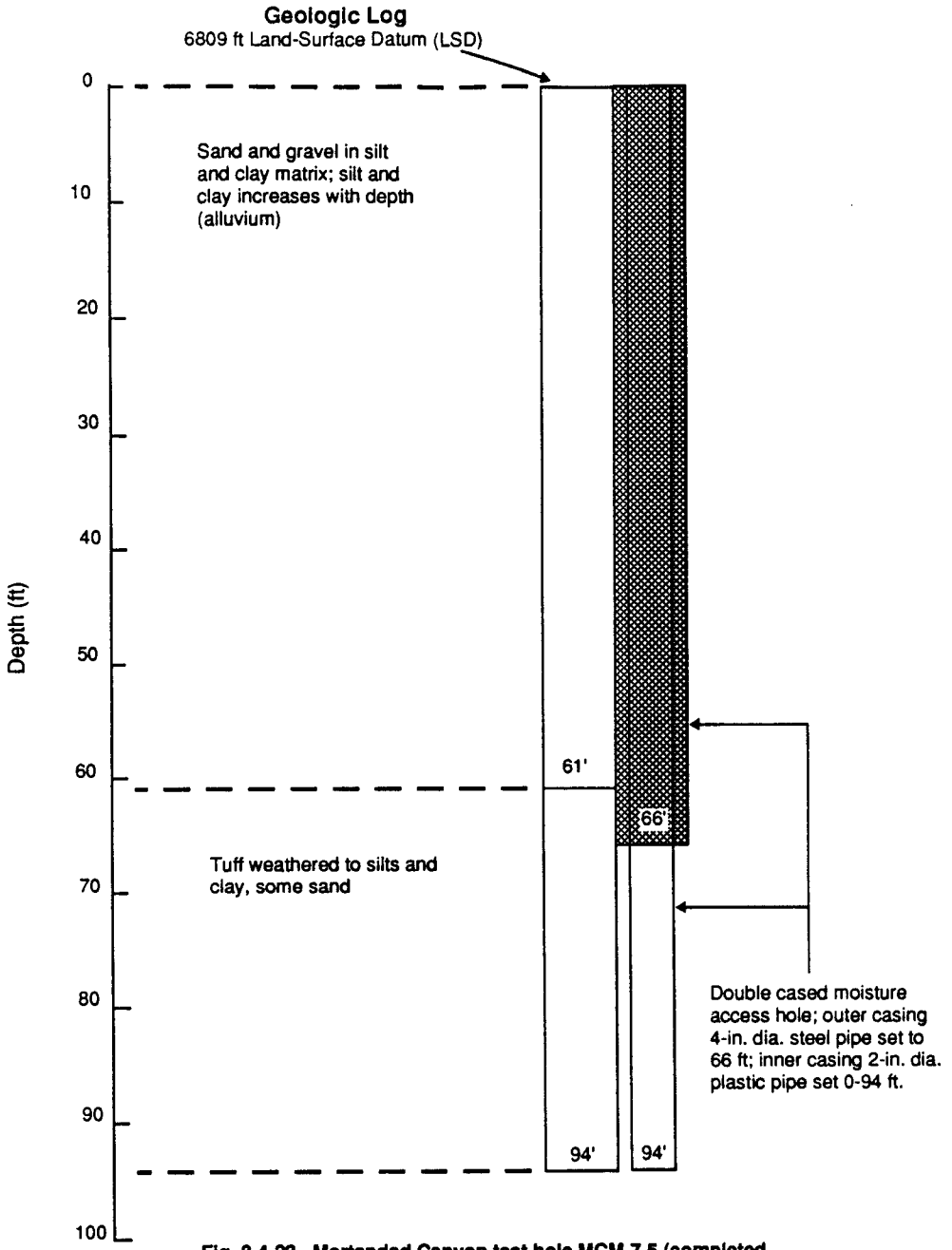


Fig. 8.4-23 Mortandad Canyon test hole MCM-7.5 (completed November 1961; water in alluvium cased out of hole)

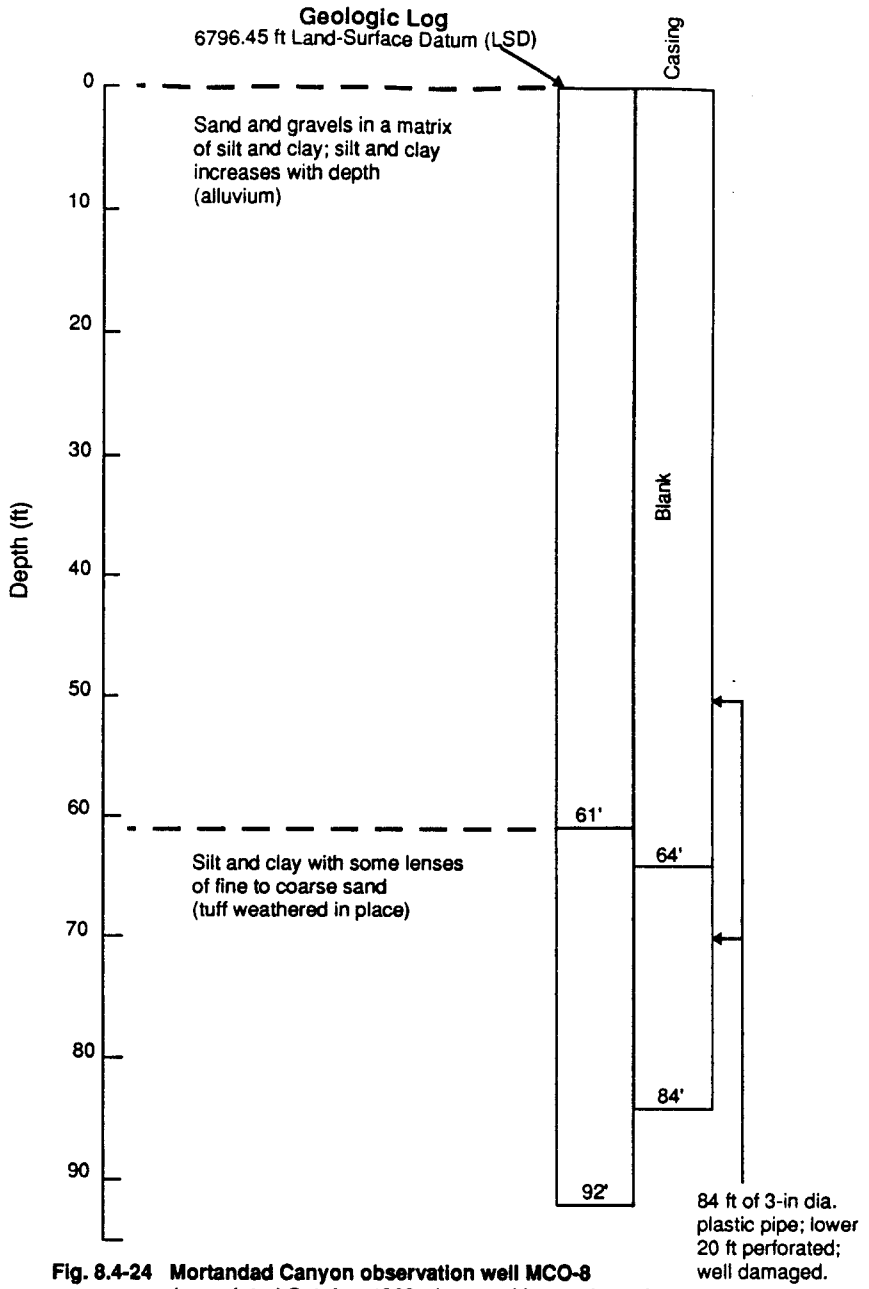


Fig. 8.4-24 Mortandad Canyon observation well MCO-8 (completed October 1960; damaged beyond repair, November 1976; 1960 water level 61.6 ft)

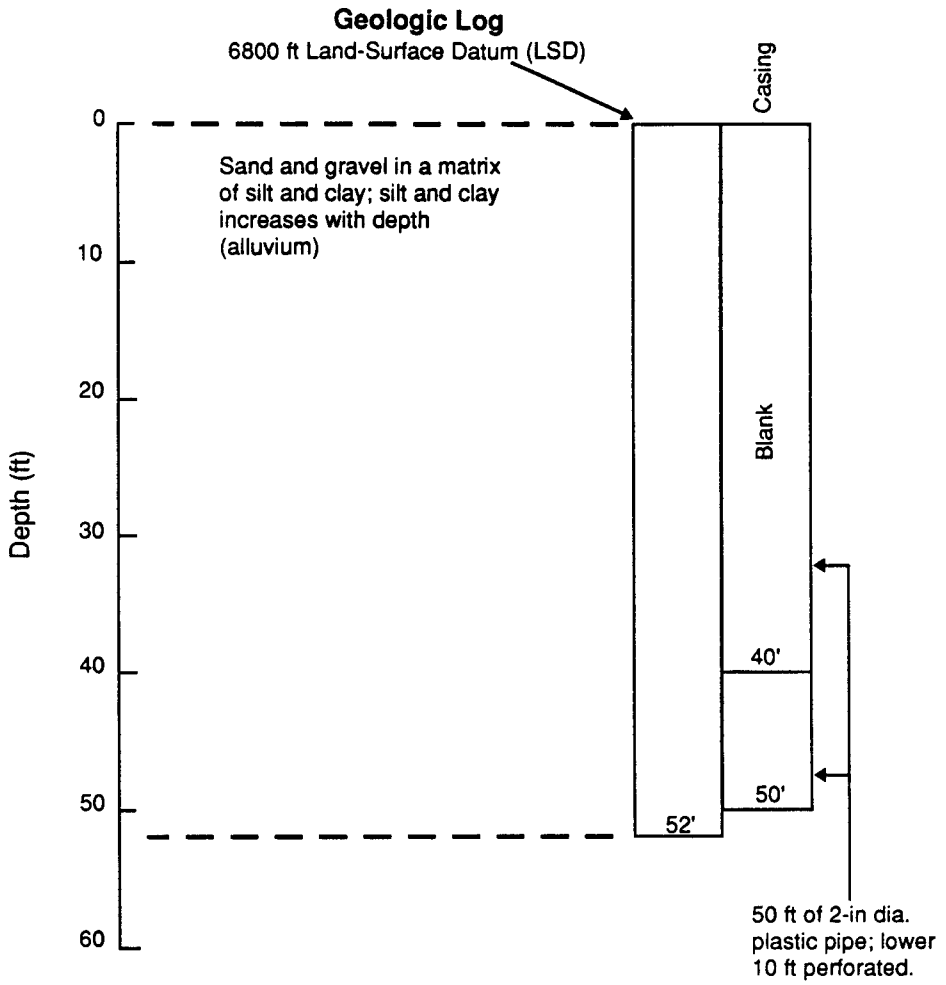


Fig. 8.4-25 Mortandad Canyon observation well MCO-8A (completed November 1961; dry)

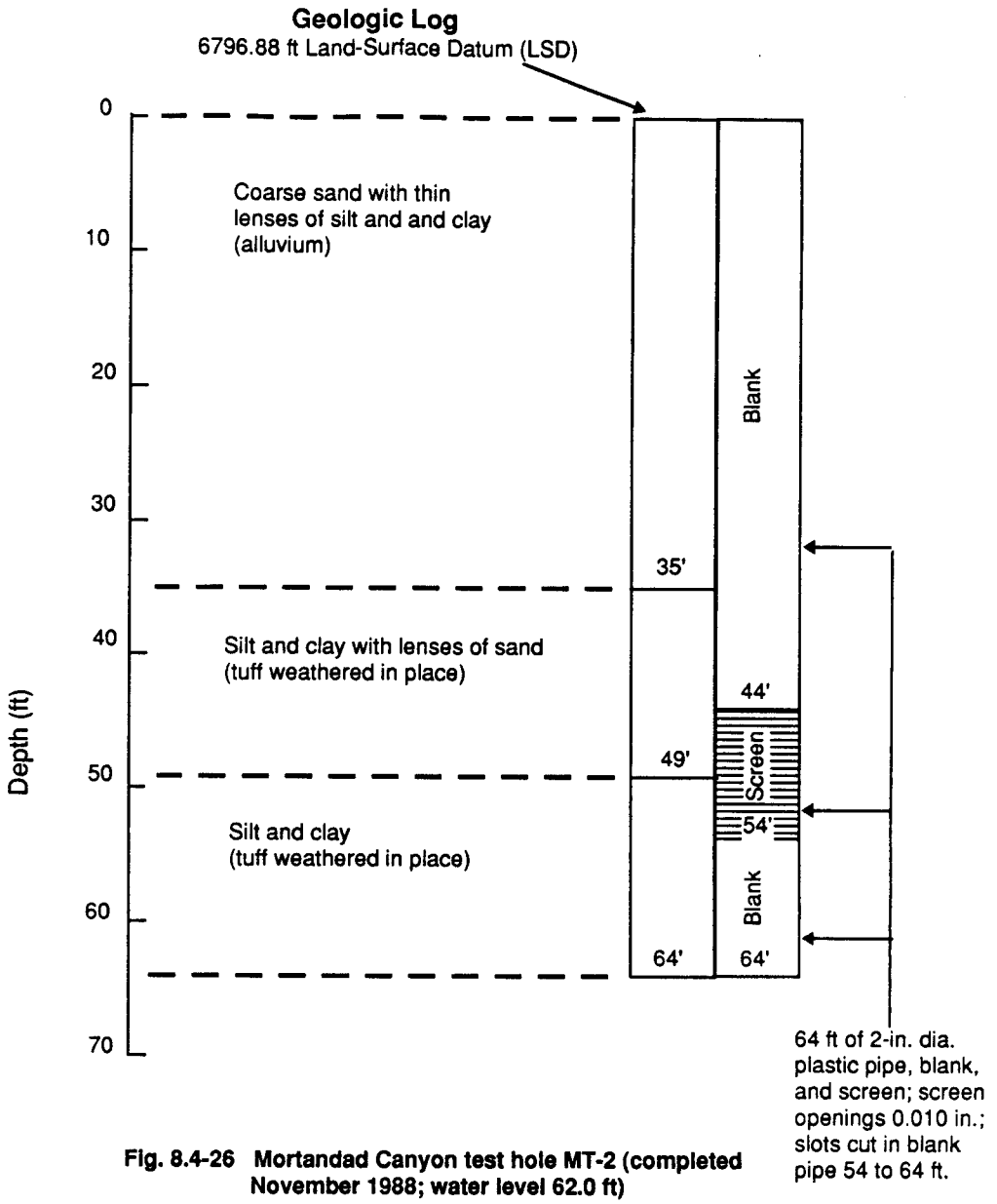


Fig. 8.4-26 Mortandad Canyon test hole MT-2 (completed November 1988; water level 62.0 ft)

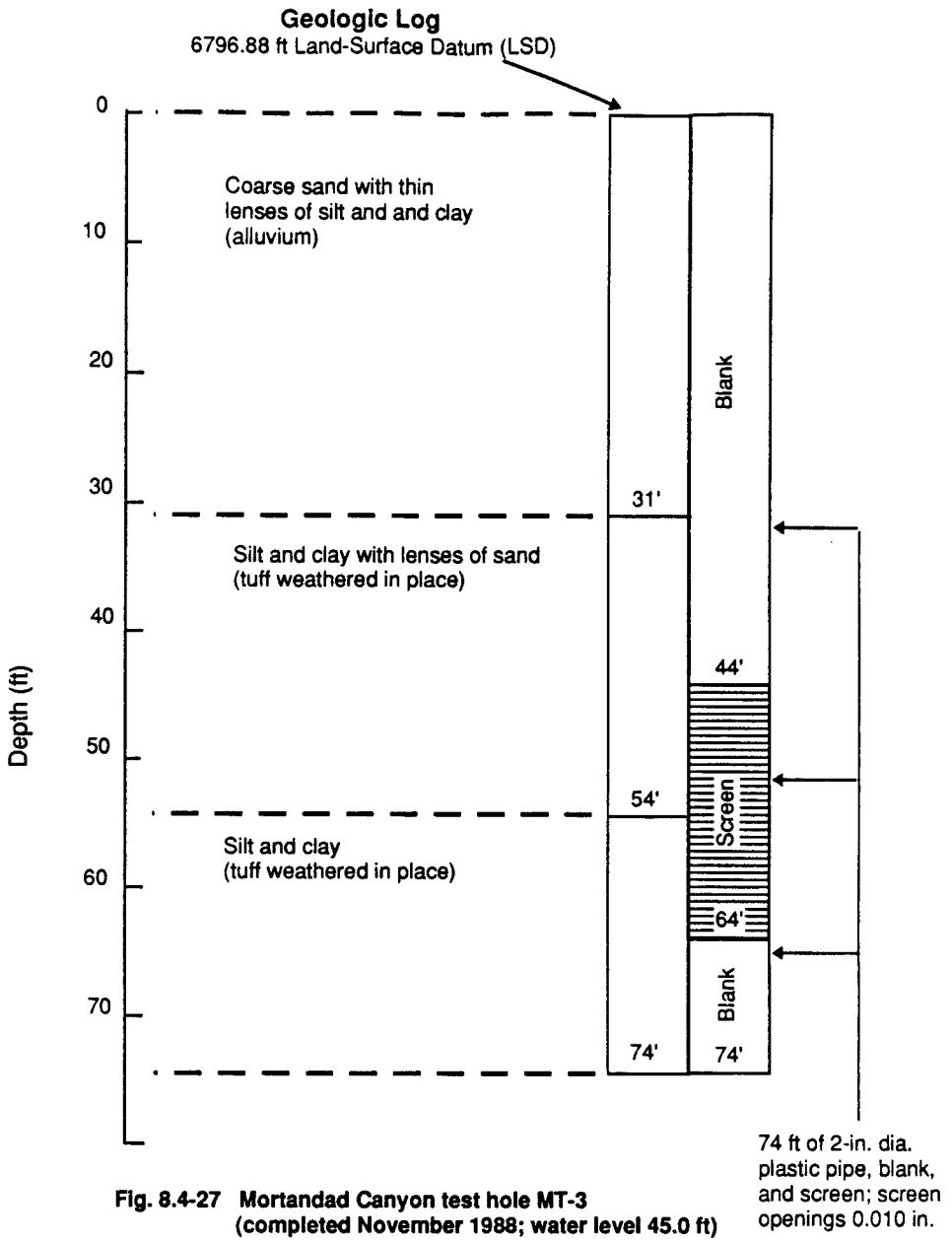


Fig. 8.4-27 Mortandad Canyon test hole MT-3 (completed November 1988; water level 45.0 ft)

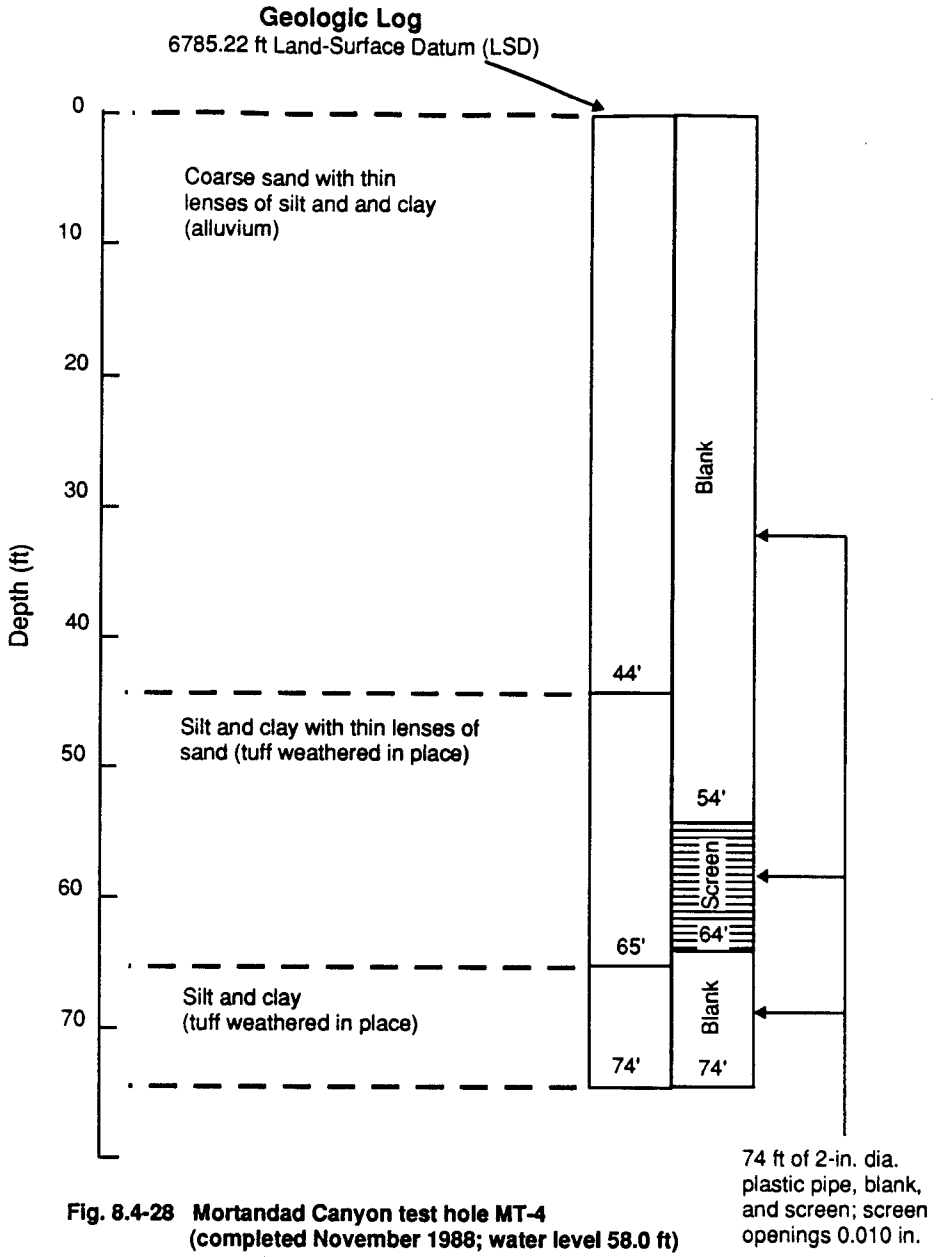


Fig. 8.4-28 Mortandad Canyon test hole MT-4 (completed November 1988; water level 58.0 ft)

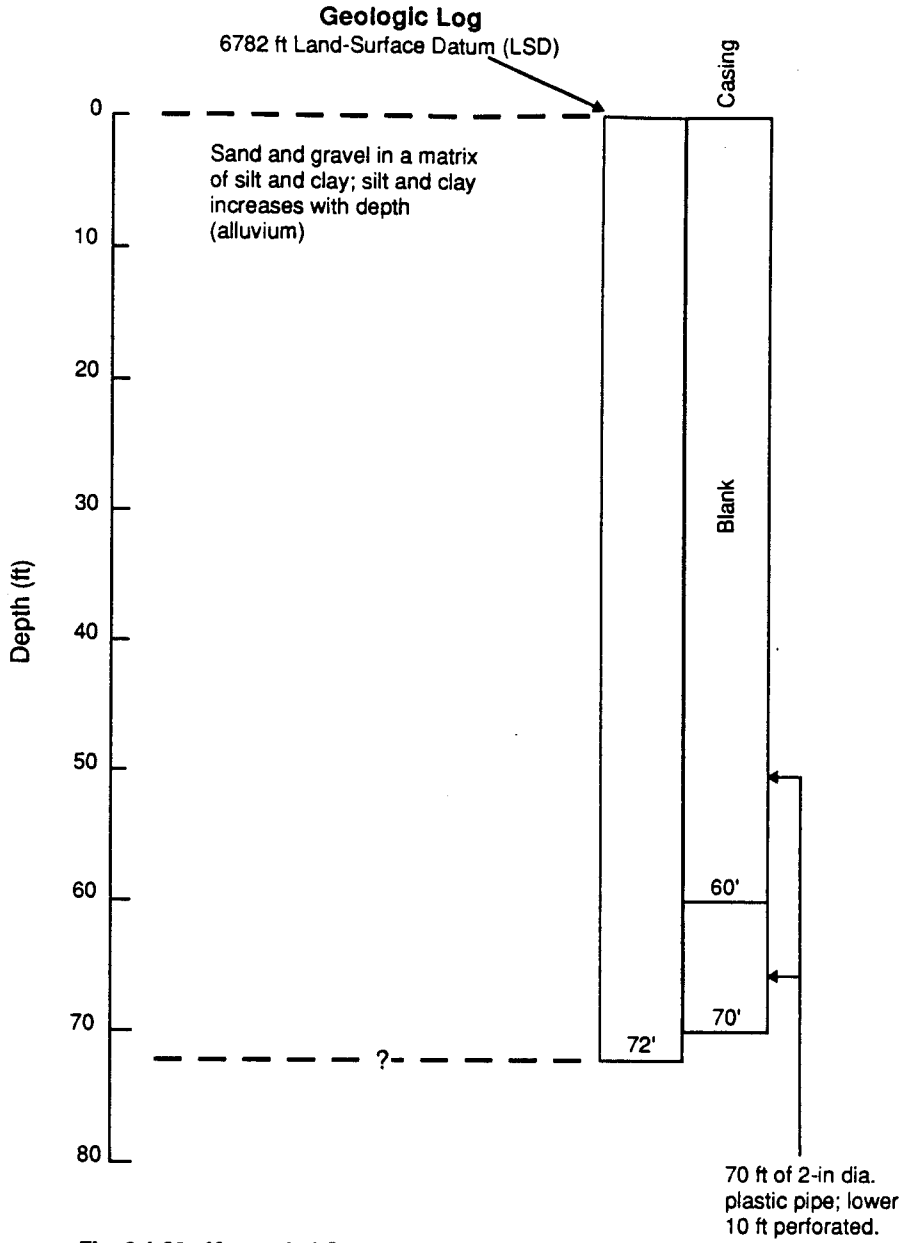


Fig. 8.4-29 Mortandad Canyon observation well MCO-8.2 (completed November 1961; water level 59.2 ft)

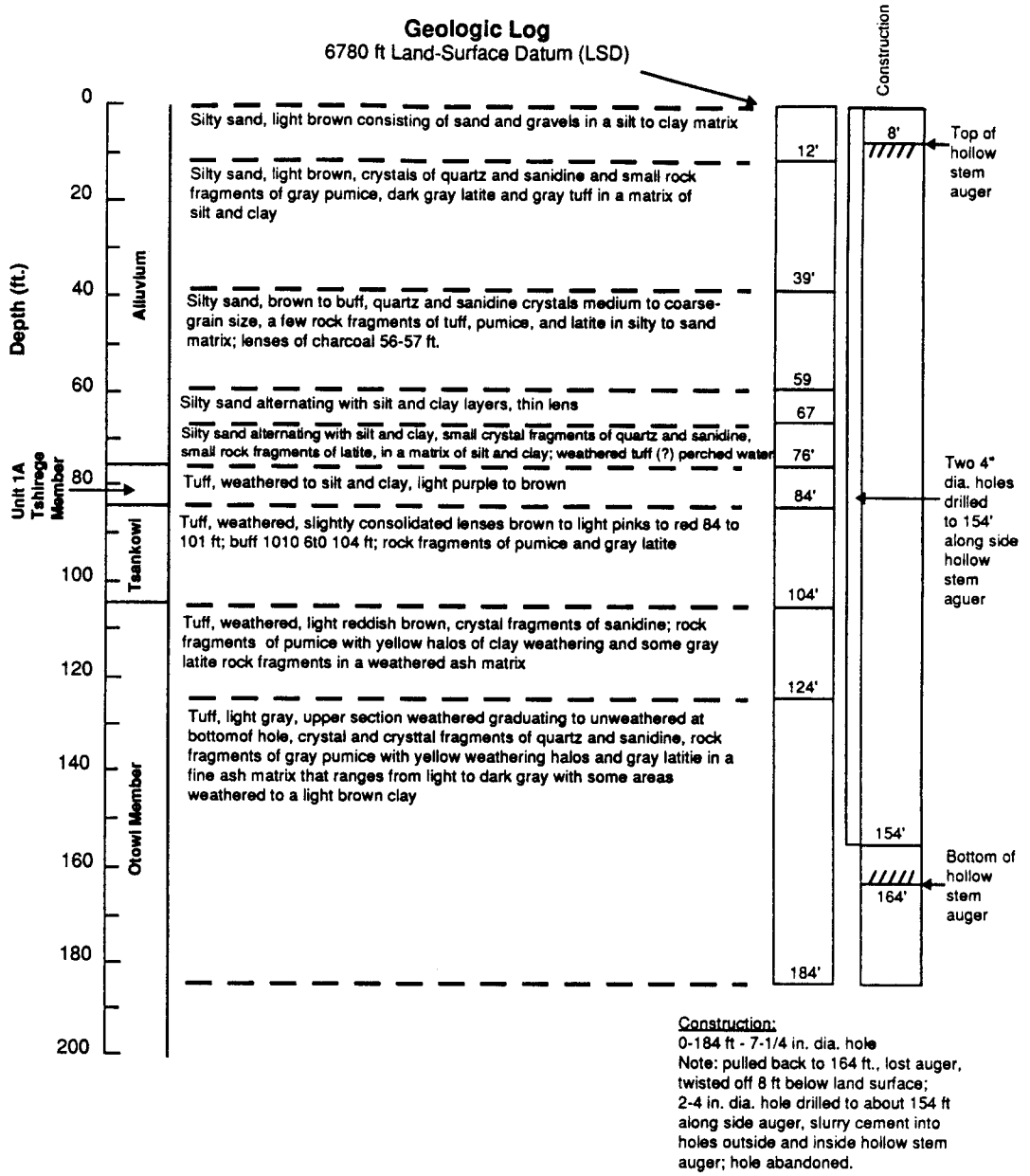


Fig. 8.4-30 Test Hole MCC-8.2 (core hole test, April 1989, water level about 73 ft)

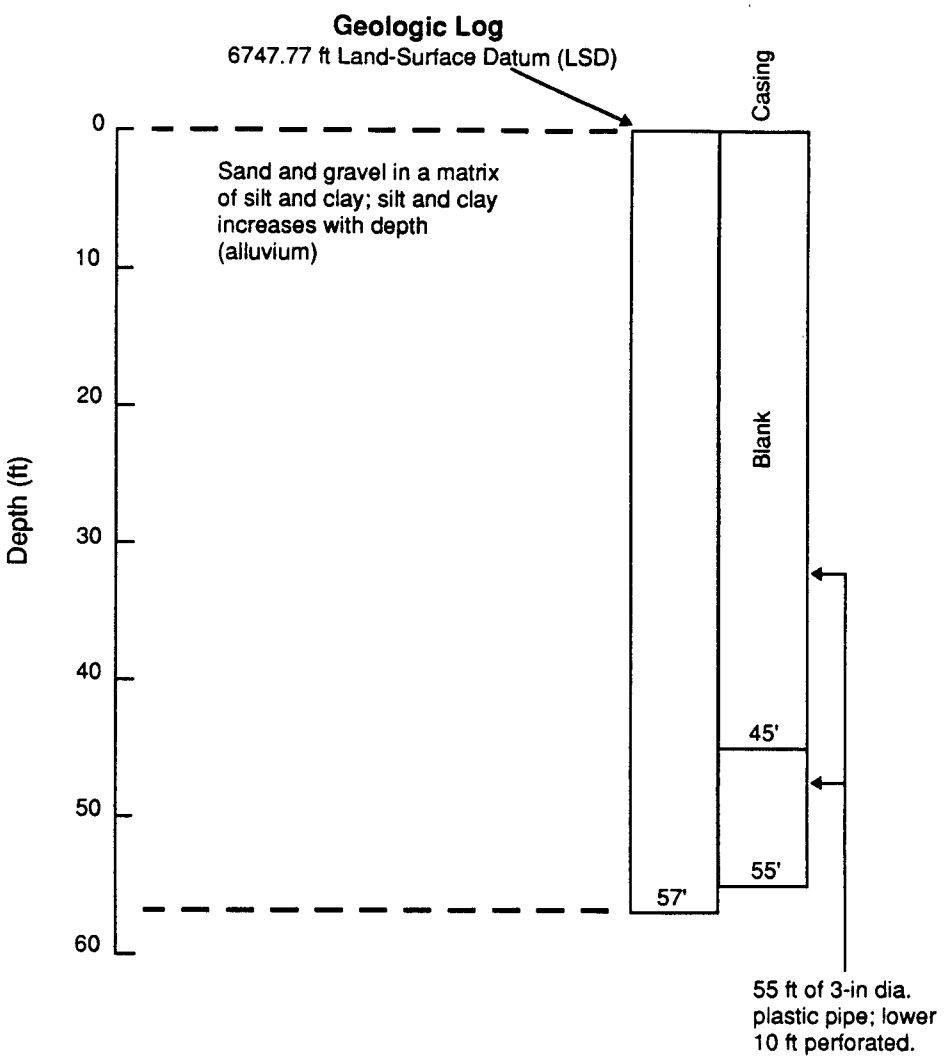


Fig. 8.4-31 Mortandad Canyon observation well MCO-9 (completed November 1961; dry)

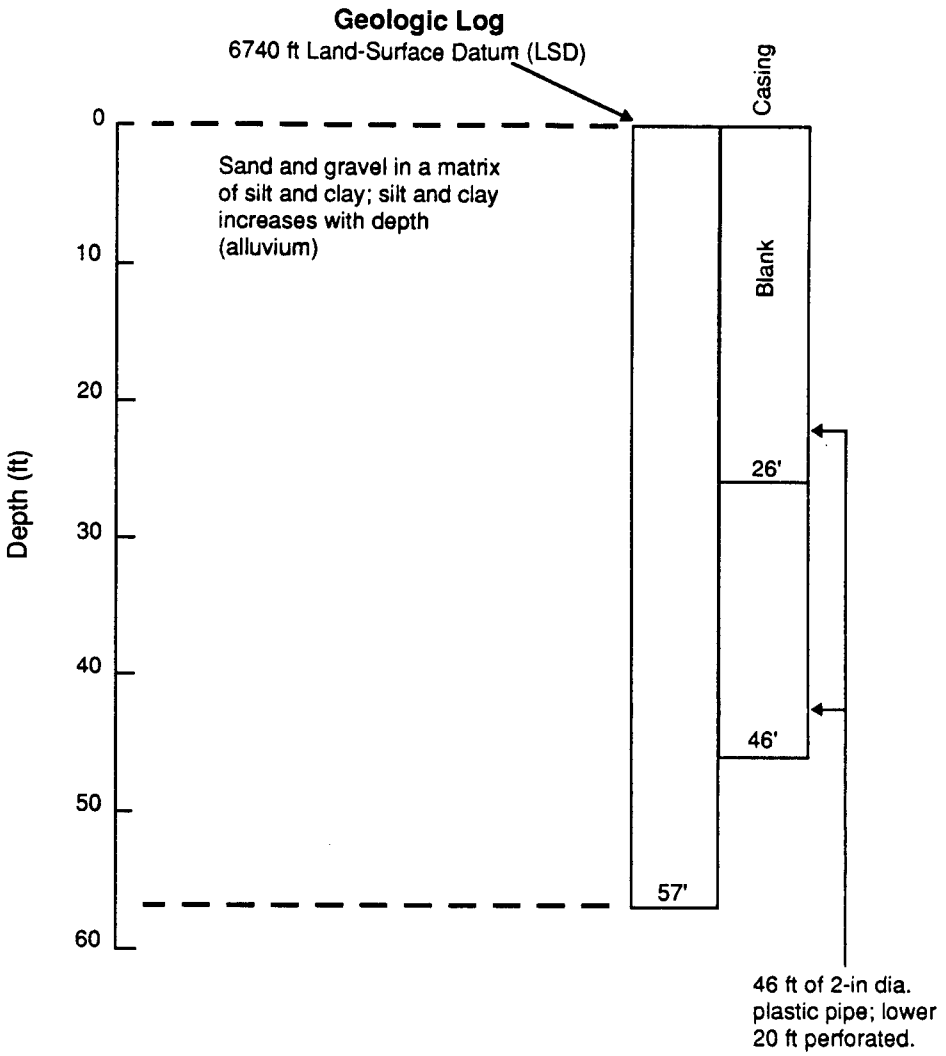


Fig. 8.4-32 Mortandad Canyon observation well MCO-9.5 (completed November 1961; dry)

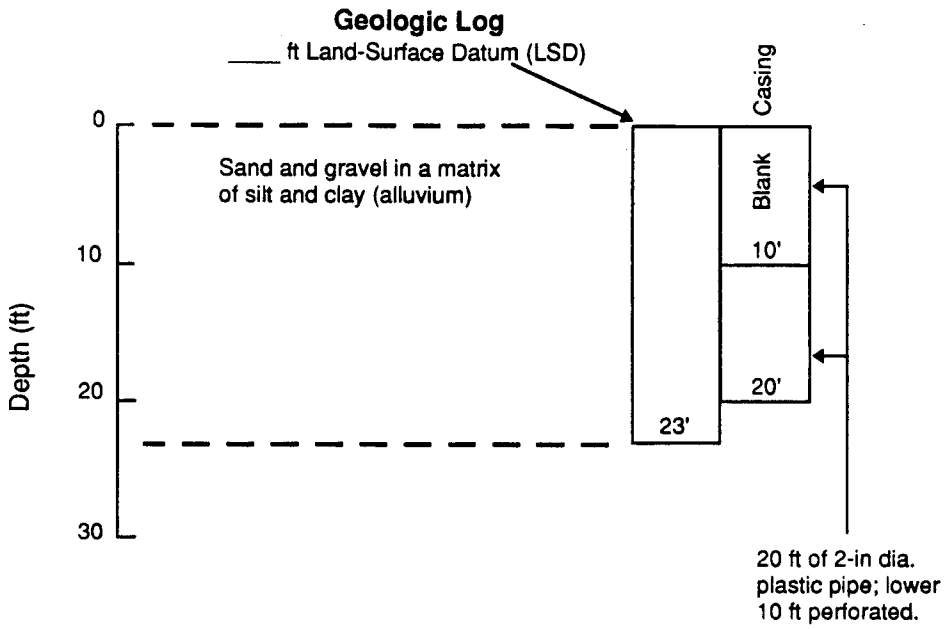


Fig. 8.4-33 Mortandad Canyon observation well MCO-11 (completed November 1961; dry; unable to locate 2-91)

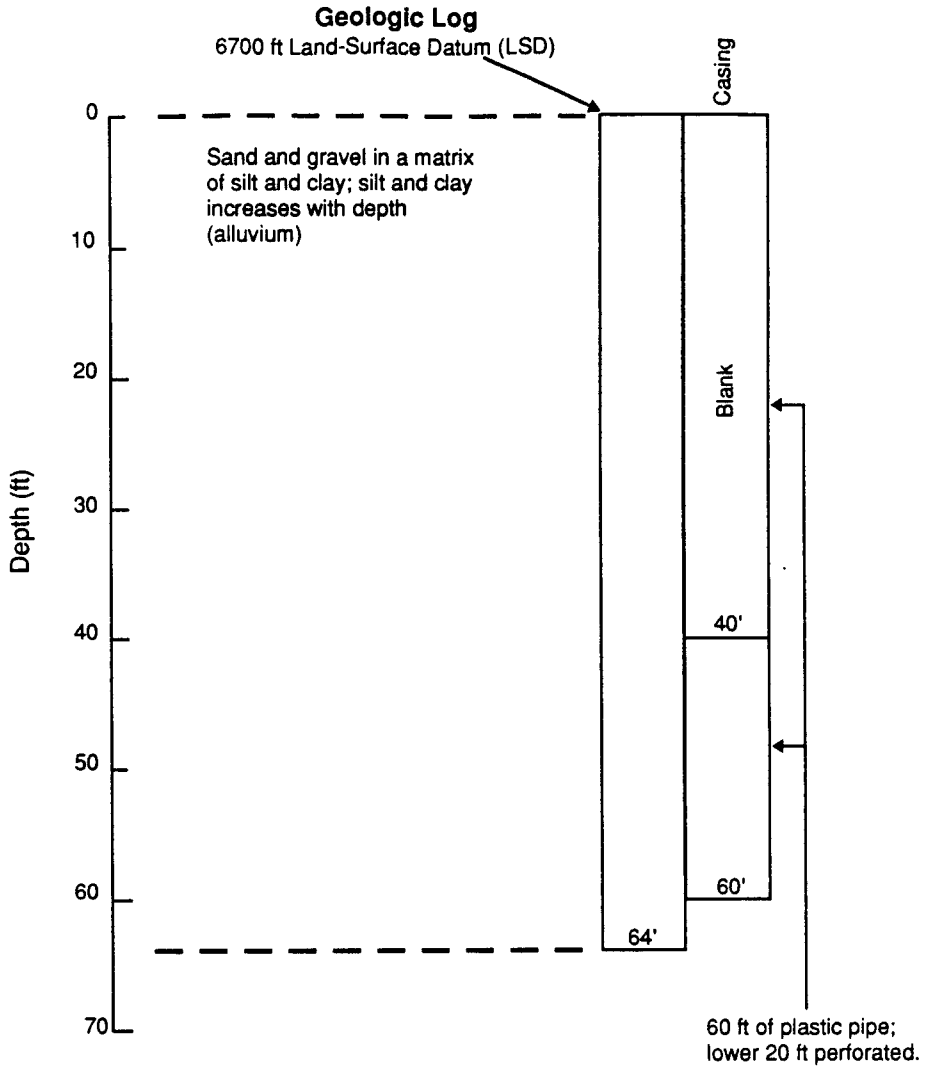


Fig. 8.4-34 Mortandad Canyon observation well MCO-12 (completed November 1961; dry; casing pulled 7-71, abandoned and plugged, well relocated to north about 10 ft)

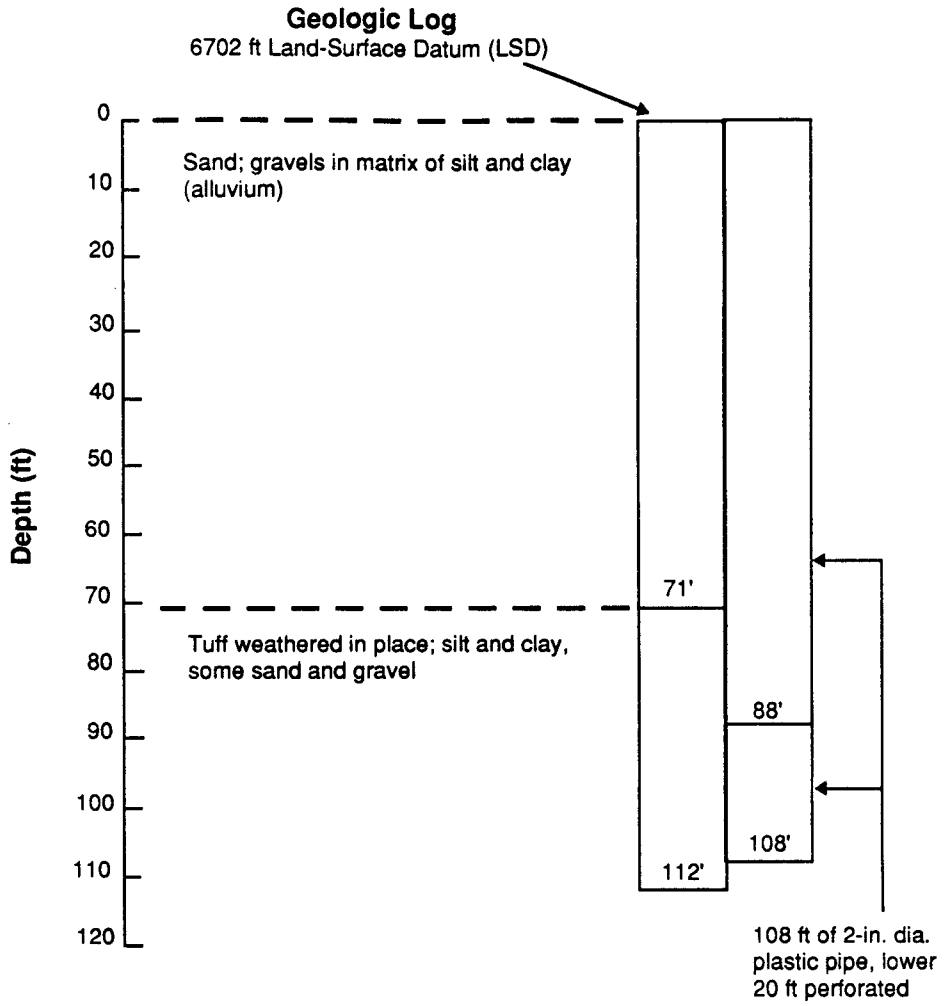


Fig. 8.4-35 Mortandad Canyon Observation Well MCO-12 (completed July 1971, dry; replaced well MCO-12, plugged and abandoned about 10 ft to south)

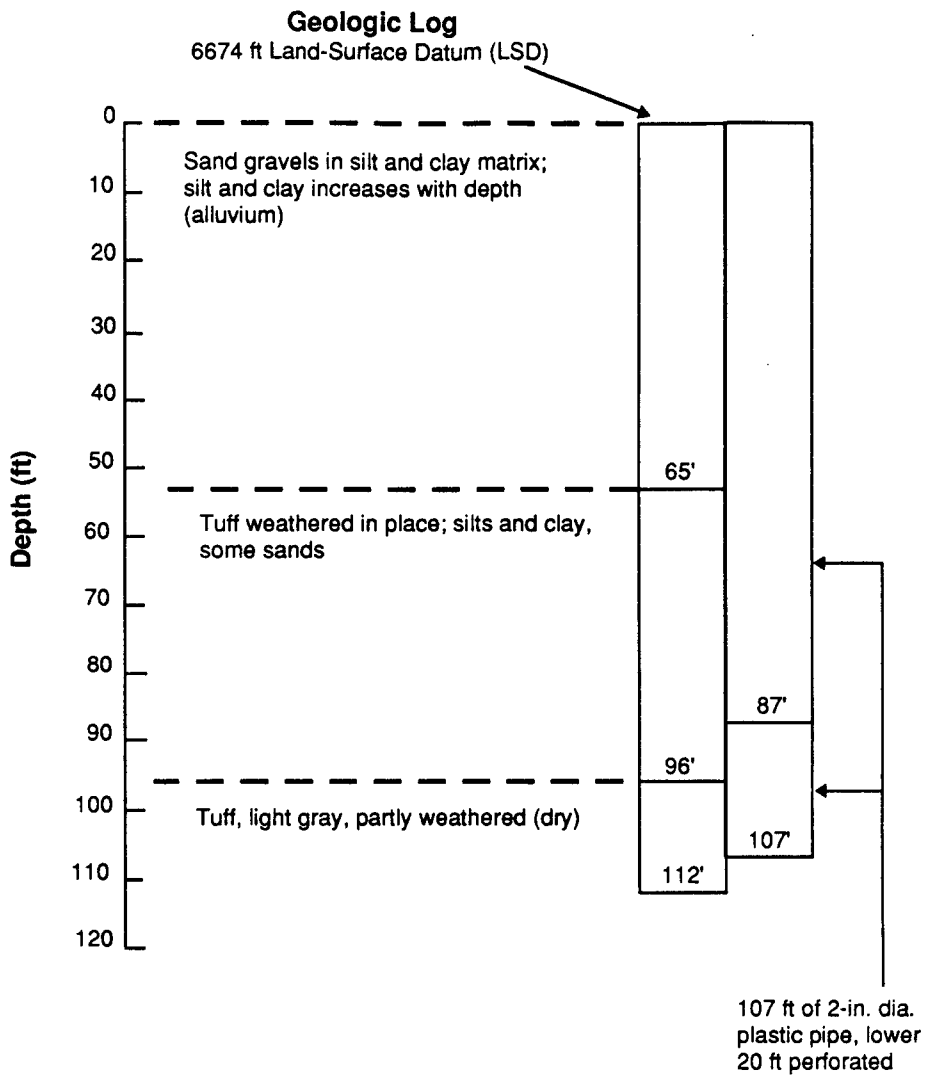
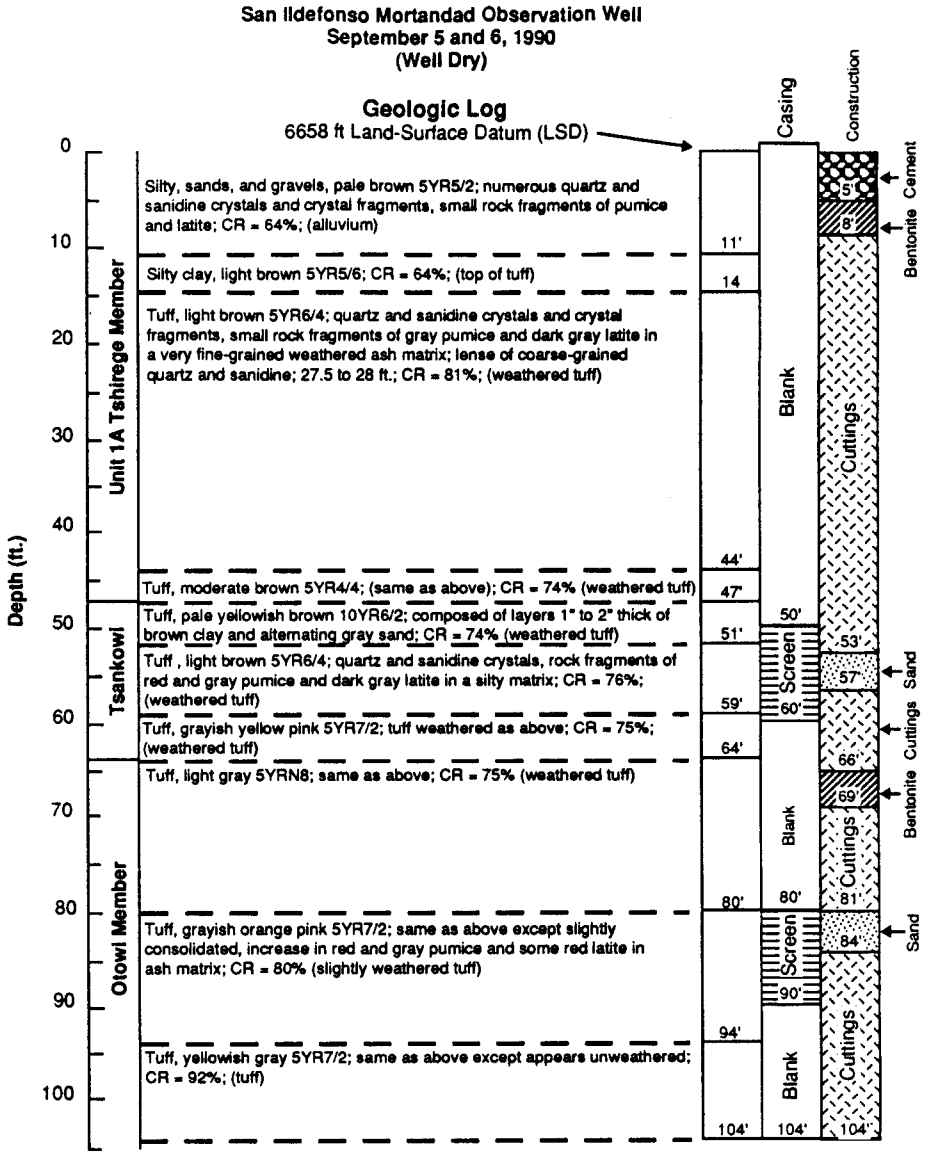


Fig. 8.4-36 Mortandad Canyon Observation Well MCO-13 (completed August 1980; dry)



NOTE: Cased with Schedule 40 PVC - 2" ID; screen slotted 0.010". Cuttings in construction are tuff from hole ranging from silts-sands-gravels. CR = Core Recovery for section.

Fig. 8.4-37 Test Hole SIMO drilled with and in cooperation with San Ildefonso Pueblo and Bureau of Indian Affairs.

8.5 Radiochemical Analytical Results

8.5.1 Hole 5.1

REPORT NUMBER: 9434

********** HSE-9 ANALYTICAL REPORT **********

Prepared by: DK on 1-Feb-1991

ANALYSIS: H-3 REQUEST NUMBER: 10779 MATRIX: SS ANALYST: Richard Peters PROGRAM CODE: [illegible]

OWNER: Max Maes GROUP: HSE-8 MAIL-STOP: K490 PHONE: [illegible]-0817 TASK-NO: [illegible]

ANALYTICAL TECHNIQUE: LS ANALYTICAL PROCEDURE :

CUSTOMER NUM	SAMPLE NUM	RESULT	UNCERTAINTY	UNITS	COMPLETION DATE	COMMENT
5.1 4-9'	90.17420	66.	6.	NCI/L	2/01/91	
5.1 14-19'	90.17421	61.	5.	NCI/L	2/01/91	
5.1 21.5-22	90.17422	78.	7.	NCI/L	2/01/91	
5.1 26.5-27	90.17423	86.	7.	NCI/L	2/01/91	
5.1 39.0 SS	90.17424	210.	20.	NCI/L	2/01/91	
5.1 43-44'	90.17477	92.	9.	NCI/L	2/01/91	
5.1 48-49'	90.17478	160.	16.	NCI/L	[illegible]	

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REPORT NUMBER: 9434 (continued)

********** HSE-9 QUALITY ASSURANCE REPORT *********

Prepared by: DK on 1-Feb-1991

REQUEST NUMBER: 10779 MATRIX: SS ANALYST: Richard Peters PROGRAM CODE: [illegible]

OWNER: Max Maes GROUP: HSE-8 MAIL-STOP: K490 PHONE: 7-0817 TASK ID: [illegible]

CUSTOMER NUM	SAMPLE NUM	RESULT	UNCERTAINTY	UNITS	CERTIFIED VALUE	CERTIFIED VALUE UNCERTAINTY	COMPLETION DATE	COMMENT
00.20292	00.20292	15900.	1000.	PCI/L	19255.	870.	2/01/91	WARNING [illegible]
00.20292	00.20292	17000.	1000.	PCI/L	19255.	870.	2/01/91	UNDER CONTROL
00.20292	00.20292	15300.	1000.	PCI/L	19255.	870.	2/01/91	WARNING 0-3 SIG
00.20303	00.20303	- 152.	200.	PCI/L	0.0		2/01/91	UNDER CONTROL
00.20303	00.20303	- 200.	200.	PCI/L	0.0		2/01/91	UNDER CONTROL
00.20303	00.20303	90.	200.	PCI/L	0.0		2/01/91	UNDER CONTROL

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

SAMPLE NUM	RESULT	UNCERTAINTY	UNITS	CERTIFIED VALUE	CERTIFIED VALUE UNCERTAINTY	COMPLETION DATE	COMMENT
90.17428	0.0	200.	PCI/L	0.0		2/01/91	UNDER CONTROL

REPORT NUMBER: 9434

RJP	D Kruh	mag
Analyst	Section Leader	QA Officer
8 Feb 91	2-11-91	2-11-91
Date	Date	Date

The control status of the preceeding data was evaluated using the standard statistical criteria set forth in 'Quality Assurance for Health and Environmental Chemistry: 1986,' LA-11114-MS, pp. 3-4.

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REPORT NUMBER: 9524

********** HSE-9 ANALYTICAL REPORT **********

Prepared by: CB on 14-Feb-1991

ANALYSIS: PU-238 REQUEST NUMBER: 10779 MATRIX: SS ANALYST: Richard Peters PROGRAM CODE: M211

OWNER: Max Maes GROUP: HSE-8 MAIL-STOP: K490 PHONE: 7-0817 TASK-ID: ALLA-1

ANALYTICAL TECHNIQUE: RAS ANALYTICAL PROCEDURE :

CUSTOMER NUM	SAMPLE NUM	RESULT	UNCERTAINTY	UNITS	COMPLETION DATE	COMMENT
5.1 4-9'	90.17420	0.117	0.0062	PCI/G	2/14/91	
5.1 14-19'	90.17421	0.0258	0.0023	PCI/G	2/14/91	
5.1 21.5-22	90.17422	0.0065	0.0012	PCI/G	2/14/91	
5.1 26.5-27	90.17423	0.015	0.0017	PCI/G	2/14/91	
5.1 39.0 SS	90.17424	0.0018	0.0007	PCI/G	2/14/91	
5.1 43-44'	90.17477	0.0017	0.0007	PCI/G	2/14/91	
5.1 48-49'	90.17478	0.0017	0.0006	PCI/G	2/14/91	

****

REPORT NUMBER: 9524 (continued)

********** HSE-9 QUALITY ASSURANCE REPORT *********

Prepared by: CB on 14-Feb-1991

REQUEST NUMBER: 10779 MATRIX: SS ANALYST: Richard Peters PROGRAM CODE: M211

OWNER: Max Maes GROUP: HSE-8 MAIL-STOP: K490 PHONE: 7-0817 TASK-ID: ALLA-1

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 sample batch.

____ No QC samples run with this sample batch.

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

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

SAMPLE NUM	RESULT	UNCERTAINTY	UNITS	CERTIFIED VALUE	CERTIFIED VALUE UNCERTAINTY	COMPLETION DATE	COMMENT
90.17427	0.0003	0.0003	PCI/G	0.0		2/14/91	UNDER CONTROL

REPORT NUMBER: 9524

Analyst	Section Leader	QA Officer
RJP	D Knal	mag
20 Feb 91	2-21-91	2-21-91
Date	Date	Date

The control status of the preceeding data was evaluated using the standard statistical criteria set forth in 'Quality Assurance for Health and Environmental Chemistry: 1986,' LA-11114-MS, pp. 3-4.

****

REPORT NUMBER: 9809

********** HSE-9 ANALYTICAL REPORT **********

Prepared by: EAJ on 20-Mar-1991

ANALYSIS: PU-239 REQUEST NUMBER: 10779 MATRIX: SS ANALYST: Richard Peters PROGRAM CODE: M211

OWNER: Max Maes GROUP: HSE-8 MAIL-STOP: K490 PHONE: 7-0817 TASK-ID: ALLA-1

ANALYTICAL TECHNIQUE: RAS ANALYTICAL PROCEDURE :

CUSTOMER NUM	SAMPLE NUM	RESULT	UNCERTAINTY	UNITS	COMPLETION DATE	COMMENT
5.1 4-9'	90.17420	0.0953	0.0053	PCI/G	2/14/91	
5.1 14-19'	90.17421	0.0245	0.0022	PCI/G	2/14/91	
5.1 21.5-22	90.17422	0.006	0.0011	PCI/G	2/14/91	
5.1 26.5-27	90.17423	0.0349	0.0027	PCI/G	2/14/91	
5.1 39.0 SS	90.17424	0.0044	0.001	PCI/G	2/14/91	
5.1 43-44'	90.17477	0.0039	0.0011	PCI/G	2/14/91	
5.1 48-49'	90.17478	0.0025	0.0007	PCI/G	2/14/91	

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REPORT NUMBER: 9809 (continued)

********** HSE-9 QUALITY ASSURANCE REPORT *********

Prepared by: EAJ on 20-Mar-1991

REQUEST NUMBER: 10779 MATRIX: SS ANALYST: Richard Peters PROGRAM CODE: M211

OWNER: Max Maes GROUP: HSE-8 MAIL-STOP: K490 PHONE: 7-0817 TASK-ID: ALLA-1

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 sample batch.

____ No QC samples run with this sample batch.

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

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

SAMPLE NUM	RESULT	UNCERTAINTY	UNITS	CERTIFIED VALUE	CERTIFIED VALUE UNCERTAINTY	COMPLETION DATE	COMMENT
90.17427	0.0007	0.0004	PCI/G	0.0		2/14/91	UNDER CONTROL

REPORT NUMBER: 9809

RJP	D Knab	mag
Analyst	Section Leader	QA Officer
12 Apr 91	4-1-91	4-1-91
Date	Date	Date

The control status of the preceeding data was evaluated using the standard statistical criteria set forth in 'Quality Assurance for Health and Environmental Chemistry: 1986,' LA-11114-MS, pp. 3-4.

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REPORT NUMBER: 9662

********** HSE-9 ANALYTICAL REPORT **********

Prepared by: YIG on 4-Mar-1991

ANALYSIS: CS-137 REQUEST NUMBER: 10779 MATRIX: SS ANALYST: George Brooks PROGRAM CODE: M211

OWNER: Max Maes GROUP: HSE-8 MAIL-STOP: K490 PHONE: 7-0817 TASK-ID: ALLA-1

ANALYTICAL TECHNIQUE: G ANALYTICAL PROCEDURE :

CUSTOMER NUM	SAMPLE NUM	RESULT	UNCERTAINTY	UNITS	COMPLETION DATE	COMMENT
5.1 4-9'	90.17420	2.56	0.397	PCI/G	2/26/91	
5.1 14-19'	90.17421	0.42	0.143	PCI/G	2/26/91	
5.1 21.5-22	90.17422	0.0097	0.0877	PCI/G	2/26/91	
5.1 26.5-27	90.17423	0.315	0.144	PCI/G	2/26/91	
5.1 39.0 SS	90.17424	0.058	0.09	PCI/G	2/26/91	
5.1 43-44'	90.17477	0.202	0.154	PCI/G	2/26/91	
5.1 48-49'	90.17478	0.162	0.1	PCI/G	2/26/91	

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REPORT NUMBER: 9662 (continued)

********** HSE-9 QUALITY ASSURANCE REPORT *********

Prepared by: YIG on 4-Mar-1991

REQUEST NUMBER: 10779 MATRIX: SS ANALYST: George Brooks PROGRAM CODE: M211

OWNER: Max Maes GROUP: HSE-8 MAIL-STOP: K490 PHONE: 7-0817 TASK-ID: ALLA-1

CUSTOMER NUM	SAMPLE NUM	RESULT	UNCERTAINTY	UNITS	CERTIFIED VALUE	CERTIFIED VALUE UNCERTAINTY	COMPLETION DATE	COMMENT
00.00560	00.00560	0.289	0.135	PCI/G	0.464	0.021	2/26/91	UNDER CONTROL
00.00640	00.00640	0.577	0.191	PCI/G	0.72	0.07	2/26/91	UNDER CONTROL

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

SAMPLE NUM	RESULT	UNCERTAINTY	UNITS	CERTIFIED VALUE	CERTIFIED VALUE UNCERTAINTY	COMPLETION DATE	COMMENT
90.17425	1.04	0.211	PCI/G	1.	0.1	2/26/91	UNDER CONTROL

REPORT NUMBER: 9662

Yig	PK	mag
Analyst	Section Leader	QA Officer
3/4/91	3-5-91	3-5-91
Date	Date	Date

The control status of the preceeding data was evaluated using the standard statistical criteria set forth in 'Quality Assurance for Health and Environmental Chemistry: 1986,' LA-11114-MS, pp. 3-4.

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REPORT NUMBER: 9541

********** HSE-9 ANALYTICAL REPORT **********

Prepared by: YIG on 15-Feb-1991

ANALYSIS: GAMMA REQUEST NUMBER: 10779 MATRIX: SS ANALYST: George Brooks PROGRAM CODE: M211

OWNER: Max Maes GROUP: HSE-8 MAIL-STOP: K490 PHONE: 7-0817 TASK-ID: ALLA-1

ANALYTICAL TECHNIQUE: NAI ANALYTICAL PROCEDURE :

CUSTOMER NUM	SAMPLE NUM	RESULT	UNCERTAINTY	UNITS	COMPLETION DATE	COMMENT
5.1 4-9'	90.17420	2.5	0.5	CPM/G	2/14/91	
5.1 14-19'	90.17421	3.3	0.5	CPM/G	2/14/91	
5.1 21.5-22	90.17422	3.5	0.5	CPM/G	2/14/91	
5.1 26.5-27	90.17423	3.5	0.5	CPM/G	2/14/91	
5.1 39.0 SS	90.17424	6.3	0.7	CPM/G	2/14/91	
5.1 43-44'	90.17477	5.7	0.7	CPM/G	2/14/91	
5.1 48-49'	90.17478	6.6	0.8	CPM/G	2/14/91	

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REPORT NUMBER: 9541 (continued)

********** HSE-9 QUALITY ASSURANCE REPORT *********

Prepared by: YIG on 15-Feb-1991

REQUEST NUMBER: 10779 MATRIX: SS ANALYST: George Brooks PROGRAM CODE: M211

OWNER: Max Maes GROUP: HSE-8 MAIL-STOP: K490 PHONE: 7-0817 TASK-ID: ALLA-1

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 sample batch.

___ No QC samples run with this sample batch.

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

EPORT NUMBER: 9541

Analyst	Section Leader	QA Officer
2/15/91	2-19-91	2/19/91
Date	Date	Date

The control status of the preceeding data was evaluated using the standard statistical criteria set forth in 'Quality Assurance for Health and Environmental Chemistry: 1986,' LA-11114-MS, pp. 3-4.

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REPORT NUMBER: 9510

********** HSE-9 ANALYTICAL REPORT **********

Prepared by: YIG on 12-Feb-1991

REQUEST NUMBER: 10779 MATRIX: SS ANALYST: George Brooks PROGRAM CODE: M211

OWNER: Max Maes GROUP: HSE-8 MAIL-STOP: K490 PHONE: 7-0817 TASK-ID: ALLA-1

CUSTOMER NUM	SAMPLE NUM	ANALYSIS	RESULT	UNCERTAINTY	UNITS	COMPLETION DATE	COMMENT
5.1 4-9'	90.17420	ALPHA	3.6	0.8	PCI/G	1/16/91	
5.1 4-9'	90.17420	BETA	3.9	0.4	PCI/G	1/16/91	
5.1 4-9'	90.17420	U	2.76	0.3	UG/G	1/29/91	
5.1 14-19'	90.17421	ALPHA	5.	1.	PCI/G	1/16/91	
5.1 14-19'	90.17421	BETA	3.	0.4	PCI/G	1/16/91	
5.1 14-19'	90.17421	U	3.87	0.4	UG/G	1/29/91	
5.1 21.5-22	90.17422	ALPHA	6.	1.	PCI/G	1/16/91	
5.1 21.5-22	90.17422	BETA	3.	0.4	PCI/G	1/16/91	
5.1 21.5-22	90.17422	U	4.45	0.44	UG/G	1/29/91	
5.1 26.5-27	90.17423	ALPHA	5.	1.	PCI/G	1/16/91	
5.1 26.5-27	90.17423	BETA	3.9	0.4	PCI/G	1/16/91	
5.1 26.5-27	90.17423	U	2.47	0.24	UG/G	1/29/91	
5.1 39.0 SS	90.17424	ALPHA	2.8	0.7	PCI/G	1/16/91	
5.1 39.0 SS	90.17424	BETA	2.3	0.3	PCI/G	1/16/91	
5.1 39.0 SS	90.17424	U	8.03	0.8	UG/G	1/29/91	
5.1 43-44'	90.17477	ALPHA	2.9	0.7	PCI/G	1/16/91	
5.1 43-44'	90.17477	BETA	1.7	0.2	PCI/G	1/16/91	
5.1 43-44'	90.17477	U	7.98	0.8	UG/G	1/29/91	
5.1 48-49'	90.17478	ALPHA	2.8	0.7	PCI/G	1/16/91	
5.1 48-49'	90.17478	BETA	1.7	0.2	PCI/G	1/16/91	
5.1 48-49'	90.17478	U	8.31	0.83	UG/G	1/29/91	

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REPORT NUMBER: 9510 (continued)

********** HSE-9 QUALITY ASSURANCE REPORT *********

Prepared by: YIG on 12-Feb-1991

REQUEST NUMBER: 10779 MATRIX: SS ANALYST: George Brooks PROGRAM CODE: M211

OWNER: Max Maes GROUP: HSE-8 MAIL-STOP: K490 PHONE: 7-0817 TASK-ID: ALLA-1

CUSTOMER NUM	SAMPLE NUM	ANALYSIS	RESULT	UNCERTAINTY	UNITS	CERTIFIED VALUE	CERTIFIED VALUE UNCERTAINTY	COMPLETION DATE
00.00551	00.00551	U	4.54	0.45	UG/G	4.58	0.04	1/29/91 UNDER CONTROL
00.00551	00.00551	U	4.4	0.44	UG/G	4.58	0.04	1/29/91 UNDER CONTROL
00.00551	00.00551	U	4.6	0.46	UG/G	4.58	0.04	1/29/91 UNDER CONTROL
00.00608	00.00608	U	1.06	0.1	UG/G	1.11	0.05	1/29/91 UNDER CONTROL
00.00608	00.00608	U	1.06	0.1	UG/G	1.11	0.05	1/29/91 UNDER CONTROL
00.00608	00.00608	U	1.08	0.1	UG/G	1.11	0.05	1/29/91 UNDER CONTROL
00.98008	00.98008	ALPHA	20.	4.	PCI/L	11.	5.	1/16/91 UNDER CONTROL
00.98008	00.98008	ALPHA	23.	5.	PCI/L	11.	5.	1/16/91 UNDER CONTROL
00.98008	00.98008	ALPHA	17.	4.	PCI/L	11.	5.	1/16/91 UNDER CONTROL
00.98008	00.98008	BETA	15.	2.	PCI/L	11.	5.	1/16/91 UNDER CONTROL
00.98008	00.98008	BETA	23.	3.	PCI/L	11.	5.	1/16/91 WARNING 2-3 SIG
00.98008	00.98008	BETA	21.	2.	PCI/L	11.	5.	1/16/91 UNDER CONTROL

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

SAMPLE NUM	ANALYSIS	RESULT	UNCERTAINTY	UNITS	CERTIFIED VALUE	CERTIFIED VALUE UNCERTAINTY	COMPLETION DATE	COMMENT
90.17426	U	243.76	24.37	UG/G	258.	26.	1/29/91	UNDER CONTROL

REPORT NUMBER: 9510 Yig D Knock 2-15-91 CSB 2/15/91

Analyst	Section Leader	QA Officer
2/12/91	2-15-91	2/15/91
Date	Date	Date

The control status of the preceeding data was evaluated using the standard statistical criteria set forth in 'Quality Assurance for Health and Environmental Chemistry: 1986,' LA-11114-MS, pp. 3-4.

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REPORT NUMBER: 9449

********** HSE-9 ANALYTICAL REPORT **********

Prepared by: CB on 4-Feb-1991

ANALYSIS: H-3 REQUEST NUMBER: 10793 MATRIX: SS ANALYST: Richard Peters PROGRAM CODE: M211

OWNER: Max Maes GROUP: HSE-8 MAIL-STOP: K490 PHONE: 7-0817 TASK-ID: ALLA-1

ANALYTICAL TECHNIQUE: LS ANALYTICAL PROCEDURE :

CUSTOMER NUM	SAMPLE NUM	RESULT	UNCERTAINTY	UNITS	COMPLETION DATE	COMMENT
5.1 51.5-52	90.17514	290.	30.	NCI/L	2/01/91	NOTE
5.1 56.5-57	90.17515	41000.	4000.	PCI/L	2/01/91	
5.1 61.5-62	90.17516	- 200.	300.	PCI/L	2/01/91	units
5.1 66.5-67	90.17517	160.	20.	NCI/L	2/01/91	
5.1 71.5-72	90.17518	200.	20.	NCI/L	2/01/91	
5.1 76.5-77	90.17519	25000.	3000.	PCI/L	2/01/91	
5.1 81.5-82	90.17520	500.	300.	PCI/L	2/01/91	
5.1 86.5-87	90.17521	0.0	300.	PCI/L	2/01/91	
5.1 91.5-92	90.17522	57000.	6000.	PCI/L	2/01/91	
5.1 96.5-97	90.17565	390.	40.	NCI/L	2/01/91	
5.1 101-102	90.17566	250.	30.	NCI/L	2/01/91	
5.1 106-107	90.17567	160.	20.	NCI/L	2/01/91	
5.1 109-109	90.17568	240.	20.	NCI/L	2/01/91	

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REPORT NUMBER: 9449 (continued)

********** HSE-9 QUALITY ASSURANCE REPORT *********

Prepared by: CB on 4-Feb-1991

REQUEST NUMBER: 10793 MATRIX: SS ANALYST: Richard Peters PROGRAM CODE: M211

OWNER: Max Maes GROUP: HSE-8 MAIL-STOP: K490 PHONE: 7-0817 TASK-ID: ALLA-1

CUSTOMER NUM	SAMPLE NUM	RESULT	UNCERTAINTY	UNITS	CERTIFIED VALUE	CERTIFIED VALUE UNCERTAINTY	COMPLETION DATE	COMMENT
00.20292	00.20292	18000.	2000.	PCI/L	19255.	870.	2/04/91	UNDER CONTROL
00.20292	00.20292	19000.	2000.	PCI/L	19255.	870.	2/04/91	UNDER CONTROL
00.20303	00.20303	- 100.	300.	PCI/L	0.0		2/04/91	UNDER CONTROL
00.20303	00.20303	300.	300.	PCI/L	0.0		2/04/91	UNDER CONTROL

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

SAMPLE NUM	RESULT	UNCERTAINTY	UNITS	CERTIFIED VALUE	CERTIFIED VALUE UNCERTAINTY	COMPLETION DATE	COMMENT
91.00879	90.	9.	NCI/L	91.6	2.4	2/01/91	UNDER CONTROL

REPORT NUMBER: 9449

RJP	D Knal	mag
Analyst	Section Leader	QA Officer
7 Feb 91	2-11-91	2-11-91
Date	Date	Date

The control status of the preceeding data was evaluated using the standard statistical criteria set forth in 'Quality Assurance for Health and Environmental Chemistry: 1986,' LA-11114-MS, pp. 3-4.

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REPORT NUMBER: 9705

********** HSE-9 ANALYTICAL REPORT **********

Prepared by: CB on 6-Mar-1991

ANALYSIS: PU-238 REQUEST NUMBER: 10793 MATRIX: SS ANALYST: Richard Peters PROGRAM CODE: M211

OWNER: Max Maes GROUP: HSE-8 MAIL-STOP: K490 PHONE: 7-0817 TASK-ID: ALLA-1

ANALYTICAL TECHNIQUE: RAS ANALYTICAL PROCEDURE :

CUSTOMER NUM	SAMPLE NUM	RESULT	UNCERTAINTY	UNITS	COMPLETION DATE	COMMENT
5.1 51.5-52	90.17514	0.002	0.02	PCI/G	3/06/91	
5.1 56.5-57	90.17515	0.02	0.02	PCI/G	3/06/91	
5.1 61.5-62	90.17516	0.04	0.02	PCI/G	3/06/91	
5.1 66.5-67	90.17517	0.02	0.02	PCI/G	3/06/91	
5.1 71.5-72	90.17518	0.001	0.02	PCI/G	3/06/91	
5.1 76.5-77	90.17519	0.009	0.02	PCI/G	3/06/91	
5.1 81.5-82	90.17520	0.01	0.02	PCI/G	3/06/91	
5.1 86.5-87	90.17521	0.00	0.02	PCI/G	3/06/91	
5.1 91.5-92	90.17522	0.005	0.02	PCI/G	3/06/91	
5.1 96.5-97	90.17565	0.011	0.02	PCI/G	3/06/91	
5.1 101-102	90.17566	0.01	0.02	PCI/G	3/06/91	
5.1 106-107	90.17567	0.001	0.02	PCI/G	3/06/91	
5.1 109-109	90.17568	0.0002	0.0005	PCI/G	3/06/91	

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REPORT NUMBER: 9705 (continued)

********** HSE-9 QUALITY ASSURANCE REPORT *********

Prepared by: CB on 6-Mar-1991

REQUEST NUMBER: 10793 MATRIX: SS ANALYST: Richard Peters PROGRAM CODE: M211

OWNER: Max Maes GROUP: HSE-8 MAIL-STOP: K490 PHONE: 7-0817 TASK-ID: ALLA-1

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 sample batch.

____ No QC samples run with this sample batch.

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

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

SAMPLE NUM	RESULT	UNCERTAINTY	UNITS	CERTIFIED VALUE	CERTIFIED VALUE UNCERTAINTY	COMPLETION DATE	COMMENT
91.00878	0.523	0.0205	PCI/G	0.52	0.05	3/06/91	UNDER CONTROL

REPORT NUMBER: 9705

Analyst	Section Leader	QA Officer
RJP	D Wat	mag
15 Mar 91	3-18-91	3-18-91
Date	Date	Date

The control status of the preceeding data was evaluated using the standard statistical criteria set forth in 'Quality Assurance for Health and Environmental Chemistry: 1986,' LA-11114-MS, pp. 3-4.

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REPORT NUMBER: 9706

********** HSE-9 ANALYTICAL REPORT **********

Prepared by: CB on 6-Mar-1991

ANALYSIS: PU-239 REQUEST NUMBER: 10793 MATRIX: SS ANALYST: Richard Peters PROGRAM CODE: M211

OWNER: Max Maes GROUP: HSE-8 MAIL-STOP: K490 PHONE: 7-0817 TASK-ID: ALLA-1

ANALYTICAL TECHNIQUE: RAS ANALYTICAL PROCEDURE :

CUSTOMER NUM	SAMPLE NUM	RESULT	UNCERTAINTY	UNITS	COMPLETION DATE	COMMENT
5.1 51.5-52	90.17514	0.004	0.01	PCI/G	3/06/91	
5.1 56.5-57	90.17515	0.001	0.01	PCI/G	3/06/91	
5.1 61.5-62	90.17516	0.001	0.01	PCI/G	3/06/91	
5.1 66.5-67	90.17517	0.001	0.01	PCI/G	3/06/91	
5.1 71.5-72	90.17518	0.001	0.01	PCI/G	3/06/91	
5.1 76.5-77	90.17519	0.03	0.01	PCI/G	3/06/91	
5.1 81.5-82	90.17520	0.00	0.01	PCI/G	3/06/91	
5.1 86.5-87	90.17521	0.001	0.01	PCI/G	3/06/91	
5.1 91.5-92	90.17522 -	0.001	0.01	PCI/G	3/06/91	
5.1 96.5-97	90.17565 -	0.00	0.01	PCI/G	3/06/91	
5.1 101-102	90.17566	0.01	0.01	PCI/G	3/06/91	
5.1 106-107	90.17567	0.002	0.01	PCI/G	3/06/91	
5.1 109-109	90.17568	0.0012	0.0006	PCI/G	3/06/91	

ok

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REPORT NUMBER: 9706 (continued)

********** HSE-9 QUALITY ASSURANCE REPORT *********

Prepared by: CB on 6-Mar-1991

REQUEST NUMBER: 10793 MATRIX: SS ANALYST: Richard Peters PROGRAM CODE: M211

OWNER: Max Maes GROUP: HSE-8 MAIL-STOP: K490 PHONE: 7-0817 TASK-ID: ALLA-1

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 sample batch.

____ No QC samples run with this sample batch.

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

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

SAMPLE NUM	RESULT	UNCERTAINTY	UNITS	CERTIFIED VALUE	CERTIFIED VALUE UNCERTAINTY	COMPLETION DATE	COMMENT
91.00878	0.0034	0.0009	PCI/G	0.0		3/06/91	OUT OF CONTROL

REPORT NUMBER: 9706

RJP	D Kruk	mag
Analyst	Section Leader	QA Officer
15 Mar-91	3-18-91	3-18-91
Date	Date	Date

The control status of the preceeding data was evaluated using the standard statistical criteria set forth in 'Quality Assurance for Health and Environmental Chemistry: 1986,' LA-11114-MS, pp. 3-4.

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REPORT NUMBER: 9779

********** HSE-9 ANALYTICAL REPORT **********

Prepared by: YIG on 18-Mar-1991

ANALYSIS: CS-137 REQUEST NUMBER: 10793 MATRIX: SS ANALYST: George Brooks PROGRAM CODE: M211

OWNER: Max Maes GROUP: HSE-8 MAIL-STOP: K490 PHONE: 7-0817 TASK-ID: ALLA-1

ANALYTICAL TECHNIQUE: G ANALYTICAL PROCEDURE :

CUSTOMER NUM	SAMPLE NUM	RESULT	UNCERTAINTY	UNITS	COMPLETION DATE	COMMENT
5.1 51.5-52	90.17514	0.359	0.115	PCI/G	3/15/91	
5.1 56.5-57	90.17515	0.392	0.161	PCI/G	3/15/91	
5.1 61.5-62	90.17516	0.219	0.106	PCI/G	3/15/91	
5.1 66.5-67	90.17517	0.506	0.168	PCI/G	3/15/91	
5.1 71.5-72	90.17518	0.172	0.0985	PCI/G	3/15/91	
5.1 76.5-77	90.17519	0.357	0.16	PCI/G	3/15/91	
5.1 81.5-82	90.17520	0.0345	0.0865	PCI/G	3/15/91	
5.1 86.5-87	90.17521	0.0484	0.157	PCI/G	3/15/91	
5.1 91.5-92	90.17522	0.049	0.0937	PCI/G	3/15/91	
5.1 96.5-97	90.17565	0.132	0.0885	PCI/G	3/15/91	
5.1 101-102	90.17566	0.25	0.154	PCI/G	3/15/91	
5.1 106-107	90.17567	0.202	0.095	PCI/G	3/15/91	
5.1 109-109	90.17568	0.0969	0.156	PCI/G	3/15/91	

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5.1 Cuttings / cores
MORT. Canyon

REPORT NUMBER: 9779 (continued)

********** HSE-9 QUALITY ASSURANCE REPORT *********

Prepared by: YIG on 18-Mar-1991

REQUEST NUMBER: 10793 MATRIX: SS ANALYST: George Brooks PROGRAM CODE: M211

OWNER: Max Maes GROUP: HSE-8 MAIL-STOP: K490 PHONE: 7-0817 TASK-ID: ALLA-1

CUSTOMER NUM	SAMPLE NUM	RESULT	UNCERTAINTY	UNITS	CERTIFIED VALUE	CERTIFIED VALUE UNCERTAINTY	COMPLETION DATE	COMMENT
00.00560	00.00560	0.667	0.225	PCI/G	0.464	0.021	3/15/91	UNDER CONTROL
00.00640	00.00640	0.622	0.161	PCI/G	0.72	0.07	3/15/91	UNDER CONTROL

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

SAMPLE NUM	RESULT	UNCERTAINTY	UNITS	CERTIFIED VALUE	CERTIFIED VALUE UNCERTAINTY	COMPLETION DATE	COMMENT
91.00877	2.81	0.441	PCI/G	3.2	0.3	3/15/91	UNDER CONTROL

REPORT NUMBER: 9779

Yig / GB	D Kwak	mag
Analyst	Section Leader	QA Officer
3/18/91	3-18-91	3-18 91
Date	Date	Date

The control status of the preceeding data was evaluated using the standard statistical criteria set forth in 'Quality Assurance for Health and Environmental Chemistry: 1986,' LA-11114-MS, pp. 3-4.

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REPORT NUMBER: 9545

********** HSE-9 ANALYTICAL REPORT **********

Prepared by: YIG on 15-Feb-1991

REQUEST NUMBER: 10793 MATRIX: SS ANALYST: George Brooks PROGRAM CODE: M211

OWNER: Max Maes GROUP: HSE-8 MAIL-STOP: K490 PHONE: 7-0817 TASK-ID: ALLA-1

CUSTOMER NUM	SAMPLE NUM	ANALYSIS	RESULT	UNCERTAINTY	UNITS	COMPLETION DATE	COMMENT
5.1 51.5-52	90.17514	ALPHA	3.4	0.8	PCI/G	2/14/91	
5.1 51.5-52	90.17514	BETA	1.4	0.2	PCI/G	2/14/91	
5.1 51.5-52	90.17514	GAMMA	6.	0.7	CPM/G	2/14/91	
5.1 56.5-57	90.17515	ALPHA	3.4	0.8	PCI/G	2/14/91	
5.1 56.5-57	90.17515	BETA	1.1	0.2	PCI/G	2/14/91	
5.1 56.5-57	90.17515	GAMMA	5.8	0.7	CPM/G	2/14/91	
5.1 61.5-62	90.17516	ALPHA	2.3	0.6	PCI/G	2/14/91	
5.1 61.5-62	90.17516	BETA	1.1	0.2	PCI/G	2/14/91	
5.1 61.5-62	90.17516	GAMMA	6.8	0.8	CPM/G	2/14/91	
5.1 66.5-67	90.17517	ALPHA	2.4	0.6	PCI/G	2/14/91	
5.1 66.5-67	90.17517	BETA	1.3	0.2	PCI/G	2/14/91	
5.1 66.5-67	90.17517	GAMMA	7.2	0.8	CPM/G	2/14/91	
5.1 71.5-72	90.17518	ALPHA	2.3	0.5	PCI/G	2/14/91	
5.1 71.5-72	90.17518	BETA	1.3	0.2	PCI/G	2/14/91	
5.1 71.5-72	90.17518	GAMMA	6.9	0.8	CPM/G	2/14/91	
5.1 76.5-77	90.17519	ALPHA	3.5	0.8	PCI/G	2/14/91	
5.1 76.5-77	90.17519	BETA	1.6	0.2	PCI/G	2/14/91	
5.1 76.5-77	90.17519	GAMMA	6.5	0.8	CPM/G	2/14/91	
5.1 81.5-82	90.17520	ALPHA	5.	1.	PCI/G	2/14/91	
5.1 81.5-82	90.17520	BETA	4.5	0.5	PCI/G	2/14/91	
5.1 81.5-82	90.17520	GAMMA	7.	0.8	CPM/G	2/14/91	
5.1 86.5-87	90.17521	ALPHA	5.	1.	PCI/G	2/14/91	
5.1 86.5-87	90.17521	BETA	3.	0.4	PCI/G	2/14/91	
5.1 86.5-87	90.17521	GAMMA	7.5	0.9	CPM/G	2/14/91	
5.1 91.5-92	90.17522	ALPHA	3.4	0.8	PCI/G	2/14/91	
5.1 91.5-92	90.17522	BETA	2.	0.3	PCI/G	2/14/91	
5.1 91.5-92	90.17522	GAMMA	6.2	0.7	CPM/G	2/14/91	
5.1 96.5-97	90.17565	ALPHA	10.	2.	PCI/G	2/14/91	
5.1 96.5-97	90.17565	BETA	6.7	0.7	PCI/G	2/14/91	
5.1 96.5-97	90.17565	GAMMA	6.2	0.7	CPM/G	2/14/91	
5.1 101-102	90.17566	ALPHA	5.	1.	PCI/G	2/14/91	
5.1 101-102	90.17566	BETA	4.3	0.5	PCI/G	2/14/91	
5.1 101-102	90.17566	GAMMA	4.4	0.6	CPM/G	2/14/91	
5.1 106-107	90.17567	ALPHA	5.	1.	PCI/G	2/14/91	
5.1 106-107	90.17567	BETA	3.9	0.5	PCI/G	2/14/91	
5.1 106-107	90.17567	GAMMA	4.6	0.6	CPM/G	2/14/91	
5.1 109-109	90.17568	ALPHA	1.1	0.3	PCI/G	2/14/91	
5.1 109-109	90.17568	BETA	1.3	0.2	PCI/G	2/14/91	
5.1 109-109	90.17568	GAMMA	5.	0.6	CPM/G	2/14/91	

REPORT NUMBER: 9545 (continued)

********** HSE-9 QUALITY ASSURANCE REPORT *********

Prepared by: YIG on 15-Feb-1991

REQUEST NUMBER: 10793 MATRIX: SS ANALYST: George Brooks PROGRAM CODE: M211

OWNER: Max Maes GROUP: HSE-8 MAIL-STOP: K490 PHONE: 7-0817 TASK-ID: ALLA-1

CUSTOMER NUM	SAMPLE NUM	ANALYSIS	RESULT	UNCERTAINTY	UNITS	CERTIFIED VALUE	CERTIFIED VALUE UNCERTAINTY	COMPLETION DATE
00.98008	00.98008	ALPHA	13.	3.	PCI/L	11.	5.	2/14/91 UNDER CONTROL
00.98008	00.98008	ALPHA	12.	3.	PCI/L	11.	5.	2/14/91 UNDER CONTROL
00.98008	00.98008	ALPHA	8.	2.	PCI/L	11.	5.	2/14/91 UNDER CONTROL
00.98008	00.98008	BETA	10.	1.	PCI/L	11.	5.	2/14/91 UNDER CONTROL
00.98008	00.98008	BETA	8.3	0.9	PCI/L	11.	5.	2/14/91 UNDER CONTROL
00.98008	00.98008	BETA	12.	1.	PCI/L	11.	5.	2/14/91 UNDER CONTROL

REPORT NUMBER: 9545

Yig / GB	D Kind	EGB
Analyst	Section Leader	QA Officer
2/19/91	2-19-91	2/19/91
Date	Date	Date

The control status of the preceeding data was evaluated using the standard statistical criteria set forth in 'Quality Assurance for Health and Environmental Chemistry: 1986,' LA-11114-MS, pp. 3-4.

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REPORT NUMBER: 9658 (continued)

********** HSE-9 QUALITY ASSURANCE REPORT *********

Prepared by: YIG on 4-Mar-1991

REQUEST NUMBER: 10793 MATRIX: SS ANALYST: George Brooks PROGRAM CODE: M211

OWNER: Max Maes GROUP: HSE-8 MAIL-STOP: K490 PHONE: 7-0817 TASK-ID: ALLA-1

CUSTOMER NUM	SAMPLE NUM	RESULT	UNCERTAINTY	UNITS	CERTIFIED VALUE	CERTIFIED VALUE UNCERTAINTY	COMPLETION DATE	COMMENT
00.00551	00.00551	4.46	0.44	UG/G	4.58	0.04	2/28/91	UNDER CONTROL
00.00551	00.00551	4.34	0.43	UG/G	4.58	0.04	2/28/91	UNDER CONTROL
00.00551	00.00551	4.29	0.42	UG/G	4.58	0.04	2/28/91	UNDER CONTROL
00.00608	00.00608	1.1	0.11	UG/G	1.11	0.05	2/28/91	UNDER CONTROL
00.00608	00.00608	1.1	0.11	UG/G	1.11	0.05	2/28/91	UNDER CONTROL
00.00608	00.00608	0.95	0.095	UG/G	1.11	0.05	2/28/91	UNDER CONTROL

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

SAMPLE NUM	RESULT	UNCERTAINTY	UNITS	CERTIFIED VALUE	CERTIFIED VALUE UNCERTAINTY	COMPLETION DATE	COMMENT
91.00880	31.69	3.17	UG/G	34.	3.	2/28/91	UNDER CONTROL

REPORT NUMBER: 9658

Yig Yig — Analyst — 3/4/91 — Date

DK — Section Leader — 3-5-91 — Date

mag — QA Officer — 3-5-91 — Date

The control status of the preceeding data was evaluated using the standard statistical criteria set forth in 'Quality Assurance for Health and Environmental Chemistry: 1986,' LA-11114-MS, pp. 3-4.

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REPORT NUMBER: 9658

********** HSE-9 ANALYTICAL REPORT **********

Prepared by: YIG on 4-Mar-1991

ANALYSIS: U REQUEST NUMBER: 10793 MATRIX: SS ANALYST: George Brooks PROGRAM CODE: M211

OWNER: Max Maes GROUP: HSE-8 MAIL-STOP: K490 PHONE: 7-0817 TASK-ID: ALLA-1

ANALYTICAL TECHNIQUE: DNA ANALYTICAL PROCEDURE :

CUSTOMER NUM	SAMPLE NUM	RESULT	UNCERTAINTY	UNITS	COMPLETION DATE	COMMENT
5.1 51.5-52	90.17514	7.76	0.77	UG/G	2/28/91	
5.1 56.5-57	90.17515	8.19	0.81	UG/G	2/28/91	
5.1 61.5-62	90.17516	8.08	0.8	UG/G	2/28/91	
5.1 66.5-67	90.17517	8.55	0.85	UG/G	2/28/91	
5.1 71.5-72	90.17518	8.56	0.85	UG/G	2/28/91	
5.1 76.5-77	90.17519	8.01	0.8	UG/G	2/28/91	
5.1 81.5-82	90.17520	8.28	0.82	UG/G	2/28/91	
5.1 86.5-87	90.17521	7.59	0.75	UG/G	2/28/91	
5.1 91.5-92	90.17522	8.33	0.83	UG/G	2/28/91	
5.1 96.5-97	90.17565	6.57	0.65	UG/G	2/28/91	
5.1 101-102	90.17566	4.84	0.48	UG/G	2/28/91	
5.1 106-107	90.17567	5.15	0.51	UG/G	2/28/91	
5.1 109-109	90.17568	5.48	0.54	UG/G	2/28/91	

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REPORT NUMBER: 8658

********** HSE-9 ANALYTICAL REPORT **********

Prepared by: CB on 1-Nov-1990

ANALYSIS: H-3 REQUEST NUMBER: 10596 MATRIX: S ANALYST: Richard Peters PROGRAM CODE: M211

OWNER: Max Maes GROUP: HSE-8 MAIL-STOP: K490 PHONE: 7-0817 TASK-ID: 1

ANALYTICAL TECHNIQUE: LS ANALYTICAL PROCEDURE :

CUSTOMER NUM	SAMPLE NUM	RESULT	UNCERTAINTY	UNITS	COMPLETION DATE	COMMENT
5.9A @ 4	90.15881	3700.	500.	PCI/L	11/01/90	
5.9A @ 9	90.15882	5400.	600.	PCI/L	11/01/90	
5.9A @ 14	90.15883	8000.	900.	PCI/L	11/01/90	
5.9A @ 19	90.15884	8500.	900.	PCI/L	11/01/90	
5.9A @ 24	90.15885	13000.	1000.	PCI/L	11/01/90	
5.9A @ 29	90.15886	68000.	7000.	PCI/L	11/01/90	
5.9A @ 34	90.15887	92000.	9000.	PCI/L	11/01/90	
5.9A @ 39	90.15888	150.	10.	NCI/L	11/01/90	
5.9A @ 40	90.15889	150.	10.	NCI/L	11/01/90	
5.9A @ 44	90.15890	180.	20.	NCI/L	11/01/90	
5.9A @ 47	90.15891	270.	30.	NCI/L	11/01/90	
5.9A @ 49	90.15892	280.	30.	NCI/L	11/01/90	
5.9A @ 54	90.15893	260.	30.	NCI/L	11/01/90	
5.9A @ 64	90.15894	230.	20.	NCI/L	11/01/90	
5.9A @ 69	90.15895	140.	10.	NCI/L	11/01/90	
5.9A @ 71.5	90.15896	65000.	7000.	PCI/L	11/01/90	
5.9A @ 79	90.15897	2600.	400.	PCI/L	11/01/90	
5.9A @ 89	90.15898	400.	200.	PCI/L	11/01/90	
5.9A @ 94	90.15899	17000.	2000.	PCI/L	11/01/90	
5.9A @ 99	90.15900	160.	20.	NCI/L	11/01/90	
5.9A @ 102	90.15901	110.	10.	NCI/L	11/01/90	
5.9A @ 104	90.15902	110.	10.	NCI/L	11/01/90	
5.9A @ 109	90.15903	82000.	8000.	PCI/L	11/01/90	
5.9A @ 114	90.15904	78000.	8000.	PCI/L	11/01/90	
5.9A @ 119	90.15905	78000.	8000.	PCI/L	11/01/90	
5.9A @ 124	90.15906	70000.	7000.	PCI/L	11/01/90	
5.9A @ 129	90.15907	60000.	6000.	PCI/L	11/01/90	
5.9A @ 134	90.15908	68000.	7000.	PCI/L	11/01/90	
5.9A @ 139	90.15909	69000.	7000.	PCI/L	11/01/90	
5.9A @ 144	90.15910	62000.	6000.	PCI/L	11/01/90	
5.9A @ 149	90.15911	66000.	7000.	PCI/L	11/01/90	
5.9A @ 154	90.15912	71000.	7000.	PCI/L	11/01/90	
5.9A @ 159	90.15913	56000.	6000.	PCI/L	11/01/90	
5.9A @ 164	90.15914	47000.	5000.	PCI/L	11/01/90	
5.9A @ 169	90.15915	42000.	4000.	PCI/L	11/01/90	
5.9A @ 174	90.15916	36000.	4000.	PCI/L	11/01/90	
5.9A @ 179	90.15917	20000.	2000.	PCI/L	11/01/90	
5.9A @ 184	90.16003	15000.	2000.	PCI/L	11/01/90	
5.9A @ 189	90.16004	4400.	500.	PCI/L	11/01/90	

5.9A @ 194	90.16005	5100.	600.	PCI/L	11/01/90

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REPORT NUMBER: 8658 (continued)

********** HSE-9 QUALITY ASSURANCE REPORT *********

Prepared by: CB on 1-Nov-1990

REQUEST NUMBER: 10596 MATRIX: S ANALYST: Richard Peters PROGRAM CODE: M211

OWNER: Max Maes GROUP: HSE-8 MAIL-STOP: K490 PHONE: 7-0817 TASK-ID: 1

CUSTOMER NUM	SAMPLE NUM	RESULT	UNCERTAINTY	UNITS	CERTIFIED VALUE	CERTIFIED VALUE UNCERTAINTY	COMPLETION DATE	COMMENT
00.20292	00.20292	17000.	2000.	PCI/L	19255.	870.	11/01/90	UNDER CONTROL
00.20292	00.20292	17000.	2000.	PCI/L	19255.	870.	11/01/90	UNDER CONTROL
00.20303	00.20303	0.0	200.	PCI/L	0.0		11/01/90	UNDER CONTROL
00.20303	00.20303	- 200.	200.	PCI/L	0.0		11/01/90	UNDER CONTROL

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

SAMPLE NUM	RESULT	UNCERTAINTY	UNITS	CERTIFIED VALUE	CERTIFIED VALUE UNCERTAINTY	COMPLETION DATE	COMMENT
90.15975	3.8	0.5	NCI/L	3.8	0.4	11/01/90	UNDER CONTROL
90.15976	49.	5.	NCI/L	56.9	6.	11/01/90	UNDER CONTROL
90.15977	700.	200.	PCI/L	0.0		11/01/90	OUT OF CONTROL
90.15978	400.	200.	PCI/L	0.0		11/01/90	WARNING 2-3 SIG

REPORT NUMBER: 8658

RJP	D Kuch	mag
Analyst	Section Leader	QA Officer
5 Nov 90	11-7-90	11-7-90
Date	Date	Date

The control status of the preceeding data was evaluated using the standard statistical criteria set forth in 'Quality Assurance for Health and Environmental Chemistry: 1986,' LA-11114-MS, pp. 3-4.

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REPORT NUMBER: 8656

********** HSE-9 ANALYTICAL REPORT **********

Prepared by: CB on 1-Nov-1990

ANALYSIS: H-3 REQUEST NUMBER: 10754 MATRIX: SS ANALYST: Richard Peters PROGRAM CODE: M211

OWNER: Max Maes GROUP: HSE-8 MAIL-STOP: K490 PHONE: 7-0817 TASK-ID: ALLA1

ANALYTICAL TECHNIQUE: LS ANALYTICAL PROCEDURE :

CUSTOMER NUM	SAMPLE NUM	RESULT	UNCERTAINTY	UNITS	COMPLETION DATE	COMMENT
5.9A @ 97	90.17220	160.	20.	NCI/L	10/31/90	
5.9A @ 98	90.17221	170.	20.	NCI/L	10/31/90	
5.9A @ 99	90.17222	180.	20.	NCI/L	10/31/90	

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REPORT NUMBER: 8656 (continued)

********** HSE-9 QUALITY ASSURANCE REPORT *********

Prepared by: CB on 1-Nov-1990

REQUEST NUMBER: 10754 MATRIX: SS ANALYST: Richard Peters PROGRAM CODE: M211

OWNER: Max Maes GROUP: HSE-8 MAIL-STOP: K490 PHONE: 7-0817 TASK-ID: ALLA1

CUSTOMER NUM	SAMPLE NUM	RESULT	UNCERTAINTY	UNITS	CERTIFIED VALUE	CERTIFIED VALUE UNCERTAINTY	COMPLETION DATE	COMMENT
00.20292	00.20292	18000.	2000.	PCI/L	19255.	870.	10/31/90	UNDER CONTROL
00.20292	00.20292	17000.	2000.	PCI/L	19255.	870.	10/31/90	UNDER CONTROL
00.20303	00.20303	400.	300.	PCI/L	0.0		10/31/90	UNDER CONTROL
00.20303	00.20303	600.	300.	PCI/L	0.0		10/31/90	WARNING 2-3 SIG

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

SAMPLE NUM	RESULT	UNCERTAINTY	UNITS	CERTIFIED VALUE	CERTIFIED VALUE UNCERTAINTY	COMPLETION DATE	COMMENT
90.17223	22.	2.	NCI/L	22.8	2.	10/31/90	UNDER CONTROL

REPORT NUMBER: 8656

RJ Peters — Analyst — 5 Nov 90 — Date

D Kuch — Section Leader — 11-7-90 — Date

mag — QA Officer — 11-7-90 — Date

The control status of the preceeding data was evaluated using the standard statistical criteria set forth in 'Quality Assurance for Health and Environmental Chemistry: 1986,' LA-11114-MS, pp. 3-4.

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REPORT NUMBER: 8545

********** HSE-9 ANALYTICAL REPORT **********

Prepared by: CB on 24-Oct-1990

ANALYSIS: H2O- REQUEST NUMBER: 10754 MATRIX: SS ANALYST: Richard Peters PROGRAM CODE: M211

OWNER: Max Maes GROUP: HSE-8 MAIL-STOP: K490 PHONE: 7-0817 TASK-ID: ALLA1

ANALYTICAL TECHNIQUE: LS ANALYTICAL PROCEDURE :

CUSTOMER NUM	SAMPLE NUM	RESULT	UNCERTAINTY	UNITS	COMPLETION DATE	COMMENT
5.9A @ 97	90.17220	11.37	1.14	%	10/24/90	
5.9A @ 98	90.17221	20.46	2.05	%	10/24/90	
5.9A @ 99	90.17222	8.87	0.89	%	10/24/90	

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REPORT NUMBER: 8545 (continued)

********** HSE-9 QUALITY ASSURANCE REPORT *********

Prepared by: CB on 24-Oct-1990

REQUEST NUMBER: 10754 MATRIX: SS ANALYST: Richard Peters PROGRAM CODE: M211

OWNER: Max Maes GROUP: HSE-8 MAIL-STOP: K490 PHONE: 7-0817 TASK-ID: ALLA1

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 sample batch.

____ No QC samples run with this sample batch.

X No QC samples for this constituent and matrix type available within HSE-9

REPORT NUMBER: 8545

[illegible]	D Kuch	mag
Analyst	Section Leader	QA Officer
5 Nov 90	11-7-90	11-7-90
Date	Date	Date

The control status of the preceeding data was evaluated using the standard statistical criteria set forth in 'Quality Assurance for Health and Environmental Chemistry: 1986,' LA-11114-MS, pp. 3-4.

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REPORT NUMBER: 7527

********** HSE-9 ANALYTICAL REPORT **********

Prepared by: YIG on 31-Jul-1990

ANALYSIS: GAMMA REQUEST NUMBER: 10596 MATRIX: S ANALYST: George Brooks PROGRAM CODE: M211

OWNER: Max Maes GROUP: HSE-8 MAIL-STOP: K490 PHONE: 7-0817 TASK-ID: 1

ANALYTICAL TECHNIQUE: NAI ANALYTICAL PROCEDURE :

CUSTOMER NUM	SAMPLE NUM	RESULT	UNCERTAINTY	UNITS	COMPLETION DATE	COMMENT
5.9A @ 4	90.15881	3.	0.5	CPM/G	7/24/90	
5.9A @ 9	90.15882	2.4	0.5	CPM/G	7/24/90	
5.9A @ 14	90.15883	1.6	0.4	CPM/G	7/24/90	
5.9A @ 19	90.15884	1.4	0.4	CPM/G	7/24/90	
5.9A @ 24	90.15885	1.	0.4	CPM/G	7/24/90	
5.9A @ 29	90.15886	4.2	0.6	CPM/G	7/24/90	
5.9A @ 34	90.15887	1.9	0.4	CPM/G	7/24/90	
5.9A @ 39	90.15888	2.5	0.5	CPM/G	7/24/90	
5.9A @ 40	90.15889	3.3	0.5	CPM/G	7/24/90	
5.9A @ 44	90.15890	4.3	0.6	CPM/G	7/24/90	
5.9A @ 47	90.15891	3.7	0.5	CPM/G	7/24/90	
5.9A @ 49	90.15892	6.4	0.8	CPM/G	7/24/90	
5.9A @ 54	90.15893	7.7	0.9	CPM/G	7/24/90	
5.9A @ 64	90.15894	7.8	0.9	CPM/G	7/24/90	
5.9A @ 69	90.15895	7.6	0.9	CPM/G	7/24/90	
5.9A @ 71.5	90.15896	8.1	0.9	CPM/G	7/24/90	
5.9A @ 79	90.15897	8.4	0.9	CPM/G	7/24/90	
5.9A @ 89	90.15898	5.7	0.7	CPM/G	7/24/90	
5.9A @ 94	90.15899	5.1	0.7	CPM/G	7/24/90	
5.9A @ 99	90.15900	5.3	0.7	CPM/G	7/24/90	
5.9A @ 102	90.15901	2.5	0.5	CPM/G	7/24/90	
5.9A @ 104	90.15902	3.6	0.5	CPM/G	7/24/90	
5.9A @ 109	90.15903	3.9	0.6	CPM/G	7/24/90	
5.9A @ 114	90.15904	4.2	0.6	CPM/G	7/24/90	
5.9A @ 119	90.15905	2.6	0.5	CPM/G	7/24/90	
5.9A @ 124	90.15906	5.	0.6	CPM/G	7/24/90	
5.9A @ 129	90.15907	4.4	0.6	CPM/G	7/24/90	
5.9A @ 134	90.15908	5.5	0.7	CPM/G	7/24/90	
5.9A @ 139	90.15909	4.5	0.6	CPM/G	7/24/90	
5.9A @ 144	90.15910	5.	0.6	CPM/G	7/24/90	
5.9A @ 149	90.15911	5.1	0.7	CPM/G	7/24/90	
5.9A @ 154	90.15912	4.7	0.6	CPM/G	7/24/90	
5.9A @ 159	90.15913	5.2	0.7	CPM/G	7/24/90	
5.9A @ 164	90.15914	5.2	0.7	CPM/G	7/24/90	
5.9A @ 169	90.15915	5.2	0.7	CPM/G	7/24/90	
5.9A @ 174	90.15916	5.4	0.7	CPM/G	7/24/90	
5.9A @ 179	90.15917	6.2	0.7	CPM/G	7/24/90	
5.9A @ 184	90.16003	4.8	0.6	CPM/G	7/24/90	
5.9A @ 189	90.16004	4.9	0.6	CPM/G	7/24/90	
5.9A @ 194	90.16005	4.8	0.6	CPM/G	7/24/90	

REPORT NUMBER: 7527 (continued)

********** HSE-9 QUALITY ASSURANCE REPORT *********

Prepared by: YIG on 31-Jul-1990

REQUEST NUMBER: 10596 MATRIX: S ANALYST: George Brooks PROGRAM CODE: M211

OWNER: Max Maes GROUP: HSE-8 MAIL-STOP: K490 PHONE: 7-0817 TASK-ID: 1

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

___ No QC samples run with this sample batch.

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

Yig	D Knab	mag
Analyst	Section Leader	QA Officer
7/31/90	8-3-90	8-3-90
Date	Date	Date

The control status of the preceeding data was evaluated using the standard statistical criteria set forth in 'Quality Assurance for Health and Environmental Chemistry: 1986,' LA-11114-MS, pp. 3-4.

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REPORT NUMBER: 9428

********** HSE-9 ANALYTICAL REPORT **********

Prepared by: DK on 1-Feb-1991

ANALYSIS: SR-90 REQUEST NUMBER: 10596 MATRIX: S ANALYST: Richard Peters PROGRAM CODE: [illegible]

OWNER: Max Maes GROUP: HSE-8 MAIL-STOP: K400 PHONE: 7-0817 TASK [illegible]

ANALYTICAL TECHNIQUE: PC ANALYTICAL PROCEDURE :

CUSTOMER NUM	SAMPLE NUM	RESULT	UNCERTAINTY	UNITS	COMPLETION DATE	COMMENT
5.9A @ 4	90.15881	0.65	0.2	PCI/G	11/15/90	
5.9A @ 9	90.15882	0.4	0.2	PCI/G	11/15/90	
5.9A @ 14	90.15883	0.04	0.2	PCI/G	11/15/90	
5.9A @ 19	90.15884	0.2	0.2	PCI/G	11/15/90	
5.9A @ 24	90.15885	0.55	0.2	PCI/G	11/15/90	
5.9A @ 29	90.15886	0.32	0.2	PCI/G	11/15/90	
5.9A @ 34	90.15887	0.62	0.2	PCI/G	11/15/90	
5.9A @ 39	90.15888	0.77	0.2	PCI/G	11/15/90	
5.9A @ 40	90.15889	0.52	0.17	PCI/G	2/01/91	
5.9A @ 44	90.15890	0.51	0.16	PCI/G	2/01/91	
5.9A @ 47	90.15891	1.18	0.25	PCI/G	2/01/91	
5.9A @ 49	90.15892	0.32	0.16	PCI/G	2/01/91	
5.9A @ 54	90.15893	0.09	0.2	PCI/G	11/15/90	
5.9A @ 64	90.15894	0.06	0.2	PCI/G	11/15/90	
5.9A @ 69	90.15895	0.07	0.2	PCI/G	11/15/90	
5.9A @ 71.5	90.15896	0.08	0.2	PCI/G	11/15/90	
5.9A @ 79	90.15897	0.61	0.2	PCI/G	11/15/90	
5.9A @ 89	90.15898	0.17	0.2	PCI/G	11/15/90	
5.9A @ 94	90.15899	0.34	0.2	PCI/G	11/15/90	
5.9A @ 99	90.15900	0.43	0.2	PCI/G	11/15/90	
5.9A @ 102	90.15901	0.47	0.2	PCI/G	11/15/90	
5.9A @ 104	90.15902	0.01	0.2	PCI/G	11/15/90	
5.9A @ 109	90.15903	0.1	0.2	PCI/G	11/15/90	
5.9A @ 114	90.15904	0.13	0.2	PCI/G	11/15/90	
5.9A @ 119	90.15905	0.07	0.2	PCI/G	11/15/90	
5.9A @ 124	90.15906	0.47	0.2	PCI/G	11/15/90	
5.9A @ 129	90.15907	0.32	0.2	PCI/G	11/15/90	
5.9A @ 134	90.15908	0.15	0.2	PCI/G	11/15/90	
5.9A @ 139	90.15909	0.03	0.2	PCI/G	11/15/90	
5.9A @ 144	90.15910	0.31	0.2	PCI/G	11/15/90	
5.9A @ 149	90.15911	0.08	0.2	PCI/G	11/15/90	
5.9A @ 154	90.15912	0.26	0.2	PCI/G	11/15/90	
5.9A @ 159	90.15913	0.19	0.2	PCI/G	11/16/90	
5.9A @ 164	90.15914	0.45	0.3	PCI/G	11/16/90	
5.9A @ 169	90.15915	0.25	0.2	PCI/G	11/16/90	
5.9A @ 174	90.15916	0.44	0.3	PCI/G	11/16/90	
5.9A @ 179	90.15917	0.68	0.3	PCI/G	11/16/90	
5.9A @ 184	90.16003	0.07	0.2	PCI/G	11/16/90	
5.9A @ 189	90.16004	0.3	0.3	PCI/G	11/16/90	

5.9A @ 194 90.16005 0.43 0.2 PC1/G 11/16/90

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REPORT NUMBER: 10221

********** HSE-9 ANALYTICAL REPORT **********

Prepared by: EAJ on 8-May-1991

REQUEST NUMBER: 10596 MATRIX: S ANALYST: George Brooks PROGRAM CODE: M211

OWNER: Max Maes GROUP: HSE-8 MAIL-STOP: K490 PHONE: 7-0817 TASK-ID: 1

CUSTOMER NUM	SAMPLE NUM	ANALYSIS		RESULT	UNCERTAINTY	UNITS	COMPLETION DATE	COMMENT
5.9A @ 4	90.15881	AM-241		0.1	2.7	PCI/GRAM	8/28/90	
5.9A @ 4	90.15881	CO-57		0.0	0.89	PCI/GRAM	8/28/90	
5.9A @ 4	90.15881	CO-60	-	0.027	2.1	PCI/GRAM	8/28/90	
5.9A @ 4	90.15881	CS-134		0.023	1.1	PCI/GRAM	8/28/90	
5.9A @ 4	90.15881	CS-137		0.57	1.8	PCI/GRAM	8/28/90	
5.9A @ 4	90.15881	SE-75		0.024	0.83	PCI/GRAM	8/28/90	
5.9A @ 9	90.15882	AM-241		0.058	2.7	PCI/GRAM	8/28/90	
5.9A @ 9	90.15882	CO-57		0.0006	0.89	PCI/GRAM	8/28/90	
5.9A @ 9	90.15882	CO-60		0.15	2.1	PCI/GRAM	8/28/90	
5.9A @ 9	90.15882	CS-134	-	0.0052	1.1	PCI/GRAM	8/28/90	
5.9A @ 9	90.15882	CS-137	-	0.0014	1.8	PCI/GRAM	8/28/90	
5.9A @ 9	90.15882	SE-75		0.0003	0.83	PCI/GRAM	8/28/90	
5.9A @ 14	90.15883	AM-241		0.0	2.7	PCI/GRAM	8/28/90	
5.9A @ 14	90.15883	CO-57	-	0.0058	0.89	PCI/GRAM	8/28/90	
5.9A @ 14	90.15883	CO-60		0.12	2.1	PCI/GRAM	8/28/90	
5.9A @ 14	90.15883	CS-134		0.036	1.1	PCI/GRAM	8/28/90	
5.9A @ 14	90.15883	CS-137	-	0.0021	1.8	PCI/GRAM	8/28/90	
5.9A @ 14	90.15883	SE-75		0.0	0.83	PCI/GRAM	8/28/90	
5.9A @ 19	90.15884	AM-241		2.7	2.7	PCI/GRAM	8/28/90	
5.9A @ 19	90.15884	CO-57		0.14	0.89	PCI/GRAM	8/28/90	
5.9A @ 19	90.15884	CO-60		0.26	2.1	PCI/GRAM	8/28/90	
5.9A @ 19	90.15884	CS-134	-	0.012	1.1	PCI/GRAM	8/28/90	
5.9A @ 19	90.15884	CS-137		0.14	1.8	PCI/GRAM	8/28/90	
5.9A @ 19	90.15884	SE-75		0.024	0.83	PCI/GRAM	8/28/90	
5.9A @ 24	90.15885	AM-241		0.0007	2.7	PCI/GRAM	8/28/90	
5.9A @ 24	90.15885	CO-57	-	0.0005	0.89	PCI/GRAM	8/28/90	
5.9A @ 24	90.15885	CO-60	-	0.04	2.1	PCI/GRAM	8/28/90	
5.9A @ 24	90.15885	CS-134		0.024	1.1	PCI/GRAM	8/28/90	
5.9A @ 24	90.15885	CS-137	-	0.0021	1.8	PCI/GRAM	8/28/90	
5.9A @ 24	90.15885	SE-75		0.0021	0.83	PCI/GRAM	8/28/90	
5.9A @ 29	90.15886	AM-241		0.014	2.7	PCI/GRAM	8/28/90	
5.9A @ 29	90.15886	CO-57	-	0.011	0.89	PCI/GRAM	8/28/90	
5.9A @ 29	90.15886	CO-60	-	0.045	2.1	PCI/GRAM	8/28/90	
5.9A @ 29	90.15886	CS-134		0.01	1.1	PCI/GRAM	8/28/90	
5.9A @ 29	90.15886	CS-137	-	0.0024	1.8	PCI/GRAM	8/28/90	
5.9A @ 29	90.15886	SE-75		0.064	0.83	PCI/GRAM	8/28/90	
5.9A @ 34	90.15887	AM-241		0.0	2.7	PCI/GRAM	8/28/90	
5.9A @ 34	90.15887	CO-57	-	0.013	0.89	PCI/GRAM	8/28/90	
5.9A @ 34	90.15887	CO-60		0.082	2.1	PCI/GRAM	8/28/90	
5.9A @ 34	90.15887	CS-134		0.033	1.1	PCI/GRAM	8/28/90	

5.9A @ 34	90.15887	CS-137	-	0.001	1.8	PCI/GRAM	8/28/90
5.9A @ 34	90.15887	SE-75		0.0021	0.83	PCI/GRAM	8/28/90
5.9A @ 39	90.15888	AM-241		0.0032	2.7	PCI/GRAM	8/28/90
5.9A @ 39	90.15888	CO-57		0.062	0.89	PCI/GRAM	8/28/90
5.9A @ 39	90.15888	CO-60		0.18	2.1	PCI/GRAM	8/28/90
5.9A @ 39	90.15888	CS-134	-	0.0046	1.1	PCI/GRAM	8/28/90
5.9A @ 39	90.15888	CS-137	-	0.0031	1.8	PCI/GRAM	8/28/90
5.9A @ 39	90.15888	SE-75		0.0062	0.83	PCI/GRAM	8/28/90
5.9A @ 40	90.15889	AM-241		0.049	2.7	PCI/GRAM	8/28/90
5.9A @ 40	90.15889	CO-57	-	0.017	0.89	PCI/GRAM	8/28/90
5.9A @ 40	90.15889	CO-60		0.047	2.1	PCI/GRAM	8/28/90
5.9A @ 40	90.15889	CS-134		0.064	1.1	PCI/GRAM	8/28/90
5.9A @ 40	90.15889	CS-137	-	0.01	1.8	PCI/GRAM	8/28/90
5.9A @ 40	90.15889	SE-75		0.049	0.83	PCI/GRAM	8/28/90
5.9A @ 44	90.15890	AM-241		0.0	2.7	PCI/GRAM	8/28/90
5.9A @ 44	90.15890	CO-57	-	0.0022	0.89	PCI/GRAM	8/28/90
5.9A @ 44	90.15890	CO-60		0.19	2.1	PCI/GRAM	8/28/90
5.9A @ 44	90.15890	CS-134		0.021	1.1	PCI/GRAM	8/28/90
5.9A @ 44	90.15890	CS-137	-	0.0076	1.8	PCI/GRAM	8/28/90
5.9A @ 44	90.15890	SE-75		0.0022	0.83	PCI/GRAM	8/28/90
5.9A @ 47	90.15891	AM-241	-	0.032	2.7	PCI/GRAM	10/11/90
5.9A @ 47	90.15891	CO-57	-	0.019	0.89	PCI/GRAM	10/11/90
5.9A @ 47	90.15891	CO-60		0.024	2.1	PCI/GRAM	10/11/90
5.9A @ 47	90.15891	CS-134	-	0.0003	1.1	PCI/GRAM	10/11/90
5.9A @ 47	90.15891	CS-137		0.075	1.8	PCI/GRAM	10/11/90
5.9A @ 47	90.15891	SE-75	-	0.016	0.83	PCI/GRAM	10/11/90
5.9A @ 49	90.15892	AM-241	-	0.0032	2.7	PCI/GRAM	10/11/90
5.9A @ 49	90.15892	CO-57		0.01	0.89	PCI/GRAM	10/11/90
5.9A @ 49	90.15892	CO-60		0.0095	2.1	PCI/GRAM	10/11/90
5.9A @ 49	90.15892	CS-134		0.036	1.1	PCI/GRAM	10/11/90
5.9A @ 49	90.15892	CS-137		0.033	1.8	PCI/GRAM	10/11/90
5.9A @ 49	90.15892	SE-75		0.065	0.83	PCI/GRAM	10/11/90
5.9A @ 54	90.15893	AM-241	-	0.16	2.7	PCI/GRAM	10/11/90
5.9A @ 54	90.15893	CO-57		0.002	0.89	PCI/GRAM	10/11/90
5.9A @ 54	90.15893	CO-60		0.079	2.1	PCI/GRAM	10/11/90
5.9A @ 54	90.15893	CS-134	-	0.0022	1.1	PCI/GRAM	10/11/90
5.9A @ 54	90.15893	CS-137		0.065	1.8	PCI/GRAM	10/11/90
5.9A @ 54	90.15893	SE-75	-	0.0057	0.83	PCI/GRAM	10/11/90
5.9A @ 64	90.15894	AM-241	-	0.17	2.7	PCI/GRAM	10/11/90
5.9A @ 64	90.15894	CO-57	-	0.013	0.89	PCI/GRAM	10/11/90
5.9A @ 64	90.15894	CO-60		0.07	2.1	PCI/GRAM	10/11/90
5.9A @ 64	90.15894	CS-134	-	0.048	1.1	PCI/GRAM	10/11/90
5.9A @ 64	90.15894	CS-137		0.0096	1.8	PCI/GRAM	10/11/90
5.9A @ 64	90.15894	SE-75		0.13	0.83	PCI/GRAM	10/11/90
5.9A @ 69	90.15895	AM-241	-	0.0063	2.7	PCI/GRAM	10/11/90
5.9A @ 69	90.15895	CO-57		0.0029	0.89	PCI/GRAM	10/11/90
5.9A @ 69	90.15895	CO-60		0.17	2.1	PCI/GRAM	10/11/90
5.9A @ 69	90.15895	CS-134		0.027	1.1	PCI/GRAM	10/11/90
5.9A @ 69	90.15895	CS-137		0.015	1.8	PCI/GRAM	10/11/90
5.9A @ 69	90.15895	SE-75		0.063	0.83	PCI/GRAM	10/11/90
5.9A @ 71.5	90.15896	AM-241	-	0.063	2.7	PCI/GRAM	10/11/90
5.9A @ 71.5	90.15896	CO-57		0.0066	0.89	PCI/GRAM	10/11/90
5.9A @ 71.5	90.15896	CO-60		0.041	2.1	PCI/GRAM	10/11/90
5.9A @ 71.5	90.15896	CS-134	-	0.013	1.1	PCI/GRAM	10/11/90
5.9A @ 71.5	90.15896	CS-137		0.0023	1.8	PCI/GRAM	10/11/90
5.9A @ 71.5	90.15896	SE-75	-	0.035	0.83	PCI/GRAM	10/11/90
5.9A @ 79	90.15897	AM-241	-	0.03	2.7	PCI/GRAM	10/11/90
5.9A @ 79	90.15897	CO-57		0.0043	0.89	PCI/GRAM	10/11/90
5.9A @ 79	90.15897	CO-60		0.082	2.1	PCI/GRAM	10/11/90
5.9A @ 79	90.15897	CS-134	-	0.02	1.1	PCI/GRAM	10/11/90

5.9A @ 79	90.15897	CS-137		0.0069	1.8	PCI/GRAM	10/11/90
5.9A @ 79	90.15897	SE-75	-	0.03	0.83	PCI/GRAM	10/11/90
5.9A @ 89	90.15898	AM-241		0.13	2.7	PCI/GRAM	10/11/90
5.9A @ 89	90.15898	CO-57		0.0	0.89	PCI/GRAM	10/11/90
5.9A @ 89	90.15898	CO-60		0.11	2.1	PCI/GRAM	10/11/90
5.9A @ 89	90.15898	CS-134		0.0067	1.1	PCI/GRAM	10/11/90
5.9A @ 89	90.15898	CS-137	-	0.0015	1.8	PCI/GRAM	10/11/90
5.9A @ 89	90.15898	SE-75		0.038	0.83	PCI/GRAM	10/11/90
5.9A @ 94	90.15899	AM-241		0.33	2.7	PCI/GRAM	10/11/90
5.9A @ 94	90.15899	CO-57		0.0038	0.89	PCI/GRAM	10/11/90
5.9A @ 94	90.15899	CO-60		0.047	2.1	PCI/GRAM	10/11/90
5.9A @ 94	90.15899	CS-134	-	0.0022	1.1	PCI/GRAM	10/11/90
5.9A @ 94	90.15899	CS-137	-	0.012	1.8	PCI/GRAM	10/11/90
5.9A @ 94	90.15899	SE-75		0.016	0.83	PCI/GRAM	10/11/90
5.9A @ 99	90.15900	AM-241		0.0	2.7	PCI/GRAM	10/11/90
5.9A @ 99	90.15900	CO-57		0.0	0.89	PCI/GRAM	10/11/90
5.9A @ 99	90.15900	CO-60		0.066	2.1	PCI/GRAM	10/11/90
5.9A @ 99	90.15900	CS-134		0.031	1.1	PCI/GRAM	10/11/90
5.9A @ 99	90.15900	CS-137		0.031	1.8	PCI/GRAM	10/11/90
5.9A @ 99	90.15900	SE-75		0.0058	0.83	PCI/GRAM	10/11/90
5.9A @ 102	90.15901	AM-241		0.037	2.7	PCI/GRAM	9/26/90
5.9A @ 102	90.15901	CO-57	-	0.0076	0.89	PCI/GRAM	9/26/90
5.9A @ 102	90.15901	CO-60		0.14	2.1	PCI/GRAM	9/26/90
5.9A @ 102	90.15901	CS-134		0.029	1.1	PCI/GRAM	9/26/90
5.9A @ 102	90.15901	CS-137	-	0.0052	1.8	PCI/GRAM	9/26/90
5.9A @ 102	90.15901	SE-75		0.0023	0.83	PCI/GRAM	9/26/90
5.9A @ 104	90.15902	AM-241		0.022	2.7	PCI/GRAM	10/01/90
5.9A @ 104	90.15902	CO-57	-	0.0061	1.3	PCI/GRAM	10/01/90
5.9A @ 104	90.15902	CO-60		0.089	2.2	PCI/GRAM	10/01/90
5.9A @ 104	90.15902	CS-134		0.02	1.3	PCI/GRAM	10/01/90
5.9A @ 104	90.15902	CS-137		0.053	1.8	PCI/GRAM	10/01/90
5.9A @ 104	90.15902	SE-75	-	0.016	2.	PCI/GRAM	10/01/90
5.9A @ 109	90.15903	AM-241		0.024	2.7	PCI/GRAM	9/26/90
5.9A @ 109	90.15903	CO-57	-	0.0031	0.89	PCI/GRAM	9/26/90
5.9A @ 109	90.15903	CO-60	-	0.049	2.1	PCI/GRAM	9/26/90
5.9A @ 109	90.15903	CS-134		0.011	1.1	PCI/GRAM	9/26/90
5.9A @ 109	90.15903	CS-137		0.0	1.8	PCI/GRAM	9/26/90
5.9A @ 109	90.15903	SE-75		0.05	0.83	PCI/GRAM	9/26/90
5.9A @ 114	90.15904	AM-241		0.044	2.7	PCI/GRAM	10/01/90
5.9A @ 114	90.15904	CO-57		0.0	1.3	PCI/GRAM	10/01/90
5.9A @ 114	90.15904	CO-60		0.031	2.2	PCI/GRAM	10/01/90
5.9A @ 114	90.15904	CS-134	-	0.0022	1.3	PCI/GRAM	10/01/90
5.9A @ 114	90.15904	CS-137		0.028	1.8	PCI/GRAM	10/01/90
5.9A @ 114	90.15904	SE-75		0.037	2.	PCI/GRAM	10/01/90
5.9A @ 119	90.15905	AM-241		0.0	2.7	PCI/GRAM	9/26/90
5.9A @ 119	90.15905	CO-57	-	0.011	0.89	PCI/GRAM	9/26/90
5.9A @ 119	90.15905	CO-60		0.042	2.1	PCI/GRAM	9/26/90
5.9A @ 119	90.15905	CS-134		0.047	1.1	PCI/GRAM	9/26/90
5.9A @ 119	90.15905	CS-137	-	0.0024	1.8	PCI/GRAM	9/26/90
5.9A @ 119	90.15905	SE-75		0.019	0.83	PCI/GRAM	9/26/90
5.9A @ 124	90.15906	AM-241	-	0.016	2.7	PCI/GRAM	10/01/90
5.9A @ 124	90.15906	CO-57		0.088	1.3	PCI/GRAM	10/01/90
5.9A @ 124	90.15906	CO-60	-	0.0063	2.2	PCI/GRAM	10/01/90
5.9A @ 124	90.15906	CS-134	-	0.026	1.3	PCI/GRAM	10/01/90
5.9A @ 124	90.15906	CS-137		0.062	1.8	PCI/GRAM	10/01/90
5.9A @ 124	90.15906	SE-75		0.1	2.	PCI/GRAM	10/01/90
5.9A @ 129	90.15907	AM-241		0.055	2.7	PCI/GRAM	9/26/90
5.9A @ 129	90.15907	CO-57	-	0.011	0.89	PCI/GRAM	9/26/90
5.9A @ 129	90.15907	CO-60		0.16	2.1	PCI/GRAM	9/26/90
5.9A @ 129	90.15907	CS-134		0.058	1.1	PCI/GRAM	9/26/90

5.9A @ 129	90.15907	CS-137	-	0.0024	1.8	PCI/GRAM	9/26/90
5.9A @ 129	90.15907	SE-75		0.0036	0.83	PCI/GRAM	9/26/90
5.9A @ 134	90.15908	AM-241		0.0	2.7	PCI/GRAM	10/01/90
5.9A @ 134	90.15908	CO-57	-	0.0081	1.3	PCI/GRAM	10/01/90
5.9A @ 134	90.15908	CO-60		0.051	2.2	PCI/GRAM	10/01/90
5.9A @ 134	90.15908	CS-134		0.0	1.3	PCI/GRAM	10/01/90
5.9A @ 134	90.15908	CS-137		0.018	1.8	PCI/GRAM	10/01/90
5.9A @ 134	90.15908	SE-75	-	0.0056	2.	PCI/GRAM	10/01/90
5.9A @ 139	90.15909	AM-241		0.019	2.7	PCI/GRAM	9/26/90
5.9A @ 139	90.15909	CO-57	-	0.0015	0.89	PCI/GRAM	9/26/90
5.9A @ 139	90.15909	CO-60		0.23	2.1	PCI/GRAM	9/26/90
5.9A @ 139	90.15909	CS-134		0.052	1.1	PCI/GRAM	9/26/90
5.9A @ 139	90.15909	CS-137	-	0.0031	1.8	PCI/GRAM	9/26/90
5.9A @ 139	90.15909	SE-75	-	0.0005	0.83	PCI/GRAM	9/26/90
5.9A @ 144	90.15910	AM-241		0.0095	2.7	PCI/GRAM	10/01/90
5.9A @ 144	90.15910	CO-57		0.025	1.3	PCI/GRAM	10/01/90
5.9A @ 144	90.15910	CO-60	-	0.0005	2.2	PCI/GRAM	10/01/90
5.9A @ 144	90.15910	CS-134		0.016	1.3	PCI/GRAM	10/01/90
5.9A @ 144	90.15910	CS-137		0.024	1.8	PCI/GRAM	10/01/90
5.9A @ 144	90.15910	SE-75		0.0094	2.	PCI/GRAM	10/01/90
5.9A @ 149	90.15911	AM-241		0.032	2.7	PCI/GRAM	9/26/90
5.9A @ 149	90.15911	CO-57	-	0.0043	0.89	PCI/GRAM	9/26/90
5.9A @ 149	90.15911	CO-60		0.17	2.1	PCI/GRAM	9/26/90
5.9A @ 149	90.15911	CS-134		0.008	1.1	PCI/GRAM	9/26/90
5.9A @ 149	90.15911	CS-137		0.037	1.8	PCI/GRAM	9/26/90
5.9A @ 149	90.15911	SE-75		0.053	0.83	PCI/GRAM	9/26/90
5.9A @ 154	90.15912	AM-241	-	0.0048	2.7	PCI/GRAM	10/01/90
5.9A @ 154	90.15912	CO-57		0.005	1.3	PCI/GRAM	10/01/90
5.9A @ 154	90.15912	CO-60		0.025	2.2	PCI/GRAM	10/01/90
5.9A @ 154	90.15912	CS-134		0.0096	1.3	PCI/GRAM	10/01/90
5.9A @ 154	90.15912	CS-137		0.02	1.8	PCI/GRAM	10/01/90
5.9A @ 154	90.15912	SE-75	-	0.049	2.	PCI/GRAM	10/01/90
5.9A @ 159	90.15913	AM-241		0.11	3.7	PCI/GRAM	9/26/90
5.9A @ 159	90.15913	CO-57	-	0.038	0.89	PCI/GRAM	9/26/90
5.9A @ 159	90.15913	CO-60	-	0.03	2.1	PCI/GRAM	9/26/90
5.9A @ 159	90.15913	CS-134		0.071	1.1	PCI/GRAM	9/26/90
5.9A @ 159	90.15913	CS-137	-	0.0072	1.8	PCI/GRAM	9/26/90
5.9A @ 159	90.15913	SE-75		0.0	0.83	PCI/GRAM	9/26/90
5.9A @ 164	90.15914	AM-241		0.032	2.7	PCI/GRAM	10/01/90
5.9A @ 164	90.15914	CO-57	-	0.014	1.3	PCI/GRAM	10/01/90
5.9A @ 164	90.15914	CO-60		0.1	2.2	PCI/GRAM	10/01/90
5.9A @ 164	90.15914	CS-134		0.023	1.3	PCI/GRAM	10/01/90
5.9A @ 164	90.15914	CS-137		0.022	1.8	PCI/GRAM	10/01/90
5.9A @ 164	90.15914	SE-75	-	0.018	2.	PCI/GRAM	10/01/90
5.9A @ 169	90.15915	AM-241		0.0077	2.7	PCI/GRAM	9/26/90
5.9A @ 169	90.15915	CO-57	-	0.052	0.89	PCI/GRAM	9/26/90
5.9A @ 169	90.15915	CO-60		0.19	2.1	PCI/GRAM	9/26/90
5.9A @ 169	90.15915	CS-134		0.083	1.1	PCI/GRAM	9/26/90
5.9A @ 169	90.15915	CS-137		0.0	1.8	PCI/GRAM	9/26/90
5.9A @ 169	90.15915	SE-75		0.046	0.83	PCI/GRAM	9/26/90
5.9A @ 174	90.15916	AM-241	-	0.048	2.7	PCI/GRAM	10/01/90
5.9A @ 174	90.15916	CO-57		0.077	1.3	PCI/GRAM	10/01/90
5.9A @ 174	90.15916	CO-60		0.08	2.2	PCI/GRAM	10/01/90
5.9A @ 174	90.15916	CS-134		0.0016	1.3	PCI/GRAM	10/01/90
5.9A @ 174	90.15916	CS-137		0.0054	1.8	PCI/GRAM	10/01/90
5.9A @ 174	90.15916	SE-75		0.019	2.	PCI/GRAM	10/01/90
5.9A @ 179	90.15917	AM-241	-	0.0089	2.7	PCI/GRAM	9/26/90
5.9A @ 179	90.15917	CO-57		0.0	0.89	PCI/GRAM	9/26/90
5.9A @ 179	90.15917	CO-60		0.1	2.1	PCI/GRAM	9/26/90
5.9A @ 179	90.15917	CS-134		0.033	1.1	PCI/GRAM	9/26/90

5.9A @ 179	90.15917	CS-137	-	0.0021	1.8	PCI/GRAM	9/26/90
5.9A @ 179	90.15917	SE-75		0.076	0.83	PCI/GRAM	9/26/90
5.9A @ 184	90.16003	AM-241		0.2	2.7	PCI/GRAM	10/01/90
5.9A @ 184	90.16003	CO-57		0.066	1.3	PCI/GRAM	10/01/90
5.9A @ 184	90.16003	CO-60		0.041	2.2	PCI/GRAM	10/01/90
5.9A @ 184	90.16003	CS-134		0.025	1.3	PCI/GRAM	10/01/90
5.9A @ 184	90.16003	CS-137		0.018	1.8	PCI/GRAM	10/01/90
5.9A @ 184	90.16003	SE-75		0.0038	2.	PCI/GRAM	10/01/90
5.9A @ 189	90.16004	AM-241		0.0089	2.7	PCI/GRAM	9/26/90
5.9A @ 189	90.16004	CO-57	-	0.029	0.89	PCI/GRAM	9/26/90
5.9A @ 189	90.16004	CO-60	-	0.014	2.1	PCI/GRAM	9/26/90
5.9A @ 189	90.16004	CS-134		0.098	1.1	PCI/GRAM	9/26/90
5.9A @ 189	90.16004	CS-137		0.0041	1.8	PCI/GRAM	9/26/90
5.9A @ 189	90.16004	SE-75		0.0034	0.83	PCI/GRAM	9/26/90
5.9A @ 194	90.16005	AM-241		0.0	2.7	PCI/GRAM	10/01/90
5.9A @ 194	90.16005	CO-57		0.0016	1.3	PCI/GRAM	10/01/90
5.9A @ 194	90.16005	CO-60		0.11	2.2	PCI/GRAM	10/01/90
5.9A @ 194	90.16005	CS-134		0.031	1.3	PCI/GRAM	10/01/90
5.9A @ 194	90.16005	CS-137		0.0023	1.8	PCI/GRAM	10/01/90
5.9A @ 194	90.16005	SE-75	-	0.017	2.	PCI/GRAM	10/01/90

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REPORT NUMBER: 10221 (continued)

********** HSE-9 QUALITY ASSURANCE REPORT *********

Prepared by: EAJ on 8-May-1991

REQUEST NUMBER: 10596 MATRIX: S ANALYST: George Brooks PROGRAM CODE: M211

OWNER: Max Maes GROUP: HSE-8 MAIL-STOP: K490 PHONE: 7-0817 TASK-ID: 1

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 sample batch.

____ No QC samples run with this sample batch.

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

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

SAMPLE NUM	ANALYSIS	RESULT	UNCERTAINTY	UNITS	CERTIFIED VALUE	CERTIFIED VALUE UNCERTAINTY	COMPLETION DATE	COMMENT
90.15955	CS-137	3.9	1.8	PCI/G	5.3	0.5	8/28/90	UNDER CONTROL
90.15956	CS-137	14.92	3.6	PCI/G	15.9	2.	10/01/90	UNDER CONTROL
90.15957	CS-137	9.7	1.8	PCI/G	12.3	1.	10/11/90	UNDER CONTROL
90.15958	CS-137	0.065	1.8	PCI/G	0.0		10/01/90	UNDER CONTROL

REPORT NUMBER: 10221

Analyst	Section Leader	QA Officer
Date	Date	Date

The control status of the preceeding data was evaluated using the standard statistical criteria set forth in 'Quality Assurance for Health and Environmental Chemistry: 1986,' LA-11114-MS, pp. 3-4.

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REPORT NUMBER: 8002

********** HSE-9 ANALYTICAL REPORT **********

Prepared by: YIG on 4-Sep-1990

ANALYSIS: U REQUEST NUMBER: 10596 MATRIX: S ANALYST: George Brooks PROGRAM CODE: M211

OWNER: Max Maes GROUP: HSE-8 MAIL-STOP: K490 PHONE: 7-0817 TASK-ID: 1

ANALYTICAL TECHNIQUE: DNA ANALYTICAL PROCEDURE :

CUSTOMER NUM	SAMPLE NUM	RESULT	UNCERTAINTY	UNITS	COMPLETION DATE	COMMENT
5.9A @ 4	90.15881	3.02	0.3	UG/G	8/30/90	
5.9A @ 9	90.15882	2.37	0.24	UG/G	8/30/90	
5.9A @ 14	90.15883	1.82	0.18	UG/G	8/30/90	
5.9A @ 19	90.15884	1.63	0.16	UG/G	8/30/90	
5.9A @ 24	90.15885	1.85	0.18	UG/G	8/30/90	
5.9A @ 29	90.15886	5.33	0.53	UG/G	8/30/90	
5.9A @ 34	90.15887	2.47	0.25	UG/G	8/30/90	
5.9A @ 39	90.15888	3.3	0.33	UG/G	8/30/90	
5.9A @ 40	90.15889	3.62	0.36	UG/G	8/30/90	
5.9A @ 44	90.15890	4.51	0.45	UG/G	8/30/90	
5.9A @ 47	90.15891	4.63	0.46	UG/G	8/30/90	
5.9A @ 49	90.15892	6.65	0.66	UG/G	8/30/90	
5.9A @ 54	90.15893	8.31	0.83	UG/G	8/30/90	
5.9A @ 64	90.15894	8.78	0.88	UG/G	8/30/90	
5.9A @ 69	90.15895	8.66	0.86	UG/G	8/30/90	
5.9A @ 71.5	90.15896	8.24	0.82	UG/G	8/30/90	
5.9A @ 79	90.15897	9.67	0.97	UG/G	8/30/90	
5.9A @ 89	90.15898	5.45	0.54	UG/G	8/30/90	
5.9A @ 94	90.15899	6.45	0.64	UG/G	8/30/90	
5.9A @ 99	90.15900	6.3	0.63	UG/G	8/30/90	
5.9A @ 102	90.15901	3.99	0.4	UG/G	8/30/90	
5.9A @ 104	90.15902	4.93	0.5	UG/G	8/30/90	
5.9A @ 109	90.15903	4.19	0.42	UG/G	8/30/90	
5.9A @ 114	90.15904	4.86	0.49	UG/G	8/30/90	
5.9A @ 119	90.15905	2.9	0.3	UG/G	8/30/90	
5.9A @ 124	90.15906	5.3	0.53	UG/G	8/30/90	
5.9A @ 129	90.15907	5.83	0.58	UG/G	8/30/90	
5.9A @ 134	90.15908	5.94	0.6	UG/G	8/30/90	
5.9A @ 139	90.15909	5.86	0.6	UG/G	8/30/90	
5.9A @ 144	90.15910	5.98	0.6	UG/G	8/30/90	
5.9A @ 149	90.15911	5.85	0.6	UG/G	8/30/90	
5.9A @ 154	90.15912	5.64	0.56	UG/G	8/30/90	
5.9A @ 159	90.15913	6.01	0.6	UG/G	8/30/90	
5.9A @ 164	90.15914	5.86	0.6	UG/G	8/30/90	
5.9A @ 169	90.15915	5.9	0.6	UG/G	8/30/90	
5.9A @ 174	90.15916	5.85	0.6	UG/G	8/30/90	
5.9A @ 179	90.15917	6.55	0.65	UG/G	8/30/90	
5.9A @ 184	90.16003	5.6	0.56	UG/G	8/30/90	
5.9A @ 189	90.16004	5.6	0.56	UG/G	8/30/90	
5.9A @ 194	90.16005	5.52	0.55	UG/G	8/30/90	

REPORT NUMBER: 8002 (continued)

********** HSE-9 QUALITY ASSURANCE REPORT *********

Prepared by: YIG on 4-Sep-1990

REQUEST NUMBER: 10596 MATRIX: S ANALYST: George Brooks PROGRAM CODE: M211

OWNER: Max Maes GROUP: HSE-8 MAIL-STOP: K490 PHONE: 7-0817 TASK-ID: 1

CUSTOMER NUM	SAMPLE NUM	RESULT	UNCERTAINTY	UNITS	CERTIFIED VALUE	CERTIFIED VALUE UNCERTAINTY	COMPLETION DATE	COMMENT
00.00551	00.00551	4.57	0.46	UG/G	4.58	0.04	8/30/90	UNDER CONTROL
00.00551	00.00551	4.56	0.45	UG/G	4.58	0.04	8/30/90	UNDER CONTROL
00.00608	00.00608	1.13	0.11	UG/G	1.11	0.05	8/30/90	UNDER CONTROL
00.00608	00.00608	1.16	0.11	UG/G	1.11	0.05	8/30/90	UNDER CONTROL
00.00608	00.00608	1.03	0.1	UG/G	1.11	0.05	8/30/90	UNDER CONTROL

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

SAMPLE NUM	RESULT	UNCERTAINTY	UNITS	CERTIFIED VALUE	CERTIFIED VALUE UNCERTAINTY	COMPLETION DATE	COMMENT
90.15971	265.14	26.51	UG/G	280.	25.	8/30/90	UNDER CONTROL
90.15972	245.71	24.57	UG/G	257.	26.	8/30/90	UNDER CONTROL
90.15973	197.19	19.71	UG/G	208.	21.	8/30/90	UNDER CONTROL
90.15974	67.46	6.8	UG/G	71.	7.	8/30/90	UNDER CONTROL

Yig	D Kuch	mag
Analyst	Section Leader	QA Officer
9/4/90	9-7-90	9-7-90
Date	Date	Date

The control status of the preceeding data was evaluated using the standard statistical criteria set forth in 'Quality Assurance for Health and Environmental Chemistry: 1986,' LA-11114-MS, pp. 3-4.

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8.5.3 Hole 8.2

REPORT NUMBER: 9506

********** HSE-9 ANALYTICAL REPORT **********

Prepared by: YIG on 12-Feb-1991

ANALYSIS: AM-241 REQUEST NUMBER: 6899 MATRIX: S ANALYST: George Brooks PROGRAM CODE: W57J

OWNER: Bill Purtymun GROUP: HSE-8 MAIL-STOP: K490 PHONE: 7-0810

ANALYTICAL TECHNIQUE: G ANALYTICAL PROCEDURE :

CUSTOMER NUM	SAMPLE NUM	RESULT	UNCERTAINTY	UNITS	COMPLETION DATE	COMMENT
8.2.04	89.11446	0.02	0.0107	PCI/G	2/11/91	
8.2.14	89.11447	0.0296	0.0107	PCI/G	2/11/91	
8.2.24	89.11448	0.0337	0.0843	PCI/G	2/12/91	
8.2.34	89.11449	0.0126	0.0101	PCI/G	2/11/91	
8.2.44	89.11450	- 0.0038	0.0081	PCI/G	2/11/91	
8.2.54	89.11451	0.0091	0.009	PCI/G	2/11/91	
8.2.64	89.11452	0.0211	0.0097	PCI/G	2/11/91	
8.2.74	89.11453	0.0203	0.0102	PCI/G	2/11/91	
8.2.84	89.11454	0.0339	0.0116	PCI/G	2/11/91	
8.2.94	89.11455	0.0566	0.0143	PCI/G	2/11/91	
8.2.104	89.11470	0.0297	0.0118	PCI/G	2/11/91	
8.2.114	89.11488	0.0297	0.0111	PCI/G	2/11/91	
8.2.124	89.11489	0.0303	0.0111	PCI/G	2/11/91	
8.2.134	89.11490	0.03	0.0118	PCI/G	2/11/91	
8.2.144	89.11491	0.0366	0.0121	PCI/G	2/11/91	
8.2.154	89.11492	0.0318	0.0128	PCI/G	2/11/91	
8.2.164	89.11512	0.0554	0.0143	PCI/G	2/11/91	

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REPORT NUMBER: 9506 (continued)

********** HSE-9 QUALITY ASSURANCE REPORT *********

Prepared by: YIG on 12-Feb-1991

REQUEST NUMBER: 6899 MATRIX: S ANALYST: George Brooks PROGRAM CODE: W57J

OWNER: Bill Purtymun GROUP: HSE-8 MAIL-STOP: K490 PHONE: 7-0810

CUSTOMER NUM	SAMPLE NUM	RESULT	UNCERTAINTY	UNITS	CERTIFIED VALUE	CERTIFIED VALUE UNCERTAINTY	COMPLETION DATE	COMMENT
00.00971	00.00971	0.527	0.112	PCI/G	0.36	0.02	2/11/91	UNDER CONTROL
00.00971	00.00971	0.531	0.113	PCI/G	0.36	0.02	2/11/91	UNDER CONTROL

REPORT NUMBER: 9506

Analyst — Section Leader — QA Officer

2/12/91 — 2-15-91 — 2/15/91

Date — Date — Date

The control status of the preceeding data was evaluated using the standard statistical criteria set forth in 'Quality Assurance for Health and Environmental Chemistry: 1986,' LA-11114-MS, pp. 3-4.

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8.5.4 Hole SIMO-1

REPORT NUMBER: 8654

********** HSE-9 ANALYTICAL REPORT **********

Prepared by: CB on 1-Nov-1990

ANALYSIS: H-3 REQUEST NUMBER: 10753 MATRIX: SS ANALYST: Richard Peters PROGRAM CODE: WA52

OWNER: Max Maes GROUP: HSE-8 MAIL-STOP: K490 PHONE: 7-0817

ANALYTICAL TECHNIQUE: LS ANALYTICAL PROCEDURE :

CUSTOMER NUM	SAMPLE NUM	RESULT	UNCERTAINTY	UNITS	COMPLETION DATE	COMMENT
SIMO-1 @ 4'	90.17176	1600.	300.	PCI/L	10/31/90	
SIMO-1 @ 9'	90.17177	1400.	300.	PCI/L	10/31/90	
SIMO-1 @ 14'	90.17178	1100.	300.	PCI/L	10/31/90	
SIMO-1 @ 19'	90.17179	400.	300.	PCI/L	10/31/90	
SIMO-1 @ 24'	90.17180	200.	300.	PCI/L	10/31/90	
SIMO-1 @ 29'	90.17181	600.	300.	PCI/L	10/31/90	
SIMO-1@ 33.5	90.17182	0.0	300.	PCI/L	10/31/90	
SIMO-1 @ 39'	90.17183	- 100.	300.	PCI/L	10/31/90	
SIMO-1 @ 44'	90.17184	300.	300.	PCI/L	10/31/90	
SIMO-1 @ 49'	90.17185	200.	300.	PCI/L	10/31/90	
SIMO-1 @ 54'	90.17186	200.	300.	PCI/L	10/31/90	
SIMO-1 @ 59'	90.17187	100.	300.	PCI/L	10/31/90	
SIMO-1 @ 64'	90.17188	0.0	300.	PCI/L	10/31/90	
SIMO-1 @ 69'	90.17189	- 200.	300.	PCI/L	10/31/90	
SIMO-1 @ 74'	90.17190	100.	300.	PCI/L	10/31/90	
SIMO-1 @ 79'	90.17191	- 200.	300.	PCI/L	10/31/90	
SIMO-1 @ 84'	90.17192	- 400.	300.	PCI/L	10/31/90	
SIMO-1 @ 89'	90.17193	- 100.	300.	PCI/L	10/31/90	
SIMO-1 @ 94'	90.17194	- 200.	300.	PCI/L	10/31/90	
SIMO-1 @ 99'	90.17195	300.	300.	PCI/L	10/31/90	
SIMO-1 @ 104	90.17196	0.0	300.	PCI/L	10/31/90	

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REPORT NUMBER: 8654 (continued)

********** HSE-9 QUALITY ASSURANCE REPORT *********

Prepared by: CB on 1-Nov-1990

REQUEST NUMBER: 10753 MATRIX: SS ANALYST: Richard Peters PROGRAM CODE: WA52

OWNER: Max Maes GROUP: HSE-8 MAIL-STOP: K490 PHONE: 7-0817

CUSTOMER NUM	SAMPLE NUM	RESULT	UNCERTAINTY	UNITS	CERTIFIED VALUE	CERTIFIED VALUE UNCERTAINTY	COMPLETION DATE	COMMENT
00.20292	00.20292	17000.	2000.	PCI/L	19255.	870.	10/31/90	UNDER CONTROL
00.20292	00.20292	16000.	2000.	PCI/L	19255.	870.	10/31/90	UNDER CONTROL
00.20303	00.20303	200.	300.	PCI/L	0.0		10/31/90	UNDER CONTROL
00.20303	00.20303	200.	300.	PCI/L	0.0		10/31/90	UNDER CONTROL

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

SAMPLE NUM	RESULT	UNCERTAINTY	UNITS	CERTIFIED VALUE	CERTIFIED VALUE UNCERTAINTY	COMPLETION DATE	COMMENT
90.17236 -	100.	300.	PCI/L	0.0		10/31/90	UNDER CONTROL
90.17237	21.	2.	NCI/L	22.8	2.	10/31/90	UNDER CONTROL

REPORT NUMBER: 8654

RJP	D Kuat	mag
Analyst	Section Leader	QA Officer
5 Nov 90	11-7-90	11-7-90
Date	Date	Date

The control status of the preceeding data was evaluated using the standard statistical criteria set forth in 'Quality Assurance for Health and Environmental Chemistry: 1986,' LA-11114-MS, pp. 3-4.

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REPORT NUMBER: 8434

********** HSE-9 ANALYTICAL REPORT **********

Prepared by: EAJ on 15-Oct-1990

ANALYSIS: H2O- REQUEST NUMBER: 10753 MATRIX: SS ANALYST: Richard Peters PROGRAM CODE: WA52

OWNER: Max Maes GROUP: HSE-8 MAIL-STOP: K490 PHONE: 7-0817 TASK-ID:

ANALYTICAL TECHNIQUE: LS ANALYTICAL PROCEDURE :

CUSTOMER NUM	SAMPLE NUM	RESULT	UNCERTAINTY	UNITS	COMPLETION DATE	COMMENT
SIMO-1 @ 4'	90.17176	4.52	0.45	%	10/11/90	
SIMO-1 @ 9'	90.17177	4.03	0.4	%	10/11/90	
SIMO-1 @ 14'	90.17178	8.00	0.8	%	10/11/90	
SIMO-1 @ 19'	90.17179	7.67	0.77	%	10/11/90	
SIMO-1 @ 24'	90.17180	5.72	0.57	%	10/11/90	
SIMO-1 @ 29'	90.17181	6.06	0.61	%	10/11/90	
SIMO-1@ 33.5	90.17182	5.33	0.53	%	10/11/90	
SIMO-1 @ 39'	90.17183	6.98	0.7	%	10/11/90	
SIMO-1 @ 44'	90.17184	8.13	0.81	%	10/11/90	
SIMO-1 @ 49'	90.17185	2.85	0.28	%	10/11/90	
SIMO-1 @ 54'	90.17186	8.8	0.88	%	10/11/90	
SIMO-1 @ 59'	90.17187	3.88	0.39	%	10/11/90	
SIMO-1 @ 64'	90.17188	4.07	0.41	%	10/11/90	
SIMO-1 @ 69'	90.17189	2.34	0.23	%	10/11/90	
SIMO-1 @ 74'	90.17190	7.92	0.79	%	10/11/90	
SIMO-1 @ 79'	90.17191	7.34	0.73	%	10/11/90	
SIMO-1 @ 84'	90.17192	11.16	1.1	%	10/11/90	
SIMO-1 @ 89'	90.17193	10.31	1.	%	10/11/90	
SIMO-1 @ 94'	90.17194	19.19	1.92	%	10/11/90	
SIMO-1 @ 99'	90.17195	9.26	0.93	%	10/11/90	
SIMO-1 @ 104	90.17196	9.38	0.94	%	10/11/90	

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REPORT NUMBER: 8434 (continued)

********** HSE-9 QUALITY ASSURANCE REPORT *********

Prepared by: EAJ on 15-Oct-1990

REQUEST NUMBER: 10753 MATRIX: SS ANALYST: Richard Peters PROGRAM CODE: WA52

OWNER: Max Maes GROUP: HSE-8 MAIL-STOP: K490 PHONE: 7-0817 TASK-ID:

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 sample batch.

____ No QC samples run with this sample batch.

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

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

SAMPLE NUM	RESULT	UNCERTAINTY	UNITS	CERTIFIED VALUE	CERTIFIED VALUE UNCERTAINTY	COMPLETION DATE	COMMENT
90.17236	4.43	0.44	%	4.76	0.5	10/11/90	UNDER CONTROL
90.17237	4.17	0.42	%	4.76	0.5	10/11/90	UNDER CONTROL

Analyst	Section Leader	QA Officer
RJP	[illegible]	mag
19 Oct 90	10-19-90	10-22-90
Date	Date	Date

The control status of the preceeding data was evaluated using the standard statistical criteria set forth in 'Quality Assurance for Health and Environmental Chemistry: 1986,' LA-11114-MS, pp. 3-4.

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REPORT NUMBER: 8356

********** HSE-9 ANALYTICAL REPORT **********

Prepared by: YIG on 9-Oct-1990

ANALYSIS: GAMMA REQUEST NUMBER: 10753 MATRIX: SS ANALYST: George Brooks PROGRAM CODE: WA52

OWNER: Max Maes GROUP: HSE-8 MAIL-STOP: K490 PHONE: 7-0817 TASK-ID:

ANALYTICAL TECHNIQUE: G ANALYTICAL PROCEDURE :

CUSTOMER NUM	SAMPLE NUM	RESULT	UNCERTAINTY	UNITS	COMPLETION DATE	COMMENT
SIMO-1 @ 4'	90.17176	2.7	0.5	CPM/G	10/01/90	
SIMO-1 @ 9'	90.17177	4.	0.6	CPM/G	10/01/90	
SIMO-1 @ 14'	90.17178	4.	0.6	CPM/G	10/01/90	
SIMO-1 @ 19'	90.17179	4.4	0.6	CPM/G	10/01/90	
SIMO-1 @ 24'	90.17180	4.	0.6	CPM/G	10/01/90	
SIMO-1 @ 29'	90.17181	4.	0.6	CPM/G	10/01/90	
SIMO-1@ 33.5	90.17182	4.8	0.6	CPM/G	10/01/90	
SIMO-1 @ 39'	90.17183	2.9	0.5	CPM/G	10/01/90	
SIMO-1 @ 44'	90.17184	3.9	0.6	CPM/G	10/01/90	
SIMO-1 @ 49'	90.17185	2.4	0.5	CPM/G	10/01/90	
SIMO-1 @ 54'	90.17186	6.7	0.8	CPM/G	10/01/90	
SIMO-1 @ 59'	90.17187	4.	0.6	CPM/G	10/01/90	
SIMO-1 @ 64'	90.17188	3.7	0.5	CPM/G	10/01/90	
SIMO-1 @ 69'	90.17189	1.8	0.4	CPM/G	10/01/90	
SIMO-1 @ 74'	90.17190	7.	0.8	CPM/G	10/01/90	
SIMO-1 @ 79'	90.17191	5.6	0.7	CPM/G	10/01/90	
SIMO-1 @ 84'	90.17192	7.1	0.8	CPM/G	10/01/90	
SIMO-1 @ 89'	90.17193	4.1	0.6	CPM/G	10/01/90	
SIMO-1 @ 94'	90.17194	5.	0.6	CPM/G	10/01/90	
SIMO-1 @ 99'	90.17195	3.9	0.6	CPM/G	10/01/90	
SIMO-1 @ 104	90.17196	5.3	0.7	CPM/G	10/01/90	

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REPORT NUMBER: 8356 (continued)

********** HSE-9 QUALITY ASSURANCE REPORT *********

Prepared by: YIG on 9-Oct-1990

REQUEST NUMBER: 10753 MATRIX: SS ANALYST: George Brooks PROGRAM CODE: WA52

OWNER: Max Maes GROUP: HSE-8 MAIL-STOP: K490 PHONE: 7-0817 TASK-ID:

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 sample batch.

____ No QC samples run with this sample batch.

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

Analyst	Section Leader	QA Officer
YIG	D Knab	mag
10/9/90	10-10-90	10-10-90
Date	Date	Date

The control status of the preceeding data was evaluated using the standard statistical criteria set forth in 'Quality Assurance for Health and Environmental Chemistry: 1986,' LA-11114-MS, pp. 3-4.

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REPORT NUMBER: 8363

********** HSE-9 ANALYTICAL REPORT **********

Prepared by: YIG on 9-Oct-1990

ANALYSIS: CS-137 REQUEST NUMBER: 10753 MATRIX: SS ANALYST: George Brooks PROGRAM CODE: WA52

OWNER: Max Maes GROUP: HSE-8 MAIL-STOP: K490 PHONE: 7-0817 TASK-ID:

ANALYTICAL TECHNIQUE: G ANALYTICAL PROCEDURE :

CUSTOMER NUM	SAMPLE NUM	RESULT	UNCERTAINTY	UNITS	COMPLETION DATE	COMMENT
SIMO-1 @ 4'	90.17176	0.0434	0.0765	PCI/G	9/29/90	
SIMO-1 @ 9'	90.17177	0.347	0.135	PCI/G	9/29/90	
SIMO-1 @ 14'	90.17178	0.124	0.0794	PCI/G	9/29/90	
SIMO-1 @ 19'	90.17179	0.185	0.126	PCI/G	9/29/90	
SIMO-1 @ 24'	90.17180	0.161	0.0813	PCI/G	9/29/90	
SIMO-1 @ 29'	90.17181	0.243	0.133	PCI/G	9/29/90	
SIMO-1@ 33.5	90.17182	0.128	0.0815	PCI/G	9/29/90	
SIMO-1 @ 39'	90.17183	0.0426	0.116	PCI/G	9/29/90	
SIMO-1 @ 44'	90.17184	0.0323	0.0847	PCI/G	9/29/90	
SIMO-1 @ 49'	90.17185	0.15	0.126	PCI/G	9/29/90	
SIMO-1 @ 54'	90.17186	0.0569	0.0795	PCI/G	9/29/90	
SIMO-1 @ 59'	90.17187	0.119	0.119	PCI/G	9/29/90	
SIMO-1 @ 64'	90.17188	0.0937	0.0782	PCI/G	9/29/90	
SIMO-1 @ 69'	90.17189	0.147	0.117	PCI/G	9/29/90	
SIMO-1 @ 74'	90.17190	0.107	0.0815	PCI/G	9/29/90	
SIMO-1 @ 79'	90.17191	0.202	0.132	PCI/G	9/29/90	
SIMO-1 @ 84'	90.17192	0.077	0.0803	PCI/G	9/29/90	
SIMO-1 @ 89'	90.17193	0.189	0.12	PCI/G	9/29/90	
SIMO-1 @ 94'	90.17194	0.102	0.0789	PCI/G	9/29/90	
SIMO-1 @ 99'	90.17195	0.0903	0.118	PCI/G	9/29/90	
SIMO-1 @ 104	90.17196	0.0042	0.0858	PCI/G	9/29/90	

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REPORT NUMBER: 8363 (continued)

********** HSE-9 QUALITY ASSURANCE REPORT *********

Prepared by: YIG on 9-Oct-1990

REQUEST NUMBER: 10753 MATRIX: SS ANALYST: George Brooks PROGRAM CODE: WA52

OWNER: Max Maes GROUP: HSE-8 MAIL-STOP: K490 PHONE: 7-0817 TASK-ID:

CUSTOMER NUM	SAMPLE NUM	RESULT	UNCERTAINTY	UNITS	CERTIFIED VALUE	CERTIFIED VALUE UNCERTAINTY	COMPLETION DATE	COMMENT
00.00502	00.00502	2.04	0.331	PCI/G	2.7	0.12	9/29/90	UNDER CONTROL
00.00640	00.00640	0.795	0.189	PCI/G	0.72	0.07	9/29/90	UNDER CONTROL

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

SAMPLE NUM	RESULT	UNCERTAINTY	UNITS	CERTIFIED VALUE	CERTIFIED VALUE UNCERTAINTY	COMPLETION DATE	COMMENT
90.17240	2.08	0.335	PCI/G	2.5	0.2	9/29/90	UNDER CONTROL
90.17241	0.274	0.121	PCI/G	0.0		9/29/90	WARNING 2-3 SIG

Analyst	Section Leader	QA Officer
YIG	D. Knab	mag
10/9/90	10-10-90	10-10-90
Date	Date	Date

The control status of the preceeding data was evaluated using the standard statistical criteria set forth in 'Quality Assurance for Health and Environmental Chemistry: 1986,' LA-11114-MS, pp. 3-4.

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REPORT NUMBER: 9696

********** HSE-9 ANALYTICAL REPORT **********

Prepared by: CB on 6-Mar-1991

ANALYSIS: PU-238 REQUEST NUMBER: 10753 MATRIX: SS ANALYST: Richard Peters PROGRAM CODE: WA52

OWNER: Max Maes GROUP: HSE-8 MAIL-STOP: K490 PHONE: 7-0817

ANALYTICAL TECHNIQUE: RAS ANALYTICAL PROCEDURE :

CUSTOMER NUM	SAMPLE NUM	RESULT	UNCERTAINTY	UNITS	COMPLETION DATE	COMMENT
SIMO-1 @ 4'	90.17176	0.0014	0.0007	PCI/G	3/06/91	
SIMO-1 @ 9'	90.17177	0.0085	0.0014	PCI/G	3/06/91	
SIMO-1 @ 14'	90.17178	0.0004	0.0005	PCI/G	3/06/91	
SIMO-1 @ 19'	90.17179	0.0023	0.0016	PCI/G	3/06/91	
SIMO-1 @ 24'	90.17180	0.0004	0.0004	PCI/G	3/06/91	
SIMO-1 @ 29'	90.17181	0.0018	0.0015	PCI/G	3/06/91	
SIMO-1@ 33.5	90.17182	0.0004	0.0006	PCI/G	3/06/91	
SIMO-1 @ 39'	90.17183	0.0004	0.0007	PCI/G	3/06/91	
SIMO-1 @ 44'	90.17184	0.006	0.006	PCI/G	3/06/91	
SIMO-1 @ 49'	90.17185 -	0.0002	0.0005	PCI/G	3/06/91	
SIMO-1 @ 54'	90.17186	0.0006	0.0003	PCI/G	3/06/91	
SIMO-1 @ 59'	90.17187	0.0006	0.0005	PCI/G	3/06/91	
SIMO-1 @ 64'	90.17188	0.0034	0.0009	PCI/G	3/06/91	
SIMO-1 @ 69'	90.17189 -	0.0002	0.0004	PCI/G	3/06/91	
SIMO-1 @ 74'	90.17190	0.0009	0.0007	PCI/G	3/06/91	
SIMO-1 @ 79'	90.17191	0.0009	0.0005	PCI/G	3/06/91	
SIMO-1 @ 84'	90.17192	0.0013	0.0005	PCI/G	3/06/91	
SIMO-1 @ 89'	90.17193	0.000	0.0005	PCI/G	3/06/91	
SIMO-1 @ 94'	90.17194 -	0.0002	0.0004	PCI/G	3/06/91	
SIMO-1 @ 99'	90.17195	0.000	0.01	PCI/G	3/06/91	
SIMO-1 @ 104	90.17196	0.000	0.01	PCI/G	3/06/91	

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REPORT NUMBER: 9696 (continued)

********** HSE-9 QUALITY ASSURANCE REPORT *********

Prepared by: CB on 6-Mar-1991

REQUEST NUMBER: 10753 MATRIX: SS ANALYST: Richard Peters PROGRAM CODE: WA52

OWNER: Max Maes GROUP: HSE-8 MAIL-STOP: K490 PHONE: 7-0817

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 sample batch.

____ No QC samples run with this sample batch.

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

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

SAMPLE NUM	RESULT	UNCERTAINTY	UNITS	CERTIFIED VALUE	CERTIFIED VALUE UNCERTAINTY	COMPLETION DATE	COMMENT
90.17242	0.0002	0.0004	PCI/G	0.0		3/06/91	UNDER CONTROL
90.17243	0.179	0.0079	PCI/G	0.18	0.02	3/06/91	UNDER CONTROL

REPORT NUMBER: 9696

RJP — Analyst — 11 Mar 91 — Date

D Knab — Section Leader — 3-13-91 — Date

mag — QA Officer — 3-13-91 — Date

The control status of the preceeding data was evaluated using the standard statistical criteria set forth in 'Quality Assurance for Health and Environmental Chemistry: 1986,' LA-11114-MS, pp. 3-4.

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REPORT NUMBER: 9697

********** HSE-9 ANALYTICAL REPORT **********

Prepared by: CB on 6-Mar-1991

ANALYSIS: PU-239 REQUEST NUMBER: 10753 MATRIX: SS ANALYST: Richard Peters PROGRAM CODE: WA52

OWNER: Max Maes GROUP: HSE-8 MAIL-STOP: K490 PHONE: 7-0817

ANALYTICAL TECHNIQUE: RAS ANALYTICAL PROCEDURE :

CUSTOMER NUM	SAMPLE NUM	RESULT	UNCERTAINTY	UNITS	COMPLETION DATE	COMMENT
SIMO-1 @ 4'	90.17176	0.0014	0.0006	PCI/G	3/06/91	
SIMO-1 @ 9'	90.17177	0.0032	0.0008	PCI/G	3/06/91	
SIMO-1 @ 14'	90.17178	0.0018	0.0007	PCI/G	3/06/91	
SIMO-1 @ 19'	90.17179	0.0014	0.0010	PCI/G	3/06/91	
SIMO-1 @ 24'	90.17180	0.0015	0.0006	PCI/G	3/06/91	
SIMO-1 @ 29'	90.17181	0.0028	0.0015	PCI/G	3/06/91	
SIMO-1@ 33.5	90.17182	0.006	0.006	PCI/G	3/06/91	
SIMO-1 @ 39'	90.17183	0.0017	0.0006	PCI/G	3/06/91	
SIMO-1 @ 44'	90.17184	0.0010	0.0006	PCI/G	3/06/91	
SIMO-1 @ 49'	90.17185	0.0002	0.0005	PCI/G	3/06/91	
SIMO-1 @ 54'	90.17186	0.0012	0.0005	PCI/G	3/06/91	
SIMO-1 @ 59'	90.17187	0.0015	0.0006	PCI/G	3/06/91	
SIMO-1 @ 64'	90.17188	0.0018	0.0007	PCI/G	3/06/91	
SIMO-1 @ 69'	90.17189	0.0007	0.0005	PCI/G	3/06/91	
SIMO-1 @ 74'	90.17190	0.0007	0.0005	PCI/G	3/06/91	
SIMO-1 @ 79'	90.17191	0.0011	0.0004	PCI/G	3/06/91	
SIMO-1 @ 84'	90.17192	0.0013	0.0005	PCI/G	3/06/91	
SIMO-1 @ 89'	90.17193	0.0006	0.0004	PCI/G	3/06/91	
SIMO-1 @ 94'	90.17194	0.0039	0.0009	PCI/G	3/06/91	
SIMO-1 @ 99'	90.17195	0.0028	0.0008	PCI/G	3/06/91	
SIMO-1 @ 104	90.17196	0.0011	0.0005	PCI/G	3/06/91	

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REPORT NUMBER: 9697 (continued)

********** HSE-9 QUALITY ASSURANCE REPORT *********

Prepared by: CB on 6-Mar-1991

REQUEST NUMBER: 10753 MATRIX: SS ANALYST: Richard Peters PROGRAM CODE: WA52

OWNER: Max Maes GROUP: HSE-8 MAIL-STOP: K490 PHONE: 7-0817

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 sample batch.

____ No QC samples run with this sample batch.

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

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

SAMPLE NUM	RESULT	UNCERTAINTY	UNITS	CERTIFIED VALUE	CERTIFIED VALUE UNCERTAINTY	COMPLETION DATE	COMMENT
90.17242	0.0018	0.0007	PCI/G	0.0		3/06/91	WARNING 2-3 SIG
90.17243	0.253	0.0103	PCI/G	0.22	0.02	3/06/91	UNDER CONTROL

REPORT NUMBER: 9697

RJP	D Knab	mag
Analyst	Section Leader	QA Officer
11 Mar 91	3-13-91	3-13-91
Date	Date	Date

The control status of the preceeding data was evaluated using the standard statistical criteria set forth in 'Quality Assurance for Health and Environmental Chemistry: 1986,' LA-11114-MS, pp. 3-4.

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REPORT NUMBER: 8787

********** HSE-9 ANALYTICAL REPORT **********

Prepared by: YIG on 9-Nov-1990

ANALYSIS: U REQUEST NUMBER: 10753 MATRIX: SS ANALYST: George Brooks PROGRAM CODE: WA52

OWNER: Max Maes GROUP: HSE-8 MAIL-STOP: K490 PHONE: 7-0817

ANALYTICAL TECHNIQUE: DNA ANALYTICAL PROCEDURE :

CUSTOMER NUM	SAMPLE NUM	RESULT	UNCERTAINTY	UNITS	COMPLETION DATE	COMMENT
SIMO-1 @ 4'	90.17176	2.2	0.22	UG/G	11/07/90	
SIMO-1 @ 9'	90.17177	2.9	0.29	UG/G	11/07/90	
SIMO-1 @ 14'	90.17178	4.61	0.46	UG/G	11/07/90	
SIMO-1 @ 19'	90.17179	4.55	0.45	UG/G	11/07/90	
SIMO-1 @ 24'	90.17180	4.15	0.41	UG/G	11/07/90	
SIMO-1 @ 29'	90.17181	3.61	0.36	UG/G	11/07/90	
SIMO-1@ 33.5	90.17182	3.95	0.39	UG/G	11/07/90	
SIMO-1 @ 39'	90.17183	3.9	0.39	UG/G	11/07/90	
SIMO-1 @ 44'	90.17184	3.97	0.4	UG/G	11/07/90	
SIMO-1 @ 49'	90.17185	1.64	0.16	UG/G	11/07/90	
SIMO-1 @ 54'	90.17186	5.36	0.53	UG/G	11/07/90	
SIMO-1 @ 59'	90.17187	2.75	0.27	UG/G	11/07/90	
SIMO-1 @ 64'	90.17188	2.76	0.28	UG/G	11/07/90	
SIMO-1 @ 69'	90.17189	1.54	0.15	UG/G	11/07/90	
SIMO-1 @ 74'	90.17190	6.66	0.66	UG/G	11/07/90	
SIMO-1 @ 79'	90.17191	5.9	0.6	UG/G	11/07/90	
SIMO-1 @ 84'	90.17192	6.27	0.62	UG/G	11/07/90	
SIMO-1 @ 89'	90.17193	3.93	0.4	UG/G	11/07/90	
SIMO-1 @ 94'	90.17194	5.6	0.56	UG/G	11/07/90	
SIMO-1 @ 99'	90.17195	5.6	0.56	UG/G	11/07/90	
SIMO-1 @ 104	90.17196	5.47	0.54	UG/G	11/07/90	

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REPORT NUMBER: 8787 (continued)

********** HSE-9 QUALITY ASSURANCE REPORT *********

Prepared by: YIG on 9-Nov-1990

REQUEST NUMBER: 10753 MATRIX: SS ANALYST: George Brooks PROGRAM CODE: WA52

OWNER: Max Maes GROUP: HSE-8 MAIL-STOP: K490 PHONE: 7-0817

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 sample batch.

____ No QC samples run with this sample batch.

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

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

SAMPLE NUM	RESULT	UNCERTAINTY	UNITS	CERTIFIED VALUE	CERTIFIED VALUE UNCERTAINTY	COMPLETION DATE	COMMENT
90.17238	253.55	25.35	UG/G	280.	25.	11/07/90	UNDER CONTROL
90.17239	132.28	13.22	UG/G	143.	14.	11/07/90	UNDER CONTROL

REPORT NUMBER: 8787

Yig
Analyst

Section Leader

mag
QA Officer

11/9/90
Date

Date

11/9/90
Date

The control status of the preceeding data was evaluated using the standard statistical criteria set forth in 'Quality Assurance for Health and Environmental Chemistry: 1986,' LA-11114-MS, pp. 3-4.

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REPORT NUMBER: 8443

********** HSE-9 ANALYTICAL REPORT **********

Prepared by: YIG on 16-Oct-1990

REQUEST NUMBER: 10753 MATRIX: SS ANALYST: George Brooks PROGRAM CODE: WA52

OWNER: Max Maes GROUP: HSE-8 MAIL-STOP: K490 PHONE: 7-0817 TASK-ID:

CUSTOMER NUM	SAMPLE NUM	ANALYSIS	RESULT	UNCERTAINTY	UNITS	COMPLETION DATE	COMMENT
SIMO-1 @ 4'	90.17176	ALPHA	3.7	0.8	PCI/G	10/11/90	
SIMO-1 @ 4'	90.17176	BETA	1.4	0.2	PCI/G	10/11/90	
SIMO-1 @ 9'	90.17177	ALPHA	6.	1.	PCI/G	10/11/90	
SIMO-1 @ 9'	90.17177	BETA	2.1	0.3	PCI/G	10/11/90	
SIMO-1 @ 14'	90.17178	ALPHA	14.	3.	PCI/G	10/11/90	
SIMO-1 @ 14'	90.17178	BETA	5.5	0.6	PCI/G	10/11/90	
SIMO-1 @ 19'	90.17179	ALPHA	14.	3.	PCI/G	10/11/90	
SIMO-1 @ 19'	90.17179	BETA	5.9	0.7	PCI/G	10/11/90	
SIMO-1 @ 24'	90.17180	ALPHA	10.	2.	PCI/G	10/11/90	
SIMO-1 @ 24'	90.17180	BETA	5.4	0.6	PCI/G	10/11/90	
SIMO-1 @ 29'	90.17181	ALPHA	13.	3.	PCI/G	10/11/90	
SIMO-1 @ 29'	90.17181	BETA	5.	0.6	PCI/G	10/11/90	SIMO
SIMO-1@ 33.5	90.17182	ALPHA	9.	2.	PCI/G	10/11/90	
SIMO-1@ 33.5	90.17182	BETA	4.	0.5	PCI/G	10/11/90	RAD
SIMO-1 @ 39'	90.17183	ALPHA	9.	2.	PCI/G	10/11/90	
SIMO-1 @ 39'	90.17183	BETA	2.9	0.4	PCI/G	10/11/90	
SIMO-1 @ 44'	90.17184	ALPHA	8.	2.	PCI/G	10/11/90	
SIMO-1 @ 44'	90.17184	BETA	3.3	0.4	PCI/G	10/11/90	
SIMO-1 @ 49'	90.17185	ALPHA	2.7	0.6	PCI/G	10/11/90	
SIMO-1 @ 49'	90.17185	BETA	2.	0.3	PCI/G	10/11/90	
SIMO-1 @ 54'	90.17186	ALPHA	7.	2.	PCI/G	10/11/90	
SIMO-1 @ 54'	90.17186	BETA	3.1	0.4	PCI/G	10/11/90	
SIMO-1 @ 59'	90.17187	ALPHA	4.1	0.9	PCI/G	10/11/90	
SIMO-1 @ 59'	90.17187	BETA	1.5	0.2	PCI/G	10/11/90	
SIMO-1 @ 64'	90.17188	ALPHA	5.	1.	PCI/G	10/11/90	
SIMO-1 @ 64'	90.17188	BETA	1.7	0.2	PCI/G	10/11/90	
SIMO-1 @ 69'	90.17189	ALPHA	3.	0.7	PCI/G	10/11/90	
SIMO-1 @ 69'	90.17189	BETA	1.2	0.2	PCI/G	10/11/90	
SIMO-1 @ 74'	90.17190	ALPHA	8.	2.	PCI/G	10/11/90	
SIMO-1 @ 74'	90.17190	BETA	2.7	0.3	PCI/G	10/11/90	
SIMO-1 @ 79'	90.17191	ALPHA	7.	1.	PCI/G	10/11/90	
SIMO-1 @ 79'	90.17191	BETA	2.2	0.3	PCI/G	10/11/90	
SIMO-1 @ 84'	90.17192	ALPHA	8.	2.	PCI/G	10/11/90	
SIMO-1 @ 84'	90.17192	BETA	3.5	0.4	PCI/G	10/11/90	
SIMO-1 @ 89'	90.17193	ALPHA	9.	2.	PCI/G	10/11/90	
SIMO-1 @ 89'	90.17193	BETA	3.1	0.4	PCI/G	10/11/90	
SIMO-1 @ 94'	90.17194	ALPHA	3.7	0.8	PCI/G	10/11/90	
SIMO-1 @ 94'	90.17194	BETA	1.8	0.2	PCI/G	10/11/90	
SIMO-1 @ 99'	90.17195	ALPHA	3.1	0.7	PCI/G	10/11/90	
SIMO-1 @ 99'	90.17195	BETA	1.6	0.2	PCI/G	10/11/90	
SIMO-1 @ 104	90.17196	ALPHA	2.4	0.6	PCI/G	10/11/90	

SIMO-1 @ 104 90.17196 BETA	1.6	0.2	PCI/G	10/11/90

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REPORT NUMBER: 8443 (continued)

********** HSE-9 QUALITY ASSURANCE REPORT *********

Prepared by: YIG on 16-Oct-1990

REQUEST NUMBER: 10753 MATRIX: SS ANALYST: George Brooks PROGRAM CODE: WA52

OWNER: Max Maes GROUP: HSE-8 MAIL-STOP: K490 PHONE: 7-0817 TASK-ID:

CUSTOMER NUM	SAMPLE NUM	ANALYSIS	RESULT	UNCERTAINTY	UNITS	CERTIFIED VALUE	CERTIFIED VALUE UNCERTAINTY	COMPLETION DATE
00.98008	00.98008	ALPHA	8.	3.	PCI/L	11.	5.	10/11/90 UNDER CONTROL
00.98008	00.98008	ALPHA	12.	3.	PCI/L	11.	5.	10/11/90 UNDER CONTROL
00.98008	00.98008	ALPHA	12.	3.	PCI/L	11.	5.	10/11/90 UNDER CONTROL
00.98008	00.98008	BETA	12.	1.	PCI/L	11.	5.	10/11/90 UNDER CONTROL
00.98008	00.98008	BETA	12.	1.	PCI/L	11.	5.	10/11/90 UNDER CONTROL
00.98008	00.98008	BETA	9.	1.	PCI/L	11.	5.	10/11/90 UNDER CONTROL

Analyst	Section Leader	QA Officer
10/16/90	10-29-90	10-29-90
Date	Date	Date

The control status of the preceeding data was evaluated using the standard statistical criteria set forth in 'Quality Assurance for Health and Environmental Chemistry: 1986,' LA-11114-MS, pp. 3-4.

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8.5.5 Monitoring Wells

TABLE 8.5.5-I

SUMMARY OF RADIOCHEMICAL ANALYSES OF SAMPLES FROM PERCHED ZONE MONITORING WELLS

		PARAMETER (pCi/L except where noted, ± value is analytical standard deviation)								
WELL	LAB[1]	^{3}H	^{238}Pu	$^{239,240}Pu$	^{137}Cs	^{241}Am	Gross Alpha	Gross Beta (cm/L)	Gross Gamma	Total U (mg/L)
MCO-4B	HSE-9	67000±7000	0.0529±0.0213	0.112±0.027	28±69	1.47±0.10	9±3	120±10	110±80	6.4±0.1
MCO-4	HSE-9	43000±4000	0.371±0.042	1.42±0.92	101±70	4.14±0.19	8±3	160±20	80±80	1.5±0.1
MCO-6B	HSE-9	130000±10000	0.0187±0.0148	0.0327±0.0169	163±73	2.27±0.13	34±8	59±6	10±80	18.1±0.4
MCO-6	HSE-9	100000±10000	1.12±0.01	3.18±0.20	90±71	2.52±0.13	10±3	100±10	180±80	5.9±0.1
MCO-7A	HSE-9	21000±2000	0.0172±0.0106	0.0344±0.0137	20±70	0.375±0.042	7±2	18±2	20±80	6.5±0.2
MCO-7	HSE-9	13000±1000	0.0178±0.0154	0.0444±0.0155	87±70	0.216±0.034	3±1	12±1	210±80	1.4±0.1

Notes:

[1] Entry indicates particular sampling date and analytical laboratory performing analyses.

HSE-9 samples collected on September 11 (MCO-4B, MCO-4, MCO-6B, MCO-7A, and MCO-7) or September 12, 1990 (MCO-6) and analyzed by Los Alamos National Laboratory, Environmental and Health Chemistry Group, HSE-9.

TABLE 8.5.5-II

Distribution of Dissolved and Filterable Plutonium in MCO Wells

Well	Dissolved		Suspended		Mass of Solids	Suspended		Total		Percent Dissolved	
	238-Pu pCi/L	239-Pu pCi/L	238-Pu pCi/g	239-Pu pCi/g	g/L	238-Pu pCi/L	239-Pu pCi/L	238-Pu pCi/L	239-Pu pCi/L	238-Pu	239-Pu
MCO-4	0.371	1.420	14.400	60.300	0.027	0.385	1.613	0.756	3.033	49.06	46.82
MCO-4B	0.053	0.112	0.327	0.543	1.750	0.572	0.950	0.625	1.062	8.46	10.54
MCO-6	1.120	3.180	0.039	0.088	0.640	0.025	0.056	1.145	3.236	97.84	98.27
MCO-6B	0.019	0.033	0.104	0.280	4.430	0.461	1.240	0.479	1.273	3.90	2.57
MCO-7	0.018	0.044	0.047	0.128	0.573	0.027	0.073	0.045	0.118	39.71	37.73
MCO-7A	0.017	0.034	0.021	0.064	2.098	0.043	0.135	0.060	0.169	28.57	20.30

8.6 Inorganic Analytical Results

8.6.1 Hole 5.1

REPORT NUMBER: 8231

********** HSE-9 ANALYTICAL REPORT **********

Prepared by: MCW on 21-Sep-1990

ICP MASS SCAN

REQUEST NUMBER: 10780 MATRIX: S ANALYST: Mary Carol Williams PROGRAM CODE: M211

OWNER: Max Maes GROUP: HSE-8 MAIL-STOP: K490 PHONE: 7-0817 TASK-ID: ALLA-1

CUSTOMER NUMBER	SAMPLE NUMBER	ANALYSIS	RESULT	UNCERTAINTY	UNITS	COMPLETION DATE	COMMENT
5.1 7-8'	90.17430	AG	< 500.		NG/G	9/21/90	
5.1 7-8'	90.17430	AL	3.	9.	MG/G	9/21/90	
5.1 7-8'	90.17430	AS	2.1	6.3	UG/G	9/21/90	
5.1 7-8'	90.17430	AU	< 500.		NG/G	9/21/90	
5.1 7-8'	90.17430	BA	100.	300.	UG/G	9/21/90	
5.1 7-8'	90.17430	BE	< 5000.		NG/G	9/21/90	
5.1 7-8'	90.17430	BI	< 500.		NG/G	9/21/90	
5.1 7-8'	90.17430	CD	< 500.		NG/G	9/21/90	
5.1 7-8'	90.17430	CE	42.	130.	UG/G	9/21/90	
5.1 7-8'	90.17430	CO	6.6	19.8	UG/G	9/21/90	
5.1 7-8'	90.17430	CR	< 500.		NG/G	9/21/90	
5.1 7-8'	90.17430	CS	< 500.		NG/G	9/21/90	
5.1 7-8'	90.17430	CU	15.	45.	UG/G	9/21/90	
5.1 7-8'	90.17430	DY	3.9	11.7	UG/G	9/21/90	
5.1 7-8'	90.17430	ER	2.	6.	UG/G	9/21/90	
5.1 7-8'	90.17430	EU	< 500.		NG/G	9/21/90	
5.1 7-8'	90.17430	FE	1.9	5.7	MG/G	9/21/90	
5.1 7-8'	90.17430	GA	4.7	14.1	UG/G	9/21/90	
5.1 7-8'	90.17430	GD	6.8	20.4	UG/G	9/21/90	
5.1 7-8'	90.17430	GE	5.1	15.3	UG/G	9/21/90	
5.1 7-8'	90.17430	HF	< 500.		NG/G	9/21/90	
5.1 7-8'	90.17430	HO	< 500.		NG/G	9/21/90	
5.1 7-8'	90.17430	IN	< 500.		NG/G	9/21/90	
5.1 7-8'	90.17430	IR	< 500.		NG/G	9/21/90	
5.1 7-8'	90.17430	LA	26.	78.	UG/G	9/21/90	
5.1 7-8'	90.17430	LI	< 5000.		NG/G	9/21/90	
5.1 7-8'	90.17430	LU	< 500.		NG/G	9/21/90	
5.1 7-8'	90.17430	MN	1.2	3.6	MG/G	9/21/90	
5.1 7-8'	90.17430	MO	< 500.		NG/G	9/21/90	
5.1 7-8'	90.17430	NB	< 500.		NG/G	9/21/90	
5.1 7-8'	90.17430	ND	29.	87.	UG/G	9/21/90	
5.1 7-8'	90.17430	NI	< 500.		NG/G	9/21/90	
5.1 7-8'	90.17430	PB	23.	69.	UG/G	9/21/90	
5.1 7-8'	90.17430	PD	< 500.		NG/G	9/21/90	
5.1 7-8'	90.17430	PR	8.2	24.6	UG/G	9/21/90	
5.1 7-8'	90.17430	PT	< 500.		NG/G	9/21/90	
5.1 7-8'	90.17430	RB	2.	6.	UG/G	9/21/90	
5.1 7-8'	90.17430	RH	< 500.		NG/G	9/21/90	
5.1 7-8'	90.17430	RU	< 500.		NG/G	9/21/90	

5.1 7-8'	90.17430	SB	< 500.		NG/G	9/21/90
5.1 7-8'	90.17430	SE	22.	66.	UG/G	9/21/90
5.1 7-8'	90.17430	SM	6.2	18.6	UG/G	9/21/90
5.1 7-8'	90.17430	SN	< 500.		NG/G	9/21/90
5.1 7-8'	90.17430	SR	13.	39.	UG/G	9/21/90
5.1 7-8'	90.17430	TA	< 500.		NG/G	9/21/90
5.1 7-8'	90.17430	TB	590.	1800.	NG/G	9/21/90
5.1 7-8'	90.17430	TE	< 500.		NG/G	9/21/90
5.1 7-8'	90.17430	TH	18.	54.	UG/G	9/21/90
5.1 7-8'	90.17430	TI	71.	210.	UG/G	9/21/90
5.1 7-8'	90.17430	TL	< 500.		NG/G	9/21/90
5.1 7-8'	90.17430	TM	< 500.		NG/G	9/21/90
5.1 7-8'	90.17430	U	< 500.		NG/G	9/21/90
5.1 7-8'	90.17430	W	< 500.		NG/G	9/21/90
5.1 7-8'	90.17430	Y	14.	42.	UG/G	9/21/90
5.1 7-8'	90.17430	YB	1.2	3.6	UG/G	9/21/90
5.1 7-8'	90.17430	ZN	24.	72.	UG/G	9/21/90
5.1 7-8'	90.17430	ZR	< 500.		NG/G	9/21/90

REPORT NUMBER: 8231

********** HSE-9 ANALYTICAL REPORT **********

Prepared by: MCW on 21-Sep-1990

ICP MASS SCAN

REQUEST NUMBER: 10780 MATRIX: S ANALYST: Mary Carol Williams PROGRAM CODE: M211

OWNER: Max Maes GROUP: HSE-8 MAIL-STOP: K490 PHONE: 7-0817 TASK-ID: ALLA-1

CUSTOMER NUMBER	SAMPLE NUMBER	ANALYSIS	RESULT	UNCERTAINTY	UNITS	COMPLETION DATE	COMMENT
5.1 18-19'	90.17431	AG	< 500.		NG/G	9/21/90	
5.1 18-19'	90.17431	AL	3.6	10.8	MG/G	9/21/90	
5.1 18-19'	90.17431	AS	8.1	24.3	UG/G	9/21/90	
5.1 18-19'	90.17431	AU	< 500.		NG/G	9/21/90	
5.1 18-19'	90.17431	BA	250.	750.	UG/G	9/21/90	
5.1 18-19'	90.17431	BE	< 5000.		NG/G	9/21/90	
5.1 18-19'	90.17431	BI	< 500.		NG/G	9/21/90	
5.1 18-19'	90.17431	CD	560.	1700.	NG/G	9/21/90	
5.1 18-19'	90.17431	CE	66.	200.	UG/G	9/21/90	
5.1 18-19'	90.17431	CO	12.	36.	UG/G	9/21/90	
5.1 18-19'	90.17431	CR	3.6	10.8	UG/G	9/21/90	
5.1 18-19'	90.17431	CS	< 500.		NG/G	9/21/90	
5.1 18-19'	90.17431	CU	33.	99.	UG/G	9/21/90	
5.1 18-19'	90.17431	DY	9.4	28.2	UG/G	9/21/90	
5.1 18-19'	90.17431	ER	4.9	14.7	UG/G	9/21/90	
5.1 18-19'	90.17431	EU	890.	2700.	NG/G	9/21/90	
5.1 18-19'	90.17431	FE	2.4	7.2	MG/G	9/21/90	
5.1 18-19'	90.17431	GA	10.	30.	UG/G	9/21/90	
5.1 18-19'	90.17431	GD	14.	42.	UG/G	9/21/90	
5.1 18-19'	90.17431	GE	10.	30.	UG/G	9/21/90	
5.1 18-19'	90.17431	HF	< 500.		NG/G	9/21/90	
5.1 18-19'	90.17431	HO	1.9	5.7	UG/G	9/21/90	
5.1 18-19'	90.17431	IN	< 500.		NG/G	9/21/90	
5.1 18-19'	90.17431	IR	< 500.		NG/G	9/21/90	
5.1 18-19'	90.17431	LA	66.	200.	UG/G	9/21/90	
5.1 18-19'	90.17431	LI	< 5000.		NG/G	9/21/90	
5.1 18-19'	90.17431	LU	560.	1700.	NG/G	9/21/90	
5.1 18-19'	90.17431	MN	2.1	6.3	MG/G	9/21/90	
5.1 18-19'	90.17431	MO	< 500.		NG/G	9/21/90	
5.1 18-19'	90.17431	NB	< 500.		NG/G	9/21/90	
5.1 18-19'	90.17431	ND	59.	180.	UG/G	9/21/90	
5.1 18-19'	90.17431	NI	3.2	9.6	UG/G	9/21/90	
5.1 18-19'	90.17431	PB	30.	90.	UG/G	9/21/90	
5.1 18-19'	90.17431	PD	< 500.		NG/G	9/21/90	
5.1 18-19'	90.17431	PR	19.	57.	UG/G	9/21/90	
5.1 18-19'	90.17431	PT	< 500.		NG/G	9/21/90	
5.1 18-19'	90.17431	RB	3.2	9.6	UG/G	9/21/90	
5.1 18-19'	90.17431	RH	< 500.		NG/G	9/21/90	
5.1 18-19'	90.17431	RU	< 500.		NG/G	9/21/90	

5.1	18-19'	90.17431	SB	< 500.		NG/G	9/21/90
5.1	18-19'	90.17431	SE	55.	170.	UG/G	9/21/90
5.1	18-19'	90.17431	SM	13.	39.	UG/G	9/21/90
5.1	18-19'	90.17431	SN	< 500.		NG/G	9/21/90
5.1	18-19'	90.17431	SR	28.	84.	UG/G	9/21/90
5.1	18-19'	90.17431	TA	< 500.		NG/G	9/21/90
5.1	18-19'	90.17431	TB	1.6	4.8	UG/G	9/21/90
5.1	18-19'	90.17431	TE	< 500.		NG/G	9/21/90
5.1	18-19'	90.17431	TH	4.3	12.9	UG/G	9/21/90
5.1	18-19'	90.17431	TI	92.	280.	UG/G	9/21/90
5.1	18-19'	90.17431	TL	< 500.		NG/G	9/21/90
5.1	18-19'	90.17431	TM	720.	2200.	NG/G	9/21/90
5.1	18-19'	90.17431	U	< 500.		NG/G	9/21/90
5.1	18-19'	90.17431	W	< 500.		NG/G	9/21/90
5.1	18-19'	90.17431	Y	41.	120.	UG/G	9/21/90
5.1	18-19'	90.17431	YB	3.2	9.6	UG/G	9/21/90
5.1	18-19'	90.17431	ZN	49.	150.	UG/G	9/21/90
5.1	18-19'	90.17431	ZR	< 500.		NG/G	9/21/90

REPORT NUMBER: 8231

********** HSE-9 ANALYTICAL REPORT **********

Prepared by: MCW on 21-Sep-1990

ICP MASS SCAN

REQUEST NUMBER: 10780 MATRIX: S ANALYST: Mary Carol Williams PROGRAM CODE: M211

OWNER: Max Maes GROUP: HSE-8 MAIL-STOP: K490 PHONE: 7-0817 TASK-ID: ALLA-1

CUSTOMER NUMBER	SAMPLE NUMBER	ANALYSIS	RESULT	UNCERTAINTY	UNITS	COMPLETION DATE	COMMENT
5.1 23-24'	90.17432	AG	< 500.		NG/G	9/21/90	
5.1 23-24'	90.17432	AL	4.4	13.2	MG/G	9/21/90	
5.1 23-24'	90.17432	AS	6.8	20.4	UG/G	9/21/90	
5.1 23-24'	90.17432	AU	< 500.		NG/G	9/21/90	
5.1 23-24'	90.17432	BA	140.	420.	UG/G	9/21/90	
5.1 23-24'	90.17432	BE	< 5000.		NG/G	9/21/90	
5.1 23-24'	90.17432	BI	< 500.		NG/G	9/21/90	
5.1 23-24'	90.17432	CD	< 500.		NG/G	9/21/90	
5.1 23-24'	90.17432	CE	55.	170.	UG/G	9/21/90	
5.1 23-24'	90.17432	CO	7.9	23.7	UG/G	9/21/90	
5.1 23-24'	90.17432	CR	1.1	3.3	UG/G	9/21/90	
5.1 23-24'	90.17432	CS	< 500.		NG/G	9/21/90	
5.1 23-24'	90.17432	CU	19.	57.	UG/G	9/21/90	
5.1 23-24'	90.17432	DY	5.8	17.4	UG/G	9/21/90	
5.1 23-24'	90.17432	ER	3.	9.	UG/G	9/21/90	
5.1 23-24'	90.17432	EU	870.	2600.	NG/G	9/21/90	
5.1 23-24'	90.17432	FE	3.3	9.9	MG/G	9/21/90	
5.1 23-24'	90.17432	GA	6.2	18.6	UG/G	9/21/90	
5.1 23-24'	90.17432	GD	12.	36.	UG/G	9/21/90	
5.1 23-24'	90.17432	GE	9.2	27.6	UG/G	9/21/90	
5.1 23-24'	90.17432	HF	< 500.		NG/G	9/21/90	
5.1 23-24'	90.17432	HO	1.5	4.5	UG/G	9/21/90	
5.1 23-24'	90.17432	IN	< 500.		NG/G	9/21/90	
5.1 23-24'	90.17432	IR	< 500.		NG/G	9/21/90	
5.1 23-24'	90.17432	LA	48.	140.	UG/G	9/21/90	
5.1 23-24'	90.17432	LI	< 5000.		NG/G	9/21/90	
5.1 23-24'	90.17432	LU	< 500.		NG/G	9/21/90	
5.1 23-24'	90.17432	MN	950.	2900.	UG/G	9/21/90	
5.1 23-24'	90.17432	MO	< 500.		NG/G	9/21/90	
5.1 23-24'	90.17432	NB	< 500.		NG/G	9/21/90	
5.1 23-24'	90.17432	ND	47.	140.	UG/G	9/21/90	
5.1 23-24'	90.17432	NI	< 500.		NG/G	9/21/90	
5.1 23-24'	90.17432	PB	25.	75.	UG/G	9/21/90	
5.1 23-24'	90.17432	PD	< 500.		NG/G	9/21/90	
5.1 23-24'	90.17432	PR	13.	39.	UG/G	9/21/90	
5.1 23-24'	90.17432	PT	< 500.		NG/G	9/21/90	
5.1 23-24'	90.17432	RB	2.9	8.7	UG/G	9/21/90	
5.1 23-24'	90.17432	RH	< 500.		NG/G	9/21/90	
5.1 23-24'	90.17432	RU	< 500.		NG/G	9/21/90	

5.1 23-24'	90.17432	SB	< 500.		NG/G	9/21/90
5.1 23-24'	90.17432	SE	26.	78.	UG/G	9/21/90
5.1 23-24'	90.17432	SM	10.	30.	UG/G	9/21/90
5.1 23-24'	90.17432	SN	< 500.		NG/G	9/21/90
5.1 23-24'	90.17432	SR	20.	60.	UG/G	9/21/90
5.1 23-24'	90.17432	TA	< 500.		NG/G	9/21/90
5.1 23-24'	90.17432	TB	1.5	4.5	UG/G	9/21/90
5.1 23-24'	90.17432	TE	< 500.		NG/G	9/21/90
5.1 23-24'	90.17432	TH	40.	120.	UG/G	9/21/90
5.1 23-24'	90.17432	TI	86.	260.	UG/G	9/21/90
5.1 23-24'	90.17432	TL	< 500.		NG/G	9/21/90
5.1 23-24'	90.17432	TM	< 500.		NG/G	9/21/90
5.1 23-24'	90.17432	U	< 500.		NG/G	9/21/90
5.1 23-24'	90.17432	W	< 500.		NG/G	9/21/90
5.1 23-24'	90.17432	Y	23.	69.	UG/G	9/21/90
5.1 23-24'	90.17432	YB	2.8	8.4	UG/G	9/21/90
5.1 23-24'	90.17432	ZN	34.	100.	UG/G	9/21/90
5.1 23-24'	90.17432	ZR	670.	2000.	NG/G	9/21/90

REPORT NUMBER: 8231

********** HSE-9 ANALYTICAL REPORT **********

Prepared by: MCW on 21-Sep-1990

ICP MASS SCAN

REQUEST NUMBER: 10780 MATRIX: S ANALYST: Mary Carol Williams PROGRAM CODE: M211

OWNER: Max Maes GROUP: HSE-8 MAIL-STOP: K490 PHONE: 7-0817 TASK-ID: ALLA-1

CUSTOMER NUMBER	SAMPLE NUMBER	ANALYSIS	RESULT	UNCERTAINTY	UNITS	COMPLETION DATE	COMMENT
5.1 28-29'	90.17433	AG	< 500.		NG/G	9/21/90	
5.1 28-29'	90.17433	AL	1.8	5.4	MG/G	9/21/90	
5.1 28-29'	90.17433	AS	4.5	13.5	UG/G	9/21/90	
5.1 28-29'	90.17433	AU	< 500.		NG/G	9/21/90	
5.1 28-29'	90.17433	BA	34.	100.	UG/G	9/21/90	
5.1 28-29'	90.17433	BE	< 5000.		NG/G	9/21/90	
5.1 28-29'	90.17433	BI	< 500.		NG/G	9/21/90	
5.1 28-29'	90.17433	CD	< 500.		NG/G	9/21/90	
5.1 28-29'	90.17433	CE	19.	57.	UG/G	9/21/90	
5.1 28-29'	90.17433	CO	1.2	3.6	UG/G	9/21/90	
5.1 28-29'	90.17433	CR	< 500.		NG/G	9/21/90	
5.1 28-29'	90.17433	CS	< 500.		NG/G	9/21/90	
5.1 28-29'	90.17433	CU	16.	48.	UG/G	9/21/90	
5.1 28-29'	90.17433	DY	2.9	8.7	UG/G	9/21/90	
5.1 28-29'	90.17433	ER	710.	2100.	NG/G	9/21/90	
5.1 28-29'	90.17433	EU	< 500.		NG/G	9/21/90	
5.1 28-29'	90.17433	FE	1.4	4.2	MG/G	9/21/90	
5.1 28-29'	90.17433	GA	1.6	4.8	UG/G	9/21/90	
5.1 28-29'	90.17433	GD	3.3	9.9	UG/G	9/21/90	
5.1 28-29'	90.17433	GE	4.2	12.6	UG/G	9/21/90	
5.1 28-29'	90.17433	HF	< 500.		NG/G	9/21/90	
5.1 28-29'	90.17433	HO	560.	1700.	NG/G	9/21/90	
5.1 28-29'	90.17433	IN	< 500.		NG/G	9/21/90	
5.1 28-29'	90.17433	IR	< 500.		NG/G	9/21/90	
5.1 28-29'	90.17433	LA	17.	51.	UG/G	9/21/90	
5.1 28-29'	90.17433	LI	< 5000.		NG/G	9/21/90	
5.1 28-29'	90.17433	LU	< 500.		NG/G	9/21/90	
5.1 28-29'	90.17433	MN	290.	870.	UG/G	9/21/90	
5.1 28-29'	90.17433	MO	< 500.		NG/G	9/21/90	
5.1 28-29'	90.17433	NB	< 500.		NG/G	9/21/90	
5.1 28-29'	90.17433	ND	17.	51.	UG/G	9/21/90	
5.1 28-29'	90.17433	NI	< 500.		NG/G	9/21/90	
5.1 28-29'	90.17433	PB	12.	36.	UG/G	9/21/90	
5.1 28-29'	90.17433	PD	< 500.		NG/G	9/21/90	
5.1 28-29'	90.17433	PR	5.5	16.5	UG/G	9/21/90	
5.1 28-29'	90.17433	PT	< 500.		NG/G	9/21/90	
5.1 28-29'	90.17433	RB	1.3	3.9	UG/G	9/21/90	
5.1 28-29'	90.17433	RH	< 500.		NG/G	9/21/90	
5.1 28-29'	90.17433	RU	< 500.		NG/G	9/21/90	

5.1 28-29'	90.17433	SB	< 500.		NG/G	9/21/90
5.1 28-29'	90.17433	SE	7.3	21.9	UG/G	9/21/90
5.1 28-29'	90.17433	SM	4.	12.	UG/G	9/21/90
5.1 28-29'	90.17433	SN	< 500.		NG/G	9/21/90
5.1 28-29'	90.17433	SR	6.7	20.1	UG/G	9/21/90
5.1 28-29'	90.17433	TA	< 500.		NG/G	9/21/90
5.1 28-29'	90.17433	TB	500.	1500.	NG/G	9/21/90
5.1 28-29'	90.17433	TE	< 500.		NG/G	9/21/90
5.1 28-29'	90.17433	TH	14.	42.	UG/G	9/21/90
5.1 28-29'	90.17433	TI	56.	170.	UG/G	9/21/90
5.1 28-29'	90.17433	TL	< 500.		NG/G	9/21/90
5.1 28-29'	90.17433	TM	< 500.		NG/G	9/21/90
5.1 28-29'	90.17433	U	< 500.		NG/G	9/21/90
5.1 28-29'	90.17433	W	< 500.		NG/G	9/21/90
5.1 28-29'	90.17433	Y	9.	27.	UG/G	9/21/90
5.1 28-29'	90.17433	YB	550.	1700.	NG/G	9/21/90
5.1 28-29'	90.17433	ZN	20.	60.	UG/G	9/21/90
5.1 28-29'	90.17433	ZR	< 500.		NG/G	9/21/90

REPORT NUMBER: 8231

********** HSE-9 ANALYTICAL REPORT **********

Prepared by: MCW on 21-Sep-1990

ICP MASS SCAN

REQUEST NUMBER: 10780 MATRIX: S ANALYST: Mary Carol Williams PROGRAM CODE: M211

OWNER: Max Maes GROUP: HSE-8 MAIL-STOP: K490 PHONE: 7-0817 TASK-ID: ALLA-1

CUSTOMER NUMBER	SAMPLE NUMBER	ANALYSIS	RESULT	UNCERTAINTY	UNITS	COMPLETION DATE	COMMENT
5.1 38-39'	90.17434	AG	< 500.		NG/G	9/21/90	
5.1 38-39'	90.17434	AL	2.8	8.4	MG/G	9/21/90	
5.1 38-39'	90.17434	AS	8.	24.	UG/G	9/21/90	
5.1 38-39'	90.17434	AU	< 500.		NG/G	9/21/90	
5.1 38-39'	90.17434	BA	110.	330.	UG/G	9/21/90	
5.1 38-39'	90.17434	BE	< 5000.		NG/G	9/21/90	
5.1 38-39'	90.17434	BI	< 500.		NG/G	9/21/90	
5.1 38-39'	90.17434	CD	< 500.		NG/G	9/21/90	
5.1 38-39'	90.17434	CE	35.	110.	UG/G	9/21/90	
5.1 38-39'	90.17434	CO	< 500.		NG/G	9/21/90	
5.1 38-39'	90.17434	CR	0.8	2.4	UG/G	9/21/90	
5.1 38-39'	90.17434	CS	< 500.		NG/G	9/21/90	
5.1 38-39'	90.17434	CU	19.	57.	UG/G	9/21/90	
5.1 38-39'	90.17434	DY	5.8	17.4	UG/G	9/21/90	
5.1 38-39'	90.17434	ER	2.	6.	UG/G	9/21/90	
5.1 38-39'	90.17434	EU	< 500.		NG/G	9/21/90	
5.1 38-39'	90.17434	FE	550.	1700.	UG/G	9/21/90	
5.1 38-39'	90.17434	GA	5.	15.	UG/G	9/21/90	
5.1 38-39'	90.17434	GD	9.3	27.9	UG/G	9/21/90	
5.1 38-39'	90.17434	GE	5.3	15.9	UG/G	9/21/90	
5.1 38-39'	90.17434	HF	< 500.		NG/G	9/21/90	
5.1 38-39'	90.17434	HO	1.	3.	UG/G	9/21/90	
5.1 38-39'	90.17434	IN	< 500.		NG/G	9/21/90	
5.1 38-39'	90.17434	IR	< 500.		NG/G	9/21/90	
5.1 38-39'	90.17434	LA	27.	81.	UG/G	9/21/90	
5.1 38-39'	90.17434	LI	< 5000.		NG/G	9/21/90	
5.1 38-39'	90.17434	LU	< 500.		NG/G	9/21/90	
5.1 38-39'	90.17434	MN	300.	900.	UG/G	9/21/90	
5.1 38-39'	90.17434	MO	< 500.		NG/G	9/21/90	
5.1 38-39'	90.17434	NB	< 500.		NG/G	9/21/90	
5.1 38-39'	90.17434	ND	42.	130.	UG/G	9/21/90	
5.1 38-39'	90.17434	NI	< 500.		NG/G	9/21/90	
5.1 38-39'	90.17434	PB	20.	60.	UG/G	9/21/90	
5.1 38-39'	90.17434	PD	< 500.		NG/G	9/21/90	
5.1 38-39'	90.17434	PR	9.6	28.8	UG/G	9/21/90	
5.1 38-39'	90.17434	PT	< 500.		NG/G	9/21/90	
5.1 38-39'	90.17434	RB	35.	110.	UG/G	9/21/90	
5.1 38-39'	90.17434	RH	< 500.		NG/G	9/21/90	
5.1 38-39'	90.17434	RU	< 500.		NG/G	9/21/90	

5.1 38-39'	90.17434	SB	< 500.		NG/G	9/21/90
5.1 38-39'	90.17434	SE	18.	54.	UG/G	9/21/90
5.1 38-39'	90.17434	SM	10.	30.	UG/G	9/21/90
5.1 38-39'	90.17434	SN	< 500.		NG/G	9/21/90
5.1 38-39'	90.17434	SR	14.	42.	UG/G	9/21/90
5.1 38-39'	90.17434	TA	< 500.		NG/G	9/21/90
5.1 38-39'	90.17434	TB	1.4	4.2	UG/G	9/21/90
5.1 38-39'	90.17434	TE	< 500.		NG/G	9/21/90
5.1 38-39'	90.17434	TH	86.	260.	UG/G	9/21/90
5.1 38-39'	90.17434	TI	37.	110.	UG/G	9/21/90
5.1 38-39'	90.17434	TL	< 500.		NG/G	9/21/90
5.1 38-39'	90.17434	TM	< 500.		NG/G	9/21/90
5.1 38-39'	90.17434	U	< 500.		NG/G	9/21/90
5.1 38-39'	90.17434	W	< 500.		NG/G	9/21/90
5.1 38-39'	90.17434	Y	15.	45.	UG/G	9/21/90
5.1 38-39'	90.17434	YB	1.5	4.5	UG/G	9/21/90
5.1 38-39'	90.17434	ZN	27.	81.	UG/G	9/21/90
5.1 38-39'	90.17434	ZR	< 500.		NG/G	9/21/90

REPORT NUMBER: 8231

********** HSE-9 ANALYTICAL REPORT **********

Prepared by: MCW on 21-Sep-1990

ICP MASS SCAN

REQUEST NUMBER: 10780 MATRIX: S ANALYST: Mary Carol Williams PROGRAM CODE: M211

OWNER: Max Maes GROUP: HSE-8 MAIL-STOP: K490 PHONE: 7-0817 TASK-ID: ALLA-1

CUSTOMER NUMBER	SAMPLE NUMBER	ANALYSIS	RESULT	UNCERTAINTY	UNITS	COMPLETION DATE	COMMENT
5.1 47-48'	90.17476	AG	< 500.		NG/G	9/21/90	
5.1 47-48'	90.17476	AL	5.4	16.2	MG/G	9/21/90	
5.1 47-48'	90.17476	AS	5.	15.	UG/G	9/21/90	
5.1 47-48'	90.17476	AU	< 500.		NG/G	9/21/90	
5.1 47-48'	90.17476	BA	110.	330.	UG/G	9/21/90	
5.1 47-48'	90.17476	BE	< 5000.		NG/G	9/21/90	
5.1 47-48'	90.17476	BI	< 500.		NG/G	9/21/90	
5.1 47-48'	90.17476	CD	< 500.		NG/G	9/21/90	
5.1 47-48'	90.17476	CE	29.	87.	UG/G	9/21/90	
5.1 47-48'	90.17476	CO	1.1	3.3	UG/G	9/21/90	
5.1 47-48'	90.17476	CR	1.	3.	UG/G	9/21/90	
5.1 47-48'	90.17476	CS	< 500.		NG/G	9/21/90	
5.1 47-48'	90.17476	CU	32.	96.	UG/G	9/21/90	
5.1 47-48'	90.17476	DY	4.8	14.4	UG/G	9/21/90	
5.1 47-48'	90.17476	ER	1.7	5.1	UG/G	9/21/90	
5.1 47-48'	90.17476	EU	< 500.		NG/G	9/21/90	
5.1 47-48'	90.17476	FE	770.	2300.	UG/G	9/21/90	
5.1 47-48'	90.17476	GA	5.4	16.2	UG/G	9/21/90	
5.1 47-48'	90.17476	GD	6.4	19.2	UG/G	9/21/90	
5.1 47-48'	90.17476	GE	4.5	13.5	UG/G	9/21/90	
5.1 47-48'	90.17476	HF	< 500.		NG/G	9/21/90	
5.1 47-48'	90.17476	HO	640.	1900.	NG/G	9/21/90	
5.1 47-48'	90.17476	IN	< 500.		NG/G	9/21/90	
5.1 47-48'	90.17476	IR	< 500.		NG/G	9/21/90	
5.1 47-48'	90.17476	LA	20.	60.	UG/G	9/21/90	
5.1 47-48'	90.17476	LI	7.	21.	UG/G	9/21/90	
5.1 47-48'	90.17476	LU	< 500.		NG/G	9/21/90	
5.1 47-48'	90.17476	MN	240.	720.	UG/G	9/21/90	
5.1 47-48'	90.17476	MO	< 500.		NG/G	9/21/90	
5.1 47-48'	90.17476	NB	< 500.		NG/G	9/21/90	
5.1 47-48'	90.17476	ND	28.	84.	UG/G	9/21/90	
5.1 47-48'	90.17476	NI	< 500.		NG/G	9/21/90	
5.1 47-48'	90.17476	PB	24.	72.	UG/G	9/21/90	
5.1 47-48'	90.17476	PD	< 500.		NG/G	9/21/90	
5.1 47-48'	90.17476	PR	6.8	20.4	UG/G	9/21/90	
5.1 47-48'	90.17476	PT	< 500.		NG/G	9/21/90	
5.1 47-48'	90.17476	RB	29.	87.	UG/G	9/21/90	
5.1 47-48'	90.17476	RH	< 500.		NG/G	9/21/90	
5.1 47-48'	90.17476	RU	< 500.		NG/G	9/21/90	

REPORT NUMBER: 8231

********** HSE-9 ANALYTICAL REPORT **********

Prepared by: MCW on 21-Sep-1990

ICP MASS SCAN

REQUEST NUMBER: 10780 MATRIX: S ANALYST: Mary Carol Williams PROGRAM CODE: M211

OWNER: Max Maes GROUP: HSE-8 MAIL-STOP: K490 PHONE: 7-0817 TASK-ID: ALLA-1

CUSTOMER NUMBER	SAMPLE NUMBER	ANALYSIS	RESULT	UNCERTAINTY	UNITS	COMPLETION DATE	COMMENT
5.1 47-48'	90.17476	AG	< 500.		NG/G	9/21/90	
5.1 47-48'	90.17476	AL	5.4	16.2	MG/G	9/21/90	
5.1 47-48'	90.17476	AS	5.	15.	UG/G	9/21/90	
5.1 47-48'	90.17476	AU	< 500.		NG/G	9/21/90	
5.1 47-48'	90.17476	BA	110.	330.	UG/G	9/21/90	
5.1 47-48'	90.17476	BE	< 5000.		NG/G	9/21/90	
5.1 47-48'	90.17476	BI	< 500.		NG/G	9/21/90	
5.1 47-48'	90.17476	CD	< 500.		NG/G	9/21/90	
5.1 47-48'	90.17476	CE	29.	87.	UG/G	9/21/90	
5.1 47-48'	90.17476	CO	1.1	3.3	UG/G	9/21/90	
5.1 47-48'	90.17476	CR	1.	3.	UG/G	9/21/90	
5.1 47-48'	90.17476	CS	< 500.		NG/G	9/21/90	
5.1 47-48'	90.17476	CU	32.	96.	UG/G	9/21/90	
5.1 47-48'	90.17476	DY	4.8	14.4	UG/G	9/21/90	
5.1 47-48'	90.17476	ER	1.7	5.1	UG/G	9/21/90	
5.1 47-48'	90.17476	EU	< 500.		NG/G	9/21/90	
5.1 47-48'	90.17476	FE	770.	2300.	UG/G	9/21/90	
5.1 47-48'	90.17476	GA	5.4	16.2	UG/G	9/21/90	
5.1 47-48'	90.17476	GD	6.4	19.2	UG/G	9/21/90	
5.1 47-48'	90.17476	GE	4.5	13.5	UG/G	9/21/90	
5.1 47-48'	90.17476	HF	< 500.		NG/G	9/21/90	
5.1 47-48'	90.17476	HO	640.	1900.	NG/G	9/21/90	
5.1 47-48'	90.17476	IN	< 500.		NG/G	9/21/90	
5.1 47-48'	90.17476	IR	< 500.		NG/G	9/21/90	
5.1 47-48'	90.17476	LA	20.	60.	UG/G	9/21/90	
5.1 47-48'	90.17476	LI	7.	21.	UG/G	9/21/90	
5.1 47-48'	90.17476	LU	< 500.		NG/G	9/21/90	
5.1 47-48'	90.17476	MN	240.	720.	UG/G	9/21/90	
5.1 47-48'	90.17476	MO	< 500.		NG/G	9/21/90	
5.1 47-48'	90.17476	NB	< 500.		NG/G	9/21/90	
5.1 47-48'	90.17476	ND	28.	84.	UG/G	9/21/90	
5.1 47-48'	90.17476	NI	< 500.		NG/G	9/21/90	
5.1 47-48'	90.17476	PB	24.	72.	UG/G	9/21/90	
5.1 47-48'	90.17476	PD	< 500.		NG/G	9/21/90	
5.1 47-48'	90.17476	PR	6.8	20.4	UG/G	9/21/90	
5.1 47-48'	90.17476	PT	< 500.		NG/G	9/21/90	
5.1 47-48'	90.17476	RB	29.	87.	UG/G	9/21/90	
5.1 47-48'	90.17476	RH	< 500.		NG/G	9/21/90	
5.1 47-48'	90.17476	RU	< 500.		NG/G	9/21/90	

5.1 47-48'	90.17476	SB	< 500.		NG/G	9/21/90
5.1 47-48'	90.17476	SE	15.	45.	UG/G	9/21/90
5.1 47-48'	90.17476	SM	5.7	17.1	UG/G	9/21/90
5.1 47-48'	90.17476	SN	< 500.		NG/G	9/21/90
5.1 47-48'	90.17476	SR	20.	60.	UG/G	9/21/90
5.1 47-48'	90.17476	TA	< 500.		NG/G	9/21/90
5.1 47-48'	90.17476	TB	570.	1700.	NG/G	9/21/90
5.1 47-48'	90.17476	TE	< 500.		NG/G	9/21/90
5.1 47-48'	90.17476	TH	110.	330.	UG/G	9/21/90
5.1 47-48'	90.17476	TI	56.	170.	UG/G	9/21/90
5.1 47-48'	90.17476	TL	< 500.		NG/G	9/21/90
5.1 47-48'	90.17476	TM	< 500.		NG/G	9/21/90
5.1 47-48'	90.17476	U	< 500.		NG/G	9/21/90
5.1 47-48'	90.17476	W	< 500.		NG/G	9/21/90
5.1 47-48'	90.17476	Y	10.	30.	UG/G	9/21/90
5.1 47-48'	90.17476	YB	1.3	3.9	UG/G	9/21/90
5.1 47-48'	90.17476	ZN	21.	63.	UG/G	9/21/90
5.1 47-48'	90.17476	ZR	8.7	26.1	UG/G	9/21/90

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********** HSE-9 QUALITY ASSURANCE REPORT *********

ICP MASS SCAN

Prepared by: MCW on 21-Sep-1990

REQUEST NUMBER: 10780 MATRIX: S ANALYST: Mary Carol Williams PROGRAM CODE: M211

OWNER: Max Maes GROUP: HSE-8 MAIL-STOP: K490 PHONE: 7-0817 TASK-ID: ALLA-1

CUSTOMER NUM	SAMPLE NUM	ANALYSIS	RESULT	UNCERTAINTY	UNITS	CERTIFIED VALUE	CERTIFIED VALUE UNCERTAINTY	COMPLETION DATE
00.21441	00.21441	AG	180.	540.	UG/L	100.	10.	9/21/90 UNDER CONTROL
00.21441	00.21441	AL	160.	480.	UG/L	100.	10.	9/21/90 UNDER CONTROL
00.21441	00.21441	AS	170.	510.	UG/L	100.	10.	9/21/90 UNDER CONTROL
00.21441	00.21441	AU	< 1.		UG/L			9/21/90 UNDER CONTROL
00.21441	00.21441	BA	120.	360.	UG/L	100.	10.	9/21/90 UNDER CONTROL
00.21441	00.21441	BE	39.	120.	UG/L	100.	10.	9/21/90 UNDER CONTROL
00.21441	00.21441	BI	< 1.		UG/L			9/21/90 UNDER CONTROL
00.21441	00.21441	CD	120.	360.	UG/L	100.	10.	9/21/90 UNDER CONTROL
00.21441	00.21441	CE	< 1.		UG/L			9/21/90 UNDER CONTROL
00.21441	00.21441	CO	240.	720.	UG/L	100.	10.	9/21/90 UNDER CONTROL
00.21441	00.21441	CR	240.	720.	UG/L	100.	10.	9/21/90 UNDER CONTROL
00.21441	00.21441	CS	< 1.		UG/L			9/21/90 UNDER CONTROL
00.21441	00.21441	CU	260.	780.	UG/L	100.	10.	9/21/90 UNDER CONTROL
00.21441	00.21441	DY	< 1.		UG/L			9/21/90 UNDER CONTROL
00.21441	00.21441	ER	< 1.		UG/L			9/21/90 UNDER CONTROL
00.21441	00.21441	EU	< 1.		UG/L			9/21/90 UNDER CONTROL
00.21441	00.21441	FE	< 1.		UG/L	100.	10.	9/21/90 OUT OF CONTROL
00.21441	00.21441	GA	5.3	15.9	UG/L			9/21/90

							UNDER CONTROL
00.21441	00.21441 GD	< 1.		UG/L			9/21/90
							UNDER CONTROL
00.21441	00.21441 GE	< 1.		UG/L			9/21/90
							UNDER CONTROL
00.21441	00.21441 HF	< 1.		UG/L			9/21/90
							UNDER CONTROL
00.21441	00.21441 HO	< 1.		UG/L			9/21/90
							UNDER CONTROL
00.21441	00.21441 IN	< 1.		UG/L			9/21/90
							UNDER CONTROL
00.21441	00.21441 IR	< 1.		UG/L			9/21/90
							UNDER CONTROL
00.21441	00.21441 LA	< 1.		UG/L			9/21/90
							UNDER CONTROL
00.21441	00.21441 LI	< 10.		UG/L			9/21/90
							UNDER CONTROL
00.21441	00.21441 LU	< 1.		UG/L			9/21/90
							UNDER CONTROL
00.21441	00.21441 MN	230.	690.	UG/L	100.	10.	9/21/90
							UNDER CONTROL
00.21441	00.21441 MO	99.	297.	UG/L	100.	10.	9/21/90
							UNDER CONTROL
00.21441	00.21441 NB	< 1.		UG/L			9/21/90
							UNDER CONTROL
00.21441	00.21441 ND	< 1.		UG/L			9/21/90
							UNDER CONTROL
00.21441	00.21441 NI	280.	840.	UG/L	100.	10.	9/21/90
							UNDER CONTROL
0.21441	00.21441 PB	94.	280.	UG/L	100.	10.	9/21/90
							UNDER CONTROL
00.21441	00.21441 PD	< 1.		UG/L			9/21/90
							UNDER CONTROL
00.21441	00.21441 PR	< 1.		UG/L			9/21/90
							UNDER CONTROL
00.21441	00.21441 PT	< 1.		UG/L			9/21/90
							UNDER CONTROL
00.21441	00.21441 RB	< 1.		UG/L			9/21/90
							UNDER CONTROL
00.21441	00.21441 RH	< 1.		UG/L			9/21/90
							UNDER CONTROL
00.21441	00.21441 RU	< 1.		UG/L			9/21/90
							UNDER CONTROL
00.21441	00.21441 SB	98.	290.	UG/L	100.	10.	9/21/90
							UNDER CONTROL
00.21441	00.21441 SE	160.	480.	UG/L	100.	10.	9/21/90
							UNDER CONTROL
00.21441	00.21441 SM	< 1.		UG/L			9/21/90
							UNDER CONTROL
00.21441	00.21441 SN	2.5	7.5	UG/L			9/21/90
							UNDER CONTROL
00.21441	00.21441 SR	< 1.		UG/L			9/21/90
							UNDER CONTROL
00.21441	00.21441 TA	< 1.		UG/L			9/21/90
							UNDER CONTROL
.0.21441	00.21441 TB	< 1.		UG/L			9/21/90
							UNDER CONTROL
00.21441	00.21441 TE	< 1.		UG/L			9/21/90
							UNDER CONTROL
00.21441	00.21441 TH	< 1.		UG/L			9/21/90

00.21441	00.21441 TI	230.	690.	UG/L	100.	10.	UNDER CONTROL 9/21/90
00.21441	00.21441 TL	110.	330.	UG/L	100.	10.	UNDER CONTROL 9/21/90
00.21441	00.21441 TM	< 1.		UG/L			UNDER CONTROL 9/21/90
00.21441	00.21441 U	< 1.		UG/L	100.	10.	UNDER CONTROL 9/21/90
00.21441	00.21441 W	< 1.		UG/L			OUT OF CONTROL 9/21/90
00.21441	00.21441 Y	< 1.		UG/L			UNDER CONTROL 9/21/90
00.21441	00.21441 YB	< 1.		UG/L			UNDER CONTROL 9/21/90
00.21441	00.21441 ZN	170.	510.	UG/L	100.	10.	UNDER CONTROL 9/21/90
00.21441	00.21441 ZR	< 1.		UG/L			UNDER CONTROL 9/21/90

Analyst	Section Leader	QA Officer
9-26-90	9-26-90	9-27-90
Date	Date	Date

The control status of the preceeding data was evaluated using the standard statistical criteria set forth in 'Quality Assurance for Health and Environmental Chemistry: 1986,' LA-11114-MS, pp. 3-4.

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REPORT NUMBER: 8305

********** HSE-9 ANALYTICAL REPORT **********

Prepared by: MAB on 1-Oct-1990

ANALYSIS: HG REQUEST NUMBER: 10780 MATRIX: WE ANALYST: Trudi Foreman PROGRAM CODE: M211

OWNER: Max Maes GROUP: HSE-8 MAIL-STOP: K490 PHONE: 7-0817 TASK-ID: ALLA-1

ANALYTICAL TECHNIQUE: CVAA ANALYTICAL PROCEDURE :

CUSTOMER NUM	SAMPLE NUM	RESULT	UNCERTAINTY	UNITS	COMPLETION DATE	COMMENT
5.1 7-8'	90.17430	< 0.2		UG/L	10/01/90	
5.1 18-19'	90.17431	< 0.2		UG/L	10/01/90	
5.1 23-24'	90.17432	< 0.2		UG/L	10/01/90	
5.1 28-29'	90.17433	< 0.2		UG/L	10/01/90	
5.1 38-39'	90.17434	< 0.2		UG/L	10/01/90	
5.1 47-48'	90.17476	< 0.2		UG/L	10/01/90	

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REPORT NUMBER: 8305 (continued)

********** HSE-9 QUALITY ASSURANCE REPORT *********

Prepared by: MAB on 1-Oct-1990

REQUEST NUMBER: 10780 MATRIX: WE ANALYST: Trudi Foreman PROGRAM CODE: M211

OWNER: Max Maes GROUP: HSE-8 MAIL-STOP: K490 PHONE: 7-0817 TASK-ID: ALLA-1

CUSTOMER NUM	SAMPLE NUM	RESULT	UNCERTAINTY	UNITS	CERTIFIED VALUE	CERTIFIED VALUE UNCERTAINTY	COMPLETION DATE	COMMENT
00.20087	00.20087	4.34	0.4	UG/L	4.	0.4	10/01/90	UNDER CONTROL

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

SAMPLE NUM	RESULT	UNCERTAINTY	UNITS	CERTIFIED VALUE	CERTIFIED VALUE UNCERTAINTY	COMPLETION DATE	COMMENT
90.17448	2.6	0.3	UG/L	3.	0.3	10/01/90	UNDER CONTROL

Analyst	Section Leader	QA Officer
MHB TMF	MAB	MAB
10/1/90	10-1-90	10-1-90
Date	Date	Date

The control status of the preceeding data was evaluated using the standard statistical criteria set forth in 'Quality Assurance for Health and Environmental Chemistry: 1986,' LA-11114-MS, pp. 3-4.

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REPORT NUMBER: 8303

********** HSE-9 ANALYTICAL REPORT **********

Prepared by: MAB on 1-Oct-1990

ANALYSIS: HG REQUEST NUMBER: 10794 MATRIX: SE ANALYST: Malti Bhatia PROGRAM CODE: M211

OWNER: Max Maes GROUP: HSE-8 MAIL-STOP: K490 PHONE: 7-0817 TASK-ID: ALLA-1

ANALYTICAL TECHNIQUE: CVAA ANALYTICAL PROCEDURE :

CUSTOMER NUM	SAMPLE NUM	RESULT	UNCERTAINTY	UNITS	COMPLETION DATE	COMMENT
5.1 53-54'	90.17523	< 0.2		UG/L	10/01/90	
5.1 58-59'	90.17524	< 0.2		UG/L	10/01/90	
5.1 63-64'	90.17525	< 0.2		UG/L	10/01/90	
5.1 68-69'	90.17526	< 0.2		UG/L	10/01/90	
5.1 73-74'	90.17527	< 0.2		UG/L	10/01/90	
5.1 78-79'	90.17528	< 0.2		UG/L	10/01/90	
5.1 83-84'	90.17529	< 0.2		UG/L	10/01/90	
5.1 88-89'	90.17530	< 0.2		UG/L	10/01/90	
5.1 93-94'	90.17531	< 0.2		UG/L	10/01/90	
5.1 95S	90.17532	< 0.2		UG/L	10/01/90	
5.1 SB	90.17533	< 0.2		UG/L	10/01/90	
5.1 98-99'	90.17569	< 0.2		UG/L	10/01/90	
5.1 103-104	90.17570	< 0.2		UG/L	10/01/90	
5.1 108-109	90.17571	< 0.2		UG/L	10/01/90	
5.1 110-111	90.17572	< 0.2		UG/L	10/01/90	

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REPORT NUMBER: 8303 (continued)

********** HSE-9 QUALITY ASSURANCE REPORT *********

Prepared by: MAB on 1-Oct-1990

REQUEST NUMBER: 10794 MATRIX: SE ANALYST: Malti Bhatia PROGRAM CODE: M211

OWNER: Max Maes GROUP: HSE-8 MAIL-STOP: K490 PHONE: 7-0817 TASK-ID: ALLA-1

CUSTOMER NUM	SAMPLE NUM	RESULT	UNCERTAINTY	UNITS	CERTIFIED VALUE	CERTIFIED VALUE UNCERTAINTY	COMPLETION DATE	COMMENT
00.20087	00.20087	4.34	0.4	UG/L	4.	0.4	10/01/90	UNDER CONTROL
00.20087	00.20087	4.34	0.4	UG/L	4.	0.4	10/01/90	UNDER CONTROL

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

SAMPLE NUM	RESULT	UNCERTAINTY	UNITS	CERTIFIED VALUE	CERTIFIED VALUE UNCERTAINTY	COMPLETION DATE	COMMENT
90.17535	0.7	0.2	UG/L	1.	0.1	10/01/90	UNDER CONTROL

MAB	MSB	MSB
Analyst	Section Leader	QA Officer
10/1/90	10-1-90	10-1-90
Date	Date	Date

The control status of the preceeding data was evaluated using the standard statistical criteria set forth in 'Quality Assurance for Health and Environmental Chemistry: 1986,' LA-11114-MS, pp. 3-4.

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REPORT NUMBER: 8735

********** HSE-9 ANALYTICAL REPORT **********

Prepared by: APEL on 6-Nov-1990

REQUEST NUMBER: 10780 MATRIX: WE ANALYST: Charles T. Apel PROGRAM CODE: M211

OWNER: Max Maes GROUP: HSE-8 MAIL-STOP: K490 PHONE: 7-0817 TASK-ID: ALLA-1

CUSTOMER NUM	SAMPLE NUM	ANALYSIS	RESULT	UNCERTAINTY	UNITS	COMPLETION DATE	COMMENT
5.1 7-8'	90.17430	BA	0.31	0.03	MG/L	11/02/90	TCLP
5.1 7-8'	90.17430	CD	< 0.004		MG/L	11/02/90	TCLP
5.1 7-8'	90.17430	CR	< 0.007		MG/L	11/02/90	TCLP
5.1 7-8'	90.17430	PB	< 0.01		MG/L	11/02/90	TCLP
5.1 18-19'	90.17431	BA	0.39	0.04	MG/L	11/02/90	TCLP
5.1 18-19'	90.17431	CD	< 0.004		MG/L	11/02/90	TCLP
5.1 18-19'	90.17431	CR	< 0.007		MG/L	11/02/90	TCLP
5.1 18-19'	90.17431	PB	< 0.01		MG/L	11/02/90	TCLP
5.1 23-24'	90.17432	BA	0.38	0.04	MG/L	11/02/90	TCLP
5.1 23-24'	90.17432	CD	< 0.004		MG/L	11/02/90	TCLP
5.1 23-24'	90.17432	CR	< 0.007		MG/L	11/02/90	TCLP
5.1 23-24'	90.17432	PB	< 0.01		MG/L	11/02/90	TCLP
5.1 28-29'	90.17433	BA	0.17	0.02	MG/L	11/02/90	TCLP
5.1 28-29'	90.17433	CD	< 0.004		MG/L	11/02/90	TCLP
5.1 28-29'	90.17433	CR	< 0.007		MG/L	11/02/90	TCLP
5.1 28-29'	90.17433	PB	< 0.01		MG/L	11/02/90	TCLP
5.1 38-39'	90.17434	BA	0.18	0.02	MG/L	11/02/90	TCLP
5.1 38-39'	90.17434	CD	< 0.004		MG/L	11/02/90	TCLP
5.1 38-39'	90.17434	CR	< 0.007		MG/L	11/02/90	TCLP
5.1 38-39'	90.17434	PB	< 0.01		MG/L	11/02/90	TCLP
5.1 47-48'	90.17476	BA	0.18	0.02	MG/L	11/02/90	TCLP
5.1 47-48'	90.17476	CD	< 0.004		MG/L	11/02/90	TCLP
5.1 47-48'	90.17476	CR	< 0.007		MG/L	11/02/90	TCLP
5.1 47-48'	90.17476	PB	< 0.01		MG/L	11/02/90	TCLP

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REPORT NUMBER: 8735 (continued)

********** HSE-9 QUALITY ASSURANCE REPORT *********

Prepared by: APEL on 6-Nov-1990

REQUEST NUMBER: 10780 MATRIX: WE ANALYST: Charles T. Apel PROGRAM CODE: M211

OWNER: Max Maes GROUP: HSE-8 MAIL-STOP: K490 PHONE: 7-0817 TASK-ID: ALLA-1

CUSTOMER NUM	SAMPLE NUM	ANALYSIS	RESULT	UNCERTAINTY	UNITS	CERTIFIED VALUE	CERTIFIED VALUE UNCERTAINTY	COMPLETION DATE
00.20193	00.20193	BA	9.5	0.95	MG/L	10.	1.	11/02/90 UNDER CONTROL
00.20193	00.20193	BA	9.7	0.97	MG/L	10.	1.	11/02/90 UNDER CONTROL
00.20193	00.20193	CD	9.8	0.98	MG/L	10.	1.	11/02/90 UNDER CONTROL
00.20193	00.20193	CD	9.9	0.99	MG/L	10.	1.	11/02/90 UNDER CONTROL
00.20193	00.20193	CR	10.6	1.1	MG/L	10.	1.	11/02/90 UNDER CONTROL
00.20193	00.20193	CR	10.2	1.	MG/L	10.	1.	11/02/90 UNDER CONTROL
00.20193	00.20193	PB	9.9	0.99	MG/L	10.	1.	11/02/90 UNDER CONTROL
00.20193	00.20193	PB	9.9	0.99	MG/L	10.	1.	11/02/90 UNDER CONTROL

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

SAMPLE NUM	ANALYSIS	RESULT	UNCERTAINTY	UNITS	CERTIFIED VALUE	CERTIFIED VALUE UNCERTAINTY	COMPLETION DATE	COMMENT
90.17447	BA	17.9	1.8	MG/L	18.	2.	11/02/90	UNDER CONTROL
90.17447	CD	7.9	0.8	MG/L	8.	0.8	11/02/90	UNDER CONTROL
90.17447	CR	21.8	2.2	MG/L	20.	2.	11/02/90	UNDER CONTROL
90.17447	PB	11.8	1.2	MG/L	12.	1.	11/02/90	UNDER CONTROL

REPORT NUMBER: 8735

JDMontoya	MSB	MSB
Analyst	Section Leader	QA Officer
11/07/90	11-7-90	11-7-90
Date	Date	Date

The control status of the preceeding data was evaluated using the standard statistical criteria set forth in 'Quality Assurance for Health and Environmental Chemistry: 1986,' LA-11114-MS, pp. 3-4.

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REPORT NUMBER: 8369

********** HSE-9 ANALYTICAL REPORT **********

Prepared by: TMF on 9-Oct-1990

ANALYSIS: AG REQUEST NUMBER: 10780 MATRIX: WE ANALYST: Trudi Foreman PROGRAM CODE: M211

OWNER: Max Maes GROUP: HSE-8 MAIL-STOP: K490 PHONE: 7-0817 TASK-ID: ALLA-1

ANALYTICAL TECHNIQUE: FAA ANALYTICAL PROCEDURE : 7760

CUSTOMER NUM	SAMPLE NUM	RESULT	UNCERTAINTY	UNITS	COMPLETION DATE	COMMENT
5.1 7-8'	90.17430	< 10.		UG/L	10/09/90	
5.1 18-19'	90.17431	< 10.		UG/L	10/09/90	
5.1 23-24'	90.17432	< 10.		UG/L	10/09/90	
5.1 28-29'	90.17433	< 10.		UG/L	10/09/90	
5.1 38-39'	90.17434	< 10.		UG/L	10/09/90	
5.1 47-48'	90.17476	< 10.		UG/L	10/09/90	

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REPORT NUMBER: 8369 (continued)

********** HSE-9 QUALITY ASSURANCE REPORT *********

Prepared by: TMF on 9-Oct-1990

REQUEST NUMBER: 10780 MATRIX: WE ANALYST: Trudi Foreman PROGRAM CODE: M211

OWNER: Max Maes GROUP: HSE-8 MAIL-STOP: K490 PHONE: 7-0817 TASK-ID: ALLA-1

CUSTOMER NUM	SAMPLE NUM	RESULT	UNCERTAINTY	UNITS	CERTIFIED VALUE	CERTIFIED VALUE UNCERTAINTY	COMPLETION DATE	COMMENT
00.98805	00.98805	0.501	0.05	MG/L	0.5	0.05	10/09/90	UNDER CONTROL
00.98805	00.98805	0.5	0.05	MG/L	0.5	0.05	10/09/90	UNDER CONTROL
00.98805	00.98805	0.511	0.05	MG/L	0.5	0.05	10/09/90	UNDER CONTROL

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

SAMPLE NUM	RESULT	UNCERTAINTY	UNITS	CERTIFIED VALUE	CERTIFIED VALUE UNCERTAINTY	COMPLETION DATE	COMMENT
90.17162	630.	60.	UG/L	600.	60.	10/09/90	UNDER CONTROL
90.17447	950.	100.	UG/L	900.	90.	10/09/90	UNDER CONTROL

Analyst	Section Leader	QA Officer
10-10-90	10-10-90	10-10-90
Date	Date	Date

The control status of the preceeding data was evaluated using the standard statistical criteria set forth in 'Quality Assurance for Health and Environmental Chemistry: 1986,' LA-11114-MS, pp. 3-4.

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REPORT NUMBER: 8370

********** HSE-9 ANALYTICAL REPORT **********

Prepared by: TMF on 9-Oct-1990

ANALYSIS: AS REQUEST NUMBER: 10780 MATRIX: WE ANALYST: Trudi Foreman PROGRAM CODE: M211

OWNER: Max Maes GROUP: HSE-8 MAIL-STOP: K490 PHONE: 7-0817 TASK-ID: ALLA-1

ANALYTICAL TECHNIQUE: ETVAA ANALYTICAL PROCEDURE : 7760

CUSTOMER NUM	SAMPLE NUM	RESULT	UNCERTAINTY	UNITS	COMPLETION DATE	COMMENT
5.1 7-8'	90.17430	< 2.		UG/L	10/09/90	
5.1 18-19'	90.17431	< 2.		UG/L	10/09/90	
5.1 23-24'	90.17432	< 2.		UG/L	10/09/90	
5.1 28-29'	90.17433	< 2.		UG/L	10/09/90	
5.1 38-39'	90.17434	< 2.		UG/L	10/09/90	
5.1 47-48'	90.17476	< 2.		UG/L	10/09/90	

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REPORT NUMBER: 8370 (continued)

********** HSE-9 QUALITY ASSURANCE REPORT *********

Prepared by: TMF on 9-Oct-1990

REQUEST NUMBER: 10780 MATRIX: WE ANALYST: Trudi Foreman PROGRAM CODE: M211

OWNER: Max Maes GROUP: HSE-8 MAIL-STOP: K490 PHONE: 7-0817 TASK-ID: ALLA-1

CUSTOMER NUM	SAMPLE NUM	RESULT	UNCERTAINTY	UNITS	CERTIFIED VALUE	CERTIFIED VALUE UNCERTAINTY	COMPLETION DATE	COMMENT
00.01160	00.01160	52.8	11.	UG/L	51.	4.28	10/09/90	UNDER CONTROL
00.01160	00.01160	50.3	10.	UG/L	51.	4.28	10/09/90	UNDER CONTROL
00.01160	00.01160	50.5	11.	UG/L	51.	4.28	10/09/90	UNDER CONTROL
00.01160	00.01160	49.1	10.	UG/L	51.	4.28	10/09/90	UNDER CONTROL

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

SAMPLE NUM	RESULT	UNCERTAINTY	UNITS	CERTIFIED VALUE	CERTIFIED VALUE UNCERTAINTY	COMPLETION DATE	COMMENT
90.17447	25.	5.	UG/L	30.	3.	10/09/90	UNDER CONTROL

Analyst	Section Leader	QA Officer
10-10-90	10-10-90	10-10-90
Date	Date	Date

The control status of the preceeding data was evaluated using the standard statistical criteria set forth in 'Quality Assurance for Health and Environmental Chemistry: 1986,' LA-11114-MS, pp. 3-4.

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REPORT NUMBER: 8371

********** HSE-9 ANALYTICAL REPORT **********

Prepared by: TMF on 9-Oct-1990

ANALYSIS: SE REQUEST NUMBER: 10780 MATRIX: WE ANALYST: Trudi Foreman PROGRAM CODE: M211

OWNER: Max Maes GROUP: HSE-8 MAIL-STOP: K490 PHONE: 7-0817 TASK-ID: ALLA-1

ANALYTICAL TECHNIQUE: ETVAA ANALYTICAL PROCEDURE : 7740

CUSTOMER NUM	SAMPLE NUM	RESULT	UNCERTAINTY	UNITS	COMPLETION DATE	COMMENT
5.1 7-8'	90.17430	5.2	1.	UG/L	10/09/90	
5.1 18-19'	90.17431	5.7	1.	UG/L	10/09/90	
5.1 23-24'	90.17432	6.4	1.	UG/L	10/09/90	
5.1 28-29'	90.17433	4.8	1.	UG/L	10/09/90	
5.1 38-39'	90.17434	4.1	1.	UG/L	10/09/90	
5.1 47-48'	90.17476	5.4	1.	UG/L	10/09/90	

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REPORT NUMBER: 8371 (continued)

********** HSE-9 QUALITY ASSURANCE REPORT *********

Prepared by: TMF on 9-Oct-1990

REQUEST NUMBER: 10780 MATRIX: WE ANALYST: Trudi Foreman PROGRAM CODE: M211

OWNER: Max Maes GROUP: HSE-8 MAIL-STOP: K490 PHONE: 7-0817 TASK-ID: ALLA-1

CUSTOMER NUM	SAMPLE NUM	RESULT	UNCERTAINTY	UNITS	CERTIFIED VALUE	CERTIFIED VALUE UNCERTAINTY	COMPLETION DATE	COMMENT
00.01160	00.01160	11.	2.	UG/L	8.1	1.1	10/09/90	UNDER CONTROL
00.01160	00.01160	8.	2.	UG/L	8.1	1.1	10/09/90	UNDER CONTROL
00.01160	00.01160	8.6	2.	UG/L	8.1	1.1	10/09/90	UNDER CONTROL
00.01160	00.01160	7.7	2.	UG/L	8.1	1.1	10/09/90	UNDER CONTROL

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

SAMPLE NUM	RESULT	UNCERTAINTY	UNITS	CERTIFIED VALUE	CERTIFIED VALUE UNCERTAINTY	COMPLETION DATE	COMMENT
90.17447	11.8	2.	UG/L	12.	1.	10/09/90	UNDER CONTROL

Analyst	Section Leader	QA Officer
10-10-90	10-10-90	10-10-90
Date	Date	Date

The control status of the preceeding data was evaluated using the standard statistical criteria set forth in 'Quality Assurance for Health and Environmental Chemistry: 1986,' LA-11114-MS, pp. 3-4.

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REPORT NUMBER: 8786

********** HSE-9 ANALYTICAL REPORT **********

Prepared by: MCW on 8-Nov-1990

ICP MASS SCAN

REQUEST NUMBER: 10794 MATRIX: S ANALYST: Mary Carol Williams PROGRAM CODE: M211

OWNER: Max Maes GROUP: HSE-8 MAIL-STOP: K490 PHONE: 7-0817 TASK-ID: ALLA-1

CUSTOMER NUMBER	SAMPLE NUMBER	ANALYSIS	RESULT	UNCERTAINTY	UNITS	COMPLETION DATE	COMMENT
5.1 53-54'	90.17523	AG	< 500.		NG/G	11/08/90	
5.1 53-54'	90.17523	AL	590.	1800.	UG/G	11/08/90	
5.1 53-54'	90.17523	AS	< 500.		NG/G	11/08/90	
5.1 53-54'	90.17523	AU	< 500.		NG/G	11/08/90	
5.1 53-54'	90.17523	BA	8.9	26.7	UG/G	11/08/90	
5.1 53-54'	90.17523	BE	< 5000.		NG/G	11/08/90	
5.1 53-54'	90.17523	BI	< 500.		NG/G	11/08/90	
5.1 53-54'	90.17523	CD	< 500.		NG/G	11/08/90	
5.1 53-54'	90.17523	CE	9.4	28.2	UG/G	11/08/90	
5.1 53-54'	90.17523	CO	< 500.		NG/G	11/08/90	
5.1 53-54'	90.17523	CR	< 500.		NG/G	11/08/90	
5.1 53-54'	90.17523	CS	< 500.		NG/G	11/08/90	
5.1 53-54'	90.17523	CU	< 500.		NG/G	11/08/90	
5.1 53-54'	90.17523	DY	770.	2300.	NG/G	11/08/90	
5.1 53-54'	90.17523	ER	< 500.		NG/G	11/08/90	
5.1 53-54'	90.17523	EU	< 500.		NG/G	11/08/90	
5.1 53-54'	90.17523	GA	< 500.		NG/G	11/08/90	
5.1 53-54'	90.17523	GD	1.3	3.9	UG/G	11/08/90	
5.1 53-54'	90.17523	GE	< 500.		NG/G	11/08/90	
5.1 53-54'	90.17523	HF	< 500.		NG/G	11/08/90	
5.1 53-54'	90.17523	HO	< 500.		NG/G	11/08/90	
5.1 53-54'	90.17523	IN	< 500.		NG/G	11/08/90	
5.1 53-54'	90.17523	IR	< 500.		NG/G	11/08/90	
5.1 53-54'	90.17523	LA	3.3	9.9	UG/G	11/08/90	
5.1 53-54'	90.17523	LI	7.8	23.4	UG/G	11/08/90	
5.1 53-54'	90.17523	LU	< 500.		NG/G	11/08/90	
5.1 53-54'	90.17523	MN	31.	93.	UG/G	11/08/90	
5.1 53-54'	90.17523	MO	< 500.		NG/G	11/08/90	
5.1 53-54'	90.17523	NB	< 500.		NG/G	11/08/90	
5.1 53-54'	90.17523	ND	4.3	12.9	UG/G	11/08/90	
5.1 53-54'	90.17523	NI	< 500.		NG/G	11/08/90	
5.1 53-54'	90.17523	PB	3.7	11.1	UG/G	11/08/90	
5.1 53-54'	90.17523	PD	< 500.		NG/G	11/08/90	
5.1 53-54'	90.17523	PR	1.3	3.9	UG/G	11/08/90	
5.1 53-54'	90.17523	PT	< 500.		NG/G	11/08/90	
5.1 53-54'	90.17523	RB	5.2	15.6	UG/G	11/08/90	
5.1 53-54'	90.17523	RH	< 500.		NG/G	11/08/90	
5.1 53-54'	90.17523	RU	< 500.		NG/G	11/08/90	
5.1 53-54'	90.17523	SB	< 500.		NG/G	11/08/90	

5.1 53-54'	90.17523	SE	< 5000.		NG/G	11/08/90
5.1 53-54'	90.17523	SM	1.1	3.3	UG/G	11/08/90
5.1 53-54'	90.17523	SN	< 500.		NG/G	11/08/90
5.1 53-54'	90.17523	SR	3.1	9.3	UG/G	11/08/90
5.1 53-54'	90.17523	TA	< 500.		NG/G	11/08/90
5.1 53-54'	90.17523	TB	< 500.		NG/G	11/08/90
5.1 53-54'	90.17523	TE	< 500.		NG/G	11/08/90
5.1 53-54'	90.17523	TH	16.	48.	UG/G	11/08/90
5.1 53-54'	90.17523	TI	< 5000.		NG/G	11/08/90
5.1 53-54'	90.17523	TL	< 500.		NG/G	11/08/90
5.1 53-54'	90.17523	TM	< 500.		NG/G	11/08/90
5.1 53-54'	90.17523	U	< 500.		NG/G	11/08/90
5.1 53-54'	90.17523	V	< 5000.		NG/G	11/08/90
5.1 53-54'	90.17523	W	< 500.		NG/G	11/08/90
5.1 53-54'	90.17523	Y	3.8	11.4	UG/G	11/08/90
5.1 53-54'	90.17523	YB	< 500.		NG/G	11/08/90
5.1 53-54'	90.17523	ZN	1.1	3.3	UG/G	11/08/90
5.1 53-54'	90.17523	ZR	< 500.		NG/G	11/08/90

REPORT NUMBER: 8786

********** HSE-9 ANALYTICAL REPORT **********

Prepared by: MCW on 8-Nov-1990

ICP MASS SCAN

REQUEST NUMBER: 10794 MATRIX: S ANALYST: Mary Carol Williams PROGRAM CODE: M211

OWNER: Max Maes GROUP: HSE-8 MAIL-STOP: K490 PHONE: 7-0817 TASK-ID: ALLA-1

CUSTOMER NUMBER	SAMPLE NUMBER	ANALYSIS	RESULT	UNCERTAINTY	UNITS	COMPLETION DATE	COMMENT
5.1 58-59'	90.17524	AG	< 500.		NG/G	11/08/90	
5.1 58-59'	90.17524	AL	530.	1600.	UG/G	11/08/90	
5.1 58-59'	90.17524	AS	< 500.		NG/G	11/08/90	
5.1 58-59'	90.17524	AU	< 500.		NG/G	11/08/90	
5.1 58-59'	90.17524	BA	7.9	23.7	UG/G	11/08/90	
5.1 58-59'	90.17524	BE	< 5000.		NG/G	11/08/90	
5.1 58-59'	90.17524	BI	< 500.		NG/G	11/08/90	
5.1 58-59'	90.17524	CD	< 500.		NG/G	11/08/90	
5.1 58-59'	90.17524	CE	6.7	20.1	UG/G	11/08/90	
5.1 58-59'	90.17524	CO	< 500.		NG/G	11/08/90	
5.1 58-59'	90.17524	CR	< 500.		NG/G	11/08/90	
5.1 58-59'	90.17524	CS	< 500.		NG/G	11/08/90	
5.1 58-59'	90.17524	CU	< 500.		NG/G	11/08/90	
5.1 58-59'	90.17524	DY	840.	2500.	NG/G	11/08/90	
5.1 58-59'	90.17524	ER	< 500.		NG/G	11/08/90	
5.1 58-59'	90.17524	EU	< 500.		NG/G	11/08/90	
5.1 58-59'	90.17524	GA	< 500.		NG/G	11/08/90	
5.1 58-59'	90.17524	GD	1.3	3.9	UG/G	11/08/90	
5.1 58-59'	90.17524	GE	< 500.		NG/G	11/08/90	
5.1 58-59'	90.17524	HF	< 500.		NG/G	11/08/90	
5.1 58-59'	90.17524	HO	< 500.		NG/G	11/08/90	
5.1 58-59'	90.17524	IN	< 500.		NG/G	11/08/90	
5.1 58-59'	90.17524	IR	< 500.		NG/G	11/08/90	
5.1 58-59'	90.17524	LA	3.3	9.9	UG/G	11/08/90	
5.1 58-59'	90.17524	LI	7.8	23.4	UG/G	11/08/90	
5.1 58-59'	90.17524	LU	< 500.		NG/G	11/08/90	
5.1 58-59'	90.17524	MN	36.	110.	UG/G	11/08/90	
5.1 58-59'	90.17524	MO	< 500.		NG/G	11/08/90	
5.1 58-59'	90.17524	NB	< 500.		NG/G	11/08/90	
5.1 58-59'	90.17524	ND	4.5	13.5	UG/G	11/08/90	
5.1 58-59'	90.17524	NI	< 500.		NG/G	11/08/90	
5.1 58-59'	90.17524	PB	2.4	7.2	UG/G	11/08/90	
5.1 58-59'	90.17524	PD	< 500.		NG/G	11/08/90	
5.1 58-59'	90.17524	PR	1.2	3.6	UG/G	11/08/90	
5.1 58-59'	90.17524	PT	< 500.		NG/G	11/08/90	
5.1 58-59'	90.17524	RB	3.3	9.9	UG/G	11/08/90	
5.1 58-59'	90.17524	RH	< 500.		NG/G	11/08/90	
5.1 58-59'	90.17524	RU	< 500.		NG/G	11/08/90	
5.1 58-59'	90.17524	SB	< 500.		NG/G	11/08/90	

5.1 58-59'	90.17524	SE	< 5000.		NG/G	11/08/90
5.1 58-59'	90.17524	SM	1.2	3.6	UG/G	11/08/90
5.1 58-59'	90.17524	SN	< 500.		NG/G	11/08/90
5.1 58-59'	90.17524	SR	2.1	6.3	UG/G	11/08/90
5.1 58-59'	90.17524	TA	< 500.		NG/G	11/08/90
5.1 58-59'	90.17524	TB	< 500.		NG/G	11/08/90
5.1 58-59'	90.17524	TE	< 500.		NG/G	11/08/90
5.1 58-59'	90.17524	TH	18.	54.	UG/G	11/08/90
5.1 58-59'	90.17524	TI	< 5000.		NG/G	11/08/90
5.1 58-59'	90.17524	TL	< 500.		NG/G	11/08/90
5.1 58-59'	90.17524	TM	< 500.		NG/G	11/08/90
5.1 58-59'	90.17524	U	< 500.		NG/G	11/08/90
5.1 58-59'	90.17524	V	< 5000.		NG/G	11/08/90
5.1 58-59'	90.17524	W	< 500.		NG/G	11/08/90
5.1 58-59'	90.17524	Y	4.2	12.6	UG/G	11/08/90
5.1 58-59'	90.17524	YB	< 500.		NG/G	11/08/90
5.1 58-59'	90.17524	ZN	1.6	4.8	UG/G	11/08/90
5.1 58-59'	90.17524	ZR	< 500.		NG/G	11/08/90

REPORT NUMBER: 8786

********** HSE-9 ANALYTICAL REPORT **********

Prepared by: MCW on 8-Nov-1990

ICP MASS SCAN

REQUEST NUMBER: 10794 MATRIX: S ANALYST: Mary Carol Williams PROGRAM CODE: M211

OWNER: Max Maes GROUP: HSE-8 MAIL-STOP: K490 PHONE: 7-0817 TASK-ID: ALLA-1

CUSTOMER NUMBER	SAMPLE NUMBER	ANALYSIS	RESULT	UNCERTAINTY	UNITS	COMPLETION DATE	COMMENT
5.1 63-64'	90.17525	AG	< 500.		NG/G	11/08/90	
5.1 63-64'	90.17525	AL	580.	1700.	UG/G	11/08/90	
5.1 63-64'	90.17525	AS	< 500.		NG/G	11/08/90	
5.1 63-64'	90.17525	AU	< 500.		NG/G	11/08/90	
5.1 63-64'	90.17525	BA	8.8	26.4	UG/G	11/08/90	
5.1 63-64'	90.17525	BE	< 5000.		NG/G	11/08/90	
5.1 63-64'	90.17525	BI	< 500.		NG/G	11/08/90	
5.1 63-64'	90.17525	CD	< 500.		NG/G	11/08/90	
5.1 63-64'	90.17525	CE	5.3	15.9	UG/G	11/08/90	
5.1 63-64'	90.17525	CO	< 500.		NG/G	11/08/90	
5.1 63-64'	90.17525	CR	< 500.		NG/G	11/08/90	
5.1 63-64'	90.17525	CS	< 500.		NG/G	11/08/90	
5.1 63-64'	90.17525	CU	< 500.		NG/G	11/08/90	
5.1 63-64'	90.17525	DY	890.	2700.	NG/G	11/08/90	
5.1 63-64'	90.17525	ER	< 500.		NG/G	11/08/90	
5.1 63-64'	90.17525	EU	< 500.		NG/G	11/08/90	
5.1 63-64'	90.17525	GA	< 500.		NG/G	11/08/90	
5.1 63-64'	90.17525	GD	1.2	3.6	UG/G	11/08/90	
5.1 63-64'	90.17525	GE	580.	1700.	NG/G	11/08/90	
5.1 63-64'	90.17525	HF	< 500.		NG/G	11/08/90	
5.1 63-64'	90.17525	HO	< 500.		NG/G	11/08/90	
5.1 63-64'	90.17525	IN	< 500.		NG/G	11/08/90	
5.1 63-64'	90.17525	IR	< 500.		NG/G	11/08/90	
5.1 63-64'	90.17525	LA	3.1	9.3	UG/G	11/08/90	
5.1 63-64'	90.17525	LI	7.5	22.5	UG/G	11/08/90	
5.1 63-64'	90.17525	LU	< 500.		NG/G	11/08/90	
5.1 63-64'	90.17525	MN	35.	110.	UG/G	11/08/90	
5.1 63-64'	90.17525	MO	< 500.		NG/G	11/08/90	
5.1 63-64'	90.17525	NB	< 500.		NG/G	11/08/90	
5.1 63-64'	90.17525	ND	4.3	12.9	UG/G	11/08/90	
5.1 63-64'	90.17525	NI	< 500.		NG/G	11/08/90	
5.1 63-64'	90.17525	PB	1.9	5.7	UG/G	11/08/90	
5.1 63-64'	90.17525	PD	< 500.		NG/G	11/08/90	
5.1 63-64'	90.17525	PR	1.3	3.9	UG/G	11/08/90	
5.1 63-64'	90.17525	PT	< 500.		NG/G	11/08/90	
5.1 63-64'	90.17525	RB	3.4	10.2	UG/G	11/08/90	
5.1 63-64'	90.17525	RH	< 500.		NG/G	11/08/90	
5.1 63-64'	90.17525	RU	< 500.		NG/G	11/08/90	
5.1 63-64'	90.17525	SB	< 500.		NG/G	11/08/90	

5.1 63-64'	90.17525	SE	< 5000.		NG/G	11/08/90
5.1 63-64'	90.17525	SM	1.3	3.9	UG/G	11/08/90
5.1 63-64'	90.17525	SN	< 500.		NG/G	11/08/90
5.1 63-64'	90.17525	SR	2.2	6.6	UG/G	11/08/90
5.1 63-64'	90.17525	TA	< 500.		NG/G	11/08/90
5.1 63-64'	90.17525	TB	< 500.		NG/G	11/08/90
5.1 63-64'	90.17525	TE	< 500.		NG/G	11/08/90
5.1 63-64'	90.17525	TH	16.	48.	UG/G	11/08/90
5.1 63-64'	90.17525	TI	< 5000.		NG/G	11/08/90
5.1 63-64'	90.17525	TL	< 500.		NG/G	11/08/90
5.1 63-64'	90.17525	TM	< 500.		NG/G	11/08/90
5.1 63-64'	90.17525	U	< 500.		NG/G	11/08/90
5.1 63-64'	90.17525	V	< 5000.		NG/G	11/08/90
5.1 63-64'	90.17525	W	< 500.		NG/G	11/08/90
5.1 63-64'	90.17525	Y	3.4	10.2	UG/G	11/08/90
5.1 63-64'	90.17525	YB	< 500.		NG/G	11/08/90
5.1 63-64'	90.17525	ZN	1.7	5.1	UG/G	11/08/90
5.1 63-64'	90.17525	ZR	< 500.		NG/G	11/08/90

REPORT NUMBER: 8786

********** HSE-9 ANALYTICAL REPORT **********

Prepared by: MCW on 8-Nov-1990

ICP MASS SCAN

REQUEST NUMBER: 10794 MATRIX: S ANALYST: Mary Carol Williams PROGRAM CODE: M211

OWNER: Max Maes GROUP: HSE-8 MAIL-STOP: K490 PHONE: 7-0817 TASK-ID: ALLA-1

CUSTOMER NUMBER	SAMPLE NUMBER	ANALYSIS	RESULT	UNCERTAINTY	UNITS	COMPLETION DATE	COMMENT
5.1 68-69'	90.17526	AG	< 500.		NG/G	11/08/90	
5.1 68-69'	90.17526	AL	520.	1600.	UG/G	11/08/90	
5.1 68-69'	90.17526	AS	< 500.		NG/G	11/08/90	
5.1 68-69'	90.17526	AU	< 500.		NG/G	11/08/90	
5.1 68-69'	90.17526	BA	8.1	24.3	UG/G	11/08/90	
5.1 68-69'	90.17526	BE	< 5000.		NG/G	11/08/90	
5.1 68-69'	90.17526	BI	< 500.		NG/G	11/08/90	
5.1 68-69'	90.17526	CD	< 500.		NG/G	11/08/90	
5.1 68-69'	90.17526	CE	7.5	22.5	UG/G	11/08/90	
5.1 68-69'	90.17526	CO	< 500.		NG/G	11/08/90	
5.1 68-69'	90.17526	CR	950.	2900.	NG/G	11/08/90	
5.1 68-69'	90.17526	CS	< 500.		NG/G	11/08/90	
5.1 68-69'	90.17526	CU	< 500.		NG/G	11/08/90	
5.1 68-69'	90.17526	DY	1000.	3000.	NG/G	11/08/90	
5.1 68-69'	90.17526	ER	< 500.		NG/G	11/08/90	
5.1 68-69'	90.17526	EU	< 500.		NG/G	11/08/90	
5.1 68-69'	90.17526	GA	< 500.		NG/G	11/08/90	
5.1 68-69'	90.17526	GD	1.5	4.5	UG/G	11/08/90	
5.1 68-69'	90.17526	GE	680.	2000.	NG/G	11/08/90	
5.1 68-69'	90.17526	HF	< 500.		NG/G	11/08/90	
5.1 68-69'	90.17526	HO	< 500.		NG/G	11/08/90	
5.1 68-69'	90.17526	IN	< 500.		NG/G	11/08/90	
5.1 68-69'	90.17526	IR	< 500.		NG/G	11/08/90	
5.1 68-69'	90.17526	LA	3.3	9.9	UG/G	11/08/90	
5.1 68-69'	90.17526	LI	6.1	18.3	UG/G	11/08/90	
5.1 68-69'	90.17526	LU	< 500.		NG/G	11/08/90	
5.1 68-69'	90.17526	MN	34.	100.	UG/G	11/08/90	
5.1 68-69'	90.17526	MO	< 500.		NG/G	11/08/90	
5.1 68-69'	90.17526	NB	< 500.		NG/G	11/08/90	
5.1 68-69'	90.17526	ND	4.9	14.7	UG/G	11/08/90	
5.1 68-69'	90.17526	NI	< 500.		NG/G	11/08/90	
5.1 68-69'	90.17526	PB	1.7	5.1	UG/G	11/08/90	
5.1 68-69'	90.17526	PD	< 500.		NG/G	11/08/90	
5.1 68-69'	90.17526	PR	1.3	3.9	UG/G	11/08/90	
5.1 68-69'	90.17526	PT	< 500.		NG/G	11/08/90	
5.1 68-69'	90.17526	RB	5.3	15.9	UG/G	11/08/90	
5.1 68-69'	90.17526	RH	< 500.		NG/G	11/08/90	
5.1 68-69'	90.17526	RU	< 500.		NG/G	11/08/90	
5.1 68-69'	90.17526	SB	< 500.		NG/G	11/08/90	

5.1 68-69'	90.17526	SE	< 5000.		NG/G	11/08/90
5.1 68-69'	90.17526	SM	1.4	4.2	UG/G	11/08/90
5.1 68-69'	90.17526	SN	< 500.		NG/G	11/08/90
5.1 68-69'	90.17526	SR	1.9	5.7	UG/G	11/08/90
5.1 68-69'	90.17526	TA	< 500.		NG/G	11/08/90
5.1 68-69'	90.17526	TB	< 500.		NG/G	11/08/90
5.1 68-69'	90.17526	TE	< 500.		NG/G	11/08/90
5.1 68-69'	90.17526	TH	16.	48.	UG/G	11/08/90
5.1 68-69'	90.17526	TI	< 5000.		NG/G	11/08/90
5.1 68-69'	90.17526	TL	< 500.		NG/G	11/08/90
5.1 68-69'	90.17526	TM	< 500.		NG/G	11/08/90
5.1 68-69'	90.17526	U	< 500.		NG/G	11/08/90
5.1 68-69'	90.17526	V	< 5000.		NG/G	11/08/90
5.1 68-69'	90.17526	W	< 500.		NG/G	11/08/90
5.1 68-69'	90.17526	Y	4.3	12.9	UG/G	11/08/90
5.1 68-69'	90.17526	YB	< 500.		NG/G	11/08/90
5.1 68-69'	90.17526	ZN	1.2	3.6	UG/G	11/08/90
5.1 68-69'	90.17526	ZR	< 500.		NG/G	11/08/90

REPORT NUMBER: 8786

********** HSE-9 ANALYTICAL REPORT **********

Prepared by: MCW on 8-Nov-1990

ICP MASS SCAN

REQUEST NUMBER: 10794 MATRIX: S ANALYST: Mary Carol Williams PROGRAM CODE: M211

OWNER: Max Maes GROUP: HSE-8 MAIL-STOP: K490 PHONE: 7-0817 TASK-ID: ALLA-1

CUSTOMER NUMBER	SAMPLE NUMBER	ANALYSIS	RESULT	UNCERTAINTY	UNITS	COMPLETION DATE	COMMENT
5.1 73-74'	90.17527	AG	< 500.		NG/G	11/08/90	
5.1 73-74'	90.17527	AL	450.	1400.	UG/G	11/08/90	
5.1 73-74'	90.17527	AS	< 500.		NG/G	11/08/90	
5.1 73-74'	90.17527	AU	< 500.		NG/G	11/08/90	
5.1 73-74'	90.17527	BA	7.1	21.3	UG/G	11/08/90	
5.1 73-74'	90.17527	BE	< 5000.		NG/G	11/08/90	
5.1 73-74'	90.17527	BI	< 500.		NG/G	11/08/90	
5.1 73-74'	90.17527	CD	< 500.		NG/G	11/08/90	
5.1 73-74'	90.17527	CE	5.7	17.1	UG/G	11/08/90	
5.1 73-74'	90.17527	CO	< 500.		NG/G	11/08/90	
5.1 73-74'	90.17527	CR	< 500.		NG/G	11/08/90	
5.1 73-74'	90.17527	CS	< 500.		NG/G	11/08/90	
5.1 73-74'	90.17527	CU	< 500.		NG/G	11/08/90	
5.1 73-74'	90.17527	DY	910.	2700.	NG/G	11/08/90	
5.1 73-74'	90.17527	ER	560.	1700.	NG/G	11/08/90	
5.1 73-74'	90.17527	EU	< 500.		NG/G	11/08/90	
5.1 73-74'	90.17527	GA	< 500.		NG/G	11/08/90	
5.1 73-74'	90.17527	GD	2.	6.	UG/G	11/08/90	
5.1 73-74'	90.17527	GE	1.9	5.7	UG/G	11/08/90	
5.1 73-74'	90.17527	HF	< 500.		NG/G	11/08/90	
5.1 73-74'	90.17527	HO	< 500.		NG/G	11/08/90	
5.1 73-74'	90.17527	IN	< 500.		NG/G	11/08/90	
5.1 73-74'	90.17527	IR	< 500.		NG/G	11/08/90	
5.1 73-74'	90.17527	LA	3.3	9.9	UG/G	11/08/90	
5.1 73-74'	90.17527	LI	< 5000.		NG/G	11/08/90	
5.1 73-74'	90.17527	LU	< 500.		NG/G	11/08/90	
5.1 73-74'	90.17527	MN	100.	300.	UG/G	11/08/90	
5.1 73-74'	90.17527	MO	< 500.		NG/G	11/08/90	
5.1 73-74'	90.17527	NB	< 500.		NG/G	11/08/90	
5.1 73-74'	90.17527	ND	5.3	15.9	UG/G	11/08/90	
5.1 73-74'	90.17527	NI	< 500.		NG/G	11/08/90	
5.1 73-74'	90.17527	PB	1.7	5.1	UG/G	11/08/90	
5.1 73-74'	90.17527	PD	< 500.		NG/G	11/08/90	
5.1 73-74'	90.17527	PR	1.1	3.3	UG/G	11/08/90	
5.1 73-74'	90.17527	PT	< 500.		NG/G	11/08/90	
5.1 73-74'	90.17527	RB	4.8	14.4	UG/G	11/08/90	
5.1 73-74'	90.17527	RH	< 500.		NG/G	11/08/90	
5.1 73-74'	90.17527	RU	< 500.		NG/G	11/08/90	
5.1 73-74'	90.17527	SB	< 500.		NG/G	11/08/90	

5.1 73-74'	90.17527	SE	< 5000.		NG/G	11/08/90
5.1 73-74'	90.17527	SM	1.7	5.1	UG/G	11/08/90
5.1 73-74'	90.17527	SN	< 500.		NG/G	11/08/90
5.1 73-74'	90.17527	SR	1.7	5.1	UG/G	11/08/90
5.1 73-74'	90.17527	TA	< 500.		NG/G	11/08/90
5.1 73-74'	90.17527	TB	< 500.		NG/G	11/08/90
5.1 73-74'	90.17527	TE	< 500.		NG/G	11/08/90
5.1 73-74'	90.17527	TH	18.	54.	UG/G	11/08/90
5.1 73-74'	90.17527	TI	< 5000.		NG/G	11/08/90
5.1 73-74'	90.17527	TL	< 500.		NG/G	11/08/90
5.1 73-74'	90.17527	TM	< 500.		NG/G	11/08/90
5.1 73-74'	90.17527	U	< 500.		NG/G	11/08/90
5.1 73-74'	90.17527	V	< 5000.		NG/G	11/08/90
5.1 73-74'	90.17527	W	< 500.		NG/G	11/08/90
5.1 73-74'	90.17527	Y	4.	12.	UG/G	11/08/90
5.1 73-74'	90.17527	YB	< 500.		NG/G	11/08/90
5.1 73-74'	90.17527	ZN	3.1	9.3	UG/G	11/08/90
5.1 73-74'	90.17527	ZR	< 500.		NG/G	11/08/90

REPORT NUMBER: 8786

********** HSE-9 ANALYTICAL REPORT **********

Prepared by: MCW on 8-Nov-1990

ICP MASS SCAN

REQUEST NUMBER: 10794 MATRIX: S ANALYST: Mary Carol Williams PROGRAM CODE: M211

OWNER: Max Maes GROUP: HSE-8 MAIL-STOP: K490 PHONE: 7-0817 TASK-ID: ALLA-1

CUSTOMER NUMBER	SAMPLE NUMBER	ANALYSIS	RESULT	UNCERTAINTY	UNITS	COMPLETION DATE	COMMENT
5.1 78-79'	90.17528	AG	< 500.		NG/G	11/08/90	
5.1 78-79'	90.17528	AL	530.	1600.	UG/G	11/08/90	
5.1 78-79'	90.17528	AS	< 500.		NG/G	11/08/90	
5.1 78-79'	90.17528	AU	< 500.		NG/G	11/08/90	
5.1 78-79'	90.17528	BA	7.3	21.9	UG/G	11/08/90	
5.1 78-79'	90.17528	BE	< 5000.		NG/G	11/08/90	
5.1 78-79'	90.17528	BI	< 500.		NG/G	11/08/90	
5.1 78-79'	90.17528	CD	< 500.		NG/G	11/08/90	
5.1 78-79'	90.17528	CE	5.8	17.4	UG/G	11/08/90	
5.1 78-79'	90.17528	CO	< 500.		NG/G	11/08/90	
5.1 78-79'	90.17528	CR	< 500.		NG/G	11/08/90	
5.1 78-79'	90.17528	CS	< 500.		NG/G	11/08/90	
5.1 78-79'	90.17528	CU	< 500.		NG/G	11/08/90	
5.1 78-79'	90.17528	DY	1.	3.	UG/G	11/08/90	
5.1 78-79'	90.17528	ER	600.	1800.	NG/G	11/08/90	
5.1 78-79'	90.17528	EU	< 500.		NG/G	11/08/90	
5.1 78-79'	90.17528	GA	< 500.		NG/G	11/08/90	
5.1 78-79'	90.17528	GD	1.9	5.7	UG/G	11/08/90	
5.1 78-79'	90.17528	GE	770.	2300.	NG/G	11/08/90	
5.1 78-79'	90.17528	HF	< 500.		NG/G	11/08/90	
5.1 78-79'	90.17528	HO	< 500.		NG/G	11/08/90	
5.1 78-79'	90.17528	IN	< 500.		NG/G	11/08/90	
5.1 78-79'	90.17528	IR	< 500.		NG/G	11/08/90	
5.1 78-79'	90.17528	LA	3.	9.	UG/G	11/08/90	
5.1 78-79'	90.17528	LI	< 5000.		NG/G	11/08/90	
5.1 78-79'	90.17528	LU	< 500.		NG/G	11/08/90	
5.1 78-79'	90.17528	MN	29.	87.	UG/G	11/08/90	
5.1 78-79'	90.17528	MO	< 500.		NG/G	11/08/90	
5.1 78-79'	90.17528	NB	< 500.		NG/G	11/08/90	
5.1 78-79'	90.17528	ND	4.1	12.3	UG/G	11/08/90	
5.1 78-79'	90.17528	NI	< 500.		NG/G	11/08/90	
5.1 78-79'	90.17528	PB	1.4	4.2	UG/G	11/08/90	
5.1 78-79'	90.17528	PD	< 500.		NG/G	11/08/90	
5.1 78-79'	90.17528	PR	1.	3.	UG/G	11/08/90	
5.1 78-79'	90.17528	PT	< 500.		NG/G	11/08/90	
5.1 78-79'	90.17528	RB	5.	15.	UG/G	11/08/90	
5.1 78-79'	90.17528	RH	< 500.		NG/G	11/08/90	
5.1 78-79'	90.17528	RU	< 500.		NG/G	11/08/90	
5.1 78-79'	90.17528	SB	< 500.		NG/G	11/08/90	

5.1 78-79'	90.17528	SE	< 5000.		NG/G	11/08/90
5.1 78-79'	90.17528	SM	1.7	5.1	UG/G	11/08/90
5.1 78-79'	90.17528	SN	< 500.		NG/G	11/08/90
5.1 78-79'	90.17528	SR	1.3	3.9	UG/G	11/08/90
5.1 78-79'	90.17528	TA	< 500.		NG/G	11/08/90
5.1 78-79'	90.17528	TB	< 500.		NG/G	11/08/90
5.1 78-79'	90.17528	TE	< 500.		NG/G	11/08/90
5.1 78-79'	90.17528	TH	19.	57.	UG/G	11/08/90
5.1 78-79'	90.17528	TI	< 5000.		NG/G	11/08/90
5.1 78-79'	90.17528	TL	< 500.		NG/G	11/08/90
5.1 78-79'	90.17528	TM	< 500.		NG/G	11/08/90
5.1 78-79'	90.17528	U	< 500.		NG/G	11/08/90
5.1 78-79'	90.17528	V	< 5000.		NG/G	11/08/90
5.1 78-79'	90.17528	W	< 500.		NG/G	11/08/90
5.1 78-79'	90.17528	Y	4.3	12.9	UG/G	11/08/90
5.1 78-79'	90.17528	YB	730.	2200.	NG/G	11/08/90
5.1 78-79'	90.17528	ZN	1.5	4.5	UG/G	11/08/90
5.1 78-79'	90.17528	ZR	< 500.		NG/G	11/08/90

REPORT NUMBER: 8786

********** HSE-9 ANALYTICAL REPORT **********

Prepared by: MCW on 8-Nov-1990

ICP MASS SCAN

REQUEST NUMBER: 10794 MATRIX: S ANALYST: Mary Carol Williams PROGRAM CODE: M211

OWNER: Max Maes GROUP: HSE-8 MAIL-STOP: K490 PHONE: 7-0817 TASK-ID: ALLA-1

CUSTOMER NUMBER	SAMPLE NUMBER	ANALYSIS	RESULT	UNCERTAINTY	UNITS	COMPLETION DATE	COMMENT
5.1 83-84'	90.17529	AG	< 500.		NG/G	11/08/90	
5.1 83-84'	90.17529	AL	600.	1800.	UG/G	11/08/90	
5.1 83-84'	90.17529	AS	< 500.		NG/G	11/08/90	
5.1 83-84'	90.17529	AU	< 500.		NG/G	11/08/90	
5.1 83-84'	90.17529	BA	6.8	20.4	UG/G	11/08/90	
5.1 83-84'	90.17529	BE	< 5000.		NG/G	11/08/90	
5.1 83-84'	90.17529	BI	< 500.		NG/G	11/08/90	
5.1 83-84'	90.17529	CD	< 500.		NG/G	11/08/90	
5.1 83-84'	90.17529	CE	5.5	16.5	UG/G	11/08/90	
5.1 83-84'	90.17529	CO	< 500.		NG/G	11/08/90	
5.1 83-84'	90.17529	CR	< 500.		NG/G	11/08/90	
5.1 83-84'	90.17529	CS	< 500.		NG/G	11/08/90	
5.1 83-84'	90.17529	CU	< 500.		NG/G	11/08/90	
5.1 83-84'	90.17529	DY	< 500.		NG/G	11/08/90	
5.1 83-84'	90.17529	ER	< 500.		NG/G	11/08/90	
5.1 83-84'	90.17529	EU	< 500.		NG/G	11/08/90	
5.1 83-84'	90.17529	GA	< 500.		NG/G	11/08/90	
5.1 83-84'	90.17529	GD	1.3	3.9	UG/G	11/08/90	
5.1 83-84'	90.17529	GE	570.	1700.	NG/G	11/08/90	
5.1 83-84'	90.17529	HF	< 500.		NG/G	11/08/90	
5.1 83-84'	90.17529	HO	< 500.		NG/G	11/08/90	
5.1 83-84'	90.17529	IN	< 500.		NG/G	11/08/90	
5.1 83-84'	90.17529	IR	< 500.		NG/G	11/08/90	
5.1 83-84'	90.17529	LA	2.6	7.8	UG/G	11/08/90	
5.1 83-84'	90.17529	LI	< 5000.		NG/G	11/08/90	
5.1 83-84'	90.17529	LU	< 500.		NG/G	11/08/90	
5.1 83-84'	90.17529	MN	25.	75.	UG/G	11/08/90	
5.1 83-84'	90.17529	MO	< 500.		NG/G	11/08/90	
5.1 83-84'	90.17529	NB	< 500.		NG/G	11/08/90	
5.1 83-84'	90.17529	ND	4.1	12.3	UG/G	11/08/90	
5.1 83-84'	90.17529	NI	< 500.		NG/G	11/08/90	
5.1 83-84'	90.17529	PB	1.3	3.9	UG/G	11/08/90	
5.1 83-84'	90.17529	PD	< 500.		NG/G	11/08/90	
5.1 83-84'	90.17529	PR	970.	2900.	NG/G	11/08/90	
5.1 83-84'	90.17529	PT	< 500.		NG/G	11/08/90	
5.1 83-84'	90.17529	RB	5.4	16.2	UG/G	11/08/90	
5.1 83-84'	90.17529	RH	< 500.		NG/G	11/08/90	
5.1 83-84'	90.17529	RU	< 500.		NG/G	11/08/90	
5.1 83-84'	90.17529	SB	< 500.		NG/G	11/08/90	

5.1 83-84'	90.17529	SE	< 5000.		NG/G	11/08/90
5.1 83-84'	90.17529	SM	990.	3000.	NG/G	11/08/90
5.1 83-84'	90.17529	SN	< 500.		NG/G	11/08/90
5.1 83-84'	90.17529	SR	1.7	5.1	UG/G	11/08/90
5.1 83-84'	90.17529	TA	< 500.		NG/G	11/08/90
5.1 83-84'	90.17529	TB	< 500.		NG/G	11/08/90
5.1 83-84'	90.17529	TE	< 500.		NG/G	11/08/90
5.1 83-84'	90.17529	TH	20.	60.	UG/G	11/08/90
5.1 83-84'	90.17529	TI	< 5000.		NG/G	11/08/90
5.1 83-84'	90.17529	TL	< 500.		NG/G	11/08/90
5.1 83-84'	90.17529	TM	< 500.		NG/G	11/08/90
5.1 83-84'	90.17529	U	< 500.		NG/G	11/08/90
5.1 83-84'	90.17529	V	< 5000.		NG/G	11/08/90
5.1 83-84'	90.17529	W	< 500.		NG/G	11/08/90
5.1 83-84'	90.17529	Y	4.	12.	UG/G	11/08/90
5.1 83-84'	90.17529	YB	< 500.		NG/G	11/08/90
5.1 83-84'	90.17529	ZN	1.3	3.9	UG/G	11/08/90
5.1 83-84'	90.17529	ZR	< 500.		NG/G	11/08/90

REPORT NUMBER: 8786

********** HSE-9 ANALYTICAL REPORT **********

Prepared by: MCW on 8-Nov-1990

ICP MASS SCAN

REQUEST NUMBER: 10794 MATRIX: S ANALYST: Mary Carol Williams PROGRAM CODE: M211

OWNER: Max Maes GROUP: HSE-8 MAIL-STOP: K490 PHONE: 7-0817 TASK-ID: ALLA-1

CUSTOMER NUMBER	SAMPLE NUMBER	ANALYSIS	RESULT	UNCERTAINTY	UNITS	COMPLETION DATE	COMMENT
5.1 88-89'	90.17530	AG	< 500.		NG/G	11/08/90	
5.1 88-89'	90.17530	AL	520.	1600.	UG/G	11/08/90	
5.1 88-89'	90.17530	AS	< 500.		NG/G	11/08/90	
5.1 88-89'	90.17530	AU	< 500.		NG/G	11/08/90	
5.1 88-89'	90.17530	BA	6.3	18.9	UG/G	11/08/90	
5.1 88-89'	90.17530	BE	< 5000.		NG/G	11/08/90	
5.1 88-89'	90.17530	BI	< 500.		NG/G	11/08/90	
5.1 88-89'	90.17530	CD	< 500.		NG/G	11/08/90	
5.1 88-89'	90.17530	CE	6.6	19.8	UG/G	11/08/90	
5.1 88-89'	90.17530	CO	< 500.		NG/G	11/08/90	
5.1 88-89'	90.17530	CR	< 500.		NG/G	11/08/90	
5.1 88-89'	90.17530	CS	< 500.		NG/G	11/08/90	
5.1 88-89'	90.17530	CU	< 500.		NG/G	11/08/90	
5.1 88-89'	90.17530	DY	1.	3.	UG/G	11/08/90	
5.1 88-89'	90.17530	ER	< 500.		NG/G	11/08/90	
5.1 88-89'	90.17530	EU	< 500.		NG/G	11/08/90	
5.1 88-89'	90.17530	GA	< 500.		NG/G	11/08/90	
5.1 88-89'	90.17530	GD	980.	2900.	NG/G	11/08/90	
5.1 88-89'	90.17530	GE	710.	2100.	NG/G	11/08/90	
5.1 88-89'	90.17530	HF	< 500.		NG/G	11/08/90	
5.1 88-89'	90.17530	HO	< 500.		NG/G	11/08/90	
5.1 88-89'	90.17530	IN	< 500.		NG/G	11/08/90	
5.1 88-89'	90.17530	IR	< 500.		NG/G	11/08/90	
5.1 88-89'	90.17530	LA	3.4	10.2	UG/G	11/08/90	
5.1 88-89'	90.17530	LI	< 5000.		NG/G	11/08/90	
5.1 88-89'	90.17530	LU	< 500.		NG/G	11/08/90	
5.1 88-89'	90.17530	MN	32.	96.	UG/G	11/08/90	
5.1 88-89'	90.17530	MO	< 500.		NG/G	11/08/90	
5.1 88-89'	90.17530	NB	< 500.		NG/G	11/08/90	
5.1 88-89'	90.17530	ND	4.4	13.2	UG/G	11/08/90	
5.1 88-89'	90.17530	NI	< 500.		NG/G	11/08/90	
5.1 88-89'	90.17530	PB	1.5	4.5	UG/G	11/08/90	
5.1 88-89'	90.17530	PD	< 500.		NG/G	11/08/90	
5.1 88-89'	90.17530	PR	1.2	3.6	UG/G	11/08/90	
5.1 88-89'	90.17530	PT	< 500.		NG/G	11/08/90	
5.1 88-89'	90.17530	RB	6.1	18.3	UG/G	11/08/90	
5.1 88-89'	90.17530	RH	< 500.		NG/G	11/08/90	
5.1 88-89'	90.17530	RU	< 500.		NG/G	11/08/90	
5.1 88-89'	90.17530	SB	< 500.		NG/G	11/08/90	

5.1 88-89'	90.17530	SE	< 5000.		NG/G	11/08/90
5.1 88-89'	90.17530	SM	1.2	3.6	UG/G	11/08/90
5.1 88-89'	90.17530	SN	< 500.		NG/G	11/08/90
5.1 88-89'	90.17530	SR	1.5	4.5	UG/G	11/08/90
5.1 88-89'	90.17530	TA	< 500.		NG/G	11/08/90
5.1 88-89'	90.17530	TB	< 500.		NG/G	11/08/90
5.1 88-89'	90.17530	TE	< 500.		NG/G	11/08/90
5.1 88-89'	90.17530	TH	18.	54.	UG/G	11/08/90
5.1 88-89'	90.17530	TI	< 5000.		NG/G	11/08/90
5.1 88-89'	90.17530	TL	< 500.		NG/G	11/08/90
5.1 88-89'	90.17530	TM	< 500.		NG/G	11/08/90
5.1 88-89'	90.17530	U	< 500.		NG/G	11/08/90
5.1 88-89'	90.17530	V	< 5000.		NG/G	11/08/90
5.1 88-89'	90.17530	W	< 500.		NG/G	11/08/90
5.1 88-89'	90.17530	Y	5.2	15.6	UG/G	11/08/90
5.1 88-89'	90.17530	YB	< 500.		NG/G	11/08/90
5.1 88-89'	90.17530	ZN	1.4	4.2	UG/G	11/08/90
5.1 88-89'	90.17530	ZR	< 500.		NG/G	11/08/90

REPORT NUMBER: 8786

********** HSE-9 ANALYTICAL REPORT **********

Prepared by: MCW on 8-Nov-1990

ICP MASS SCAN

REQUEST NUMBER: 10794 MATRIX: S ANALYST: Mary Carol Williams PROGRAM CODE: M211

OWNER: Max Maes GROUP: HSE-8 MAIL-STOP: K490 PHONE: 7-0817 TASK-ID: ALLA-1

CUSTOMER NUMBER	SAMPLE NUMBER	ANALYSIS	RESULT	UNCERTAINTY	UNITS	COMPLETION DATE	COMMENT
5.1 93-94'	90.17531	AG	< 500.		NG/G	11/08/90	
5.1 93-94'	90.17531	AL	1.5	4.5	MG/G	11/08/90	
5.1 93-94'	90.17531	AS	< 500.		NG/G	11/08/90	
5.1 93-94'	90.17531	AU	< 500.		NG/G	11/08/90	
5.1 93-94'	90.17531	BA	58.	170.	UG/G	11/08/90	
5.1 93-94'	90.17531	BE	< 5000.		NG/G	11/08/90	
5.1 93-94'	90.17531	BI	< 500.		NG/G	11/08/90	
5.1 93-94'	90.17531	CD	< 500.		NG/G	11/08/90	
5.1 93-94'	90.17531	CE	32.	96.	UG/G	11/08/90	
5.1 93-94'	90.17531	CO	< 500.		NG/G	11/08/90	
5.1 93-94'	90.17531	CR	< 500.		NG/G	11/08/90	
5.1 93-94'	90.17531	CS	< 500.		NG/G	11/08/90	
5.1 93-94'	90.17531	CU	690.	2100.	NG/G	11/08/90	
5.1 93-94'	90.17531	DY	4.9	14.7	UG/G	11/08/90	
5.1 93-94'	90.17531	ER	2.8	8.4	UG/G	11/08/90	
5.1 93-94'	90.17531	EU	< 500.		NG/G	11/08/90	
5.1 93-94'	90.17531	GA	1.6	4.8	UG/G	11/08/90	
5.1 93-94'	90.17531	GD	5.2	15.6	UG/G	11/08/90	
5.1 93-94'	90.17531	GE	2.7	8.1	UG/G	11/08/90	
5.1 93-94'	90.17531	HF	< 500.		NG/G	11/08/90	
5.1 93-94'	90.17531	HO	920.	2800.	NG/G	11/08/90	
5.1 93-94'	90.17531	IN	< 500.		NG/G	11/08/90	
5.1 93-94'	90.17531	IR	< 500.		NG/G	11/08/90	
5.1 93-94'	90.17531	LA	11.	33.	UG/G	11/08/90	
5.1 93-94'	90.17531	LI	< 5000.		NG/G	11/08/90	
5.1 93-94'	90.17531	LU	< 500.		NG/G	11/08/90	
5.1 93-94'	90.17531	MN	220.	660.	UG/G	11/08/90	
5.1 93-94'	90.17531	MO	< 500.		NG/G	11/08/90	
5.1 93-94'	90.17531	NB	< 500.		NG/G	11/08/90	
5.1 93-94'	90.17531	ND	13.	39.	UG/G	11/08/90	
5.1 93-94'	90.17531	NI	< 500.		NG/G	11/08/90	
5.1 93-94'	90.17531	PB	9.1	27.3	UG/G	11/08/90	
5.1 93-94'	90.17531	PD	< 500.		NG/G	11/08/90	
5.1 93-94'	90.17531	PR	3.5	10.5	UG/G	11/08/90	
5.1 93-94'	90.17531	PT	< 500.		NG/G	11/08/90	
5.1 93-94'	90.17531	RB	6.4	19.2	UG/G	11/08/90	
5.1 93-94'	90.17531	RH	< 500.		NG/G	11/08/90	
5.1 93-94'	90.17531	RU	< 500.		NG/G	11/08/90	
5.1 93-94'	90.17531	SB	< 500.		NG/G	11/08/90	

5.1 93-94'	90.17531	SE	< 5000.		NG/G	11/08/90
5.1 93-94'	90.17531	SM	4.2	12.6	UG/G	11/08/90
5.1 93-94'	90.17531	SN	< 500.		NG/G	11/08/90
5.1 93-94'	90.17531	SR	9.1	27.3	UG/G	11/08/90
5.1 93-94'	90.17531	TA	< 500.		NG/G	11/08/90
5.1 93-94'	90.17531	TB	670.	2000.	NG/G	11/08/90
5.1 93-94'	90.17531	TE	< 500.		NG/G	11/08/90
5.1 93-94'	90.17531	TH	110.	330.	UG/G	11/08/90
5.1 93-94'	90.17531	TI	< 5000.		NG/G	11/08/90
5.1 93-94'	90.17531	TL	< 500.		NG/G	11/08/90
5.1 93-94'	90.17531	TM	< 500.		NG/G	11/08/90
5.1 93-94'	90.17531	U	700.	2100.	NG/G	11/08/90
5.1 93-94'	90.17531	V	< 5000.		NG/G	11/08/90
5.1 93-94'	90.17531	W	< 500.		NG/G	11/08/90
5.1 93-94'	90.17531	Y	29.	87.	UG/G	11/08/90
5.1 93-94'	90.17531	YB	3.3	9.9	UG/G	11/08/90
5.1 93-94'	90.17531	ZN	12.	36.	UG/G	11/08/90
5.1 93-94'	90.17531	ZR	< 500.		NG/G	11/08/90

REPORT NUMBER: 8786

********** HSE-9 ANALYTICAL REPORT **********

Prepared by: MCW on 8-Nov-1990

ICP MASS SCAN

REQUEST NUMBER: 10794 MATRIX: S ANALYST: Mary Carol Williams PROGRAM CODE: M211

OWNER: Max Maes GROUP: HSE-8 MAIL-STOP: K490 PHONE: 7-0817 TASK-ID: ALLA-1

CUSTOMER NUMBER	SAMPLE NUMBER	ANALYSIS	RESULT	UNCERTAINTY	UNITS	COMPLETION DATE	COMMENT
5.1 95S	90.17532	AG	< 500.		NG/G	11/08/90	
5.1 95S	90.17532	AL	67.	200.	UG/G	11/08/90	
5.1 95S	90.17532	AS	< 500.		NG/G	11/08/90	
5.1 95S	90.17532	AU	< 500.		NG/G	11/08/90	
5.1 95S	90.17532	BA	1.5	4.5	UG/G	11/08/90	
5.1 95S	90.17532	BE	< 5000.		NG/G	11/08/90	
5.1 95S	90.17532	BI	< 500.		NG/G	11/08/90	
5.1 95S	90.17532	CD	< 500.		NG/G	11/08/90	
5.1 95S	90.17532	CE	3.2	9.6	UG/G	11/08/90	
5.1 95S	90.17532	CO	< 500.		NG/G	11/08/90	
5.1 95S	90.17532	CR	< 500.		NG/G	11/08/90	
5.1 95S	90.17532	CS	< 500.		NG/G	11/08/90	
5.1 95S	90.17532	CU	< 500.		NG/G	11/08/90	
5.1 95S	90.17532	DY	< 500.		NG/G	11/08/90	
5.1 95S	90.17532	ER	< 500.		NG/G	11/08/90	
5.1 95S	90.17532	EU	< 500.		NG/G	11/08/90	
5.1 95S	90.17532	GA	< 500.		NG/G	11/08/90	
5.1 95S	90.17532	GD	640.	1900.	NG/G	11/08/90	
5.1 95S	90.17532	GE	< 500.		NG/G	11/08/90	
5.1 95S	90.17532	HF	< 500.		NG/G	11/08/90	
5.1 95S	90.17532	HO	< 500.		NG/G	11/08/90	
5.1 95S	90.17532	IN	< 500.		NG/G	11/08/90	
5.1 95S	90.17532	IR	< 500.		NG/G	11/08/90	
5.1 95S	90.17532	LA	1.7	5.1	UG/G	11/08/90	
5.1 95S	90.17532	LI	< 5000.		NG/G	11/08/90	
5.1 95S	90.17532	LU	< 500.		NG/G	11/08/90	
5.1 95S	90.17532	MN	1.5	4.5	UG/G	11/08/90	
5.1 95S	90.17532	MO	< 500.		NG/G	11/08/90	
5.1 95S	90.17532	NB	< 500.		NG/G	11/08/90	
5.1 95S	90.17532	ND	1.5	4.5	UG/G	11/08/90	
5.1 95S	90.17532	NI	< 500.		NG/G	11/08/90	
5.1 95S	90.17532	PB	510.	1500.	NG/G	11/08/90	
5.1 95S	90.17532	PD	< 500.		NG/G	11/08/90	
5.1 95S	90.17532	PR	< 500.		NG/G	11/08/90	
5.1 95S	90.17532	PT	< 500.		NG/G	11/08/90	
5.1 95S	90.17532	RB	< 500.		NG/G	11/08/90	
5.1 95S	90.17532	RH	< 500.		NG/G	11/08/90	
5.1 95S	90.17532	RU	< 500.		NG/G	11/08/90	
5.1 95S	90.17532	SB	< 500.		NG/G	11/08/90	

5.1 95S	90.17532	SE	< 5000.		NG/G	11/08/90
5.1 95S	90.17532	SM	< 500.		NG/G	11/08/90
5.1 95S	90.17532	SN	< 500.		NG/G	11/08/90
5.1 95S	90.17532	SR	< 500.		NG/G	11/08/90
5.1 95S	90.17532	TA	< 500.		NG/G	11/08/90
5.1 95S	90.17532	TB	< 500.		NG/G	11/08/90
5.1 95S	90.17532	TE	< 500.		NG/G	11/08/90
5.1 95S	90.17532	TH	3.1	9.3	UG/G	11/08/90
5.1 95S	90.17532	TI	< 5000.		NG/G	11/08/90
5.1 95S	90.17532	TL	< 500.		NG/G	11/08/90
5.1 95S	90.17532	TM	< 500.		NG/G	11/08/90
5.1 95S	90.17532	U	< 500.		NG/G	11/08/90
5.1 95S	90.17532	V	< 5000.		NG/G	11/08/90
5.1 95S	90.17532	W	< 500.		NG/G	11/08/90
5.1 95S	90.17532	Y	< 500.		NG/G	11/08/90
5.1 95S	90.17532	YB	< 500.		NG/G	11/08/90
5.1 95S	90.17532	ZN	< 500.		NG/G	11/08/90
5.1 95S	90.17532	ZR	< 500.		NG/G	11/08/90

REPORT NUMBER: 8786

********** HSE-9 ANALYTICAL REPORT **********

Prepared by: MCW on 8-Nov-1990

ICP MASS SCAN

REQUEST NUMBER: 10794 MATRIX: S ANALYST: Mary Carol Williams PROGRAM CODE: M211

OWNER: Max Maes GROUP: HSE-8 MAIL-STOP: K490 PHONE: 7-0817 TASK-ID: ALLA-1

CUSTOMER NUMBER	SAMPLE NUMBER	ANALYSIS	RESULT	UNCERTAINTY	UNITS	COMPLETION DATE	COMMENT
5.1 SB	90.17533	AG	< 500.		NG/G	11/08/90	
5.1 SB	90.17533	AL	52.	160.	UG/G	11/08/90	
5.1 SB	90.17533	AS	< 500.		NG/G	11/08/90	
5.1 SB	90.17533	AU	< 500.		NG/G	11/08/90	
5.1 SB	90.17533	BA	1.3	3.9	UG/G	11/08/90	
5.1 SB	90.17533	BE	< 5000.		NG/G	11/08/90	
5.1 SB	90.17533	BI	< 500.		NG/G	11/08/90	
5.1 SB	90.17533	CD	< 500.		NG/G	11/08/90	
5.1 SB	90.17533	CE	1.9	5.7	UG/G	11/08/90	
5.1 SB	90.17533	CO	< 500.		NG/G	11/08/90	
5.1 SB	90.17533	CR	< 500.		NG/G	11/08/90	
5.1 SB	90.17533	CS	< 500.		NG/G	11/08/90	
5.1 SB	90.17533	CU	< 500.		NG/G	11/08/90	
5.1 SB	90.17533	DY	< 500.		NG/G	11/08/90	
5.1 SB	90.17533	ER	< 500.		NG/G	11/08/90	
5.1 SB	90.17533	EU	< 500.		NG/G	11/08/90	
5.1 SB	90.17533	GA	< 500.		NG/G	11/08/90	
5.1 SB	90.17533	GD	< 500.		NG/G	11/08/90	
5.1 SB	90.17533	GE	< 500.		NG/G	11/08/90	
5.1 SB	90.17533	HF	< 500.		NG/G	11/08/90	
5.1 SB	90.17533	HO	< 500.		NG/G	11/08/90	
5.1 SB	90.17533	IN	< 500.		NG/G	11/08/90	
5.1 SB	90.17533	IR	< 500.		NG/G	11/08/90	
5.1 SB	90.17533	LA	1.1	3.3	UG/G	11/08/90	
5.1 SB	90.17533	LI	< 5000.		NG/G	11/08/90	
5.1 SB	90.17533	LU	< 500.		NG/G	11/08/90	
5.1 SB	90.17533	MN	1.2	3.6	UG/G	11/08/90	
5.1 SB	90.17533	MO	< 500.		NG/G	11/08/90	
5.1 SB	90.17533	NB	< 500.		NG/G	11/08/90	
5.1 SB	90.17533	ND	1.5	4.5	UG/G	11/08/90	
5.1 SB	90.17533	NI	< 500.		NG/G	11/08/90	
5.1 SB	90.17533	PB	< 500.		NG/G	11/08/90	
5.1 SB	90.17533	PD	< 500.		NG/G	11/08/90	
5.1 SB	90.17533	PR	< 500.		NG/G	11/08/90	
5.1 SB	90.17533	PT	< 500.		NG/G	11/08/90	
5.1 SB	90.17533	RB	< 500.		NG/G	11/08/90	
5.1 SB	90.17533	RH	< 500.		NG/G	11/08/90	
5.1 SB	90.17533	RU	< 500.		NG/G	11/08/90	
5.1 SB	90.17533	SB	< 500.		NG/G	11/08/90	

5.1 SB	90.17533	SE	< 5000.		NG/G	11/08/90
5.1 SB	90.17533	SM	< 500.		NG/G	11/08/90
5.1 SB	90.17533	SN	< 500.		NG/G	11/08/90
5.1 SB	90.17533	SR	< 500.		NG/G	11/08/90
5.1 SB	90.17533	TA	< 500.		NG/G	11/08/90
5.1 SB	90.17533	TB	< 500.		NG/G	11/08/90
5.1 SB	90.17533	TE	< 500.		NG/G	11/08/90
5.1 SB	90.17533	TH	1.6	4.8	UG/G	11/08/90
5.1 SB	90.17533	TI	< 5000.		NG/G	11/08/90
5.1 SB	90.17533	TL	< 500.		NG/G	11/08/90
5.1 SB	90.17533	TM	< 500.		NG/G	11/08/90
5.1 SB	90.17533	U	< 500.		NG/G	11/08/90
5.1 SB	90.17533	V	< 5000.		NG/G	11/08/90
5.1 SB	90.17533	W	< 500.		NG/G	11/08/90
5.1 SB	90.17533	Y	< 500.		NG/G	11/08/90
5.1 SB	90.17533	YB	< 500.		NG/G	11/08/90
5.1 SB	90.17533	ZN	< 500.		NG/G	11/08/90
5.1 SB	90.17533	ZR	< 500.		NG/G	11/08/90

5.1 SB	90.17533 BA	0.096	0.01	MG/L	11/01/90	TCLP
5.1 SB	90.17533 CD	< 0.002		MG/L	11/01/90	TCLP
5.1 SB	90.17533 CR	< 0.01		MG/L	11/01/90	TCLP
5.1 SB	90.17533 PB	< 0.02		MG/L	11/01/90	TCLP
5.1 98-99'	90.17569 BA	0.21	0.02	MG/L	11/01/90	TCLP
5.1 98-99'	90.17569 CD	< 0.002		MG/L	11/01/90	TCLP
5.1 98-99'	90.17569 CR	< 0.01		MG/L	11/01/90	TCLP
5.1 98-99'	90.17569 PB	0.1		MG/L	11/01/90	TCLP
5.1 103-104	90.17570 BA	0.22	0.02	MG/L	11/01/90	TCLP
5.1 103-104	90.17570 CD	< 0.002		MG/L	11/01/90	TCLP
5.1 103-104	90.17570 CR	< 0.01		MG/L	11/01/90	TCLP
5.1 103-104	90.17570 PB	< 0.02		MG/L	11/01/90	TCLP
5.1 108-109	90.17571 BA	0.22	0.02	MG/L	11/01/90	TCLP
5.1 108-109	90.17571 CD	< 0.002		MG/L	11/01/90	TCLP
5.1 108-109	90.17571 CR	< 0.01		MG/L	11/01/90	TCLP
5.1 108-109	90.17571 PB	< 0.02		MG/L	11/01/90	TCLP
5.1 110-111	90.17572 BA	0.2	0.02	MG/L	11/01/90	TCLP
5.1 110-111	90.17572 CD	< 0.002		MG/L	11/01/90	TCLP
5.1 110-111	90.17572 CR	< 0.01		MG/L	11/01/90	TCLP
5.1 110-111	90.17572 PB	< 0.02		MG/L	11/01/90	TCLP

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REPORT NUMBER: 8736 (continued)

********** HSE-9 QUALITY ASSURANCE REPORT *********

Prepared by: APEL on 6-Nov-1990

REQUEST NUMBER: 10794 MATRIX: SE ANALYST: Charles T. Apel PROGRAM CODE: M211

OWNER: Max Maes GROUP: HSE-8 MAIL-STOP: K490 PHONE: 7-0817 TASK-ID: ALLA-1

CUSTOMER NUM	SAMPLE NUM	ANALYSIS	RESULT	UNCERTAINTY	UNITS	CERTIFIED VALUE	CERTIFIED VALUE UNCERTAINTY	COMPLETION DATE
00.20193	00.20193	BA	9.7	0.97	MG/L	10.	1.	11/01/90 UNDER CONTROL
00.20193	00.20193	BA	9.5	0.95	MG/L	10.	1.	11/01/90 UNDER CONTROL
00.20193	00.20193	CD	9.9	0.99	MG/L	10.	1.	11/01/90 UNDER CONTROL
00.20193	00.20193	CD	9.7	0.97	MG/L	10.	1.	11/01/90 UNDER CONTROL
0.20193	00.20193	CR	10.4	1.	MG/L	10.	1.	11/01/90 UNDER CONTROL
00.20193	00.20193	CR	10.	1.	MG/L	10.	1.	11/01/90 UNDER CONTROL
00.20193	00.20193	PB	9.7	0.97	MG/L	10.	1.	11/01/90 UNDER CONTROL
00.20193	00.20193	PB	9.6	0.96	MG/L	10.	1.	11/01/90 UNDER CONTROL

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

SAMPLE NUM	ANALYSIS	RESULT	UNCERTAINTY	UNITS	CERTIFIED VALUE	CERTIFIED VALUE UNCERTAINTY	COMPLETION DATE	COMMENT
90.17534	BA	7.7	0.77	MG/L	8.	0.8	11/01/90	UNDER CONTROL
90.17534	CD	11.2	1.1	MG/L	12.	1.	11/01/90	UNDER CONTROL
90.17534	CR	1.	0.1	MG/L	1.	0.1	11/01/90	UNDER CONTROL
90.17534	PB	45.6	4.6	MG/L	50.	5.	11/01/90	UNDER CONTROL

REPORT NUMBER: 8736

Analyst	Section Leader	QA Officer
11/07/90	11-7-90	11-7-90
Date	Date	Date

The control status of the preceeding data was evaluated using the standard statistical criteria set forth in 'Quality Assurance for Health and Environmental Chemistry: 1986,' LA-11114-MS, pp. 3-4.

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REPORT NUMBER: 8895

********** HSE-9 ANALYTICAL REPORT **********

Prepared by: MONTOYA on 20-Nov-1990

REQUEST NUMBER: 10817 MATRIX: SE ANALYST: Charles T. Apel PROGRAM CODE: M211

OWNER: Max Maes GROUP: HSE-8 MAIL-STOP: K490 PHONE: 7-0817 TASK-ID: ALLA-1

CUSTOMER NUM	SAMPLE NUM	ANALYSIS	RESULT	UNCERTAINTY	UNITS	COMPLETION DATE	COMMENT
5.1 78-79	90.17658	BA	0.27	0.03	MG/L	11/20/90	ICAP
5.1 78-79	90.17658	CD	< 0.01		MG/L	11/20/90	ICAP
5.1 78-79	90.17658	CR	< 0.02		MG/L	11/20/90	ICAP
5.1 78-79	90.17658	PB	0.02	0.01	MG/L	11/20/90	ICAP
5.1 88-89	90.17659	BA	0.27	0.03	MG/L	11/20/90	ICAP
5.1 88-89	90.17659	CD	< 0.01		MG/L	11/20/90	ICAP
5.1 88-89	90.17659	CR	< 0.02		MG/L	11/20/90	ICAP
5.1 88-89	90.17659	PB	< 0.01		MG/L	11/20/90	ICAP
5.1 93-94	90.17660	BA	1.1	0.11	MG/L	11/20/90	ICAP
5.1 93-94	90.17660	CD	< 0.01		MG/L	11/20/90	ICAP
5.1 93-94	90.17660	CR	< 0.02		MG/L	11/20/90	ICAP
5.1 93-94	90.17660	PB	< 0.01		MG/L	11/20/90	ICAP
5.1 103-104	90.17661	BA	0.26	0.03	MG/L	11/20/90	ICAP
5.1 103-104	90.17661	CD	< 0.01		MG/L	11/20/90	ICAP
5.1 103-104	90.17661	CR	< 0.02		MG/L	11/20/90	ICAP
5.1 103-104	90.17661	PB	0.02		MG/L	11/20/90	ICAP
5.1 108-109	90.17662	BA	0.21	0.02	MG/L	11/20/90	ICAP
5.1 108-109	90.17662	CD	< 0.01		MG/L	11/20/90	ICAP
5.1 108-109	90.17662	CR	< 0.02		MG/L	11/20/90	ICAP
5.1 108-109	90.17662	PB	< 0.01		MG/L	11/20/90	ICAP

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REPORT NUMBER: 8895 (continued)

********** HSE-9 QUALITY ASSURANCE REPORT *********

Prepared by: MONTOYA on 20-Nov-1990

REQUEST NUMBER: 10817 MATRIX: SE ANALYST: Charles T. Apel PROGRAM CODE: M211

OWNER: Max Maes GROUP: HSE-8 MAIL-STOP: K490 PHONE: 7-0817 TASK-ID: ALLA-1

CUSTOMER NUM	SAMPLE NUM	ANALYSIS	RESULT	UNCERTAINTY	UNITS	CERTIFIED VALUE	CERTIFIED VALUE UNCERTAINTY	COMPLETION DATE
00.20193	00.20193	BA	11.2	1.1	MG/L	10.	1.	11/20/90 UNDER CONTROL
00.20193	00.20193	BA	11.1	1.1	MG/L	10.	1.	11/20/90 UNDER CONTROL
00.20193	00.20193	CD	11.5	1.2	MG/L	10.	1.	11/20/90 UNDER CONTROL
00.20193	00.20193	CD	11.1	1.1	MG/L	10.	1.	11/20/90 UNDER CONTROL
00.20193	00.20193	CR	11.2	1.1	MG/L	10.	1.	11/20/90 UNDER CONTROL
00.20193	00.20193	CR	10.8	1.1	MG/L	10.	1.	11/20/90 UNDER CONTROL
00.20193	00.20193	PB	11.4	1.1	MG/L	10.	1.	11/20/90 UNDER CONTROL
00.20193	00.20193	PB	11.1	1.1	MG/L	10.	1.	11/20/90 UNDER CONTROL

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

SAMPLE NUM	ANALYSIS	RESULT	UNCERTAINTY	UNITS	CERTIFIED VALUE	CERTIFIED VALUE UNCERTAINTY	COMPLETION DATE	COMMENT
90.17663	BA	340.	30.	UG/L	300.	30.	11/20/90	UNDER CONTROL
90.17663	CD	540.	50.	UG/L	500.	50.	11/20/90	UNDER CONTROL
90.17663	CR	44.2	4.4	MG/L	40.	4.	11/20/90	UNDER CONTROL
90.17663	PB	108.	10.8	MG/L	100.	10.	11/20/90	UNDER CONTROL

REPORT NUMBER: 8895

C.T.A. — Analyst

MSB — Section Leader

MSB — QA Officer

11/20/90 — Date

11-20-90 — Date

11-20-90 — Date

The control status of the preceeding data was evaluated using the standard statistical criteria set forth in 'Quality Assurance for Health and Environmental Chemistry: 1986,' LA-11114-MS, pp. 3-4.

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REPORT NUMBER: 8372

********** HSE-9 ANALYTICAL REPORT **********

Prepared by: TMF on 9-Oct-1990

ANALYSIS: AG REQUEST NUMBER: 10794 MATRIX: SE ANALYST: Trudi Foreman PROGRAM CODE: M211

OWNER: Max Maes GROUP: HSE-8 MAIL-STOP: K490 PHONE: 7-0817 TASK-ID: ALLA-1

ANALYTICAL TECHNIQUE: FAA ANALYTICAL PROCEDURE : 7760

CUSTOMER NUM	SAMPLE NUM	RESULT	UNCERTAINTY	UNITS	COMPLETION DATE	COMMENT
5.1 53-54'	90.17523	< 10.		UG/L	10/09/90	
5.1 58-59'	90.17524	< 10.		UG/L	10/09/90	
5.1 63-64'	90.17525	< 10.		UG/L	10/09/90	
5.1 68-69'	90.17526	< 10.		UG/L	10/09/90	
5.1 73-74'	90.17527	< 10.		UG/L	10/09/90	
5.1 78-79'	90.17528	< 10.		UG/L	10/09/90	
5.1 83-84'	90.17529	< 10.		UG/L	10/09/90	
5.1 88-89'	90.17530	< 10.		UG/L	10/09/90	
5.1 93-94'	90.17531	< 10.		UG/L	10/09/90	
5.1 95S	90.17532	< 10.		UG/L	10/09/90	
5.1 SB	90.17533	< 10.		UG/L	10/09/90	
5.1 98-99'	90.17569	< 10.		UG/L	10/09/90	
5.1 103-104	90.17570	< 10.		UG/L	10/09/90	
5.1 108-109	90.17571	< 10.		UG/L	10/09/90	
5.1 110-111	90.17572	< 10.		UG/L	10/09/90	

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REPORT NUMBER: 8372 (continued)

********** HSE-9 QUALITY ASSURANCE REPORT *********

Prepared by: TMF on 9-Oct-1990

REQUEST NUMBER: 10794 MATRIX: SE ANALYST: Trudi Foreman PROGRAM CODE: M211

OWNER: Max Maes GROUP: HSE-8 MAIL-STOP: K490 PHONE: 7-0817 TASK-ID: ALLA-1

CUSTOMER NUM	SAMPLE NUM	RESULT	UNCERTAINTY	UNITS	CERTIFIED VALUE	CERTIFIED VALUE UNCERTAINTY	COMPLETION DATE	COMMENT
00.98805	00.98805	0.5	0.05	MG/L	0.5	0.05	10/09/90	UNDER CONTROL
00.98805	00.98805	0.511	0.05	MG/L	0.5	0.05	10/09/90	UNDER CONTROL
00.98805	00.98805	0.501	0.05	MG/L	0.5	0.05	10/09/90	UNDER CONTROL

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

SAMPLE NUM	RESULT	UNCERTAINTY	UNITS	CERTIFIED VALUE	CERTIFIED VALUE UNCERTAINTY	COMPLETION DATE	COMMENT
90.17162	630.	60.	UG/L	600.	60.	10/09/90	UNDER CONTROL
90.17534	1.5	0.2	MG/L	1.4	0.1	10/09/90	UNDER CONTROL

Analyst	Section Leader	QA Officer
10-10-90	10-10-90	10-10-90
Date	Date	Date

The control status of the preceeding data was evaluated using the standard statistical criteria set forth in 'Quality Assurance for Health and Environmental Chemistry: 1986,' LA-11114-MS, pp. 3-4.

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REPORT NUMBER: 8373

********** HSE-9 ANALYTICAL REPORT **********

Prepared by: TMF on 9-Oct-1990

ANALYSIS: AS REQUEST NUMBER: 10794 MATRIX: SE ANALYST: Trudi Foreman PROGRAM CODE: M211

OWNER: Max Maes GROUP: HSE-8 MAIL-STOP: K490 PHONE: 7-0817 TASK-ID: ALLA-1

ANALYTICAL TECHNIQUE: ETVAA ANALYTICAL PROCEDURE : 7760

CUSTOMER NUM	SAMPLE NUM	RESULT	UNCERTAINTY	UNITS	COMPLETION DATE	COMMENT
5.1 53-54'	90.17523	< 2.		UG/L	10/09/90	
5.1 58-59'	90.17524	< 2.		UG/L	10/09/90	
5.1 63-64'	90.17525	< 2.		UG/L	10/09/90	
5.1 68-69'	90.17526	< 2.		UG/L	10/09/90	
5.1 73-74'	90.17527	< 2.		UG/L	10/09/90	
5.1 78-79'	90.17528	< 2.		UG/L	10/09/90	
5.1 83-84'	90.17529	< 2.		UG/L	10/09/90	
5.1 88-89'	90.17530	< 2.		UG/L	10/09/90	
5.1 93-94'	90.17531	< 2.		UG/L	10/09/90	
5.1 95S	90.17532	< 2.		UG/L	10/09/90	
5.1 SB	90.17533	< 2.		UG/L	10/09/90	
5.1 98-99'	90.17569	< 2.		UG/L	10/09/90	
5.1 103-104	90.17570	< 2.		UG/L	10/09/90	
5.1 108-109	90.17571	< 2.		UG/L	10/09/90	
5.1 110-111	90.17572	< 2.		UG/L	10/09/90	

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REPORT NUMBER: 8373 (continued)

********** HSE-9 QUALITY ASSURANCE REPORT *********

Prepared by: TMF on 9-Oct-1990

REQUEST NUMBER: 10794 MATRIX: SE ANALYST: Trudi Foreman PROGRAM CODE: M211

OWNER: Max Maes GROUP: HSE-8 MAIL-STOP: K490 PHONE: 7-0817 TASK-ID: ALLA-1

CUSTOMER NUM	SAMPLE NUM	RESULT	UNCERTAINTY	UNITS	CERTIFIED VALUE	CERTIFIED VALUE UNCERTAINTY	COMPLETION DATE	COMMENT
00.01160	00.01160	50.5	11.	UG/L	51.	4.28	10/09/90	UNDER CONTROL
00.01160	00.01160	49.1	10.	UG/L	51.	4.28	10/09/90	UNDER CONTROL
00.01160	00.01160	52.8	11.	UG/L	51.	4.28	10/09/90	UNDER CONTROL
00.01160	00.01160	50.3	10.	UG/L	51.	4.28	10/09/90	UNDER CONTROL

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

SAMPLE NUM	RESULT	UNCERTAINTY	UNITS	CERTIFIED VALUE	CERTIFIED VALUE UNCERTAINTY	COMPLETION DATE	COMMENT
90.17447	25.	5.	UG/L	30.	3.	10/09/90	UNDER CONTROL
90.17534	10.2	2.	UG/L	10.	1.	10/09/90	UNDER CONTROL

Analyst	Section Leader	QA Officer
10-10-90	10-10-90	10-10-90
Date	Date	Date

The control status of the preceeding data was evaluated using the standard statistical criteria set forth in 'Quality Assurance for Health and Environmental Chemistry: 1986,' LA-11114-MS, pp. 3-4.

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REPORT NUMBER: 8374

********** HSE-9 ANALYTICAL REPORT **********

Prepared by: TMF on 9-Oct-1990

ANALYSIS: SE REQUEST NUMBER: 10794 MATRIX: SE ANALYST: Trudi Foreman PROGRAM CODE: M211

OWNER: Max Maes GROUP: HSE-8 MAIL-STOP: K490 PHONE: 7-0817 TASK-ID: ALLA-1

ANALYTICAL TECHNIQUE: ETVAA ANALYTICAL PROCEDURE : 7740

CUSTOMER NUM	SAMPLE NUM	RESULT	UNCERTAINTY	UNITS	COMPLETION DATE	COMMENT
5.1 53-54'	90.17523	3.9	1.	UG/L	10/09/90	
5.1 58-59'	90.17524	3.2	1.	UG/L	10/09/90	
5.1 63-64'	90.17525	4.5	1.	UG/L	10/09/90	
5.1 68-69'	90.17526	4.6	1.	UG/L	10/09/90	
5.1 73-74'	90.17527	4.6	1.	UG/L	10/09/90	
5.1 78-79'	90.17528	4.4	1.	UG/L	10/09/90	
5.1 83-84'	90.17529	4.6	1.	UG/L	10/09/90	
5.1 88-89'	90.17530	4.8	1.	UG/L	10/09/90	
5.1 93-94'	90.17531	5.4	1.	UG/L	10/09/90	
5.1 95S	90.17532	6.1	1.	UG/L	10/09/90	
5.1 SB	90.17533	6.5	1.	UG/L	10/09/90	
5.1 98-99'	90.17569	1.	1.	UG/L	10/09/90	
5.1 103-104	90.17570	3.	1.	UG/L	10/09/90	
5.1 108-109	90.17571	3.3	1.	UG/L	10/09/90	
5.1 110-111	90.17572	4.	1.	UG/L	10/09/90	

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REPORT NUMBER: 8374 (continued)

********** HSE-9 QUALITY ASSURANCE REPORT *********

Prepared by: TMF on 9-Oct-1990

REQUEST NUMBER: 10794 MATRIX: SE ANALYST: Trudi Foreman PROGRAM CODE: M211

OWNER: Max Maes GROUP: HSE-8 MAIL-STOP: K490 PHONE: 7-0817 TASK-ID: ALLA-1

CUSTOMER NUM	SAMPLE NUM	RESULT	UNCERTAINTY	UNITS	CERTIFIED VALUE	CERTIFIED VALUE UNCERTAINTY	COMPLETION DATE	COMMENT
00.01160	00.01160	8.6	2.	UG/L	8.1	1.1	10/09/90	UNDER CONTROL
00.01160	00.01160	7.7	2.	UG/L	8.1	1.1	10/09/90	UNDER CONTROL
00.01160	00.01160	11.	2.	UG/L	8.1	1.1	10/09/90	UNDER CONTROL
00.01160	00.01160	8.	2.	UG/L	8.1	1.1	10/09/90	UNDER CONTROL

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

SAMPLE NUM	RESULT	UNCERTAINTY	UNITS	CERTIFIED VALUE	CERTIFIED VALUE UNCERTAINTY	COMPLETION DATE	COMMENT
90.17534	29.1	6.	UG/L	30.	3.	10/09/90	UNDER CONTROL

Analyst	Section Leader	QA Officer
10-10-90	10-10-90	10-10-90
Date	Date	Date

The control status of the preceeding data was evaluated using the standard statistical criteria set forth in 'Quality Assurance for Health and Environmental Chemistry: 1986,' LA-11114-MS, pp. 3-4.

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REPORT NUMBER: 8668

********** HSE-9 ANALYTICAL REPORT **********

Prepared by: TMF on 2-Nov-1990

ANALYSIS: SE REQUEST NUMBER: 10817 MATRIX: SE ANALYST: Trudi Foreman PROGRAM CODE: M211

OWNER: Max Maes GROUP: HSE-8 MAIL-STOP: K490 PHONE: 7-0817 TASK-ID: ALLA-1

ANALYTICAL TECHNIQUE: ETVAA ANALYTICAL PROCEDURE : 7740

CUSTOMER NUM	SAMPLE NUM	RESULT	UNCERTAINTY	UNITS	COMPLETION DATE	COMMENT
5.1 78-79	90.17658	4.1	1.	UG/L	11/02/90	
5.1 88-89	90.17659	3.9	1.	UG/L	11/02/90	
5.1 93-94	90.17660	4.1	1.	UG/L	11/02/90	
5.1 103-104	90.17661	4.1	1.	UG/L	11/02/90	
5.1 108-109	90.17662	4.5	1.	UG/L	11/02/90	

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REPORT NUMBER: 8668 (continued)

********** HSE-9 QUALITY ASSURANCE REPORT *********

Prepared by: TMF on 2-Nov-1990

REQUEST NUMBER: 10817 MATRIX: SE ANALYST: Trudi Foreman PROGRAM CODE: M211

OWNER: Max Maes GROUP: HSE-8 MAIL-STOP: K490 PHONE: 7-0817 TASK-ID: ALLA-1

CUSTOMER NUM	SAMPLE NUM	RESULT	UNCERTAINTY	UNITS	CERTIFIED VALUE	CERTIFIED VALUE UNCERTAINTY	COMPLETION DATE	COMMENT
00.01160	00.01160	8.	2.	UG/L	8.1	1.1	11/02/90	UNDER CONTROL

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

SAMPLE NUM	RESULT	UNCERTAINTY	UNITS	CERTIFIED VALUE	CERTIFIED VALUE UNCERTAINTY	COMPLETION DATE	COMMENT
90.17663	63.	12.	UG/L	60.	6.	11/02/90	UNDER CONTROL

REPORT NUMBER: 8668

Analyst	Section Leader	QA Officer
11-5-90	11-5-90	11-5-90
Date	Date	Date

The control status of the preceeding data was evaluated using the standard statistical criteria set forth in 'Quality Assurance for Health and Environmental Chemistry: 1986,' LA-11114-MS, pp. 3-4.

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REPORT NUMBER: 8665

********** HSE-9 ANALYTICAL REPORT **********

Prepared by: TMF on 2-Nov-1990

ANALYSIS: AG REQUEST NUMBER: 10817 MATRIX: SE ANALYST: Trudi Foreman PROGRAM CODE: M211

OWNER: Max Maes GROUP: HSE-8 MAIL-STOP: K490 PHONE: 7-0817 TASK-ID: ALLA-1

ANALYTICAL TECHNIQUE: FAA ANALYTICAL PROCEDURE : 7760

CUSTOMER NUM	SAMPLE NUM	RESULT	UNCERTAINTY	UNITS	COMPLETION DATE	COMMENT
5.1 78-79	90.17658	< 10.		UG/L	11/02/90	
5.1 88-89	90.17659	< 10.		UG/L	11/02/90	
5.1 93-94	90.17660	< 10.		UG/L	11/02/90	
5.1 103-104	90.17661	10.	10.	UG/L	11/02/90	
5.1 108-109	90.17662	< 10.		UG/L	11/02/90	

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REPORT NUMBER: 8665 (continued)

********** HSE-9 QUALITY ASSURANCE REPORT *********

Prepared by: TMF on 2-Nov-1990

REQUEST NUMBER: 10817 MATRIX: SE ANALYST: Trudi Foreman PROGRAM CODE: M211

OWNER: Max Maes GROUP: HSE-8 MAIL-STOP: K490 PHONE: 7-0817 TASK-ID: ALLA-1

CUSTOMER NUM	SAMPLE NUM	RESULT	UNCERTAINTY	UNITS	CERTIFIED VALUE	CERTIFIED VALUE UNCERTAINTY	COMPLETION DATE	COMMENT
00.98805	00.98805	0.508	0.06	MG/L	0.5	0.05	11/02/90	UNDER CONTROL

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

SAMPLE NUM	RESULT	UNCERTAINTY	UNITS	CERTIFIED VALUE	CERTIFIED VALUE UNCERTAINTY	COMPLETION DATE	COMMENT
90.17663	610.	60.	UG/L	600.	60.	11/02/90	UNDER CONTROL

REPORT NUMBER: 8665

Analyst	Section Leader	QA Officer
11-1-90	11-5-90	11-5-90
Date	Date	Date

The control status of the preceeding data was evaluated using the standard statistical criteria set forth in 'Quality Assurance for Health and Environmental Chemistry: 1986,' LA-11114-MS, pp. 3-4.

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REPORT NUMBER: 8666

********** HSE-9 ANALYTICAL REPORT **********

Prepared by: TMF on 2-Nov-1990

ANALYSIS: AS REQUEST NUMBER: 10817 MATRIX: SE ANALYST: Trudi Foreman PROGRAM CODE: M211

OWNER: Max Maes GROUP: HSE-8 MAIL-STOP: K490 PHONE: 7-0817 TASK-ID: ALLA-1

ANALYTICAL TECHNIQUE: ETVAA ANALYTICAL PROCEDURE : 7060

CUSTOMER NUM	SAMPLE NUM	RESULT	UNCERTAINTY	UNITS	COMPLETION DATE	COMMENT
5.1 78-79	90.17658	< 2.		UG/L	11/02/90	
5.1 88-89	90.17659	< 2.		UG/L	11/02/90	
5.1 93-94	90.17660	< 2.		UG/L	11/02/90	
5.1 103-104	90.17661	< 2.		UG/L	11/02/90	
5.1 108-109	90.17662	< 2.		UG/L	11/02/90	

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REPORT NUMBER: 8666 (continued)

********** HSE-9 QUALITY ASSURANCE REPORT *********

Prepared by: TMF on 2-Nov-1990

REQUEST NUMBER: 10817 MATRIX: SE ANALYST: Trudi Foreman PROGRAM CODE: M211

OWNER: Max Maes GROUP: HSE-8 MAIL-STOP: K490 PHONE: 7-0817 TASK-ID: ALLA-1

CUSTOMER NUM	SAMPLE NUM	RESULT	UNCERTAINTY	UNITS	CERTIFIED VALUE	CERTIFIED VALUE UNCERTAINTY	COMPLETION DATE	COMMENT
00.01160	00.01160	51.5	10.	UG/L	51.	4.28	11/02/90	UNDER CONTROL

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

SAMPLE NUM	RESULT	UNCERTAINTY	UNITS	CERTIFIED VALUE	CERTIFIED VALUE UNCERTAINTY	COMPLETION DATE	COMMENT
90.17663	46.	5.	UG/L	50.	5.	11/02/90	UNDER CONTROL

REPORT NUMBER: 8666

Analyst	Section Leader	QA Officer
11-5-90	11-5-90	11-5-90
Date	Date	Date

The control status of the preceeding data was evaluated using the standard statistical criteria set forth in 'Quality Assurance for Health and Environmental Chemistry: 1986,' LA-11114-MS, pp. 3-4.

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REPORT NUMBER: 8785

********** HSE-9 ANALYTICAL REPORT **********

Prepared by: 10817 on 8-Nov-1990

ICP MASS SCAN

REQUEST NUMBER: 10817 MATRIX: S ANALYST: Mary Carol Williams PROGRAM CODE: M211

OWNER: Max Maes GROUP: HSE-8 MAIL-STOP: K490 PHONE: 7-0817 TASK-ID: ALLA-1

CUSTOMER NUMBER	SAMPLE NUMBER	ANALYSIS	RESULT	UNCERTAINTY	UNITS	COMPLETION DATE	COMMENT
5.1 78-79	90.17658	AG	< 500.		NG/G	11/08/90	
5.1 78-79	90.17658	AL	240.	720.	UG/G	11/08/90	
5.1 78-79	90.17658	AS	< 500.		NG/G	11/08/90	
5.1 78-79	90.17658	AU	< 500.		NG/G	11/08/90	
5.1 78-79	90.17658	BA	5.9	17.7	UG/G	11/08/90	
5.1 78-79	90.17658	BE	< 5000.		NG/G	11/08/90	
5.1 78-79	90.17658	BI	< 500.		NG/G	11/08/90	
5.1 78-79	90.17658	CD	< 500.		NG/G	11/08/90	
5.1 78-79	90.17658	CE	3.7	11.1	UG/G	11/08/90	
5.1 78-79	90.17658	CO	< 500.		NG/G	11/08/90	
5.1 78-79	90.17658	CR	< 500.		NG/G	11/08/90	
5.1 78-79	90.17658	CS	< 500.		NG/G	11/08/90	
5.1 78-79	90.17658	CU	< 500.		NG/G	11/08/90	
5.1 78-79	90.17658	DY	< 500.		NG/G	11/08/90	
5.1 78-79	90.17658	ER	< 500.		NG/G	11/08/90	
5.1 78-79	90.17658	EU	< 500.		NG/G	11/08/90	
5.1 78-79	90.17658	GA	< 500.		NG/G	11/08/90	
5.1 78-79	90.17658	GD	< 500.		NG/G	11/08/90	
5.1 78-79	90.17658	GE	< 500.		NG/G	11/08/90	
5.1 78-79	90.17658	HF	< 500.		NG/G	11/08/90	
5.1 78-79	90.17658	HO	< 500.		NG/G	11/08/90	
5.1 78-79	90.17658	IN	< 500.		NG/G	11/08/90	
5.1 78-79	90.17658	IR	< 500.		NG/G	11/08/90	
5.1 78-79	90.17658	LA	3.2	9.6	UG/G	11/08/90	
5.1 78-79	90.17658	LI	< 5000.		NG/G	11/08/90	
5.1 78-79	90.17658	LU	< 500.		NG/G	11/08/90	
5.1 78-79	90.17658	MN	11.	33.	UG/G	11/08/90	
5.1 78-79	90.17658	MO	< 500.		NG/G	11/08/90	
5.1 78-79	90.17658	NB	< 500.		NG/G	11/08/90	
5.1 78-79	90.17658	ND	3.4	10.2	UG/G	11/08/90	
5.1 78-79	90.17658	NI	< 500.		NG/G	11/08/90	
5.1 78-79	90.17658	PB	780.	2300.	NG/G	11/08/90	
5.1 78-79	90.17658	PD	< 500.		NG/G	11/08/90	
5.1 78-79	90.17658	PR	1.1	3.3	UG/G	11/08/90	
5.1 78-79	90.17658	PT	< 500.		NG/G	11/08/90	
5.1 78-79	90.17658	RB	2.6	7.8	UG/G	11/08/90	
5.1 78-79	90.17658	RH	< 500.		NG/G	11/08/90	
5.1 78-79	90.17658	RU	< 500.		NG/G	11/08/90	
5.1 78-79	90.17658	SB	< 500.		NG/G	11/08/90	

5.1 78-79	90.17658	SE	< 5000.		NG/G	11/08/90
5.1 78-79	90.17658	SM	1.1	3.3	UG/G	11/08/90
5.1 78-79	90.17658	SN	< 500.		NG/G	11/08/90
5.1 78-79	90.17658	SR	1.8	5.4	UG/G	11/08/90
5.1 78-79	90.17658	TA	< 500.		NG/G	11/08/90
5.1 78-79	90.17658	TB	< 500.		NG/G	11/08/90
5.1 78-79	90.17658	TE	< 500.		NG/G	11/08/90
5.1 78-79	90.17658	TH	< 500.		NG/G	11/08/90
5.1 78-79	90.17658	TI	< 5000.		NG/G	11/08/90
5.1 78-79	90.17658	TL	< 500.		NG/G	11/08/90
5.1 78-79	90.17658	TM	< 500.		NG/G	11/08/90
5.1 78-79	90.17658	U	< 500.		NG/G	11/08/90
5.1 78-79	90.17658	V	< 5000.		NG/G	11/08/90
5.1 78-79	90.17658	W	< 500.		NG/G	11/08/90
5.1 78-79	90.17658	Y	2.2	6.6	UG/G	11/08/90
5.1 78-79	90.17658	YB	< 500.		NG/G	11/08/90
5.1 78-79	90.17658	ZN	< 500.		NG/G	11/08/90
5.1 78-79	90.17658	ZR	< 500.		NG/G	11/08/90

REPORT NUMBER: 8785

********** HSE-9 ANALYTICAL REPORT **********

Prepared by: 10817 on 8-Nov-1990

ICP MASS SCAN

REQUEST NUMBER: 10817 MATRIX: S ANALYST: Mary Carol Williams PROGRAM CODE: M211

OWNER: Max Maes GROUP: HSE-8 MAIL-STOP: K490 PHONE: 7-0817 TASK-ID: ALLA-1

CUSTOMER NUMBER	SAMPLE NUMBER	ANALYSIS	RESULT	UNCERTAINTY	UNITS	COMPLETION DATE	COMMENT
5.1 88-89	90.17659	AG	< 500.		NG/G	11/08/90	
5.1 88-89	90.17659	AL	270.	810.	UG/G	11/08/90	
5.1 88-89	90.17659	AS	< 500.		NG/G	11/08/90	
5.1 88-89	90.17659	AU	< 500.		NG/G	11/08/90	
5.1 88-89	90.17659	BA	6.1	18.3	UG/G	11/08/90	
5.1 88-89	90.17659	BE	< 5000.		NG/G	11/08/90	
5.1 88-89	90.17659	BI	< 500.		NG/G	11/08/90	
5.1 88-89	90.17659	CD	< 500.		NG/G	11/08/90	
5.1 88-89	90.17659	CE	3.4	10.2	UG/G	11/08/90	
5.1 88-89	90.17659	CO	< 500.		NG/G	11/08/90	
5.1 88-89	90.17659	CR	< 500.		NG/G	11/08/90	
5.1 88-89	90.17659	CS	< 500.		NG/G	11/08/90	
5.1 88-89	90.17659	CU	< 500.		NG/G	11/08/90	
5.1 88-89	90.17659	DY	< 500.		NG/G	11/08/90	
5.1 88-89	90.17659	ER	< 500.		NG/G	11/08/90	
5.1 88-89	90.17659	EU	< 500.		NG/G	11/08/90	
5.1 88-89	90.17659	GA	< 500.		NG/G	11/08/90	
5.1 88-89	90.17659	GD	< 500.		NG/G	11/08/90	
5.1 88-89	90.17659	GE	< 500.		NG/G	11/08/90	
5.1 88-89	90.17659	HF	< 500.		NG/G	11/08/90	
5.1 88-89	90.17659	HO	< 500.		NG/G	11/08/90	
5.1 88-89	90.17659	IN	< 500.		NG/G	11/08/90	
5.1 88-89	90.17659	IR	< 500.		NG/G	11/08/90	
5.1 88-89	90.17659	LA	2.6	7.8	UG/G	11/08/90	
5.1 88-89	90.17659	LI	< 5000.		NG/G	11/08/90	
5.1 88-89	90.17659	LU	< 500.		NG/G	11/08/90	
5.1 88-89	90.17659	MN	12.	36.	UG/G	11/08/90	
5.1 88-89	90.17659	MO	< 500.		NG/G	11/08/90	
5.1 88-89	90.17659	NB	< 500.		NG/G	11/08/90	
5.1 88-89	90.17659	ND	3.	9.	UG/G	11/08/90	
5.1 88-89	90.17659	NI	< 500.		NG/G	11/08/90	
5.1 88-89	90.17659	PB	1.2	3.6	UG/G	11/08/90	
5.1 88-89	90.17659	PD	< 500.		NG/G	11/08/90	
5.1 88-89	90.17659	PR	860.	2600.	NG/G	11/08/90	
5.1 88-89	90.17659	PT	< 500.		NG/G	11/08/90	
5.1 88-89	90.17659	RB	3.7	11.1	UG/G	11/08/90	
5.1 88-89	90.17659	RH	< 500.		NG/G	11/08/90	
5.1 88-89	90.17659	RU	< 500.		NG/G	11/08/90	
5.1 88-89	90.17659	SB	< 500.		NG/G	11/08/90	

5.1 88-89	90.17659	SE	< 5000.		NG/G	11/08/90
5.1 88-89	90.17659	SM	660.	2000.	NG/G	11/08/90
5.1 88-89	90.17659	SN	< 500.		NG/G	11/08/90
5.1 88-89	90.17659	SR	2.1	6.3	UG/G	11/08/90
5.1 88-89	90.17659	TA	< 500.		NG/G	11/08/90
5.1 88-89	90.17659	TB	< 500.		NG/G	11/08/90
5.1 88-89	90.17659	TE	< 500.		NG/G	11/08/90
5.1 88-89	90.17659	TH	< 500.		NG/G	11/08/90
5.1 88-89	90.17659	TI	< 5000.		NG/G	11/08/90
5.1 88-89	90.17659	TL	< 500.		NG/G	11/08/90
5.1 88-89	90.17659	TM	< 500.		NG/G	11/08/90
5.1 88-89	90.17659	U	< 500.		NG/G	11/08/90
5.1 88-89	90.17659	V	< 5000.		NG/G	11/08/90
5.1 88-89	90.17659	W	< 500.		NG/G	11/08/90
5.1 88-89	90.17659	Y	2.5	7.5	UG/G	11/08/90
5.1 88-89	90.17659	YB	< 500.		NG/G	11/08/90
5.1 88-89	90.17659	ZN	780.	2300.	NG/G	11/08/90
5.1 88-89	90.17659	ZR	< 500.		NG/G	11/08/90

REPORT NUMBER: 8785

********** HSE-9 ANALYTICAL REPORT **********

Prepared by: 10817 on 8-Nov-1990

ICP MASS SCAN

REQUEST NUMBER: 10817 MATRIX: S ANALYST: Mary Carol Williams PROGRAM CODE: M211

OWNER: Max Maes GROUP: HSE-8 MAIL-STOP: K490 PHONE: 7-0817 TASK-ID: ALLA-1

CUSTOMER NUMBER	SAMPLE NUMBER	ANALYSIS	RESULT	UNCERTAINTY	UNITS	COMPLETION DATE	COMMENT
5.1 93-94	90.17660	AG	< 500.		NG/G	11/08/90	
5.1 93-94	90.17660	AL	220.	660.	UG/G	11/08/90	
5.1 93-94	90.17660	AS	< 500.		NG/G	11/08/90	
5.1 93-94	90.17660	AU	< 500.		NG/G	11/08/90	
5.1 93-94	90.17660	BA	16.	48.	UG/G	11/08/90	
5.1 93-94	90.17660	BE	< 5000.		NG/G	11/08/90	
5.1 93-94	90.17660	BI	< 500.		NG/G	11/08/90	
5.1 93-94	90.17660	CD	< 500.		NG/G	11/08/90	
5.1 93-94	90.17660	CE	6.1	18.3	UG/G	11/08/90	
5.1 93-94	90.17660	CO	< 500.		NG/G	11/08/90	
5.1 93-94	90.17660	CR	< 500.		NG/G	11/08/90	
5.1 93-94	90.17660	CS	< 500.		NG/G	11/08/90	
5.1 93-94	90.17660	CU	< 500.		NG/G	11/08/90	
5.1 93-94	90.17660	DY	1.6	4.8	UG/G	11/08/90	
5.1 93-94	90.17660	ER	< 500.		NG/G	11/08/90	
5.1 93-94	90.17660	EU	< 500.		NG/G	11/08/90	
5.1 93-94	90.17660	GA	540.	1600.	NG/G	11/08/90	
5.1 93-94	90.17660	GD	1.3	3.9	UG/G	11/08/90	
5.1 93-94	90.17660	GE	< 500.		NG/G	11/08/90	
5.1 93-94	90.17660	HF	< 500.		NG/G	11/08/90	
5.1 93-94	90.17660	HO	< 500.		NG/G	11/08/90	
5.1 93-94	90.17660	IN	< 500.		NG/G	11/08/90	
5.1 93-94	90.17660	IR	< 500.		NG/G	11/08/90	
5.1 93-94	90.17660	LA	6.3	18.9	UG/G	11/08/90	
5.1 93-94	90.17660	LI	< 5000.		NG/G	11/08/90	
5.1 93-94	90.17660	LU	< 500.		NG/G	11/08/90	
5.1 93-94	90.17660	MN	21.	63.	UG/G	11/08/90	
5.1 93-94	90.17660	MO	< 500.		NG/G	11/08/90	
5.1 93-94	90.17660	NB	< 500.		NG/G	11/08/90	
5.1 93-94	90.17660	ND	7.4	22.2	UG/G	11/08/90	
5.1 93-94	90.17660	NI	< 500.		NG/G	11/08/90	
5.1 93-94	90.17660	PB	2.	6.	UG/G	11/08/90	
5.1 93-94	90.17660	PD	< 500.		NG/G	11/08/90	
5.1 93-94	90.17660	PR	1.9	5.7	UG/G	11/08/90	
5.1 93-94	90.17660	PT	< 500.		NG/G	11/08/90	
5.1 93-94	90.17660	RB	2.3	6.9	UG/G	11/08/90	
5.1 93-94	90.17660	RH	< 500.		NG/G	11/08/90	
5.1 93-94	90.17660	RU	< 500.		NG/G	11/08/90	
5.1 93-94	90.17660	SB	< 500.		NG/G	11/08/90	

5.1 93-94	90.17660	SE	< 5000.		NG/G	11/08/90
5.1 93-94	90.17660	SM	2.	6.	UG/G	11/08/90
5.1 93-94	90.17660	SN	< 500.		NG/G	11/08/90
5.1 93-94	90.17660	SR	2.8	8.4	UG/G	11/08/90
5.1 93-94	90.17660	TA	< 500.		NG/G	11/08/90
5.1 93-94	90.17660	TB	< 500.		NG/G	11/08/90
5.1 93-94	90.17660	TE	< 500.		NG/G	11/08/90
5.1 93-94	90.17660	TH	880.	2600.	NG/G	11/08/90
5.1 93-94	90.17660	TI	< 5000.		NG/G	11/08/90
5.1 93-94	90.17660	TL	< 500.		NG/G	11/08/90
5.1 93-94	90.17660	TM	< 500.		NG/G	11/08/90
5.1 93-94	90.17660	U	< 500.		NG/G	11/08/90
5.1 93-94	90.17660	V	< 5000.		NG/G	11/08/90
5.1 93-94	90.17660	W	< 500.		NG/G	11/08/90
5.1 93-94	90.17660	Y	10.	30.	UG/G	11/08/90
5.1 93-94	90.17660	YB	580.	1700.	NG/G	11/08/90
5.1 93-94	90.17660	ZN	2.4	7.2	UG/G	11/08/90
5.1 93-94	90.17660	ZR	< 500.		NG/G	11/08/90

REPORT NUMBER: 8785

********** HSE-9 ANALYTICAL REPORT **********

Prepared by: 10817 on 8-Nov-1990

ICP MASS SCAN

REQUEST NUMBER: 10817 MATRIX: S ANALYST: Mary Carol Williams PROGRAM CODE: M211

OWNER: Max Maes GROUP: HSE-8 MAIL-STOP: K490 PHONE: 7-0817 TASK-ID: ALLA-1

CUSTOMER NUMBER	SAMPLE NUMBER	ANALYSIS	RESULT	UNCERTAINTY	UNITS	COMPLETION DATE	COMMENT
5.1 103-104	90.17661	AG	< 500.		NG/G	11/08/90	
5.1 103-104	90.17661	AL	550.	1700.	UG/G	11/08/90	
5.1 103-104	90.17661	AS	< 500.		NG/G	11/08/90	
5.1 103-104	90.17661	AU	< 500.		NG/G	11/08/90	
5.1 103-104	90.17661	BA	9.9	29.7	UG/G	11/08/90	
5.1 103-104	90.17661	BE	< 5000.		NG/G	11/08/90	
5.1 103-104	90.17661	BI	< 500.		NG/G	11/08/90	
5.1 103-104	90.17661	CD	< 500.		NG/G	11/08/90	
5.1 103-104	90.17661	CE	6.8	20.4	UG/G	11/08/90	
5.1 103-104	90.17661	CO	< 500.		NG/G	11/08/90	
5.1 103-104	90.17661	CR	< 500.		NG/G	11/08/90	
5.1 103-104	90.17661	CS	< 500.		NG/G	11/08/90	
5.1 103-104	90.17661	CU	< 500.		NG/G	11/08/90	
5.1 103-104	90.17661	DY	< 500.		NG/G	11/08/90	
5.1 103-104	90.17661	ER	< 500.		NG/G	11/08/90	
5.1 103-104	90.17661	EU	< 500.		NG/G	11/08/90	
5.1 103-104	90.17661	GA	< 500.		NG/G	11/08/90	
5.1 103-104	90.17661	GD	< 500.		NG/G	11/08/90	
5.1 103-104	90.17661	GE	< 500.		NG/G	11/08/90	
5.1 103-104	90.17661	HF	< 500.		NG/G	11/08/90	
5.1 103-104	90.17661	HO	< 500.		NG/G	11/08/90	
5.1 103-104	90.17661	IN	< 500.		NG/G	11/08/90	
5.1 103-104	90.17661	IR	< 500.		NG/G	11/08/90	
5.1 103-104	90.17661	LA	3.5	10.5	UG/G	11/08/90	
5.1 103-104	90.17661	LI	< 5000.		NG/G	11/08/90	
5.1 103-104	90.17661	LU	< 500.		NG/G	11/08/90	
5.1 103-104	90.17661	MN	32.	96.	UG/G	11/08/90	
5.1 103-104	90.17661	MO	< 500.		NG/G	11/08/90	
5.1 103-104	90.17661	NB	< 500.		NG/G	11/08/90	
5.1 103-104	90.17661	ND	2.8	8.4	UG/G	11/08/90	
5.1 103-104	90.17661	NI	< 500.		NG/G	11/08/90	
5.1 103-104	90.17661	PB	770.	2300.	NG/G	11/08/90	
5.1 103-104	90.17661	PD	< 500.		NG/G	11/08/90	
5.1 103-104	90.17661	PR	960.	2900.	NG/G	11/08/90	
5.1 103-104	90.17661	PT	< 500.		NG/G	11/08/90	
5.1 103-104	90.17661	RB	7.5	22.5	UG/G	11/08/90	
5.1 103-104	90.17661	RH	< 500.		NG/G	11/08/90	
5.1 103-104	90.17661	RU	< 500.		NG/G	11/08/90	
5.1 103-104	90.17661	SB	< 500.		NG/G	11/08/90	

5.1	103-104	90.17661	SE	< 5000.		NG/G	11/08/90
5.1	103-104	90.17661	SM	750.	2300.	NG/G	11/08/90
5.1	103-104	90.17661	SN	< 500.		NG/G	11/08/90
5.1	103-104	90.17661	SR	7.2	21.6	UG/G	11/08/90
5.1	103-104	90.17661	TA	< 500.		NG/G	11/08/90
5.1	103-104	90.17661	TB	< 500.		NG/G	11/08/90
5.1	103-104	90.17661	TE	< 500.		NG/G	11/08/90
5.1	103-104	90.17661	TH	< 500.		NG/G	11/08/90
5.1	103-104	90.17661	TI	< 5000.		NG/G	11/08/90
5.1	103-104	90.17661	TL	< 500.		NG/G	11/08/90
5.1	103-104	90.17661	TM	< 500.		NG/G	11/08/90
5.1	103-104	90.17661	U	< 500.		NG/G	11/08/90
5.1	103-104	90.17661	V	< 5000.		NG/G	11/08/90
5.1	103-104	90.17661	W	< 500.		NG/G	11/08/90
5.1	103-104	90.17661	Y	4.6	13.8	UG/G	11/08/90
5.1	103-104	90.17661	YB	< 500.		NG/G	11/08/90
5.1	103-104	90.17661	ZN	730.	2200.	NG/G	11/08/90
5.1	103-104	90.17661	ZR	< 500.		NG/G	11/08/90

REPORT NUMBER: 8785

********** HSE-9 ANALYTICAL REPORT **********

Prepared by: 10817 on 8-Nov-1990

ICP MASS SCAN

REQUEST NUMBER: 10817 MATRIX: S ANALYST: Mary Carol Williams PROGRAM CODE: M211

OWNER: Max Maes GROUP: HSE-8 MAIL-STOP: K490 PHONE: 7-0817 TASK-ID: ALLA-1

CUSTOMER NUMBER	SAMPLE NUMBER	ANALYSIS	RESULT	UNCERTAINTY	UNITS	COMPLETION DATE	COMMENT
5.1	108-109 90.17662	AG	< 500.		NG/G	11/08/90	
5.1	108-109 90.17662	AL	320.	960.	UG/G	11/08/90	
5.1	108-109 90.17662	AS	< 500.		NG/G	11/08/90	
5.1	108-109 90.17662	AU	< 500.		NG/G	11/08/90	
5.1	108-109 90.17662	BA	5.1	15.3	UG/G	11/08/90	
5.1	108-109 90.17662	BE	< 5000.		NG/G	11/08/90	
5.1	108-109 90.17662	BI	< 500.		NG/G	11/08/90	
5.1	108-109 90.17662	CD	< 500.		NG/G	11/08/90	
5.1	108-109 90.17662	CE	2.4	7.2	UG/G	11/08/90	
5.1	108-109 90.17662	CO	< 500.		NG/G	11/08/90	
5.1	108-109 90.17662	CR	< 500.		NG/G	11/08/90	
5.1	108-109 90.17662	CS	< 500.		NG/G	11/08/90	
5.1	108-109 90.17662	CU	< 500.		NG/G	11/08/90	
5.1	108-109 90.17662	DY	< 500.		NG/G	11/08/90	
5.1	108-109 90.17662	ER	< 500.		NG/G	11/08/90	
5.1	108-109 90.17662	EU	< 500.		NG/G	11/08/90	
5.1	108-109 90.17662	GA	< 500.		NG/G	11/08/90	
5.1	108-109 90.17662	GD	< 500.		NG/G	11/08/90	
5.1	108-109 90.17662	GE	< 500.		NG/G	11/08/90	
5.1	108-109 90.17662	HF	< 500.		NG/G	11/08/90	
5.1	108-109 90.17662	HO	< 500.		NG/G	11/08/90	
5.1	108-109 90.17662	IN	< 500.		NG/G	11/08/90	
5.1	108-109 90.17662	IR	< 500.		NG/G	11/08/90	
5.1	108-109 90.17662	LA	1.3	3.9	UG/G	11/08/90	
5.1	108-109 90.17662	LI	< 5000.		NG/G	11/08/90	
5.1	108-109 90.17662	LU	< 500.		NG/G	11/08/90	
5.1	108-109 90.17662	MN	18.	54.	UG/G	11/08/90	
5.1	108-109 90.17662	MO	< 500.		NG/G	11/08/90	
5.1	108-109 90.17662	NB	< 500.		NG/G	11/08/90	
5.1	108-109 90.17662	ND	720.	2200.	NG/G	11/08/90	
5.1	108-109 90.17662	NI	< 500.		NG/G	11/08/90	
5.1	108-109 90.17662	PB	920.	2800.	NG/G	11/08/90	
5.1	108-109 90.17662	PD	< 500.		NG/G	11/08/90	
5.1	108-109 90.17662	PR	< 500.		NG/G	11/08/90	
5.1	108-109 90.17662	PT	< 500.		NG/G	11/08/90	
5.1	108-109 90.17662	RB	4.1	12.3	UG/G	11/08/90	
5.1	108-109 90.17662	RH	< 500.		NG/G	11/08/90	
5.1	108-109 90.17662	RU	< 500.		NG/G	11/08/90	
5.1	108-109 90.17662	SB	< 500.		NG/G	11/08/90	

5.1	108-109	90.17662	SE	< 5000.		NG/G	11/08/90
5.1	108-109	90.17662	SM	< 500.		NG/G	11/08/90
5.1	108-109	90.17662	SN	< 500.		NG/G	11/08/90
5.1	108-109	90.17662	SR	3.2	9.6	UG/G	11/08/90
5.1	108-109	90.17662	TA	< 500.		NG/G	11/08/90
5.1	108-109	90.17662	TB	< 500.		NG/G	11/08/90
5.1	108-109	90.17662	TE	< 500.		NG/G	11/08/90
5.1	108-109	90.17662	TH	< 500.		NG/G	11/08/90
5.1	108-109	90.17662	TI	< 5000.		NG/G	11/08/90
5.1	108-109	90.17662	TL	< 500.		NG/G	11/08/90
5.1	108-109	90.17662	TM	< 500.		NG/G	11/08/90
5.1	108-109	90.17662	U	< 500.		NG/G	11/08/90
5.1	108-109	90.17662	V	< 5000.		NG/G	11/08/90
5.1	108-109	90.17662	W	< 500.		NG/G	11/08/90
5.1	108-109	90.17662	Y	1.1	3.3	UG/G	11/08/90
5.1	108-109	90.17662	YB	< 500.		NG/G	11/08/90
5.1	108-109	90.17662	ZN	860.	2600.	NG/G	11/08/90
5.1	108-109	90.17662	ZR	< 500.		NG/G	11/08/90

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********** HSE-9 QUALITY ASSURANCE REPORT *********

ICP MASS SCAN

Prepared by: 10817 on 8-Nov-1990

REQUEST NUMBER: 10817 MATRIX: S ANALYST: Mary Carol Williams PROGRAM CODE: M211

OWNER: Max Maes GROUP: HSE-8 MAIL-STOP: K490 PHONE: 7-0817 TASK-ID: ALLA-1

CUSTOMER NUM	SAMPLE NUM	ANALYSIS	RESULT	UNCERTAINTY	UNITS	CERTIFIED VALUE	CERTIFIED VALUE UNCERTAINTY	COMPLETION DATE
00.21441	00.21441	AG	120.	360.	UG/L	100.	10.	11/08/90 UNDER CONTROL
00.21441	00.21441	AL	170.	510.	UG/L	100.	10.	11/08/90 UNDER CONTROL
00.21441	00.21441	AS	93.	280.	UG/L	100.	10.	11/08/90 UNDER CONTROL
00.21441	00.21441	AU	< 1.		UG/L	0.0		11/08/90 UNDER CONTROL
00.21441	00.21441	BA	110.	330.	UG/L	100.	10.	11/08/90 UNDER CONTROL
00.21441	00.21441	BE	100.	300.	UG/L	100.	10.	11/08/90 UNDER CONTROL
00.21441	00.21441	BI	< 1.		UG/L	0.0		11/08/90 UNDER CONTROL
00.21441	00.21441	CD	120.	360.	UG/L	100.	10.	11/08/90 UNDER CONTROL
00.21441	00.21441	CE	< 1.		UG/L	0.0		11/08/90 UNDER CONTROL
00.21441	00.21441	CO	130.	390.	UG/L	100.	10.	11/08/90 UNDER CONTROL
00.21441	00.21441	CR	140.	420.	UG/L	100.	10.	11/08/90 UNDER CONTROL
00.21441	00.21441	CS	< 1.		UG/L	0.0		11/08/90 UNDER CONTROL
00.21441	00.21441	CU	110.	330.	UG/L	100.	10.	11/08/90 UNDER CONTROL
00.21441	00.21441	DY	< 1.		UG/L	0.0		11/08/90 UNDER CONTROL
00.21441	00.21441	ER	< 1.		UG/L	0.0		11/08/90 UNDER CONTROL
00.21441	00.21441	EU	< 1.		UG/L	0.0		11/08/90 UNDER CONTROL
00.21441	00.21441	GA	3.2	9.6	UG/L	0.0		11/08/90 UNDER CONTROL
00.21441	00.21441	GD	< 1.		UG/L	0.0		11/08/90

00.21441	00.21441 GE	< 1.		UG/L	0.0		UNDER CONTROL	11/08/90
00.21441	00.21441 HF	< 1.		UG/L	0.0		UNDER CONTROL	11/08/90
00.21441	00.21441 HO	< 1.		UG/L	0.0		UNDER CONTROL	11/08/90
00.21441	00.21441 IN	< 1.		UG/L	0.0		UNDER CONTROL	11/08/90
00.21441	00.21441 IR	< 1.		UG/L	0.0		UNDER CONTROL	11/08/90
00.21441	00.21441 LA	< 1.		UG/L	0.0		UNDER CONTROL	11/08/90
00.21441	00.21441 LI	< 10.		UG/L	0.0		UNDER CONTROL	11/08/90
00.21441	00.21441 LU	< 1.		UG/L	0.0		UNDER CONTROL	11/08/90
00.21441	00.21441 MN	140.	420.	UG/L	100.	10.	UNDER CONTROL	11/08/90
00.21441	00.21441 MO	110.	330.	UG/L	100.	10.	UNDER CONTROL	11/08/90
00.21441	00.21441 NB	< 1.		UG/L	0.0		UNDER CONTROL	11/08/90
00.21441	00.21441 ND	< 1.		UG/L	0.0		UNDER CONTROL	11/08/90
00.21441	00.21441 NI	120.	360.	UG/L	100.	10.	UNDER CONTROL	11/08/90
00.21441	00.21441 PB	120.	360.	UG/L	100.	10.	UNDER CONTROL	11/08/90
00.21441	00.21441 PD	< 1.		UG/L	0.0		UNDER CONTROL	11/08/90
00.21441	00.21441 PR	< 1.		UG/L	0.0		UNDER CONTROL	11/08/90
00.21441	00.21441 PT	< 1.		UG/L	0.0		UNDER CONTROL	11/08/90
00.21441	00.21441 RB	< 1.		UG/L	0.0		UNDER CONTROL	11/08/90
00.21441	00.21441 RH	< 1.		UG/L	0.0		UNDER CONTROL	11/08/90
00.21441	00.21441 RU	< 1.		UG/L	0.0		UNDER CONTROL	11/08/90
00.21441	00.21441 SB	92.	280.	UG/L	100.	10.	UNDER CONTROL	11/08/90
00.21441	00.21441 SE	87.	260.	UG/L	100.	10.	UNDER CONTROL	11/08/90
00.21441	00.21441 SM	< 1.		UG/L	0.0		UNDER CONTROL	11/08/90
00.21441	00.21441 SN	< 1.		UG/L	0.0		UNDER CONTROL	11/08/90
00.21441	00.21441 SR	< 1.		UG/L	0.0		UNDER CONTROL	11/08/90
00.21441	00.21441 TA	< 1.		UG/L	0.0		UNDER CONTROL	11/08/90
00.21441	00.21441 TB	< 1.		UG/L	0.0		UNDER CONTROL	11/08/90
00.21441	00.21441 TE	< 1.		UG/L	0.0		UNDER CONTROL	11/08/90
00.21441	00.21441 TH	< 1.		UG/L	0.0		UNDER CONTROL	11/08/90
00.21441	00.21441 TI	150.	450.	UG/L	100.	10.	UNDER CONTROL	11/08/90

00.21441	00.21441 TL	110.	330.	UG/L	100.	10.	UNDER CONTROL 11/08/90
00.21441	00.21441 TM	< 1.		UG/L	0.0		UNDER CONTROL 11/08/90
00.21441	00.21441 U	100.	300.	UG/L	100.	10.	UNDER CONTROL 11/08/90
00.21441	00.21441 V	140.	420.	UG/L	100.	10.	UNDER CONTROL 11/08/90
00.21441	00.21441 W	< 1.		UG/L	0.0		UNDER CONTROL 11/08/90
00.21441	00.21441 Y	< 1.		UG/L	0.0		UNDER CONTROL 11/08/90
00.21441	00.21441 YB	< 1.		UG/L	0.0		UNDER CONTROL 11/08/90
00.21441	00.21441 ZN	85.	260.	UG/L	100.	10.	UNDER CONTROL 11/08/90
00.21441	00.21441 ZR	< 1.		UG/L	0.0		UNDER CONTROL 11/08/90

REPORT NUMBER: 8785

Analyst	Section Leader	QA Officer
11-9-90	11-9-90	11/9/90
Date	Date	Date

The control status of the preceeding data was evaluated using the standard statistical criteria set forth in 'Quality Assurance for Health and Environmental Chemistry: 1986,' LA-11114-MS, pp. 3-4.

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8.6 Inorganic Analytical Results

REPORT NUMBER: 8786

********** HSE-9 ANALYTICAL REPORT **********

Prepared by: MCW on 8-Nov-1990

ICP MASS SCAN

REQUEST NUMBER: 10794 MATRIX: S ANALYST: Mary Carol Williams PROGRAM CODE: M211

OWNER: Max Maes GROUP: HSE-8 MAIL-STOP: K490 PHONE: 7-0817 TASK-ID: ALLA-1

CUSTOMER NUMBER	SAMPLE NUMBER	ANALYSIS	RESULT	UNCERTAINTY	UNITS	COMPLETION DATE	COMMENT
5.1 98-99'	90.17569	AG	< 500.		NG/G	11/08/90	
5.1 98-99'	90.17569	AL	1.8	5.4	MG/G	11/08/90	
5.1 98-99'	90.17569	AS	< 500.		NG/G	11/08/90	
5.1 98-99'	90.17569	AU	< 500.		NG/G	11/08/90	
5.1 98-99'	90.17569	BA	11.	33.	UG/G	11/08/90	
5.1 98-99'	90.17569	BE	< 5000.		NG/G	11/08/90	
5.1 98-99'	90.17569	BI	< 500.		NG/G	11/08/90	
5.1 98-99'	90.17569	CD	< 500.		NG/G	11/08/90	
5.1 98-99'	90.17569	CE	12.	36.	UG/G	11/08/90	
5.1 98-99'	90.17569	CO	670.	2000.	NG/G	11/08/90	
5.1 98-99'	90.17569	CR	840.	2500.	NG/G	11/08/90	
5.1 98-99'	90.17569	CS	1.1	3.3	UG/G	11/08/90	
5.1 98-99'	90.17569	CU	850.	2600.	NG/G	11/08/90	
5.1 98-99'	90.17569	DY	1.9	5.7	UG/G	11/08/90	
5.1 98-99'	90.17569	ER	1.2	3.6	UG/G	11/08/90	
5.1 98-99'	90.17569	EU	< 500.		NG/G	11/08/90	
5.1 98-99'	90.17569	GA	< 500.		NG/G	11/08/90	
5.1 98-99'	90.17569	GD	2.	6.	UG/G	11/08/90	
5.1 98-99'	90.17569	GE	1.2	3.6	UG/G	11/08/90	
5.1 98-99'	90.17569	HF	< 500.		NG/G	11/08/90	
5.1 98-99'	90.17569	HO	< 500.		NG/G	11/08/90	
5.1 98-99'	90.17569	IN	< 500.		NG/G	11/08/90	
5.1 98-99'	90.17569	IR	< 500.		NG/G	11/08/90	
5.1 98-99'	90.17569	LA	6.3	18.9	UG/G	11/08/90	
5.1 98-99'	90.17569	LI	9.4	28.2	UG/G	11/08/90	
5.1 98-99'	90.17569	LU	< 500.		NG/G	11/08/90	
5.1 98-99'	90.17569	MN	77.	230.	UG/G	11/08/90	
5.1 98-99'	90.17569	MO	< 500.		NG/G	11/08/90	
5.1 98-99'	90.17569	NB	< 500.		NG/G	11/08/90	
5.1 98-99'	90.17569	ND	6.3	18.9	UG/G	11/08/90	
5.1 98-99'	90.17569	NI	< 500.		NG/G	11/08/90	
5.1 98-99'	90.17569	PB	81.	240.	UG/G	11/08/90	
5.1 98-99'	90.17569	PD	< 500.		NG/G	11/08/90	
5.1 98-99'	90.17569	PR	2.	6.	UG/G	11/08/90	
5.1 98-99'	90.17569	PT	< 500.		NG/G	11/08/90	
5.1 98-99'	90.17569	RB	14.	42.	UG/G	11/08/90	
5.1 98-99'	90.17569	RH	< 500.		NG/G	11/08/90	
5.1 98-99'	90.17569	RU	< 500.		NG/G	11/08/90	
5.1 98-99'	90.17569	SB	< 500.		NG/G	11/08/90	

5.1 98-99'	90.17569	SE	< 5000.		NG/G	11/08/90
5.1 98-99'	90.17569	SM	1.6	4.8	UG/G	11/08/90
5.1 98-99'	90.17569	SN	< 500.		NG/G	11/08/90
5.1 98-99'	90.17569	SR	8.3	24.9	UG/G	11/08/90
5.1 98-99'	90.17569	TA	< 500.		NG/G	11/08/90
5.1 98-99'	90.17569	TB	< 500.		NG/G	11/08/90
5.1 98-99'	90.17569	TE	< 500.		NG/G	11/08/90
5.1 98-99'	90.17569	TH	26.	78.	UG/G	11/08/90
5.1 98-99'	90.17569	TI	5.1	15.3	UG/G	11/08/90
5.1 98-99'	90.17569	TL	< 500.		NG/G	11/08/90
5.1 98-99'	90.17569	TM	< 500.		NG/G	11/08/90
5.1 98-99'	90.17569	U	< 500.		NG/G	11/08/90
5.1 98-99'	90.17569	V	< 5000.		NG/G	11/08/90
5.1 98-99'	90.17569	W	< 500.		NG/G	11/08/90
5.1 98-99'	90.17569	Y	12.	36.	UG/G	11/08/90
5.1 98-99'	90.17569	YB	1.3	3.9	UG/G	11/08/90
5.1 98-99'	90.17569	ZN	14.	42.	UG/G	11/08/90
5.1 98-99'	90.17569	ZR	< 500.		NG/G	11/08/90

REPORT NUMBER: 8786

********** HSE-9 ANALYTICAL REPORT **********

Prepared by: MCW on 8-Nov-1990

ICP MASS SCAN

REQUEST NUMBER: 10794 MATRIX: S ANALYST: Mary Carol Williams PROGRAM CODE: M211

OWNER: Max Maes GROUP: HSE-8 MAIL-STOP: K490 PHONE: 7-0817 TASK-ID: ALLA-1

CUSTOMER NUMBER	SAMPLE NUMBER	ANALYSIS	RESULT	UNCERTAINTY	UNITS	COMPLETION DATE	COMMENT
5.1 103-104	90.17570	AG	< 500.		NG/G	11/08/90	
5.1 103-104	90.17570	AL	1.1	3.3	MG/G	11/08/90	
5.1 103-104	90.17570	AS	< 500.		NG/G	11/08/90	
5.1 103-104	90.17570	AU	< 500.		NG/G	11/08/90	
5.1 103-104	90.17570	BA	13.	39.	UG/G	11/08/90	
5.1 103-104	90.17570	BE	< 5000.		NG/G	11/08/90	
5.1 103-104	90.17570	BI	< 500.		NG/G	11/08/90	
5.1 103-104	90.17570	CD	< 500.		NG/G	11/08/90	
5.1 103-104	90.17570	CE	11.	33.	UG/G	11/08/90	
5.1 103-104	90.17570	CO	< 500.		NG/G	11/08/90	
5.1 103-104	90.17570	CR	540.	1600.	NG/G	11/08/90	
5.1 103-104	90.17570	CS	< 500.		NG/G	11/08/90	
5.1 103-104	90.17570	CU	< 500.		NG/G	11/08/90	
5.1 103-104	90.17570	DY	1.5	4.5	UG/G	11/08/90	
5.1 103-104	90.17570	ER	780.	2300.	NG/G	11/08/90	
5.1 103-104	90.17570	EU	< 500.		NG/G	11/08/90	
5.1 103-104	90.17570	GA	< 500.		NG/G	11/08/90	
5.1 103-104	90.17570	GD	1.9	5.7	UG/G	11/08/90	
5.1 103-104	90.17570	GE	1.1	3.3	UG/G	11/08/90	
5.1 103-104	90.17570	HF	< 500.		NG/G	11/08/90	
5.1 103-104	90.17570	HO	< 500.		NG/G	11/08/90	
5.1 103-104	90.17570	IN	< 500.		NG/G	11/08/90	
5.1 103-104	90.17570	IR	< 500.		NG/G	11/08/90	
5.1 103-104	90.17570	LA	5.	15.	UG/G	11/08/90	
5.1 103-104	90.17570	LI	< 5000.		NG/G	11/08/90	
5.1 103-104	90.17570	LU	< 500.		NG/G	11/08/90	
5.1 103-104	90.17570	MN	59.	180.	UG/G	11/08/90	
5.1 103-104	90.17570	MO	< 500.		NG/G	11/08/90	
5.1 103-104	90.17570	NB	< 500.		NG/G	11/08/90	
5.1 103-104	90.17570	ND	4.5	13.5	UG/G	11/08/90	
5.1 103-104	90.17570	NI	< 500.		NG/G	11/08/90	
5.1 103-104	90.17570	PB	2.	6.	UG/G	11/08/90	
5.1 103-104	90.17570	PD	< 500.		NG/G	11/08/90	
5.1 103-104	90.17570	PR	1.5	4.5	UG/G	11/08/90	
5.1 103-104	90.17570	PT	< 500.		NG/G	11/08/90	
5.1 103-104	90.17570	RB	14.	42.	UG/G	11/08/90	
5.1 103-104	90.17570	RH	< 500.		NG/G	11/08/90	
5.1 103-104	90.17570	RU	< 500.		NG/G	11/08/90	
5.1 103-104	90.17570	SB	< 500.		NG/G	11/08/90	

5.1	103-104	90.17570	SE	< 5000.		NG/G	11/08/90
5.1	103-104	90.17570	SM	3.2	9.6	UG/G	11/08/90
5.1	103-104	90.17570	SN	< 500.		NG/G	11/08/90
5.1	103-104	90.17570	SR	7.6	22.8	UG/G	11/08/90
5.1	103-104	90.17570	TA	< 500.		NG/G	11/08/90
5.1	103-104	90.17570	TB	< 500.		NG/G	11/08/90
5.1	103-104	90.17570	TE	< 500.		NG/G	11/08/90
5.1	103-104	90.17570	TH	23.	69.	UG/G	11/08/90
5.1	103-104	90.17570	TI	< 5000.		NG/G	11/08/90
5.1	103-104	90.17570	TL	< 500.		NG/G	11/08/90
5.1	103-104	90.17570	TM	< 500.		NG/G	11/08/90
5.1	103-104	90.17570	U	< 500.		NG/G	11/08/90
5.1	103-104	90.17570	V	< 5000.		NG/G	11/08/90
5.1	103-104	90.17570	W	< 500.		NG/G	11/08/90
5.1	103-104	90.17570	Y	6.4	19.2	UG/G	11/08/90
5.1	103-104	90.17570	YB	710.	2100.	NG/G	11/08/90
5.1	103-104	90.17570	ZN	1.9	5.7	UG/G	11/08/90
5.1	103-104	90.17570	ZR	< 500.		NG/G	11/08/90

REPORT NUMBER: 8786

********** HSE-9 ANALYTICAL REPORT **********

Prepared by: MCW on 8-Nov-1990

ICP MASS SCAN

REQUEST NUMBER: 10794 MATRIX: S ANALYST: Mary Carol Williams PROGRAM CODE: M211

OWNER: Max Maes GROUP: HSE-8 MAIL-STOP: K490 PHONE: 7-0817 TASK-ID: ALLA-1

CUSTOMER NUMBER	SAMPLE NUMBER	ANALYSIS	RESULT	UNCERTAINTY	UNITS	COMPLETION DATE	COMMENT
5.1 108-109	90.17571	AG	< 500.		NG/G	11/08/90	
5.1 108-109	90.17571	AL	970.	2900.	UG/G	11/08/90	
5.1 108-109	90.17571	AS	< 500.		NG/G	11/08/90	
5.1 108-109	90.17571	AU	< 500.		NG/G	11/08/90	
5.1 108-109	90.17571	BA	11.	33.	UG/G	11/08/90	
5.1 108-109	90.17571	BE	< 5000.		NG/G	11/08/90	
5.1 108-109	90.17571	BI	< 500.		NG/G	11/08/90	
5.1 108-109	90.17571	CD	< 500.		NG/G	11/08/90	
5.1 108-109	90.17571	CE	5.7	17.1	UG/G	11/08/90	
5.1 108-109	90.17571	CO	< 500.		NG/G	11/08/90	
5.1 108-109	90.17571	CR	530.	1600.	NG/G	11/08/90	
5.1 108-109	90.17571	CS	< 500.		NG/G	11/08/90	
5.1 108-109	90.17571	CU	< 500.		NG/G	11/08/90	
5.1 108-109	90.17571	DY	< 500.		NG/G	11/08/90	
5.1 108-109	90.17571	ER	< 500.		NG/G	11/08/90	
5.1 108-109	90.17571	EU	< 500.		NG/G	11/08/90	
5.1 108-109	90.17571	GA	< 500.		NG/G	11/08/90	
5.1 108-109	90.17571	GD	560.	1700.	NG/G	11/08/90	
5.1 108-109	90.17571	GE	820.	2500.	NG/G	11/08/90	
5.1 108-109	90.17571	HF	< 500.		NG/G	11/08/90	
5.1 108-109	90.17571	HO	< 500.		NG/G	11/08/90	
5.1 108-109	90.17571	IN	< 500.		NG/G	11/08/90	
5.1 108-109	90.17571	IR	< 500.		NG/G	11/08/90	
5.1 108-109	90.17571	LA	2.4	7.2	UG/G	11/08/90	
5.1 108-109	90.17571	LI	< 5000.		NG/G	11/08/90	
5.1 108-109	90.17571	LU	< 500.		NG/G	11/08/90	
5.1 108-109	90.17571	MN	44.	130.	UG/G	11/08/90	
5.1 108-109	90.17571	MO	< 500.		NG/G	11/08/90	
5.1 108-109	90.17571	NB	< 500.		NG/G	11/08/90	
5.1 108-109	90.17571	ND	2.	6.	UG/G	11/08/90	
5.1 108-109	90.17571	NI	< 500.		NG/G	11/08/90	
5.1 108-109	90.17571	PB	1.8	5.4	UG/G	11/08/90	
5.1 108-109	90.17571	PD	< 500.		NG/G	11/08/90	
5.1 108-109	90.17571	PR	700.	2100.	NG/G	11/08/90	
5.1 108-109	90.17571	PT	< 500.		NG/G	11/08/90	
5.1 108-109	90.17571	RB	9.5	28.5	UG/G	11/08/90	
5.1 108-109	90.17571	RH	< 500.		NG/G	11/08/90	
5.1 108-109	90.17571	RU	< 500.		NG/G	11/08/90	
5.1 108-109	90.17571	SB	< 500.		NG/G	11/08/90	

5.1	108-109	90.17571	SE	< 5000.		NG/G	11/08/90
5.1	108-109	90.17571	SM	< 500.		NG/G	11/08/90
5.1	108-109	90.17571	SN	< 500.		NG/G	11/08/90
5.1	108-109	90.17571	SR	6.	18.	UG/G	11/08/90
5.1	108-109	90.17571	TA	< 500.		NG/G	11/08/90
5.1	108-109	90.17571	TB	< 500.		NG/G	11/08/90
5.1	108-109	90.17571	TE	< 500.		NG/G	11/08/90
5.1	108-109	90.17571	TH	13.	39.	UG/G	11/08/90
5.1	108-109	90.17571	TI	< 5000.		NG/G	11/08/90
5.1	108-109	90.17571	TL	< 500.		NG/G	11/08/90
5.1	108-109	90.17571	TM	< 500.		NG/G	11/08/90
5.1	108-109	90.17571	U	< 500.		NG/G	11/08/90
5.1	108-109	90.17571	V	< 5000.		NG/G	11/08/90
5.1	108-109	90.17571	W	< 500.		NG/G	11/08/90
5.1	108-109	90.17571	Y	2.7	8.1	UG/G	11/08/90
5.1	108-109	90.17571	YB	< 500.		NG/G	11/08/90
5.1	108-109	90.17571	ZN	1.7	5.1	UG/G	11/08/90
5.1	108-109	90.17571	ZR	< 500.		NG/G	11/08/90

REPORT NUMBER: 8786

********** HSE-9 ANALYTICAL REPORT **********

Prepared by: MCW on 8-Nov-1990

ICP MASS SCAN

REQUEST NUMBER: 10794 MATRIX: S ANALYST: Mary Carol Williams PROGRAM CODE: M211

OWNER: Max Maes GROUP: HSE-8 MAIL-STOP: K490 PHONE: 7-0817 TASK-ID: ALLA-1

CUSTOMER NUMBER	SAMPLE NUMBER	ANALYSIS	RESULT	UNCERTAINTY	UNITS	COMPLETION DATE	COMMENT
5.1 110-111	90.17572	AG	< 500.		NG/G	11/08/90	
5.1 110-111	90.17572	AL	1.3	3.9	MG/G	11/08/90	
5.1 110-111	90.17572	AS	< 500.		NG/G	11/08/90	
5.1 110-111	90.17572	\ AU	< 500.		NG/G	11/08/90	
5.1 110-111	90.17572	BA	9.5	28.5	UG/G	11/08/90	
5.1 110-111	90.17572	BE	< 5000.		NG/G	11/08/90	
5.1 110-111	90.17572	BI	< 500.		NG/G	11/08/90	
5.1 110-111	90.17572	CD	< 500.		NG/G	11/08/90	
5.1 110-111	90.17572	CE	9.5	28.5	UG/G	11/08/90	
5.1 110-111	90.17572	CO	1.1	3.3	UG/G	11/08/90	
5.1 110-111	90.17572	CR	1.3	3.9	UG/G	11/08/90	
5.1 110-111	90.17572	CS	< 500.		NG/G	11/08/90	
5.1 110-111	90.17572	CU	900.	2700.	NG/G	11/08/90	
5.1 110-111	90.17572	DY	650.	2000.	NG/G	11/08/90	
5.1 110-111	90.17572	ER	< 500.		NG/G	11/08/90	
5.1 110-111	90.17572	EU	< 500.		NG/G	11/08/90	
5.1 110-111	90.17572	GA	< 500.		NG/G	11/08/90	
5.1 110-111	90.17572	GD	760.	2300.	NG/G	11/08/90	
5.1 110-111	90.17572	GE	1.9	5.7	UG/G	11/08/90	
5.1 110-111	90.17572	HF	< 500.		NG/G	11/08/90	
5.1 110-111	90.17572	HO	< 500.		NG/G	11/08/90	
5.1 110-111	90.17572	IN	< 500.		NG/G	11/08/90	
5.1 110-111	90.17572	IR	< 500.		NG/G	11/08/90	
5.1 110-111	90.17572	LA	3.2	9.6	UG/G	11/08/90	
5.1 110-111	90.17572	LI	< 5000.		NG/G	11/08/90	
5.1 110-111	90.17572	LU	< 500.		NG/G	11/08/90	
5.1 110-111	90.17572	MN	61.	180.	UG/G	11/08/90	
5.1 110-111	90.17572	MO	< 500.		NG/G	11/08/90	
5.1 110-111	90.17572	NB	< 500.		NG/G	11/08/90	
5.1 110-111	90.17572	ND	2.8	8.4	UG/G	11/08/90	
5.1 110-111	90.17572	NI	2.6	7.8	UG/G	11/08/90	
5.1 110-111	90.17572	PB	1.4	4.2	UG/G	11/08/90	
5.1 110-111	90.17572	PD	< 500.		NG/G	11/08/90	
5.1 110-111	90.17572	PR	990.	3000.	NG/G	11/08/90	
5.1 110-111	90.17572	PT	< 500.		NG/G	11/08/90	
5.1 110-111	90.17572	RB	9.4	28.2	UG/G	11/08/90	
5.1 110-111	90.17572	RH	< 500.		NG/G	11/08/90	
5.1 110-111	90.17572	RU	< 500.		NG/G	11/08/90	
5.1 110-111	90.17572	SB	< 500.		NG/G	11/08/90	

5.1	110-111	90.17572	SE	< 5000.		NG/G	11/08/90
5.1	110-111	90.17572	SM	750.	2300.	NG/G	11/08/90
5.1	110-111	90.17572	SN	< 500.		NG/G	11/08/90
5.1	110-111	90.17572	SR	7.5	22.5	UG/G	11/08/90
5.1	110-111	90.17572	TA	< 500.		NG/G	11/08/90
5.1	110-111	90.17572	TB	< 500.		NG/G	11/08/90
5.1	110-111	90.17572	TE	< 500.		NG/G	11/08/90
5.1	110-111	90.17572	TH	17.	51.	UG/G	11/08/90
5.1	110-111	90.17572	TI	5.6	16.8	UG/G	11/08/90
5.1	110-111	90.17572	TL	< 500.		NG/G	11/08/90
5.1	110-111	90.17572	TM	< 500.		NG/G	11/08/90
5.1	110-111	90.17572	U	< 500.		NG/G	11/08/90
5.1	110-111	90.17572	V	< 5000.		NG/G	11/08/90
5.1	110-111	90.17572	W	< 500.		NG/G	11/08/90
5.1	110-111	90.17572	Y	2.7	8.1	UG/G	11/08/90
5.1	110-111	90.17572	YB	< 500.		NG/G	11/08/90
5.1	110-111	90.17572	ZN	3.4	10.2	UG/G	11/08/90
5.1	110-111	90.17572	ZR	< 500.		NG/G	11/08/90

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REPORT NUMBER: 8786 (continued)

********** HSE-9 QUALITY ASSURANCE REPORT *********

ICP MASS SCAN

Prepared by: MCW on 8-Nov-1990

REQUEST NUMBER: 10794 MATRIX: S ANALYST: Mary Carol Williams PROGRAM CODE: M211

OWNER: Max Maes GROUP: HSE-8 MAIL-STOP: K490 PHONE: 7-0817 TASK-ID: ALLA-1

CUSTOMER NUM	SAMPLE NUM	ANALYSIS	RESULT	UNCERTAINTY	UNITS	CERTIFIED VALUE	CERTIFIED VALUE UNCERTAINTY	COMPLETION DATE
00.21441	00.21441	AG	110.	330.	UG/L	100.	10.	11/08/90 UNDER CONTROL
00.21441	00.21441	AL	150.	450.	UG/L	100.	10.	11/08/90 UNDER CONTROL
0.21441	00.21441	AS	94.	280.	UG/L	100.	10.	11/08/90 UNDER CONTROL
00.21441	00.21441	AU	< 1.		UG/L	0.0		11/08/90 UNDER CONTROL
00.21441	00.21441	BA	110.	330.	UG/L	100.	10.	11/08/90 UNDER CONTROL
00.21441	00.21441	BE	100.	300.	UG/L	100.	10.	11/08/90 UNDER CONTROL
00.21441	00.21441	BI	< 1.		UG/L	0.0		11/08/90 UNDER CONTROL
00.21441	00.21441	CD	120.	360.	UG/L	100.	10.	11/08/90 UNDER CONTROL
00.21441	00.21441	CE	< 1.		UG/L	0.0		11/08/90 UNDER CONTROL
00.21441	00.21441	CO	130.	390.	UG/L	100.	10.	11/08/90 UNDER CONTROL
00.21441	00.21441	CR	140.	420.	UG/L	100.	10.	11/08/90 UNDER CONTROL
00.21441	00.21441	CS	< 1.		UG/L	0.0		11/08/90 UNDER CONTROL
00.21441	00.21441	CU	110.	330.	UG/L	100.	10.	11/08/90 UNDER CONTROL
00.21441	00.21441	DY	< 1.		UG/L	0.0		11/08/90 UNDER CONTROL
00.21441	00.21441	ER	< 1.		UG/L	0.0		11/08/90 UNDER CONTROL
.21441	00.21441	EU	< 1.		UG/L	0.0		11/08/90 UNDER CONTROL
00.21441	00.21441	GA	3.2	9.6	UG/L	0.0		11/08/90 UNDER CONTROL
00.21441	00.21441	GD	< 1.		UG/L	0.0		11/08/90

00.21441	00.21441 GE	< 1.		UG/L	0.0		UNDER CONTROL	11/08/90
00.21441	00.21441 HF	< 1.		UG/L	0.0		UNDER CONTROL	11/08/90
00.21441	00.21441 HO	< 1.		UG/L	0.0		UNDER CONTROL	11/08/90
00.21441	00.21441 IN	< 1.		UG/L	0.0		UNDER CONTROL	11/08/90
00.21441	00.21441 IR	< 1.		UG/L	0.0		UNDER CONTROL	11/08/90
00.21441	00.21441 LA	< 1.		UG/L	0.0		UNDER CONTROL	11/08/90
00.21441	00.21441 LI	< 10.		UG/L	0.0		UNDER CONTROL	11/08/90
00.21441	00.21441 LU	< 1.		UG/L	0.0		UNDER CONTROL	11/08/90
00.21441	00.21441 MN	140.	420.	UG/L	100.	10.	UNDER CONTROL	11/08/90
00.21441	00.21441 MO	110.	330.	UG/L	100.	10.	UNDER CONTROL	11/08/90
00.21441	00.21441 NB	< 1.		UG/L	0.0		UNDER CONTROL	11/08/90
00.21441	00.21441 ND	< 1.		UG/L	0.0		UNDER CONTROL	11/08/90
00.21441	00.21441 NI	120.	360.	UG/L	100.	10.	UNDER CONTROL	11/08/90
00.21441	00.21441 PB	120.	360.	UG/L	100.	10.	UNDER CONTROL	11/08/90
00.21441	00.21441 PD	< 1.		UG/L	0.0		UNDER CONTROL	11/08/90
00.21441	00.21441 PR	< 1.		UG/L	0.0		UNDER CONTROL	11/08/90
00.21441	00.21441 PT	< 1.		UG/L	0.0		UNDER CONTROL	11/08/90
00.21441	00.21441 RB	< 1.		UG/L	0.0		UNDER CONTROL	11/08/90
00.21441	00.21441 RH	< 1.		UG/L	0.0		UNDER CONTROL	11/08/90
00.21441	00.21441 RU	< 1.		UG/L	0.0		UNDER CONTROL	11/08/90
00.21441	00.21441 SB	93.	280.	UG/L	100.	10.	UNDER CONTROL	11/08/90
00.21441	00.21441 SE	92.	280.	UG/L	100.	10.	UNDER CONTROL	11/08/90
00.21441	00.21441 SM	< 1.		UG/L	0.0		UNDER CONTROL	11/08/90
00.21441	00.21441 SN	< 1.		UG/L	0.0		UNDER CONTROL	11/08/90
00.21441	00.21441 SR	< 1.		UG/L	0.0		UNDER CONTROL	11/08/90
00.21441	00.21441 TA	< 1.		UG/L	0.0		UNDER CONTROL	11/08/90
00.21441	00.21441 TB	< 1.		UG/L	0.0		UNDER CONTROL	11/08/90
00.21441	00.21441 TE	< 1.		UG/L	0.0		UNDER CONTROL	11/08/90
00.21441	00.21441 TH	< 1.		UG/L	0.0		UNDER CONTROL	11/08/90
00.21441	00.21441 TI	150.	450.	UG/L	100.	10.	UNDER CONTROL	11/08/90

00.21441	00.21441 TL	110.	330.	UG/L	100.	10.	UNDER CONTROL 11/08/90
00.21441	00.21441 TM	< 1.		UG/L	0.0		UNDER CONTROL 11/08/90
00.21441	00.21441 U	100.	300.	UG/L	100.	10.	UNDER CONTROL 11/08/90
00.21441	00.21441 V	140.	420.	UG/L	100.	10.	UNDER CONTROL 11/08/90
00.21441	00.21441 W	< 1.		UG/L	0.0		UNDER CONTROL 11/08/90
00.21441	00.21441 Y	< 1.		UG/L	0.0		UNDER CONTROL 11/08/90
00.21441	00.21441 YB	< 1.		UG/L	0.0		UNDER CONTROL 11/08/90
00.21441	00.21441 ZN	85.	260.	UG/L	100.	10.	UNDER CONTROL 11/08/90
00.21441	00.21441 ZR	< 1.		UG/L	0.0		UNDER CONTROL 11/08/90

REPORT NUMBER: 8786

Analyst	Section Leader	QA Officer
11-9-90	11-9-90	11/9/90
Date	Date	Date

The control status of the preceeding data was evaluated using the standard statistical criteria set forth in 'Quality Assurance for Health and Environmental Chemistry: 1986,' LA-11114-MS, pp. 3-4.

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REPORT NUMBER: 8571

********** HSE-9 ANALYTICAL REPORT **********

Prepared by: MAB on 26-Oct-1990

ANALYSIS: HG REQUEST NUMBER: 10817 MATRIX: SE ANALYST: Malti Bhatia PROGRAM CODE: M211

OWNER: Max Maes GROUP: HSE-8 MAIL-STOP: K490 PHONE: 7-0817 TASK-ID: ALLA-1

ANALYTICAL TECHNIQUE: CVAA ANALYTICAL PROCEDURE :

CUSTOMER NUM	SAMPLE NUM	RESULT	UNCERTAINTY	UNITS	COMPLETION DATE	COMMENT
5.1 78-79	90.17658	< 0.2		UG/L	10/26/90	
5.1 88-89	90.17659	< 0.2		UG/L	10/26/90	
5.1 93-94	90.17660	0.26	0.2	UG/L	10/26/90	
5.1 103-104	90.17661	0.33	0.2	UG/L	10/26/90	
5.1 108-109	90.17662	< 0.2		UG/L	10/26/90	

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5-1 Mercury

REPORT NUMBER: 8571 (continued)

********** HSE-9 QUALITY ASSURANCE REPORT *********

Prepared by: MAB on 26-Oct-1990

REQUEST NUMBER: 10817 MATRIX: SE ANALYST: Malti Bhatia PROGRAM CODE: M211

OWNER: Max Maes GROUP: HSE-8 MAIL-STOP: K490 PHONE: 7-0817 TASK-ID: ALLA-1

CUSTOMER NUM	SAMPLE NUM	RESULT	UNCERTAINTY	UNITS	CERTIFIED VALUE	CERTIFIED VALUE UNCERTAINTY	COMPLETION DATE	COMMENT
00.20087	00.20087	4.2	0.4	UG/L	4.	0.4	10/26/90	UNDER CONTROL

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

SAMPLE NUM	RESULT	UNCERTAINTY	UNITS	CERTIFIED VALUE	CERTIFIED VALUE UNCERTAINTY	COMPLETION DATE	COMMENT
90.17664	0.86	0.2	UG/L	1.	0.1	10/26/90	UNDER CONTROL

REPORT NUMBER: 8571

MAB
Analyst

MAB
Section Leader

MAB
QA Officer

10/26/90
Date

10-26-90
Date

10-26-90
Date

The control status of the preceeding data was evaluated using the standard statistical criteria set forth in 'Quality Assurance for Health and Environmental Chemistry: 1986,' LA-11114-MS, pp. 3-4.

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REPORT NUMBER: 8736

********** HSE-9 ANALYTICAL REPORT **********

Prepared by: APEL on 6-Nov-1990

REQUEST NUMBER: 10794 MATRIX: SE ANALYST: Charles T. Apel PROGRAM CODE: M211

OWNER: Max Maes GROUP: HSE-8 MAIL-STOP: K490 PHONE: 7-0817 TASK-ID: ALLA-1

CUSTOMER NUM	SAMPLE NUM	ANALYSIS	RESULT	UNCERTAINTY	UNITS	COMPLETION DATE	COMMENT
5.1 53-54'	90.17523	BA	0.21	0.02	MG/L	11/01/90	TCLP
5.1 53-54'	90.17523	CD	< 0.002		MG/L	11/01/90	TCLP
5.1 53-54'	90.17523	CR	< 0.01		MG/L	11/01/90	TCLP
5.1 53-54'	90.17523	PB	< 0.02		MG/L	11/01/90	TCLP
5.1 58-59'	90.17524	BA	0.22	0.02	MG/L	11/01/90	TCLP
5.1 58-59'	90.17524	CD	< 0.002		MG/L	11/01/90	TCLP
5.1 58-59'	90.17524	CR	< 0.01		MG/L	11/01/90	TCLP
5.1 58-59'	90.17524	PB	< 0.02		MG/L	11/01/90	TCLP
5.1 63-64'	90.17525	BA	0.25	0.03	MG/L	11/01/90	TCLP
5.1 63-64'	90.17525	CD	< 0.002		MG/L	11/01/90	TCLP
5.1 63-64'	90.17525	CR	< 0.01		MG/L	11/01/90	TCLP
5.1 63-64'	90.17525	PB	< 0.02		MG/L	11/01/90	TCLP
5.1 68-69'	90.17526	BA	0.25	0.03	MG/L	11/01/90	TCLP
5.1 68-69'	90.17526	CD	< 0.002		MG/L	11/01/90	TCLP
5.1 68-69'	90.17526	CR	< 0.01		MG/L	11/01/90	TCLP
5.1 68-69'	90.17526	PB	< 0.02		MG/L	11/01/90	TCLP
5.1 73-74'	90.17527	BA	0.25	0.03	MG/L	11/01/90	TCLP
5.1 73-74'	90.17527	CD	< 0.002		MG/L	11/01/90	TCLP
5.1 73-74'	90.17527	CR	< 0.01		MG/L	11/01/90	TCLP
5.1 73-74'	90.17527	PB	< 0.02		MG/L	11/01/90	TCLP
5.1 78-79'	90.17528	BA	0.24	0.03	MG/L	11/01/90	TCLP
5.1 78-79'	90.17528	CD	< 0.002		MG/L	11/01/90	TCLP
5.1 78-79'	90.17528	CR	< 0.01		MG/L	11/01/90	TCLP
5.1 78-79'	90.17528	PB	< 0.02		MG/L	11/01/90	TCLP
5.1 83-84'	90.17529	BA	0.23	0.02	MG/L	11/01/90	TCLP
5.1 83-84'	90.17529	CD	< 0.002		MG/L	11/01/90	TCLP
5.1 83-84'	90.17529	CR	< 0.01		MG/L	11/01/90	TCLP
5.1 83-84'	90.17529	PB	< 0.02		MG/L	11/01/90	TCLP
5.1 88-89'	90.17530	BA	0.22	0.02	MG/L	11/01/90	TCLP
5.1 88-89'	90.17530	CD	< 0.002		MG/L	11/01/90	TCLP
5.1 88-89'	90.17530	CR	< 0.01		MG/L	11/01/90	TCLP
5.1 88-89'	90.17530	PB	< 0.02		MG/L	11/01/90	TCLP
5.1 93-94'	90.17531	BA	1.4	0.14	MG/L	11/01/90	TCLP
5.1 93-94'	90.17531	CD	< 0.002		MG/L	11/01/90	TCLP
5.1 93-94'	90.17531	CR	< 0.01		MG/L	11/01/90	TCLP
5.1 93-94'	90.17531	PB	< 0.02		MG/L	11/01/90	TCLP
5.1 95S	90.17532	BA	0.09	0.009	MG/L	11/01/90	TCLP
5.1 95S	90.17532	CD	< 0.002		MG/L	11/01/90	TCLP
5.1 95S	90.17532	CR	< 0.01		MG/L	11/01/90	TCLP
5.1 95S	90.17532	PB	< 0.02		MG/L	11/01/90	TCLP

8.6.2 Hole 5.9

REPORT NUMBER: 8173

********** HSE-9 ANALYTICAL REPORT **********

Prepared by: MCW on 17-Sep-1990

ICP MASS SCAN

REQUEST NUMBER: 10602 MATRIX: S ANALYST: Mary Carol Williams PROGRAM CODE: M211

OWNER: Max Maes GROUP: HSE-8 MAIL-STOP: K490 PHONE: 7-0817 TASK-ID: TASK 1

CUSTOMER NUMBER	SAMPLE NUMBER	ANALYSIS	RESULT	UNCERTAINTY	UNITS	COMPLETION DATE	COMMENT
5.9A @ 4	90.15881	AG	< 500.			NG/G	9/17/90
5.9A @ 4	90.15881	AS	< 500.			NG/G	9/17/90
5.9A @ 4	90.15881	AU	< 500.			NG/G	9/17/90
5.9A @ 4	90.15881	B	< 5000.			NG/G	9/17/90
5.9A @ 4	90.15881	BA	19.	57.		UG/G	9/17/90
5.9A @ 4	90.15881	BE	< 5000.			NG/G	9/17/90
5.9A @ 4	90.15881	BI	< 500.			NG/G	9/17/90
5.9A @ 4	90.15881	CD	< 500.			NG/G	9/17/90
5.9A @ 4	90.15881	CE	5.5	16.5		UG/G	9/17/90
5.9A @ 4	90.15881	CO	< 500.			NG/G	9/17/90
5.9A @ 4	90.15881	CR	< 500.			NG/G	9/17/90
5.9A @ 4	90.15881	CS	< 500.			NG/G	9/17/90
5.9A @ 4	90.15881	CU	< 500.			NG/G	9/17/90
5.9A @ 4	90.15881	DY	620.	1900.		NG/G	9/17/90
5.9A @ 4	90.15881	ER	< 500.			NG/G	9/17/90
5.9A @ 4	90.15881	EU	< 500.			NG/G	9/17/90
5.9A @ 4	90.15881	GA	< 500.			NG/G	9/17/90
5.9A @ 4	90.15881	GD	1.	3.		UG/G	9/17/90
5.9A @ 4	90.15881	GE	< 500.			NG/G	9/17/90
5.9A @ 4	90.15881	HF	< 500.			NG/G	9/17/90
5.9A @ 4	90.15881	HO	< 500.			NG/G	9/17/90
5.9A @ 4	90.15881	IN	< 500.			NG/G	9/17/90
5.9A @ 4	90.15881	IR	< 500.			NG/G	9/17/90
5.9A @ 4	90.15881	LA	3.2	9.6		UG/G	9/17/90
5.9A @ 4	90.15881	LI	< 5000.			NG/G	9/17/90
5.9A @ 4	90.15881	LU	< 500.			NG/G	9/17/90
5.9A @ 4	90.15881	MN	54.	160.		UG/G	9/17/90
5.9A @ 4	90.15881	MO	< 500.			NG/G	9/17/90
5.9A @ 4	90.15881	NB	< 500.			NG/G	9/17/90
5.9A @ 4	90.15881	ND	3.8	11.4		UG/G	9/17/90
5.9A @ 4	90.15881	NI	< 500.			NG/G	9/17/90
5.9A @ 4	90.15881	PB	2.6	7.8		UG/G	9/17/90
5.9A @ 4	90.15881	PD	< 500.			NG/G	9/17/90
5.9A @ 4	90.15881	PR	1.1	3.3		UG/G	9/17/90
5.9A @ 4	90.15881	PT	< 500.			NG/G	9/17/90
5.9A @ 4	90.15881	RB	< 500.			NG/G	9/17/90
5.9A @ 4	90.15881	RH	< 500.			NG/G	9/17/90
5.9A @ 4	90.15881	RU	< 500.			NG/G	9/17/90
5.9A @ 4	90.15881	SB	< 500.			NG/G	9/17/90

5.9A @ 4	90.15881	SE	< 5000.		NG/G	9/17/90
5.9A @ 4	90.15881	SM	960.	2900.	NG/G	9/17/90
5.9A @ 4	90.15881	SN	< 500.		NG/G	9/17/90
5.9A @ 4	90.15881	SR	1.6	4.8	UG/G	9/17/90
5.9A @ 4	90.15881	TA	< 500.		NG/G	9/17/90
5.9A @ 4	90.15881	TB	< 500.		NG/G	9/17/90
5.9A @ 4	90.15881	TE	< 500.		NG/G	9/17/90
5.9A @ 4	90.15881	TH	< 500.		NG/G	9/17/90
5.9A @ 4	90.15881	TI	< 5000.		NG/G	9/17/90
5.9A @ 4	90.15881	TL	< 500.		NG/G	9/17/90
5.9A @ 4	90.15881	TM	< 500.		NG/G	9/17/90
5.9A @ 4	90.15881	U	< 500.		NG/G	9/17/90
5.9A @ 4	90.15881	V	< 5000.		NG/G	9/17/90
5.9A @ 4	90.15881	W	< 500.		NG/G	9/17/90
5.9A @ 4	90.15881	Y	1.3	3.9	UG/G	9/17/90
5.9A @ 4	90.15881	YB	< 500.		NG/G	9/17/90
5.9A @ 4	90.15881	ZN	2.2	6.6	UG/G	9/17/90
5.9A @ 4	90.15881	ZR	< 500.		NG/G	9/17/90

5.9A @ 14	90.15883	SE	< 5000.		NG/G	9/17/90
5.9A @ 14	90.15883	SM	< 500.		NG/G	9/17/90
5.9A @ 14	90.15883	SN	< 500.		NG/G	9/17/90
5.9A @ 14	90.15883	SR	< 500.		NG/G	9/17/90
5.9A @ 14	90.15883	TA	< 500.		NG/G	9/17/90
5.9A @ 14	90.15883	TB	< 500.		NG/G	9/17/90
5.9A @ 14	90.15883	TE	< 500.		NG/G	9/17/90
5.9A @ 14	90.15883	TH	< 500.		NG/G	9/17/90
5.9A @ 14	90.15883	TI	< 5000.		NG/G	9/17/90
5.9A @ 14	90.15883	TL	< 500.		NG/G	9/17/90
5.9A @ 14	90.15883	TM	< 500.		NG/G	9/17/90
5.9A @ 14	90.15883	U	< 500.		NG/G	9/17/90
5.9A @ 14	90.15883	V	< 5000.		NG/G	9/17/90
5.9A @ 14	90.15883	W	< 500.		NG/G	9/17/90
5.9A @ 14	90.15883	Y	< 500.		NG/G	9/17/90
5.9A @ 14	90.15883	YB	< 500.		NG/G	9/17/90
5.9A @ 14	90.15883	ZN	720.	2200.	NG/G	9/17/90
5.9A @ 14	90.15883	ZR	< 500.		NG/G	9/17/90

REPORT NUMBER: 8173

********** HSE-9 ANALYTICAL REPORT **********

Prepared by: MCW on 17-Sep-1990

ICP MASS SCAN

REQUEST NUMBER: 10602 MATRIX: S ANALYST: Mary Carol Williams PROGRAM CODE: M211

OWNER: Max Maes GROUP: HSE-8 MAIL-STOP: K490 PHONE: 7-0817 TASK-ID: TASK 1

CUSTOMER NUMBER	SAMPLE NUMBER	ANALYSIS	RESULT	UNCERTAINTY	UNITS	COMPLETION DATE	COMMENT
5.9A @ 9	90.15882	AG	< 500.		NG/G	9/17/90	
5.9A @ 9	90.15882	AS	< 500.		NG/G	9/17/90	
5.9A @ 9	90.15882	AU	< 500.		NG/G	9/17/90	
5.9A @ 9	90.15882	B	< 5000.		NG/G	9/17/90	
5.9A @ 9	90.15882	BA	11.	33.	UG/G	9/17/90	
5.9A @ 9	90.15882	BE	< 5000.		NG/G	9/17/90	
5.9A @ 9	90.15882	BI	< 500.		NG/G	9/17/90	
5.9A @ 9	90.15882	CD	< 500.		NG/G	9/17/90	
5.9A @ 9	90.15882	CE	3.2	9.6	UG/G	9/17/90	
5.9A @ 9	90.15882	CO	< 500.		NG/G	9/17/90	
5.9A @ 9	90.15882	CR	< 500.		NG/G	9/17/90	
5.9A @ 9	90.15882	CS	< 500.		NG/G	9/17/90	
5.9A @ 9	90.15882	CU	< 500.		NG/G	9/17/90	
5.9A @ 9	90.15882	DY	560.	1700.	NG/G	9/17/90	
5.9A @ 9	90.15882	ER	< 500.		NG/G	9/17/90	
5.9A @ 9	90.15882	EU	< 500.		NG/G	9/17/90	
5.9A @ 9	90.15882	GA	< 500.		NG/G	9/17/90	
5.9A @ 9	90.15882	GD	< 500.		NG/G	9/17/90	
5.9A @ 9	90.15882	GE	< 500.		NG/G	9/17/90	
5.9A @ 9	90.15882	HF	< 500.		NG/G	9/17/90	
5.9A @ 9	90.15882	HO	< 500.		NG/G	9/17/90	
5.9A @ 9	90.15882	IN	< 500.		NG/G	9/17/90	
5.9A @ 9	90.15882	IR	< 500.		NG/G	9/17/90	
5.9A @ 9	90.15882	LA	2.2	6.6	UG/G	9/17/90	
5.9A @ 9	90.15882	LI	< 5000.		NG/G	9/17/90	
5.9A @ 9	90.15882	LU	< 500.		NG/G	9/17/90	
5.9A @ 9	90.15882	MN	27.	81.	UG/G	9/17/90	
5.9A @ 9	90.15882	MO	< 500.		NG/G	9/17/90	
5.9A @ 9	90.15882	NB	< 500.		NG/G	9/17/90	
5.9A @ 9	90.15882	ND	2.7	8.1	UG/G	9/17/90	
5.9A @ 9	90.15882	NI	530.	1600.	NG/G	9/17/90	
5.9A @ 9	90.15882	PB	2.2	6.6	UG/G	9/17/90	
5.9A @ 9	90.15882	PD	< 500.		NG/G	9/17/90	
5.9A @ 9	90.15882	PR	800.	2400.	NG/G	9/17/90	
5.9A @ 9	90.15882	PT	< 500.		NG/G	9/17/90	
5.9A @ 9	90.15882	RB	< 500.		NG/G	9/17/90	
5.9A @ 9	90.15882	RH	< 500.		NG/G	9/17/90	
5.9A @ 9	90.15882	RU	< 500.		NG/G	9/17/90	
5.9A @ 9	90.15882	SB	< 500.		NG/G	9/17/90	

5.9A @ 9	90.15882	SE	< 5000.		NG/G	9/17/90
5.9A @ 9	90.15882	SM	770.	2300.	NG/G	9/17/90
5.9A @ 9	90.15882	SN	< 500.		NG/G	9/17/90
5.9A @ 9	90.15882	SR	1.	3.	UG/G	9/17/90
5.9A @ 9	90.15882	TA	< 500.		NG/G	9/17/90
5.9A @ 9	90.15882	TB	< 500.		NG/G	9/17/90
5.9A @ 9	90.15882	TE	< 500.		NG/G	9/17/90
5.9A @ 9	90.15882	TH	< 500.		NG/G	9/17/90
5.9A @ 9	90.15882	TI	< 5000.		NG/G	9/17/90
5.9A @ 9	90.15882	TL	< 500.		NG/G	9/17/90
5.9A @ 9	90.15882	TM	< 500.		NG/G	9/17/90
5.9A @ 9	90.15882	U	< 500.		NG/G	9/17/90
5.9A @ 9	90.15882	V	< 5000.		NG/G	9/17/90
5.9A @ 9	90.15882	W	< 500.		NG/G	9/17/90
5.9A @ 9	90.15882	Y	900.	2700.	NG/G	9/17/90
5.9A @ 9	90.15882	YB	< 500.		NG/G	9/17/90
5.9A @ 9	90.15882	ZN	2.5	7.5	UG/G	9/17/90
5.9A @ 9	90.15882	ZR	< 500.		NG/G	9/17/90

REPORT NUMBER: 8173

********** HSE-9 ANALYTICAL REPORT **********

Prepared by: MCW on 17-Sep-1990

ICP MASS SCAN

REQUEST NUMBER: 10602 MATRIX: S ANALYST: Mary Carol Williams PROGRAM CODE: M211

OWNER: Max Maes GROUP: HSE-8 MAIL-STOP: K490 PHONE: 7-0817 TASK-ID: TASK 1

CUSTOMER NUMBER	SAMPLE NUMBER	ANALYSIS	RESULT	UNCERTAINTY	UNITS	COMPLETION DATE	COMMENT
5.9A @ 14	90.15883	AG	< 500.			NG/G	9/17/90
5.9A @ 14	90.15883	AS	< 500.			NG/G	9/17/90
5.9A @ 14	90.15883	AU	< 500.			NG/G	9/17/90
5.9A @ 14	90.15883	B	< 5000.			NG/G	9/17/90
5.9A @ 14	90.15883	BA	8.	24.		UG/G	9/17/90
5.9A @ 14	90.15883	BE	< 5000.			NG/G	9/17/90
5.9A @ 14	90.15883	BI	< 500.			NG/G	9/17/90
5.9A @ 14	90.15883	CD	< 500.			NG/G	9/17/90
5.9A @ 14	90.15883	CE	2.4	7.2		UG/G	9/17/90
5.9A @ 14	90.15883	CO	< 500.			NG/G	9/17/90
5.9A @ 14	90.15883	CR	< 500.			NG/G	9/17/90
5.9A @ 14	90.15883	CS	< 500.			NG/G	9/17/90
5.9A @ 14	90.15883	CU	< 500.			NG/G	9/17/90
5.9A @ 14	90.15883	DY	< 500.			NG/G	9/17/90
5.9A @ 14	90.15883	ER	< 500.			NG/G	9/17/90
5.9A @ 14	90.15883	EU	< 500.			NG/G	9/17/90
5.9A @ 14	90.15883	GA	< 500.			NG/G	9/17/90
5.9A @ 14	90.15883	GD	< 500.			NG/G	9/17/90
5.9A @ 14	90.15883	GE	< 500.			NG/G	9/17/90
5.9A @ 14	90.15883	HF	< 500.			NG/G	9/17/90
5.9A @ 14	90.15883	HO	< 500.			NG/G	9/17/90
5.9A @ 14	90.15883	IN	< 500.			NG/G	9/17/90
5.9A @ 14	90.15883	IR	< 500.			NG/G	9/17/90
5.9A @ 14	90.15883	LA	1.4	4.2		UG/G	9/17/90
5.9A @ 14	90.15883	LI	< 5000.			NG/G	9/17/90
5.9A @ 14	90.15883	LU	< 500.			NG/G	9/17/90
5.9A @ 14	90.15883	MN	18.	54.		UG/G	9/17/90
5.9A @ 14	90.15883	MO	< 500.			NG/G	9/17/90
5.9A @ 14	90.15883	NB	< 500.			NG/G	9/17/90
5.9A @ 14	90.15883	ND	1.9	5.7		UG/G	9/17/90
5.9A @ 14	90.15883	NI	< 500.			NG/G	9/17/90
5.9A @ 14	90.15883	PB	1.8	5.4		UG/G	9/17/90
5.9A @ 14	90.15883	PD	< 500.			NG/G	9/17/90
5.9A @ 14	90.15883	PR	510.	1500.		NG/G	9/17/90
5.9A @ 14	90.15883	PT	< 500.			NG/G	9/17/90
5.9A @ 14	90.15883	RB	< 500.			NG/G	9/17/90
5.9A @ 14	90.15883	RH	< 500.			NG/G	9/17/90
5.9A @ 14	90.15883	RU	< 500.			NG/G	9/17/90
5.9A @ 14	90.15883	SB	< 500.			NG/G	9/17/90

5.9A @ 19	90.15884	SE	< 5000.		NG/G	9/17/90
5.9A @ 19	90.15884	SM	< 500.		NG/G	9/17/90
5.9A @ 19	90.15884	SN	< 500.		NG/G	9/17/90
5.9A @ 19	90.15884	SR	< 500.		NG/G	9/17/90
5.9A @ 19	90.15884	TA	< 500.		NG/G	9/17/90
5.9A @ 19	90.15884	TB	< 500.		NG/G	9/17/90
5.9A @ 19	90.15884	TE	< 500.		NG/G	9/17/90
5.9A @ 19	90.15884	TH	< 500.		NG/G	9/17/90
5.9A @ 19	90.15884	TI	< 5000.		NG/G	9/17/90
5.9A @ 19	90.15884	TL	< 500.		NG/G	9/17/90
5.9A @ 19	90.15884	TM	< 500.		NG/G	9/17/90
5.9A @ 19	90.15884	U	< 500.		NG/G	9/17/90
5.9A @ 19	90.15884	V	< 5000.		NG/G	9/17/90
5.9A @ 19	90.15884	W	< 500.		NG/G	9/17/90
5.9A @ 19	90.15884	Y	< 500.		NG/G	9/17/90
5.9A @ 19	90.15884	YB	< 500.		NG/G	9/17/90
5.9A @ 19	90.15884	ZN	1.4	4.2	UG/G	9/17/90
5.9A @ 19	90.15884	ZR	< 500.		NG/G	9/17/90

REPORT NUMBER: 8173

********** HSE-9 ANALYTICAL REPORT **********

Prepared by: MCW on 17-Sep-1990

ICP MASS SCAN

REQUEST NUMBER: 10602 MATRIX: S ANALYST: Mary Carol Williams PROGRAM CODE: M211

OWNER: Max Maes GROUP: HSE-8 MAIL-STOP: K490 PHONE: 7-0817 TASK-ID: TASK 1

CUSTOMER NUMBER	SAMPLE NUMBER	ANALYSIS	RESULT	UNCERTAINTY	UNITS	COMPLETION DATE	COMMENT
5.9A @ 24	90.15885	AG	< 500.			NG/G	9/17/90
5.9A @ 24	90.15885	AS	< 500.			NG/G	9/17/90
5.9A @ 24	90.15885	AU	< 500.			NG/G	9/17/90
5.9A @ 24	90.15885	B	< 5000.			NG/G	9/17/90
5.9A @ 24	90.15885	BA	4.2		12.6	UG/G	9/17/90
5.9A @ 24	90.15885	BE	< 5000.			NG/G	9/17/90
5.9A @ 24	90.15885	BI	< 500.			NG/G	9/17/90
5.9A @ 24	90.15885	CD	< 500.			NG/G	9/17/90
5.9A @ 24	90.15885	CE	1.5		4.5	UG/G	9/17/90
5.9A @ 24	90.15885	CO	< 500.			NG/G	9/17/90
5.9A @ 24	90.15885	CR	< 500.			NG/G	9/17/90
5.9A @ 24	90.15885	CS	< 500.			NG/G	9/17/90
5.9A @ 24	90.15885	CU	< 500.			NG/G	9/17/90
5.9A @ 24	90.15885	DY	< 500.			NG/G	9/17/90
5.9A @ 24	90.15885	ER	< 500.			NG/G	9/17/90
5.9A @ 24	90.15885	EU	< 500.			NG/G	9/17/90
5.9A @ 24	90.15885	GA	< 500.			NG/G	9/17/90
5.9A @ 24	90.15885	GD	< 500.			NG/G	9/17/90
5.9A @ 24	90.15885	GE	< 500.			NG/G	9/17/90
5.9A @ 24	90.15885	HF	< 500.			NG/G	9/17/90
5.9A @ 24	90.15885	HO	< 500.			NG/G	9/17/90
5.9A @ 24	90.15885	IN	< 500.			NG/G	9/17/90
5.9A @ 24	90.15885	IR	< 500.			NG/G	9/17/90
5.9A @ 24	90.15885	LA	950.		2900.	NG/G	9/17/90
5.9A @ 24	90.15885	LI	< 5000.			NG/G	9/17/90
5.9A @ 24	90.15885	LU	< 500.			NG/G	9/17/90
5.9A @ 24	90.15885	MN	14.		42.	UG/G	9/17/90
5.9A @ 24	90.15885	MO	< 500.			NG/G	9/17/90
5.9A @ 24	90.15885	NB	< 500.			NG/G	9/17/90
5.9A @ 24	90.15885	ND	1.3		3.9	UG/G	9/17/90
5.9A @ 24	90.15885	NI	< 500.			NG/G	9/17/90
5.9A @ 24	90.15885	PB	1.6		4.8	UG/G	9/17/90
5.9A @ 24	90.15885	PD	< 500.			NG/G	9/17/90
5.9A @ 24	90.15885	PR	< 500.			NG/G	9/17/90
5.9A @ 24	90.15885	PT	< 500.			NG/G	9/17/90
5.9A @ 24	90.15885	RB	< 500.			NG/G	9/17/90
5.9A @ 24	90.15885	RH	< 500.			NG/G	9/17/90
5.9A @ 24	90.15885	RU	< 500.			NG/G	9/17/90
5.9A @ 24	90.15885	SB	< 500.			NG/G	9/17/90

5.9A @ 24	90.15885	SE	< 5000.		NG/G	9/17/90
5.9A @ 24	90.15885	SM	< 500.		NG/G	9/17/90
5.9A @ 24	90.15885	SN	< 500.		NG/G	9/17/90
5.9A @ 24	90.15885	SR	< 500.		NG/G	9/17/90
5.9A @ 24	90.15885	TA	< 500.		NG/G	9/17/90
5.9A @ 24	90.15885	TB	< 500.		NG/G	9/17/90
5.9A @ 24	90.15885	TE	< 500.		NG/G	9/17/90
5.9A @ 24	90.15885	TH	< 500.		NG/G	9/17/90
5.9A @ 24	90.15885	TI	< 5000.		NG/G	9/17/90
5.9A @ 24	90.15885	TL	< 500.		NG/G	9/17/90
5.9A @ 24	90.15885	TM	< 500.		NG/G	9/17/90
5.9A @ 24	90.15885	U	< 500.		NG/G	9/17/90
5.9A @ 24	90.15885	V	< 5000.		NG/G	9/17/90
5.9A @ 24	90.15885	W	< 500.		NG/G	9/17/90
5.9A @ 24	90.15885	Y	< 500.		NG/G	9/17/90
5.9A @ 24	90.15885	YB	< 500.		NG/G	9/17/90
5.9A @ 24	90.15885	ZN	860.	2600.	NG/G	9/17/90
5.9A @ 24	90.15885	ZR	< 500.		NG/G	9/17/90

REPORT NUMBER: 8173

********** HSE-9 ANALYTICAL REPORT **********

Prepared by: MCW on 17-Sep-1990

ICP MASS SCAN

REQUEST NUMBER: 10602 MATRIX: S ANALYST: Mary Carol Williams PROGRAM CODE: M211

OWNER: Max Maes GROUP: HSE-8 MAIL-STOP: K490 PHONE: 7-0817 TASK-ID: TASK 1

CUSTOMER NUMBER	SAMPLE NUMBER	ANALYSIS	RESULT	UNCERTAINTY	UNITS	COMPLETION DATE	COMMENT
5.9A @ 29	90.15886	AG	< 500.			NG/G	9/17/90
5.9A @ 29	90.15886	AS	< 500.			NG/G	9/17/90
5.9A @ 29	90.15886	AU	< 500.			NG/G	9/17/90
5.9A @ 29	90.15886	B	< 5000.			NG/G	9/17/90
5.9A @ 29	90.15886	BA	21.	63.		UG/G	9/17/90
5.9A @ 29	90.15886	BE	< 5000.			NG/G	9/17/90
5.9A @ 29	90.15886	BI	< 500.			NG/G	9/17/90
5.9A @ 29	90.15886	CD	< 500.			NG/G	9/17/90
5.9A @ 29	90.15886	CE	4.	12.		UG/G	9/17/90
5.9A @ 29	90.15886	CO	< 500.			NG/G	9/17/90
5.9A @ 29	90.15886	CR	< 500.			NG/G	9/17/90
5.9A @ 29	90.15886	CS	< 500.			NG/G	9/17/90
5.9A @ 29	90.15886	CU	< 500.			NG/G	9/17/90
5.9A @ 29	90.15886	DY	1.3	3.9		UG/G	9/17/90
5.9A @ 29	90.15886	ER	540.	1600.		NG/G	9/17/90
5.9A @ 29	90.15886	EU	< 500.			NG/G	9/17/90
5.9A @ 29	90.15886	GA	< 500.			NG/G	9/17/90
5.9A @ 29	90.15886	GD	1.3	3.9		UG/G	9/17/90
5.9A @ 29	90.15886	GE	< 500.			NG/G	9/17/90
5.9A @ 29	90.15886	HF	< 500.			NG/G	9/17/90
5.9A @ 29	90.15886	HO	< 500.			NG/G	9/17/90
5.9A @ 29	90.15886	IN	< 500.			NG/G	9/17/90
5.9A @ 29	90.15886	IR	< 500.			NG/G	9/17/90
5.9A @ 29	90.15886	LA	3.8	11.4		UG/G	9/17/90
5.9A @ 29	90.15886	LI	< 5000.			NG/G	9/17/90
5.9A @ 29	90.15886	LU	< 500.			NG/G	9/17/90
5.9A @ 29	90.15886	MN	28.	84.		UG/G	9/17/90
5.9A @ 29	90.15886	MO	< 500.			NG/G	9/17/90
5.9A @ 29	90.15886	NB	< 500.			NG/G	9/17/90
5.9A @ 29	90.15886	ND	6.	18.		UG/G	9/17/90
5.9A @ 29	90.15886	NI	< 500.			NG/G	9/17/90
5.9A @ 29	90.15886	PB	3.5	10.5		UG/G	9/17/90
5.9A @ 29	90.15886	PD	< 500.			NG/G	9/17/90
5.9A @ 29	90.15886	PR	1.3	3.9		UG/G	9/17/90
5.9A @ 29	90.15886	PT	< 500.			NG/G	9/17/90
5.9A @ 29	90.15886	RB	< 500.			NG/G	9/17/90
5.9A @ 29	90.15886	RH	< 500.			NG/G	9/17/90
5.9A @ 29	90.15886	RU	< 500.			NG/G	9/17/90
5.9A @ 29	90.15886	SB	< 500.			NG/G	9/17/90

5.9A @ 29	90.15886	SE	< 5000.		NG/G	9/17/90
5.9A @ 29	90.15886	SM	1.2	3.6	UG/G	9/17/90
5.9A @ 29	90.15886	SN	< 500.		NG/G	9/17/90
5.9A @ 29	90.15886	SR	1.6	4.8	UG/G	9/17/90
5.9A @ 29	90.15886	TA	< 500.		NG/G	9/17/90
5.9A @ 29	90.15886	TB	< 500.		NG/G	9/17/90
5.9A @ 29	90.15886	TE	< 500.		NG/G	9/17/90
5.9A @ 29	90.15886	TH	< 500.		NG/G	9/17/90
5.9A @ 29	90.15886	TI	< 5000.		NG/G	9/17/90
5.9A @ 29	90.15886	TL	< 500.		NG/G	9/17/90
5.9A @ 29	90.15886	TM	< 500.		NG/G	9/17/90
5.9A @ 29	90.15886	U	< 500.		NG/G	9/17/90
5.9A @ 29	90.15886	V	< 5000.		NG/G	9/17/90
5.9A @ 29	90.15886	W	< 500.		NG/G	9/17/90
5.9A @ 29	90.15886	Y	2.1	6.3	UG/G	9/17/90
5.9A @ 29	90.15886	YB	< 500.		NG/G	9/17/90
5.9A @ 29	90.15886	ZN	1.3	3.9	UG/G	9/17/90
5.9A @ 29	90.15886	ZR	< 500.		NG/G	9/17/90

REPORT NUMBER: 8173

********** HSE-9 ANALYTICAL REPORT **********

Prepared by: MCW on 17-Sep-1990

ICP MASS SCAN

REQUEST NUMBER: 10602 MATRIX: S ANALYST: Mary Carol Williams PROGRAM CODE: M211

OWNER: Max Maes GROUP: HSE-8 MAIL-STOP: K490 PHONE: 7-0817 TASK-ID: TASK 1

CUSTOMER NUMBER	SAMPLE NUMBER	ANALYSIS	RESULT	UNCERTAINTY	UNITS	COMPLETION DATE	COMMENT
5.9A @ 34	90.15887	AG	< 500.		NG/G	9/17/90	
5.9A @ 34	90.15887	AS	< 500.		NG/G	9/17/90	
5.9A @ 34	90.15887	AU	< 500.		NG/G	9/17/90	
5.9A @ 34	90.15887	B	< 5000.		NG/G	9/17/90	
5.9A @ 34	90.15887	BA	6.4	19.2	UG/G	9/17/90	
5.9A @ 34	90.15887	BE	< 5000.		NG/G	9/17/90	
5.9A @ 34	90.15887	BI	< 500.		NG/G	9/17/90	
5.9A @ 34	90.15887	CD	< 500.		NG/G	9/17/90	
5.9A @ 34	90.15887	CE	2.3	6.9	UG/G	9/17/90	
5.9A @ 34	90.15887	CO	< 500.		NG/G	9/17/90	
5.9A @ 34	90.15887	CR	< 500.		NG/G	9/17/90	
5.9A @ 34	90.15887	CS	< 500.		NG/G	9/17/90	
5.9A @ 34	90.15887	CU	< 500.		NG/G	9/17/90	
5.9A @ 34	90.15887	DY	< 500.		NG/G	9/17/90	
5.9A @ 34	90.15887	ER	< 500.		NG/G	9/17/90	
5.9A @ 34	90.15887	EU	< 500.		NG/G	9/17/90	
5.9A @ 34	90.15887	GA	< 500.		NG/G	9/17/90	
5.9A @ 34	90.15887	GD	670.	2000.	NG/G	9/17/90	
5.9A @ 34	90.15887	GE	< 500.		NG/G	9/17/90	
5.9A @ 34	90.15887	HF	< 500.		NG/G	9/17/90	
5.9A @ 34	90.15887	HO	< 500.		NG/G	9/17/90	
5.9A @ 34	90.15887	IN	< 500.		NG/G	9/17/90	
5.9A @ 34	90.15887	IR	< 500.		NG/G	9/17/90	
5.9A @ 34	90.15887	LA	1.5	4.5	UG/G	9/17/90	
5.9A @ 34	90.15887	LI	< 5000.		NG/G	9/17/90	
5.9A @ 34	90.15887	LU	< 500.		NG/G	9/17/90	
5.9A @ 34	90.15887	MN	17.	51.	UG/G	9/17/90	
5.9A @ 34	90.15887	MO	< 500.		NG/G	9/17/90	
5.9A @ 34	90.15887	NB	< 500.		NG/G	9/17/90	
5.9A @ 34	90.15887	ND	2.2	6.6	UG/G	9/17/90	
5.9A @ 34	90.15887	NI	< 500.		NG/G	9/17/90	
5.9A @ 34	90.15887	PB	2.2	6.6	UG/G	9/17/90	
5.9A @ 34	90.15887	PD	< 500.		NG/G	9/17/90	
5.9A @ 34	90.15887	PR	520.	1600.	NG/G	9/17/90	
5.9A @ 34	90.15887	PT	< 500.		NG/G	9/17/90	
5.9A @ 34	90.15887	RB	< 500.		NG/G	9/17/90	
5.9A @ 34	90.15887	RH	< 500.		NG/G	9/17/90	
5.9A @ 34	90.15887	RU	< 500.		NG/G	9/17/90	
5.9A @ 34	90.15887	SB	< 500.		NG/G	9/17/90	

5.9A @ 34	90.15887	SE	< 5000.		NG/G	9/17/90
5.9A @ 34	90.15887	SM	610.	1800.	NG/G	9/17/90
5.9A @ 34	90.15887	SN	< 500.		NG/G	9/17/90
5.9A @ 34	90.15887	SR	< 500.		NG/G	9/17/90
5.9A @ 34	90.15887	TA	< 500.		NG/G	9/17/90
5.9A @ 34	90.15887	TB	< 500.		NG/G	9/17/90
5.9A @ 34	90.15887	TE	< 500.		NG/G	9/17/90
5.9A @ 34	90.15887	TH	< 500.		NG/G	9/17/90
5.9A @ 34	90.15887	TI	< 5000.		NG/G	9/17/90
5.9A @ 34	90.15887	TL	< 500.		NG/G	9/17/90
5.9A @ 34	90.15887	TM	< 500.		NG/G	9/17/90
5.9A @ 34	90.15887	U	< 500.		NG/G	9/17/90
5.9A @ 34	90.15887	V	< 5000.		NG/G	9/17/90
5.9A @ 34	90.15887	W	< 500.		NG/G	9/17/90
5.9A @ 34	90.15887	Y	590.	1800.	NG/G	9/17/90
5.9A @ 34	90.15887	YB	< 500.		NG/G	9/17/90
5.9A @ 34	90.15887	ZN	1.6	4.8	UG/G	9/17/90
5.9A @ 34	90.15887	ZR	< 500.		NG/G	9/17/90

REPORT NUMBER: 8173

********** HSE-9 ANALYTICAL REPORT **********

Prepared by: MCW on 17-Sep-1990

ICP MASS SCAN

REQUEST NUMBER: 10602 MATRIX: S ANALYST: Mary Carol Williams PROGRAM CODE: M211

OWNER: Max Maes GROUP: HSE-8 MAIL-STOP: K490 PHONE: 7-0817 TASK-ID: TASK 1

CUSTOMER NUMBER	SAMPLE NUMBER	ANALYSIS	RESULT	UNCERTAINTY	UNITS	COMPLETION DATE	COMMENT
5.9A @ 39	90.15888	AG	< 500.		NG/G	9/17/90	
5.9A @ 39	90.15888	AS	< 500.		NG/G	9/17/90	
5.9A @ 39	90.15888	AU	< 500.		NG/G	9/17/90	
5.9A @ 39	90.15888	B	< 5000.		NG/G	9/17/90	
5.9A @ 39	90.15888	BA	13.	39.	UG/G	9/17/90	
5.9A @ 39	90.15888	BE	< 5000.		NG/G	9/17/90	
5.9A @ 39	90.15888	BI	< 500.		NG/G	9/17/90	
5.9A @ 39	90.15888	CD	< 500.		NG/G	9/17/90	
5.9A @ 39	90.15888	CE	2.7	8.1	UG/G	9/17/90	
5.9A @ 39	90.15888	CO	< 500.		NG/G	9/17/90	
5.9A @ 39	90.15888	CR	< 500.		NG/G	9/17/90	
5.9A @ 39	90.15888	CS	< 500.		NG/G	9/17/90	
5.9A @ 39	90.15888	CU	< 500.		NG/G	9/17/90	
5.9A @ 39	90.15888	DY	600.	1800.	NG/G	9/17/90	
5.9A @ 39	90.15888	ER	< 500.		NG/G	9/17/90	
5.9A @ 39	90.15888	EU	< 500.		NG/G	9/17/90	
5.9A @ 39	90.15888	GA	< 500.		NG/G	9/17/90	
5.9A @ 39	90.15888	GD	760.	2300.	NG/G	9/17/90	
5.9A @ 39	90.15888	GE	< 500.		NG/G	9/17/90	
5.9A @ 39	90.15888	HF	< 500.		NG/G	9/17/90	
5.9A @ 39	90.15888	HO	< 500.		NG/G	9/17/90	
5.9A @ 39	90.15888	IN	< 500.		NG/G	9/17/90	
5.9A @ 39	90.15888	IR	< 500.		NG/G	9/17/90	
5.9A @ 39	90.15888	LA	2.4	7.2	UG/G	9/17/90	
5.9A @ 39	90.15888	LI	< 5000.		NG/G	9/17/90	
5.9A @ 39	90.15888	LU	< 500.		NG/G	9/17/90	
5.9A @ 39	90.15888	MN	32.	96.	UG/G	9/17/90	
5.9A @ 39	90.15888	MO	< 500.		NG/G	9/17/90	
5.9A @ 39	90.15888	NB	< 500.		NG/G	9/17/90	
5.9A @ 39	90.15888	ND	3.3	9.9	UG/G	9/17/90	
5.9A @ 39	90.15888	NI	< 500.		NG/G	9/17/90	
5.9A @ 39	90.15888	PB	4.	12.	UG/G	9/17/90	
5.9A @ 39	90.15888	PD	< 500.		NG/G	9/17/90	
5.9A @ 39	90.15888	PR	820.	2500.	NG/G	9/17/90	
5.9A @ 39	90.15888	PT	< 500.		NG/G	9/17/90	
5.9A @ 39	90.15888	RB	< 500.		NG/G	9/17/90	
5.9A @ 39	90.15888	RH	< 500.		NG/G	9/17/90	
5.9A @ 39	90.15888	RU	< 500.		NG/G	9/17/90	
5.9A @ 39	90.15888	SB	< 500.		NG/G	9/17/90	

5.9A @ 39	90.15888	SE	< 5000.		NG/G	9/17/90
5.9A @ 39	90.15888	SM	880.	2600.	NG/G	9/17/90
5.9A @ 39	90.15888	SN	< 500.		NG/G	9/17/90
5.9A @ 39	90.15888	SR	890.	2700.	NG/G	9/17/90
5.9A @ 39	90.15888	TA	< 500.		NG/G	9/17/90
5.9A @ 39	90.15888	TB	< 500.		NG/G	9/17/90
5.9A @ 39	90.15888	TE	< 500.		NG/G	9/17/90
5.9A @ 39	90.15888	TH	760.	2300.	NG/G	9/17/90
5.9A @ 39	90.15888	TI	< 5000.		NG/G	9/17/90
5.9A @ 39	90.15888	TL	< 500.		NG/G	9/17/90
5.9A @ 39	90.15888	TM	< 500.		NG/G	9/17/90
5.9A @ 39	90.15888	U	< 500.		NG/G	9/17/90
5.9A @ 39	90.15888	V	< 5000.		NG/G	9/17/90
5.9A @ 39	90.15888	W	< 500.		NG/G	9/17/90
5.9A @ 39	90.15888	Y	1.1	3.3	UG/G	9/17/90
5.9A @ 39	90.15888	YB	< 500.		NG/G	9/17/90
5.9A @ 39	90.15888	ZN	1.8	5.4	UG/G	9/17/90
5.9A @ 39	90.15888	ZR	< 500.		NG/G	9/17/90

REPORT NUMBER: 8173

********** HSE-9 ANALYTICAL REPORT **********

Prepared by: MCW on 17-Sep-1990

ICP MASS SCAN

REQUEST NUMBER: 10602 MATRIX: S ANALYST: Mary Carol Williams PROGRAM CODE: M211

OWNER: Max Maes GROUP: HSE-8 MAIL-STOP: K490 PHONE: 7-0817 TASK-ID: TASK 1

CUSTOMER NUMBER	SAMPLE NUMBER	ANALYSIS	RESULT	UNCERTAINTY	UNITS	COMPLETION DATE	COMMENT
5.9A @ 40	90.15889	AG	< 500.		NG/G	9/17/90	
5.9A @ 40	90.15889	AS	< 500.		NG/G	9/17/90	
5.9A @ 40	90.15889	AU	< 500.		NG/G	9/17/90	
5.9A @ 40	90.15889	B	< 5000.		NG/G	9/17/90	
5.9A @ 40	90.15889	BA	14.	42.	UG/G	9/17/90	
5.9A @ 40	90.15889	BE	< 5000.		NG/G	9/17/90	
5.9A @ 40	90.15889	BI	< 500.		NG/G	9/17/90	
5.9A @ 40	90.15889	CD	< 500.		NG/G	9/17/90	
5.9A @ 40	90.15889	CE	2.3	6.9	UG/G	9/17/90	
5.9A @ 40	90.15889	CO	< 500.		NG/G	9/17/90	
5.9A @ 40	90.15889	CR	< 500.		NG/G	9/17/90	
5.9A @ 40	90.15889	CS	< 500.		NG/G	9/17/90	
5.9A @ 40	90.15889	CU	< 500.		NG/G	9/17/90	
5.9A @ 40	90.15889	DY	760.	2300.	NG/G	9/17/90	
5.9A @ 40	90.15889	ER	< 500.		NG/G	9/17/90	
5.9A @ 40	90.15889	EU	< 500.		NG/G	9/17/90	
5.9A @ 40	90.15889	GA	< 500.		NG/G	9/17/90	
5.9A @ 40	90.15889	GD	740.	2200.	NG/G	9/17/90	
5.9A @ 40	90.15889	GE	< 500.		NG/G	9/17/90	
5.9A @ 40	90.15889	HF	< 500.		NG/G	9/17/90	
5.9A @ 40	90.15889	HO	< 500.		NG/G	9/17/90	
5.9A @ 40	90.15889	IN	< 500.		NG/G	9/17/90	
5.9A @ 40	90.15889	IR	< 500.		NG/G	9/17/90	
5.9A @ 40	90.15889	LA	2.7	8.1	UG/G	9/17/90	
5.9A @ 40	90.15889	LI	< 5000.		NG/G	9/17/90	
5.9A @ 40	90.15889	LU	< 500.		NG/G	9/17/90	
5.9A @ 40	90.15889	MN	16.	48.	UG/G	9/17/90	
5.9A @ 40	90.15889	MO	< 500.		NG/G	9/17/90	
5.9A @ 40	90.15889	NB	< 500.		NG/G	9/17/90	
5.9A @ 40	90.15889	ND	4.1	12.3	UG/G	9/17/90	
5.9A @ 40	90.15889	NI	< 500.		NG/G	9/17/90	
5.9A @ 40	90.15889	PB	3.4	10.2	UG/G	9/17/90	
5.9A @ 40	90.15889	PD	< 500.		NG/G	9/17/90	
5.9A @ 40	90.15889	PR	1.1	3.3	UG/G	9/17/90	
5.9A @ 40	90.15889	PT	< 500.		NG/G	9/17/90	
5.9A @ 40	90.15889	RB	< 500.		NG/G	9/17/90	
5.9A @ 40	90.15889	RH	< 500.		NG/G	9/17/90	
5.9A @ 40	90.15889	RU	< 500.		NG/G	9/17/90	
5.9A @ 40	90.15889	SB	< 500.		NG/G	9/17/90	

5.9A @ 40	90.15889	SE	< 5000.		NG/G	9/17/90
5.9A @ 40	90.15889	SM	1.	3.	UG/G	9/17/90
5.9A @ 40	90.15889	SN	< 500.		NG/G	9/17/90
5.9A @ 40	90.15889	SR	850.	2600.	NG/G	9/17/90
5.9A @ 40	90.15889	TA	< 500.		NG/G	9/17/90
5.9A @ 40	90.15889	TB	< 500.		NG/G	9/17/90
5.9A @ 40	90.15889	TE	< 500.		NG/G	9/17/90
5.9A @ 40	90.15889	TH	630.	1900.	NG/G	9/17/90
5.9A @ 40	90.15889	TI	< 5000.		NG/G	9/17/90
5.9A @ 40	90.15889	TL	< 500.		NG/G	9/17/90
5.9A @ 40	90.15889	TM	< 500.		NG/G	9/17/90
5.9A @ 40	90.15889	U	< 500.		NG/G	9/17/90
5.9A @ 40	90.15889	V	< 5000.		NG/G	9/17/90
5.9A @ 40	90.15889	W	< 500.		NG/G	9/17/90
5.9A @ 40	90.15889	Y	1.2	3.6	UG/G	9/17/90
5.9A @ 40	90.15889	YB	< 500.		NG/G	9/17/90
5.9A @ 40	90.15889	ZN	1.9	5.7	UG/G	9/17/90
5.9A @ 40	90.15889	ZR	< 500.		NG/G	9/17/90

REPORT NUMBER: 8173

********** HSE-9 ANALYTICAL REPORT **********

Prepared by: MCW on 17-Sep-1990

ICP MASS SCAN

REQUEST NUMBER: 10602 MATRIX: S ANALYST: Mary Carol Williams PROGRAM CODE: M211

OWNER: Max Maes GROUP: HSE-8 MAIL-STOP: K490 PHONE: 7-0817 TASK-ID: TASK 1

CUSTOMER NUMBER	SAMPLE NUMBER	ANALYSIS	RESULT	UNCERTAINTY	UNITS	COMPLETION DATE	COMMENT
5.9A @ 44	90.15890	AG	< 500.		NG/G	9/17/90	
5.9A @ 44	90.15890	AS	< 500.		NG/G	9/17/90	
5.9A @ 44	90.15890	AU	< 500.		NG/G	9/17/90	
5.9A @ 44	90.15890	B	< 5000.		NG/G	9/17/90	
5.9A @ 44	90.15890	BA	5.2	15.6	UG/G	9/17/90	
5.9A @ 44	90.15890	BE	< 5000.		NG/G	9/17/90	
5.9A @ 44	90.15890	BI	< 500.		NG/G	9/17/90	
5.9A @ 44	90.15890	CD	< 500.		NG/G	9/17/90	
5.9A @ 44	90.15890	CE	4.8	14.4	UG/G	9/17/90	
5.9A @ 44	90.15890	CO	< 500.		NG/G	9/17/90	
5.9A @ 44	90.15890	CR	< 500.		NG/G	9/17/90	
5.9A @ 44	90.15890	CS	< 500.		NG/G	9/17/90	
5.9A @ 44	90.15890	CU	< 500.		NG/G	9/17/90	
5.9A @ 44	90.15890	DY	960.	2900.	NG/G	9/17/90	
5.9A @ 44	90.15890	ER	510.	1500.	NG/G	9/17/90	
5.9A @ 44	90.15890	EU	< 500.		NG/G	9/17/90	
5.9A @ 44	90.15890	GA	< 500.		NG/G	9/17/90	
5.9A @ 44	90.15890	GD	1.3	3.9	UG/G	9/17/90	
5.9A @ 44	90.15890	GE	< 500.		NG/G	9/17/90	
5.9A @ 44	90.15890	HF	< 500.		NG/G	9/17/90	
5.9A @ 44	90.15890	HO	< 500.		NG/G	9/17/90	
5.9A @ 44	90.15890	IN	< 500.		NG/G	9/17/90	
5.9A @ 44	90.15890	IR	< 500.		NG/G	9/17/90	
5.9A @ 44	90.15890	LA	4.	12.	UG/G	9/17/90	
5.9A @ 44	90.15890	LI	< 5000.		NG/G	9/17/90	
5.9A @ 44	90.15890	LU	< 500.		NG/G	9/17/90	
5.9A @ 44	90.15890	MN	15.	45.	UG/G	9/17/90	
5.9A @ 44	90.15890	MO	< 500.		NG/G	9/17/90	
5.9A @ 44	90.15890	NB	< 500.		NG/G	9/17/90	
5.9A @ 44	90.15890	ND	6.2	18.6	UG/G	9/17/90	
5.9A @ 44	90.15890	NI	< 500.		NG/G	9/17/90	
5.9A @ 44	90.15890	PB	2.4	7.2	UG/G	9/17/90	
5.9A @ 44	90.15890	PD	< 500.		NG/G	9/17/90	
5.9A @ 44	90.15890	PR	1.5	4.5	UG/G	9/17/90	
5.9A @ 44	90.15890	PT	< 500.		NG/G	9/17/90	
5.9A @ 44	90.15890	RB	< 500.		NG/G	9/17/90	
5.9A @ 44	90.15890	RH	< 500.		NG/G	9/17/90	
5.9A @ 44	90.15890	RU	< 500.		NG/G	9/17/90	
5.9A @ 44	90.15890	SB	< 500.		NG/G	9/17/90	

5.9A @ 44	90.15890	SE	< 5000.		NG/G	9/17/90
5.9A @ 44	90.15890	SM	1.5	4.5	UG/G	9/17/90
5.9A @ 44	90.15890	SN	< 500.		NG/G	9/17/90
5.9A @ 44	90.15890	SR	< 500.		NG/G	9/17/90
5.9A @ 44	90.15890	TA	< 500.		NG/G	9/17/90
5.9A @ 44	90.15890	TB	< 500.		NG/G	9/17/90
5.9A @ 44	90.15890	TE	< 500.		NG/G	9/17/90
5.9A @ 44	90.15890	TH	1.5	4.5	UG/G	9/17/90
5.9A @ 44	90.15890	TI	< 5000.		NG/G	9/17/90
5.9A @ 44	90.15890	TL	< 500.		NG/G	9/17/90
5.9A @ 44	90.15890	TM	< 500.		NG/G	9/17/90
5.9A @ 44	90.15890	U	< 500.		NG/G	9/17/90
5.9A @ 44	90.15890	V	< 5000.		NG/G	9/17/90
5.9A @ 44	90.15890	W	< 500.		NG/G	9/17/90
5.9A @ 44	90.15890	Y	1.9	5.7	UG/G	9/17/90
5.9A @ 44	90.15890	YB	< 500.		NG/G	9/17/90
5.9A @ 44	90.15890	ZN	1.4	4.2	UG/G	9/17/90
5.9A @ 44	90.15890	ZR	< 500.		NG/G	9/17/90

REPORT NUMBER: 8173

********** HSE-9 ANALYTICAL REPORT **********

Prepared by: MCW on 17-Sep-1990

ICP MASS SCAN

REQUEST NUMBER: 10602 MATRIX: S ANALYST: Mary Carol Williams PROGRAM CODE: M211

OWNER: Max Maes GROUP: HSE-8 MAIL-STOP: K490 PHONE: 7-0817 TASK-ID: TASK 1

CUSTOMER NUMBER	SAMPLE NUMBER	ANALYSIS	RESULT	UNCERTAINTY	UNITS	COMPLETION DATE	COMMENT
5.9A @ 47	90.15891	AG	< 500.		NG/G	9/17/90	
5.9A @ 47	90.15891	AS	< 500.		NG/G	9/17/90	
5.9A @ 47	90.15891	AU	< 500.		NG/G	9/17/90	
5.9A @ 47	90.15891	B	< 5000.		NG/G	9/17/90	
5.9A @ 47	90.15891	BA	12.	36.	UG/G	9/17/90	
5.9A @ 47	90.15891	BE	< 5000.		NG/G	9/17/90	
5.9A @ 47	90.15891	BI	< 500.		NG/G	9/17/90	
5.9A @ 47	90.15891	CD	< 500.		NG/G	9/17/90	
5.9A @ 47	90.15891	CE	2.4	7.2	UG/G	9/17/90	
5.9A @ 47	90.15891	CO	< 500.		NG/G	9/17/90	
5.9A @ 47	90.15891	CR	< 500.		NG/G	9/17/90	
5.9A @ 47	90.15891	CS	< 500.		NG/G	9/17/90	
5.9A @ 47	90.15891	CU	< 500.		NG/G	9/17/90	
5.9A @ 47	90.15891	DY	700.	2100.	NG/G	9/17/90	
5.9A @ 47	90.15891	ER	< 500.		NG/G	9/17/90	
5.9A @ 47	90.15891	EU	< 500.		NG/G	9/17/90	
5.9A @ 47	90.15891	GA	< 500.		NG/G	9/17/90	
5.9A @ 47	90.15891	GD	850.	2600.	NG/G	9/17/90	
5.9A @ 47	90.15891	GE	< 500.		NG/G	9/17/90	
5.9A @ 47	90.15891	HF	< 500.		NG/G	9/17/90	
5.9A @ 47	90.15891	HO	< 500.		NG/G	9/17/90	
5.9A @ 47	90.15891	IN	< 500.		NG/G	9/17/90	
5.9A @ 47	90.15891	IR	< 500.		NG/G	9/17/90	
5.9A @ 47	90.15891	LA	2.7	8.1	UG/G	9/17/90	
5.9A @ 47	90.15891	LI	< 5000.		NG/G	9/17/90	
5.9A @ 47	90.15891	LU	< 500.		NG/G	9/17/90	
5.9A @ 47	90.15891	MN	12.	36.	UG/G	9/17/90	
5.9A @ 47	90.15891	MO	< 500.		NG/G	9/17/90	
5.9A @ 47	90.15891	NB	< 500.		NG/G	9/17/90	
5.9A @ 47	90.15891	ND	4.	12.	UG/G	9/17/90	
5.9A @ 47	90.15891	NI	< 500.		NG/G	9/17/90	
5.9A @ 47	90.15891	PB	2.1	6.3	UG/G	9/17/90	
5.9A @ 47	90.15891	PD	< 500.		NG/G	9/17/90	
5.9A @ 47	90.15891	PR	980.	2900.	NG/G	9/17/90	
5.9A @ 47	90.15891	PT	< 500.		NG/G	9/17/90	
5.9A @ 47	90.15891	RB	< 500.		NG/G	9/17/90	
5.9A @ 47	90.15891	RH	< 500.		NG/G	9/17/90	
5.9A @ 47	90.15891	RU	< 500.		NG/G	9/17/90	
5.9A @ 47	90.15891	SB	< 500.		NG/G	9/17/90	

5.9A @ 47	90.15891	SE	< 5000.		NG/G	9/17/90
5.9A @ 47	90.15891	SM	820.	2500.	NG/G	9/17/90
5.9A @ 47	90.15891	SN	< 500.		NG/G	9/17/90
5.9A @ 47	90.15891	SR	920.	2800.	NG/G	9/17/90
5.9A @ 47	90.15891	TA	< 500.		NG/G	9/17/90
5.9A @ 47	90.15891	TB	< 500.		NG/G	9/17/90
5.9A @ 47	90.15891	TE	< 500.		NG/G	9/17/90
5.9A @ 47	90.15891	TH	< 500.		NG/G	9/17/90
5.9A @ 47	90.15891	TI	< 5000.		NG/G	9/17/90
5.9A @ 47	90.15891	TL	< 500.		NG/G	9/17/90
5.9A @ 47	90.15891	TM	< 500.		NG/G	9/17/90
5.9A @ 47	90.15891	U	< 500.		NG/G	9/17/90
5.9A @ 47	90.15891	V	< 5000.		NG/G	9/17/90
5.9A @ 47	90.15891	W	< 500.		NG/G	9/17/90
5.9A @ 47	90.15891	Y	1.	3.	UG/G	9/17/90
5.9A @ 47	90.15891	YB	< 500.		NG/G	9/17/90
5.9A @ 47	90.15891	ZN	960.	2900.	NG/G	9/17/90
5.9A @ 47	90.15891	ZR	< 500.		NG/G	9/17/90

REPORT NUMBER: 8173

********** HSE-9 ANALYTICAL REPORT **********

Prepared by: MCW on 17-Sep-1990

ICP MASS SCAN

REQUEST NUMBER: 10602 MATRIX: S ANALYST: Mary Carol Williams PROGRAM CODE: M211

OWNER: Max Maes GROUP: HSE-8 MAIL-STOP: K490 PHONE: 7-0817 TASK-ID: TASK 1

CUSTOMER NUMBER	SAMPLE NUMBER	ANALYSIS	RESULT	UNCERTAINTY	UNITS	COMPLETION DATE	COMMENT
5.9A @ 49	90.15892	AG	< 500.			NG/G	9/17/90
5.9A @ 49	90.15892	AS	< 500.			NG/G	9/17/90
5.9A @ 49	90.15892	AU	< 500.			NG/G	9/17/90
5.9A @ 49	90.15892	B	< 5000.			NG/G	9/17/90
5.9A @ 49	90.15892	BA	83.	250.		UG/G	9/17/90
5.9A @ 49	90.15892	BE	< 5000.			NG/G	9/17/90
5.9A @ 49	90.15892	BI	< 500.			NG/G	9/17/90
5.9A @ 49	90.15892	CD	< 500.			NG/G	9/17/90
5.9A @ 49	90.15892	CE	7.3	21.9		UG/G	9/17/90
5.9A @ 49	90.15892	CO	< 500.			NG/G	9/17/90
5.9A @ 49	90.15892	CR	< 500.			NG/G	9/17/90
5.9A @ 49	90.15892	CS	< 500.			NG/G	9/17/90
5.9A @ 49	90.15892	CU	< 500.			NG/G	9/17/90
5.9A @ 49	90.15892	DY	3.4	10.2		UG/G	9/17/90
5.9A @ 49	90.15892	ER	1.8	5.4		UG/G	9/17/90
5.9A @ 49	90.15892	EU	< 500.			NG/G	9/17/90
5.9A @ 49	90.15892	GA	< 500.			NG/G	9/17/90
5.9A @ 49	90.15892	GD	2.5	7.5		UG/G	9/17/90
5.9A @ 49	90.15892	GE	< 500.			NG/G	9/17/90
5.9A @ 49	90.15892	HF	< 500.			NG/G	9/17/90
5.9A @ 49	90.15892	HO	590.	1800.		NG/G	9/17/90
5.9A @ 49	90.15892	IN	< 500.			NG/G	9/17/90
5.9A @ 49	90.15892	IR	< 500.			NG/G	9/17/90
5.9A @ 49	90.15892	LA	6.7	20.1		UG/G	9/17/90
5.9A @ 49	90.15892	LI	< 5000.			NG/G	9/17/90
5.9A @ 49	90.15892	LU	< 500.			NG/G	9/17/90
5.9A @ 49	90.15892	MN	13.	39.		UG/G	9/17/90
5.9A @ 49	90.15892	MO	< 500.			NG/G	9/17/90
5.9A @ 49	90.15892	NB	< 500.			NG/G	9/17/90
5.9A @ 49	90.15892	ND	8.9	26.7		UG/G	9/17/90
5.9A @ 49	90.15892	NI	< 500.			NG/G	9/17/90
5.9A @ 49	90.15892	PB	6.1	18.3		UG/G	9/17/90
5.9A @ 49	90.15892	PD	< 500.			NG/G	9/17/90
5.9A @ 49	90.15892	PR	2.4	7.2		UG/G	9/17/90
5.9A @ 49	90.15892	PT	< 500.			NG/G	9/17/90
5.9A @ 49	90.15892	RB	< 500.			NG/G	9/17/90
5.9A @ 49	90.15892	RH	< 500.			NG/G	9/17/90
5.9A @ 49	90.15892	RU	< 500.			NG/G	9/17/90
5.9A @ 49	90.15892	SB	< 500.			NG/G	9/17/90

5.9A @ 49	90.15892	SE	< 5000.		NG/G	9/17/90
5.9A @ 49	90.15892	SM	2.4	7.2	UG/G	9/17/90
5.9A @ 49	90.15892	SN	< 500.		NG/G	9/17/90
5.9A @ 49	90.15892	SR	730.	2200.	NG/G	9/17/90
5.9A @ 49	90.15892	TA	< 500.		NG/G	9/17/90
5.9A @ 49	90.15892	TB	560.	1700.	NG/G	9/17/90
5.9A @ 49	90.15892	TE	< 500.		NG/G	9/17/90
5.9A @ 49	90.15892	TH	9.3	27.9	UG/G	9/17/90
5.9A @ 49	90.15892	TI	< 5000.		NG/G	9/17/90
5.9A @ 49	90.15892	TL	< 500.		NG/G	9/17/90
5.9A @ 49	90.15892	TM	< 500.		NG/G	9/17/90
5.9A @ 49	90.15892	U	1.5	4.5	UG/G	9/17/90
5.9A @ 49	90.15892	V	< 5000.		NG/G	9/17/90
5.9A @ 49	90.15892	W	< 500.		NG/G	9/17/90
5.9A @ 49	90.15892	Y	5.	15.	UG/G	9/17/90
5.9A @ 49	90.15892	YB	1.7	5.1	UG/G	9/17/90
5.9A @ 49	90.15892	ZN	4.3	12.9	UG/G	9/17/90
5.9A @ 49	90.15892	ZR	< 500.		NG/G	9/17/90

REPORT NUMBER: 8173

********** HSE-9 ANALYTICAL REPORT **********

Prepared by: MCW on 17-Sep-1990

ICP MASS SCAN

REQUEST NUMBER: 10602 MATRIX: S ANALYST: Mary Carol Williams PROGRAM CODE: M211

OWNER: Max Maes GROUP: HSE-8 MAIL-STOP: K490 PHONE: 7-0817 TASK-ID: TASK 1

CUSTOMER NUMBER	SAMPLE NUMBER	ANALYSIS	RESULT	UNCERTAINTY	UNITS	COMPLETION DATE	COMMENT
5.9A @ 54	90.15893	AG	< 500.			NG/G	9/17/90
5.9A @ 54	90.15893	AS	< 500.			NG/G	9/17/90
5.9A @ 54	90.15893	AU	< 500.			NG/G	9/17/90
5.9A @ 54	90.15893	B	< 5000.			NG/G	9/17/90
5.9A @ 54	90.15893	BA	3.6	10.8		UG/G	9/17/90
5.9A @ 54	90.15893	BE	< 5000.			NG/G	9/17/90
5.9A @ 54	90.15893	BI	< 500.			NG/G	9/17/90
5.9A @ 54	90.15893	CD	< 500.			NG/G	9/17/90
5.9A @ 54	90.15893	CE	3.2	9.6		UG/G	9/17/90
5.9A @ 54	90.15893	CO	< 500.			NG/G	9/17/90
5.9A @ 54	90.15893	CR	< 500.			NG/G	9/17/90
5.9A @ 54	90.15893	CS	< 500.			NG/G	9/17/90
5.9A @ 54	90.15893	CU	< 500.			NG/G	9/17/90
5.9A @ 54	90.15893	DY	1.5	4.5		UG/G	9/17/90
5.9A @ 54	90.15893	ER	710.	2100.		NG/G	9/17/90
5.9A @ 54	90.15893	EU	< 500.			NG/G	9/17/90
5.9A @ 54	90.15893	GA	< 500.			NG/G	9/17/90
5.9A @ 54	90.15893	GD	1.1	3.3		UG/G	9/17/90
5.9A @ 54	90.15893	GE	< 500.			NG/G	9/17/90
5.9A @ 54	90.15893	HF	< 500.			NG/G	9/17/90
5.9A @ 54	90.15893	HO	< 500.			NG/G	9/17/90
5.9A @ 54	90.15893	IN	< 500.			NG/G	9/17/90
5.9A @ 54	90.15893	IR	< 500.			NG/G	9/17/90
5.9A @ 54	90.15893	LA	2.5	7.5		UG/G	9/17/90
5.9A @ 54	90.15893	LI	< 5000.			NG/G	9/17/90
5.9A @ 54	90.15893	LU	< 500.			NG/G	9/17/90
5.9A @ 54	90.15893	MN	7.5	22.5		UG/G	9/17/90
5.9A @ 54	90.15893	MO	< 500.			NG/G	9/17/90
5.9A @ 54	90.15893	NB	< 500.			NG/G	9/17/90
5.9A @ 54	90.15893	ND	4.	12.		UG/G	9/17/90
5.9A @ 54	90.15893	NI	< 500.			NG/G	9/17/90
5.9A @ 54	90.15893	PB	2.	6.		UG/G	9/17/90
5.9A @ 54	90.15893	PD	< 500.			NG/G	9/17/90
5.9A @ 54	90.15893	PR	910.	2700.		NG/G	9/17/90
5.9A @ 54	90.15893	PT	< 500.			NG/G	9/17/90
5.9A @ 54	90.15893	RB	540.	1600.		NG/G	9/17/90
5.9A @ 54	90.15893	RH	< 500.			NG/G	9/17/90
5.9A @ 54	90.15893	RU	< 500.			NG/G	9/17/90
5.9A @ 54	90.15893	SB	< 500.			NG/G	9/17/90

5.9A @ 54	90.15893	SE	< 5000.		NG/G	9/17/90
5.9A @ 54	90.15893	SM	1.2	3.6	UG/G	9/17/90
5.9A @ 54	90.15893	SN	< 500.		NG/G	9/17/90
5.9A @ 54	90.15893	SR	650.	2000.	NG/G	9/17/90
5.9A @ 54	90.15893	TA	< 500.		NG/G	9/17/90
5.9A @ 54	90.15893	TB	< 500.		NG/G	9/17/90
5.9A @ 54	90.15893	TE	< 500.		NG/G	9/17/90
5.9A @ 54	90.15893	TH	2.6	7.8	UG/G	9/17/90
5.9A @ 54	90.15893	TI	< 5000.		NG/G	9/17/90
5.9A @ 54	90.15893	TL	< 500.		NG/G	9/17/90
5.9A @ 54	90.15893	TM	< 500.		NG/G	9/17/90
5.9A @ 54	90.15893	U	570.	1700.	NG/G	9/17/90
5.9A @ 54	90.15893	V	< 5000.		NG/G	9/17/90
5.9A @ 54	90.15893	W	< 500.		NG/G	9/17/90
5.9A @ 54	90.15893	Y	2.3	6.9	UG/G	9/17/90
5.9A @ 54	90.15893	YB	640.	1900.	NG/G	9/17/90
5.9A @ 54	90.15893	ZN	1.9	5.7	UG/G	9/17/90
5.9A @ 54	90.15893	ZR	< 500.		NG/G	9/17/90

REPORT NUMBER: 8173

********** HSE-9 ANALYTICAL REPORT **********

Prepared by: MCW on 17-Sep-1990

ICP MASS SCAN

REQUEST NUMBER: 10602 MATRIX: S ANALYST: Mary Carol Williams PROGRAM CODE: M211

OWNER: Max Maes GROUP: HSE-8 MAIL-STOP: K490 PHONE: 7-0817 TASK-ID: TASK 1

CUSTOMER NUMBER	SAMPLE NUMBER	ANALYSIS	RESULT	UNCERTAINTY	UNITS	COMPLETION DATE	COMMENT
5.9A @ 64	90.15894	AG	< 500.		NG/G	9/17/90	
5.9A @ 64	90.15894	AS	< 500.		NG/G	9/17/90	
5.9A @ 64	90.15894	AU	< 500.		NG/G	9/17/90	
5.9A @ 64	90.15894	B	< 5000.		NG/G	9/17/90	
5.9A @ 64	90.15894	BA	5.6	16.8	UG/G	9/17/90	
5.9A @ 64	90.15894	BE	< 5000.		NG/G	9/17/90	
5.9A @ 64	90.15894	BI	< 500.		NG/G	9/17/90	
5.9A @ 64	90.15894	CD	< 500.		NG/G	9/17/90	
5.9A @ 64	90.15894	CE	3.2	9.6	UG/G	9/17/90	
5.9A @ 64	90.15894	CO	< 500.		NG/G	9/17/90	
5.9A @ 64	90.15894	CR	< 500.		NG/G	9/17/90	
5.9A @ 64	90.15894	CS	< 500.		NG/G	9/17/90	
5.9A @ 64	90.15894	CU	< 500.		NG/G	9/17/90	
5.9A @ 64	90.15894	DY	1.4	4.2	UG/G	9/17/90	
5.9A @ 64	90.15894	ER	670.	2000.	NG/G	9/17/90	
5.9A @ 64	90.15894	EU	< 500.		NG/G	9/17/90	
5.9A @ 64	90.15894	GA	< 500.		NG/G	9/17/90	
5.9A @ 64	90.15894	GD	1.2	3.6	UG/G	9/17/90	
5.9A @ 64	90.15894	GE	< 500.		NG/G	9/17/90	
5.9A @ 64	90.15894	HF	< 500.		NG/G	9/17/90	
5.9A @ 64	90.15894	HO	< 500.		NG/G	9/17/90	
5.9A @ 64	90.15894	IN	< 500.		NG/G	9/17/90	
5.9A @ 64	90.15894	IR	< 500.		NG/G	9/17/90	
5.9A @ 64	90.15894	LA	2.2	6.6	UG/G	9/17/90	
5.9A @ 64	90.15894	LI	< 5000.		NG/G	9/17/90	
5.9A @ 64	90.15894	LU	< 500.		NG/G	9/17/90	
5.9A @ 64	90.15894	MN	6.2	18.6	UG/G	9/17/90	
5.9A @ 64	90.15894	MO	< 500.		NG/G	9/17/90	
5.9A @ 64	90.15894	NB	< 500.		NG/G	9/17/90	
5.9A @ 64	90.15894	ND	4.	12.	UG/G	9/17/90	
5.9A @ 64	90.15894	NI	< 500.		NG/G	9/17/90	
5.9A @ 64	90.15894	PB	2.1	6.3	UG/G	9/17/90	
5.9A @ 64	90.15894	PD	< 500.		NG/G	9/17/90	
5.9A @ 64	90.15894	PR	900.	2700.	NG/G	9/17/90	
5.9A @ 64	90.15894	PT	< 500.		NG/G	9/17/90	
5.9A @ 64	90.15894	RB	600.	1800.	NG/G	9/17/90	
5.9A @ 64	90.15894	RH	< 500.		NG/G	9/17/90	
5.9A @ 64	90.15894	RU	< 500.		NG/G	9/17/90	
5.9A @ 64	90.15894	SB	< 500.		NG/G	9/17/90	

5.9A @ 64	90.15894	SE	< 5000.		NG/G	9/17/90
5.9A @ 64	90.15894	SM	1.2	3.6	UG/G	9/17/90
5.9A @ 64	90.15894	SN	< 500.		NG/G	9/17/90
5.9A @ 64	90.15894	SR	< 500.		NG/G	9/17/90
5.9A @ 64	90.15894	TA	< 500.		NG/G	9/17/90
5.9A @ 64	90.15894	TB	< 500.		NG/G	9/17/90
5.9A @ 64	90.15894	TE	< 500.		NG/G	9/17/90
5.9A @ 64	90.15894	TH	2.4	7.2	UG/G	9/17/90
5.9A @ 64	90.15894	TI	< 5000.		NG/G	9/17/90
5.9A @ 64	90.15894	TL	< 500.		NG/G	9/17/90
5.9A @ 64	90.15894	TM	< 500.		NG/G	9/17/90
5.9A @ 64	90.15894	U	740.	2200.	NG/G	9/17/90
5.9A @ 64	90.15894	V	< 5000.		NG/G	9/17/90
5.9A @ 64	90.15894	W	< 500.		NG/G	9/17/90
5.9A @ 64	90.15894	Y	2.1	6.3	UG/G	9/17/90
5.9A @ 64	90.15894	YB	640.	1900.	NG/G	9/17/90
5.9A @ 64	90.15894	ZN	1.5	4.5	UG/G	9/17/90
5.9A @ 64	90.15894	ZR	< 500.		NG/G	9/17/90

REPORT NUMBER: 8173

********** HSE-9 ANALYTICAL REPORT **********

Prepared by: MCW on 17-Sep-1990

ICP MASS SCAN

REQUEST NUMBER: 10602 MATRIX: S ANALYST: Mary Carol Williams PROGRAM CODE: M211

OWNER: Max Maes GROUP: HSE-8 MAIL-STOP: K490 PHONE: 7-0817 TASK-ID: TASK 1

CUSTOMER NUMBER	SAMPLE NUMBER	ANALYSIS	RESULT	UNCERTAINTY	UNITS	COMPLETION DATE	COMMENT
5.9A @ 69	90.15895	AG	< 500.			NG/G	9/17/90
5.9A @ 69	90.15895	AS	< 500.			NG/G	9/17/90
5.9A @ 69	90.15895	AU	< 500.			NG/G	9/17/90
5.9A @ 69	90.15895	B	< 5000.			NG/G	9/17/90
5.9A @ 69	90.15895	BA	17.	51.		UG/G	9/17/90
5.9A @ 69	90.15895	BE	< 5000.			NG/G	9/17/90
5.9A @ 69	90.15895	BI	< 500.			NG/G	9/17/90
5.9A @ 69	90.15895	CD	< 500.			NG/G	9/17/90
5.9A @ 69	90.15895	CE	3.1	9.3		UG/G	9/17/90
5.9A @ 69	90.15895	CO	< 500.			NG/G	9/17/90
5.9A @ 69	90.15895	CR	< 500.			NG/G	9/17/90
5.9A @ 69	90.15895	CS	< 500.			NG/G	9/17/90
5.9A @ 69	90.15895	CU	< 500.			NG/G	9/17/90
5.9A @ 69	90.15895	DY	1.6	4.8		UG/G	9/17/90
5.9A @ 69	90.15895	ER	820.	2500.		NG/G	9/17/90
5.9A @ 69	90.15895	EU	< 500.			NG/G	9/17/90
5.9A @ 69	90.15895	GA	< 500.			NG/G	9/17/90
5.9A @ 69	90.15895	GD	1.5	4.5		UG/G	9/17/90
5.9A @ 69	90.15895	GE	< 500.			NG/G	9/17/90
5.9A @ 69	90.15895	HF	< 500.			NG/G	9/17/90
5.9A @ 69	90.15895	HO	< 500.			NG/G	9/17/90
5.9A @ 69	90.15895	IN	< 500.			NG/G	9/17/90
5.9A @ 69	90.15895	IR	< 500.			NG/G	9/17/90
5.9A @ 69	90.15895	LA	2.8	8.4		UG/G	9/17/90
5.9A @ 69	90.15895	LI	< 5000.			NG/G	9/17/90
5.9A @ 69	90.15895	LU	< 500.			NG/G	9/17/90
5.9A @ 69	90.15895	MN	5.8	17.4		UG/G	9/17/90
5.9A @ 69	90.15895	MO	< 500.			NG/G	9/17/90
5.9A @ 69	90.15895	NB	< 500.			NG/G	9/17/90
5.9A @ 69	90.15895	ND	4.5	13.5		UG/G	9/17/90
5.9A @ 69	90.15895	NI	< 500.			NG/G	9/17/90
5.9A @ 69	90.15895	PB	2.9	8.7		UG/G	9/17/90
5.9A @ 69	90.15895	PD	< 500.			NG/G	9/17/90
5.9A @ 69	90.15895	PR	970.	2900.		NG/G	9/17/90
5.9A @ 69	90.15895	PT	< 500.			NG/G	9/17/90
5.9A @ 69	90.15895	RB	< 500.			NG/G	9/17/90
5.9A @ 69	90.15895	RH	< 500.			NG/G	9/17/90
5.9A @ 69	90.15895	RU	< 500.			NG/G	9/17/90
5.9A @ 69	90.15895	SB	< 500.			NG/G	9/17/90

5.9A @ 69	90.15895	SE	< 5000.		NG/G	9/17/90
5.9A @ 69	90.15895	SM	1.3	3.9	UG/G	9/17/90
5.9A @ 69	90.15895	SN	< 500.		NG/G	9/17/90
5.9A @ 69	90.15895	SR	590.	1800.	NG/G	9/17/90
5.9A @ 69	90.15895	TA	< 500.		NG/G	9/17/90
5.9A @ 69	90.15895	TB	< 500.		NG/G	9/17/90
5.9A @ 69	90.15895	TE	< 500.		NG/G	9/17/90
5.9A @ 69	90.15895	TH	3.2	9.6	UG/G	9/17/90
5.9A @ 69	90.15895	TI	< 5000.		NG/G	9/17/90
5.9A @ 69	90.15895	TL	< 500.		NG/G	9/17/90
5.9A @ 69	90.15895	TM	< 500.		NG/G	9/17/90
5.9A @ 69	90.15895	U	1.4	4.2	UG/G	9/17/90
5.9A @ 69	90.15895	V	< 5000.		NG/G	9/17/90
5.9A @ 69	90.15895	W	< 500.		NG/G	9/17/90
5.9A @ 69	90.15895	Y	2.5	7.5	UG/G	9/17/90
5.9A @ 69	90.15895	YB	800.	2400.	NG/G	9/17/90
5.9A @ 69	90.15895	ZN	1.4	4.2	UG/G	9/17/90
5.9A @ 69	90.15895	ZR	< 500.		NG/G	9/17/90

REPORT NUMBER: 8173

********** HSE-9 ANALYTICAL REPORT **********

Prepared by: MCW on 17-Sep-1990

ICP MASS SCAN

REQUEST NUMBER: 10602 MATRIX: S ANALYST: Mary Carol Williams PROGRAM CODE: M211

OWNER: Max Maes GROUP: HSE-8 MAIL-STOP: K490 PHONE: 7-0817 TASK-ID: TASK 1

CUSTOMER NUMBER	SAMPLE NUMBER	ANALYSIS	RESULT	UNCERTAINTY	UNITS	COMPLETION DATE	COMMENT
5.9A @ 71.5	90.15896	AG	< 500.		NG/G	9/17/90	
5.9A @ 71.5	90.15896	AS	< 500.		NG/G	9/17/90	
5.9A @ 71.5	90.15896	AU	< 500.		NG/G	9/17/90	
5.9A @ 71.5	90.15896	B	< 5000.		NG/G	9/17/90	
5.9A @ 71.5	90.15896	BA	57.	170.	UG/G	9/17/90	
5.9A @ 71.5	90.15896	BE	< 5000.		NG/G	9/17/90	
5.9A @ 71.5	90.15896	BI	< 500.		NG/G	9/17/90	
5.9A @ 71.5	90.15896	CD	< 500.		NG/G	9/17/90	
5.9A @ 71.5	90.15896	CE	7.4	22.2	UG/G	9/17/90	
5.9A @ 71.5	90.15896	CO	< 500.		NG/G	9/17/90	
5.9A @ 71.5	90.15896	CR	< 500.		NG/G	9/17/90	
5.9A @ 71.5	90.15896	CS	< 500.		NG/G	9/17/90	
5.9A @ 71.5	90.15896	CU	< 500.		NG/G	9/17/90	
5.9A @ 71.5	90.15896	DY	2.6	7.8	UG/G	9/17/90	
5.9A @ 71.5	90.15896	ER	1.5	4.5	UG/G	9/17/90	
5.9A @ 71.5	90.15896	EU	< 500.		NG/G	9/17/90	
5.9A @ 71.5	90.15896	GA	< 500.		NG/G	9/17/90	
5.9A @ 71.5	90.15896	GD	2.2	6.6	UG/G	9/17/90	
5.9A @ 71.5	90.15896	GE	< 500.		NG/G	9/17/90	
5.9A @ 71.5	90.15896	HF	< 500.		NG/G	9/17/90	
5.9A @ 71.5	90.15896	HO	< 500.		NG/G	9/17/90	
5.9A @ 71.5	90.15896	IN	< 500.		NG/G	9/17/90	
5.9A @ 71.5	90.15896	IR	< 500.		NG/G	9/17/90	
5.9A @ 71.5	90.15896	LA	4.8	14.4	UG/G	9/17/90	
5.9A @ 71.5	90.15896	LI	< 5000.		NG/G	9/17/90	
5.9A @ 71.5	90.15896	LU	< 500.		NG/G	9/17/90	
5.9A @ 71.5	90.15896	MN	18.	54.	UG/G	9/17/90	
5.9A @ 71.5	90.15896	MO	< 500.		NG/G	9/17/90	
5.9A @ 71.5	90.15896	NB	< 500.		NG/G	9/17/90	
5.9A @ 71.5	90.15896	ND	7.1	21.3	UG/G	9/17/90	
5.9A @ 71.5	90.15896	NI	< 500.		NG/G	9/17/90	
5.9A @ 71.5	90.15896	PB	8.3	24.9	UG/G	9/17/90	
5.9A @ 71.5	90.15896	PD	< 500.		NG/G	9/17/90	
5.9A @ 71.5	90.15896	PR	1.9	5.7	UG/G	9/17/90	
5.9A @ 71.5	90.15896	PT	< 500.		NG/G	9/17/90	
5.9A @ 71.5	90.15896	RB	770.	2300.	NG/G	9/17/90	
5.9A @ 71.5	90.15896	RH	< 500.		NG/G	9/17/90	
5.9A @ 71.5	90.15896	RU	< 500.		NG/G	9/17/90	
5.9A @ 71.5	90.15896	SB	< 500.		NG/G	9/17/90	

5.9A @ 71.5	90.15896	SE	< 5000.		NG/G	9/17/90
5.9A @ 71.5	90.15896	SM	2.3	6.9	UG/G	9/17/90
5.9A @ 71.5	90.15896	SN	< 500.		NG/G	9/17/90
5.9A @ 71.5	90.15896	SR	1.	3.	UG/G	9/17/90
5.9A @ 71.5	90.15896	TA	< 500.		NG/G	9/17/90
5.9A @ 71.5	90.15896	TB	< 500.		NG/G	9/17/90
5.9A @ 71.5	90.15896	TE	< 500.		NG/G	9/17/90
5.9A @ 71.5	90.15896	TH	10.	30.	UG/G	9/17/90
5.9A @ 71.5	90.15896	TI	< 5000.		NG/G	9/17/90
5.9A @ 71.5	90.15896	TL	< 500.		NG/G	9/17/90
5.9A @ 71.5	90.15896	TM	< 500.		NG/G	9/17/90
5.9A @ 71.5	90.15896	U	2.1	6.3	UG/G	9/17/90
5.9A @ 71.5	90.15896	V	< 5000.		NG/G	9/17/90
5.9A @ 71.5	90.15896	W	< 500.		NG/G	9/17/90
5.9A @ 71.5	90.15896	Y	3.8	11.4	UG/G	9/17/90
5.9A @ 71.5	90.15896	YB	1.7	5.1	UG/G	9/17/90
5.9A @ 71.5	90.15896	ZN	3.	9.	UG/G	9/17/90
5.9A @ 71.5	90.15896	ZR	< 500.		NG/G	9/17/90

REPORT NUMBER: 8173

********** HSE-9 ANALYTICAL REPORT **********

Prepared by: MCW on 17-Sep-1990

ICP MASS SCAN

REQUEST NUMBER: 10602 MATRIX: S ANALYST: Mary Carol Williams PROGRAM CODE: M211

OWNER: Max Maes GROUP: HSE-8 MAIL-STOP: K490 PHONE: 7-0817 TASK-ID: TASK 1

CUSTOMER NUMBER	SAMPLE NUMBER	ANALYSIS	RESULT	UNCERTAINTY	UNITS	COMPLETION DATE	COMMENT
5.9A @ 79	90.15897	AG	< 500.		NG/G	9/17/90	
5.9A @ 79	90.15897	AS	< 500.		NG/G	9/17/90	
5.9A @ 79	90.15897	AU	< 500.		NG/G	9/17/90	
5.9A @ 79	90.15897	B	< 5000.		NG/G	9/17/90	
5.9A @ 79	90.15897	BA	44.	130.	UG/G	9/17/90	
5.9A @ 79	90.15897	BE	< 5000.		NG/G	9/17/90	
5.9A @ 79	90.15897	BI	< 500.		NG/G	9/17/90	
5.9A @ 79	90.15897	CD	< 500.		NG/G	9/17/90	
5.9A @ 79	90.15897	CE	6.3	18.9	UG/G	9/17/90	
5.9A @ 79	90.15897	CO	< 500.		NG/G	9/17/90	
5.9A @ 79	90.15897	CR	< 500.		NG/G	9/17/90	
5.9A @ 79	90.15897	CS	< 500.		NG/G	9/17/90	
5.9A @ 79	90.15897	CU	< 500.		NG/G	9/17/90	
5.9A @ 79	90.15897	DY	3.4	10.2	UG/G	9/17/90	
5.9A @ 79	90.15897	ER	1.9	5.7	UG/G	9/17/90	
5.9A @ 79	90.15897	EU	< 500.		NG/G	9/17/90	
5.9A @ 79	90.15897	GA	< 500.		NG/G	9/17/90	
5.9A @ 79	90.15897	GD	3.1	9.3	UG/G	9/17/90	
5.9A @ 79	90.15897	GE	< 500.		NG/G	9/17/90	
5.9A @ 79	90.15897	HF	< 500.		NG/G	9/17/90	
5.9A @ 79	90.15897	HO	720.	2200.	NG/G	9/17/90	
5.9A @ 79	90.15897	IN	< 500.		NG/G	9/17/90	
5.9A @ 79	90.15897	IR	< 500.		NG/G	9/17/90	
5.9A @ 79	90.15897	LA	6.2	18.6	UG/G	9/17/90	
5.9A @ 79	90.15897	LI	< 5000.		NG/G	9/17/90	
5.9A @ 79	90.15897	LU	< 500.		NG/G	9/17/90	
5.9A @ 79	90.15897	MN	10.	30.	UG/G	9/17/90	
5.9A @ 79	90.15897	MO	< 500.		NG/G	9/17/90	
5.9A @ 79	90.15897	NB	< 500.		NG/G	9/17/90	
5.9A @ 79	90.15897	ND	8.5	25.5	UG/G	9/17/90	
5.9A @ 79	90.15897	NI	< 500.		NG/G	9/17/90	
5.9A @ 79	90.15897	PB	10.	30.	UG/G	9/17/90	
5.9A @ 79	90.15897	PD	< 500.		NG/G	9/17/90	
5.9A @ 79	90.15897	PR	2.1	6.3	UG/G	9/17/90	
5.9A @ 79	90.15897	PT	< 500.		NG/G	9/17/90	
5.9A @ 79	90.15897	RB	750.	2300.	NG/G	9/17/90	
5.9A @ 79	90.15897	RH	< 500.		NG/G	9/17/90	
5.9A @ 79	90.15897	RU	< 500.		NG/G	9/17/90	
5.9A @ 79	90.15897	SB	< 500.		NG/G	9/17/90	

5.9A @ 79	90.15897	SE	< 5000.		NG/G	9/17/90
5.9A @ 79	90.15897	SM	2.5	7.5	UG/G	9/17/90
5.9A @ 79	90.15897	SN	< 500.		NG/G	9/17/90
5.9A @ 79	90.15897	SR	1.4	4.2	UG/G	9/17/90
5.9A @ 79	90.15897	TA	< 500.		NG/G	9/17/90
5.9A @ 79	90.15897	TB	< 500.		NG/G	9/17/90
5.9A @ 79	90.15897	TE	< 500.		NG/G	9/17/90
5.9A @ 79	90.15897	TH	7.1	21.3	UG/G	9/17/90
5.9A @ 79	90.15897	TI	< 5000.		NG/G	9/17/90
5.9A @ 79	90.15897	TL	< 500.		NG/G	9/17/90
5.9A @ 79	90.15897	TM	< 500.		NG/G	9/17/90
5.9A @ 79	90.15897	U	2.4	7.2	UG/G	9/17/90
5.9A @ 79	90.15897	V	< 5000.		NG/G	9/17/90
5.9A @ 79	90.15897	W	< 500.		NG/G	9/17/90
5.9A @ 79	90.15897	Y	6.1	18.3	UG/G	9/17/90
5.9A @ 79	90.15897	YB	1.8	5.4	UG/G	9/17/90
5.9A @ 79	90.15897	ZN	3.9	11.7	UG/G	9/17/90
5.9A @ 79	90.15897	ZR	< 500.		NG/G	9/17/90

REPORT NUMBER: 8173

********** HSE-9 ANALYTICAL REPORT **********

Prepared by: MCW on 17-Sep-1990

ICP MASS SCAN

REQUEST NUMBER: 10602 MATRIX: S ANALYST: Mary Carol Williams PROGRAM CODE: M211

OWNER: Max Maes GROUP: HSE-8 MAIL-STOP: K490 PHONE: 7-0817 TASK-ID: TASK 1

CUSTOMER NUMBER	SAMPLE NUMBER	ANALYSIS	RESULT	UNCERTAINTY	UNITS	COMPLETION DATE	COMMENT
5.9A @ 89	90.15898	AG	< 500.		NG/G	9/17/90	
5.9A @ 89	90.15898	AS	< 500.		NG/G	9/17/90	
5.9A @ 89	90.15898	AU	< 500.		NG/G	9/17/90	
5.9A @ 89	90.15898	B	< 5000.		NG/G	9/17/90	
5.9A @ 89	90.15898	BA	19.	57.	UG/G	9/17/90	
5.9A @ 89	90.15898	BE	< 5000.		NG/G	9/17/90	
5.9A @ 89	90.15898	BI	< 500.		NG/G	9/17/90	
5.9A @ 89	90.15898	CD	< 500.		NG/G	9/17/90	
5.9A @ 89	90.15898	CE	8.	24.	UG/G	9/17/90	
5.9A @ 89	90.15898	CO	< 500.		NG/G	9/17/90	
5.9A @ 89	90.15898	CR	< 500.		NG/G	9/17/90	
5.9A @ 89	90.15898	CS	< 500.		NG/G	9/17/90	
5.9A @ 89	90.15898	CU	< 500.		NG/G	9/17/90	
5.9A @ 89	90.15898	DY	1.9	5.7	UG/G	9/17/90	
5.9A @ 89	90.15898	ER	980.	2900.	NG/G	9/17/90	
5.9A @ 89	90.15898	EU	< 500.		NG/G	9/17/90	
5.9A @ 89	90.15898	GA	< 500.		NG/G	9/17/90	
5.9A @ 89	90.15898	GD	1.9	5.7	UG/G	9/17/90	
5.9A @ 89	90.15898	GE	< 500.		NG/G	9/17/90	
5.9A @ 89	90.15898	HF	< 500.		NG/G	9/17/90	
5.9A @ 89	90.15898	HO	< 500.		NG/G	9/17/90	
5.9A @ 89	90.15898	IN	< 500.		NG/G	9/17/90	
5.9A @ 89	90.15898	IR	< 500.		NG/G	9/17/90	
5.9A @ 89	90.15898	LA	5.3	15.9	UG/G	9/17/90	
5.9A @ 89	90.15898	LI	< 5000.		NG/G	9/17/90	
5.9A @ 89	90.15898	LU	< 500.		NG/G	9/17/90	
5.9A @ 89	90.15898	MN	15.	45.	UG/G	9/17/90	
5.9A @ 89	90.15898	MO	< 500.		NG/G	9/17/90	
5.9A @ 89	90.15898	NB	< 500.		NG/G	9/17/90	
5.9A @ 89	90.15898	ND	6.8	20.4	UG/G	9/17/90	
5.9A @ 89	90.15898	NI	< 500.		NG/G	9/17/90	
5.9A @ 89	90.15898	PB	5.5	16.5	UG/G	9/17/90	
5.9A @ 89	90.15898	PD	< 500.		NG/G	9/17/90	
5.9A @ 89	90.15898	PR	1.6	4.8	UG/G	9/17/90	
5.9A @ 89	90.15898	PT	< 500.		NG/G	9/17/90	
5.9A @ 89	90.15898	RB	1.2	3.6	UG/G	9/17/90	
5.9A @ 89	90.15898	RH	< 500.		NG/G	9/17/90	
5.9A @ 89	90.15898	RU	< 500.		NG/G	9/17/90	
5.9A @ 89	90.15898	SB	< 500.		NG/G	9/17/90	

5.9A @ 89	90.15898	SE	< 5000.		NG/G	9/17/90
5.9A @ 89	90.15898	SM	1.9	5.7	UG/G	9/17/90
5.9A @ 89	90.15898	SN	< 500.		NG/G	9/17/90
5.9A @ 89	90.15898	SR	2.2	6.6	UG/G	9/17/90
5.9A @ 89	90.15898	TA	< 500.		NG/G	9/17/90
5.9A @ 89	90.15898	TB	< 500.		NG/G	9/17/90
5.9A @ 89	90.15898	TE	< 500.		NG/G	9/17/90
5.9A @ 89	90.15898	TH	3.1	9.3	UG/G	9/17/90
5.9A @ 89	90.15898	TI	< 5000.		NG/G	9/17/90
5.9A @ 89	90.15898	TL	< 500.		NG/G	9/17/90
5.9A @ 89	90.15898	TM	< 500.		NG/G	9/17/90
5.9A @ 89	90.15898	U	1.1	3.3	UG/G	9/17/90
5.9A @ 89	90.15898	V	< 5000.		NG/G	9/17/90
5.9A @ 89	90.15898	W	< 500.		NG/G	9/17/90
5.9A @ 89	90.15898	Y	4.1	12.3	UG/G	9/17/90
5.9A @ 89	90.15898	YB	980.	2900.	NG/G	9/17/90
5.9A @ 89	90.15898	ZN	5.1	15.3	UG/G	9/17/90
5.9A @ 89	90.15898	ZR	< 500.		NG/G	9/17/90

REPORT NUMBER: 8173

********** HSE-9 ANALYTICAL REPORT **********

Prepared by: MCW on 17-Sep-1990

ICP MASS SCAN

REQUEST NUMBER: 10602 MATRIX: S ANALYST: Mary Carol Williams PROGRAM CODE: M211

OWNER: Max Maes GROUP: HSE-8 MAIL-STOP: K490 PHONE: 7-0817 TASK-ID: TASK 1

CUSTOMER NUMBER	SAMPLE NUMBER	ANALYSIS	RESULT	UNCERTAINTY	UNITS	COMPLETION DATE	COMMENT
5.9A @ 94	90.15899	AG	< 500.		NG/G	9/17/90	
5.9A @ 94	90.15899	AS	< 500.		NG/G	9/17/90	
5.9A @ 94	90.15899	AU	< 500.		NG/G	9/17/90	
5.9A @ 94	90.15899	B	< 5000.		NG/G	9/17/90	
5.9A @ 94	90.15899	BA	11.	33.	UG/G	9/17/90	
5.9A @ 94	90.15899	BE	< 5000.		NG/G	9/17/90	
5.9A @ 94	90.15899	BI	< 500.		NG/G	9/17/90	
5.9A @ 94	90.15899	CD	< 500.		NG/G	9/17/90	
5.9A @ 94	90.15899	CE	4.3	12.9	UG/G	9/17/90	
5.9A @ 94	90.15899	CO	< 500.		NG/G	9/17/90	
5.9A @ 94	90.15899	CR	< 500.		NG/G	9/17/90	
5.9A @ 94	90.15899	CS	< 500.		NG/G	9/17/90	
5.9A @ 94	90.15899	CU	< 500.		NG/G	9/17/90	
5.9A @ 94	90.15899	DY	1.1	3.3	UG/G	9/17/90	
5.9A @ 94	90.15899	ER	620.	1900.	NG/G	9/17/90	
5.9A @ 94	90.15899	EU	< 500.		NG/G	9/17/90	
5.9A @ 94	90.15899	GA	< 500.		NG/G	9/17/90	
5.9A @ 94	90.15899	GD	1.2	3.6	UG/G	9/17/90	
5.9A @ 94	90.15899	GE	< 500.		NG/G	9/17/90	
5.9A @ 94	90.15899	HF	< 500.		NG/G	9/17/90	
5.9A @ 94	90.15899	HO	< 500.		NG/G	9/17/90	
5.9A @ 94	90.15899	IN	< 500.		NG/G	9/17/90	
5.9A @ 94	90.15899	IR	< 500.		NG/G	9/17/90	
5.9A @ 94	90.15899	LA	2.4	7.2	UG/G	9/17/90	
5.9A @ 94	90.15899	LI	< 5000.		NG/G	9/17/90	
5.9A @ 94	90.15899	LU	< 500.		NG/G	9/17/90	
5.9A @ 94	90.15899	MN	21.	63.	UG/G	9/17/90	
5.9A @ 94	90.15899	MO	< 500.		NG/G	9/17/90	
5.9A @ 94	90.15899	NB	< 500.		NG/G	9/17/90	
5.9A @ 94	90.15899	ND	3.6	10.8	UG/G	9/17/90	
5.9A @ 94	90.15899	NI	< 500.		NG/G	9/17/90	
5.9A @ 94	90.15899	PB	4.9	14.7	UG/G	9/17/90	
5.9A @ 94	90.15899	PD	< 500.		NG/G	9/17/90	
5.9A @ 94	90.15899	PR	750.	2300.	NG/G	9/17/90	
5.9A @ 94	90.15899	PT	< 500.		NG/G	9/17/90	
5.9A @ 94	90.15899	RB	1.3	3.9	UG/G	9/17/90	
5.9A @ 94	90.15899	RH	< 500.		NG/G	9/17/90	
5.9A @ 94	90.15899	RU	< 500.		NG/G	9/17/90	
5.9A @ 94	90.15899	SB	< 500.		NG/G	9/17/90	

5.9A @ 94	90.15899	SE	< 5000.		NG/G	9/17/90
5.9A @ 94	90.15899	SM	1.1	3.3	UG/G	9/17/90
5.9A @ 94	90.15899	SN	< 500.		NG/G	9/17/90
5.9A @ 94	90.15899	SR	2.1	6.3	UG/G	9/17/90
5.9A @ 94	90.15899	TA	< 500.		NG/G	9/17/90
5.9A @ 94	90.15899	TB	< 500.		NG/G	9/17/90
5.9A @ 94	90.15899	TE	< 500.		NG/G	9/17/90
5.9A @ 94	90.15899	TH	1.5	4.5	UG/G	9/17/90
5.9A @ 94	90.15899	TI	< 5000.		NG/G	9/17/90
5.9A @ 94	90.15899	TL	< 500.		NG/G	9/17/90
5.9A @ 94	90.15899	TM	< 500.		NG/G	9/17/90
5.9A @ 94	90.15899	U	590.	1800.	NG/G	9/17/90
5.9A @ 94	90.15899	V	< 5000.		NG/G	9/17/90
5.9A @ 94	90.15899	W	< 500.		NG/G	9/17/90
5.9A @ 94	90.15899	Y	2.6	7.8	UG/G	9/17/90
5.9A @ 94	90.15899	YB	570.	1700.	NG/G	9/17/90
5.9A @ 94	90.15899	ZN	5.	15.	UG/G	9/17/90
5.9A @ 94	90.15899	ZR	< 500.		NG/G	9/17/90

REPORT NUMBER: 8173

********** HSE-9 ANALYTICAL REPORT **********

Prepared by: MCW on 17-Sep-1990

ICP MASS SCAN

REQUEST NUMBER: 10602 MATRIX: S ANALYST: Mary Carol Williams PROGRAM CODE: M211

OWNER: Max Maes GROUP: HSE-8 MAIL-STOP: K490 PHONE: 7-0817 TASK-ID: TASK 1

CUSTOMER NUMBER	SAMPLE NUMBER	ANALYSIS	RESULT	UNCERTAINTY	UNITS	COMPLETION DATE	COMMENT
5.9A @ 99	90.15900	AG	< 500.		NG/G	9/17/90	
5.9A @ 99	90.15900	AS	< 500.		NG/G	9/17/90	
5.9A @ 99	90.15900	AU	< 500.		NG/G	9/17/90	
5.9A @ 99	90.15900	B	< 5000.		NG/G	9/17/90	
5.9A @ 99	90.15900	BA	13.	39.	UG/G	9/17/90	
5.9A @ 99	90.15900	BE	< 5000.		NG/G	9/17/90	
5.9A @ 99	90.15900	BI	< 500.		NG/G	9/17/90	
5.9A @ 99	90.15900	CD	< 500.		NG/G	9/17/90	
5.9A @ 99	90.15900	CE	3.1	9.3	UG/G	9/17/90	
5.9A @ 99	90.15900	CO	< 500.		NG/G	9/17/90	
5.9A @ 99	90.15900	CR	640.	1900.	NG/G	9/17/90	
5.9A @ 99	90.15900	CS	< 500.		NG/G	9/17/90	
5.9A @ 99	90.15900	CU	< 500.		NG/G	9/17/90	
5.9A @ 99	90.15900	DY	1.3	3.9	UG/G	9/17/90	
5.9A @ 99	90.15900	ER	830.	2500.	NG/G	9/17/90	
5.9A @ 99	90.15900	EU	< 500.		NG/G	9/17/90	
5.9A @ 99	90.15900	GA	< 500.		NG/G	9/17/90	
5.9A @ 99	90.15900	GD	1.4	4.2	UG/G	9/17/90	
5.9A @ 99	90.15900	GE	< 500.		NG/G	9/17/90	
5.9A @ 99	90.15900	HF	< 500.		NG/G	9/17/90	
5.9A @ 99	90.15900	HO	< 500.		NG/G	9/17/90	
5.9A @ 99	90.15900	IN	< 500.		NG/G	9/17/90	
5.9A @ 99	90.15900	IR	< 500.		NG/G	9/17/90	
5.9A @ 99	90.15900	LA	3.5	10.5	UG/G	9/17/90	
5.9A @ 99	90.15900	LI	< 5000.		NG/G	9/17/90	
5.9A @ 99	90.15900	LU	< 500.		NG/G	9/17/90	
5.9A @ 99	90.15900	MN	16.	48.	UG/G	9/17/90	
5.9A @ 99	90.15900	MO	< 500.		NG/G	9/17/90	
5.9A @ 99	90.15900	NB	< 500.		NG/G	9/17/90	
5.9A @ 99	90.15900	ND	4.8	14.4	UG/G	9/17/90	
5.9A @ 99	90.15900	NI	< 500.		NG/G	9/17/90	
5.9A @ 99	90.15900	PB	6.4	19.2	UG/G	9/17/90	
5.9A @ 99	90.15900	PD	< 500.		NG/G	9/17/90	
5.9A @ 99	90.15900	PR	1.2	3.6	UG/G	9/17/90	
5.9A @ 99	90.15900	PT	< 500.		NG/G	9/17/90	
5.9A @ 99	90.15900	RB	1.3	3.9	UG/G	9/17/90	
5.9A @ 99	90.15900	RH	< 500.		NG/G	9/17/90	
5.9A @ 99	90.15900	RU	< 500.		NG/G	9/17/90	
5.9A @ 99	90.15900	SB	< 500.		NG/G	9/17/90	

5.9A @ 99	90.15900	SE	< 5000.		NG/G	9/17/90
5.9A @ 99	90.15900	SM	1.4	4.2	UG/G	9/17/90
5.9A @ 99	90.15900	SN	< 500.		NG/G	9/17/90
5.9A @ 99	90.15900	SR	2.7	8.1	UG/G	9/17/90
5.9A @ 99	90.15900	TA	< 500.		NG/G	9/17/90
5.9A @ 99	90.15900	TB	< 500.		NG/G	9/17/90
5.9A @ 99	90.15900	TE	< 500.		NG/G	9/17/90
5.9A @ 99	90.15900	TH	2.2	6.6	UG/G	9/17/90
5.9A @ 99	90.15900	TI	< 5000.		NG/G	9/17/90
5.9A @ 99	90.15900	TL	< 500.		NG/G	9/17/90
5.9A @ 99	90.15900	TM	< 500.		NG/G	9/17/90
5.9A @ 99	90.15900	U	1.5	4.5	UG/G	9/17/90
5.9A @ 99	90.15900	V	< 5000.		NG/G	9/17/90
5.9A @ 99	90.15900	W	< 500.		NG/G	9/17/90
5.9A @ 99	90.15900	Y	3.5	10.5	UG/G	9/17/90
5.9A @ 99	90.15900	YB	870.	2600.	NG/G	9/17/90
5.9A @ 99	90.15900	ZN	4.3	12.9	UG/G	9/17/90
5.9A @ 99	90.15900	ZR	< 500.		NG/G	9/17/90

REPORT NUMBER: 8173

********** HSE-9 ANALYTICAL REPORT **********

Prepared by: MCW on 17-Sep-1990

ICP MASS SCAN

REQUEST NUMBER: 10602 MATRIX: S ANALYST: Mary Carol Williams PROGRAM CODE: M211

OWNER: Max Maes GROUP: HSE-8 MAIL-STOP: K490 PHONE: 7-0817 TASK-ID: TASK 1

CUSTOMER NUMBER	SAMPLE NUMBER	ANALYSIS	RESULT	UNCERTAINTY	UNITS	COMPLETION DATE	COMMENT
5.9A @ 102	90.15901	AG	< 500.		NG/G	9/17/90	
5.9A @ 102	90.15901	AS	< 500.		NG/G	9/17/90	
5.9A @ 102	90.15901	AU	< 500.		NG/G	9/17/90	
5.9A @ 102	90.15901	B	< 5000.		NG/G	9/17/90	
5.9A @ 102	90.15901	BA	5.9	17.7	UG/G	9/17/90	
5.9A @ 102	90.15901	BE	< 5000.		NG/G	9/17/90	
5.9A @ 102	90.15901	BI	< 500.		NG/G	9/17/90	
5.9A @ 102	90.15901	CD	< 500.		NG/G	9/17/90	
5.9A @ 102	90.15901	CE	4.7	14.1	UG/G	9/17/90	
5.9A @ 102	90.15901	CO	< 500.		NG/G	9/17/90	
5.9A @ 102	90.15901	CR	< 500.		NG/G	9/17/90	
5.9A @ 102	90.15901	CS	< 500.		NG/G	9/17/90	
5.9A @ 102	90.15901	CU	< 500.		NG/G	9/17/90	
5.9A @ 102	90.15901	DY	580.	1700.	NG/G	9/17/90	
5.9A @ 102	90.15901	ER	< 500.		NG/G	9/17/90	
5.9A @ 102	90.15901	EU	< 500.		NG/G	9/17/90	
5.9A @ 102	90.15901	GA	< 500.		NG/G	9/17/90	
5.9A @ 102	90.15901	GD	540.	1600.	NG/G	9/17/90	
5.9A @ 102	90.15901	GE	< 500.		NG/G	9/17/90	
5.9A @ 102	90.15901	HF	< 500.		NG/G	9/17/90	
5.9A @ 102	90.15901	HO	< 500.		NG/G	9/17/90	
5.9A @ 102	90.15901	IN	< 500.		NG/G	9/17/90	
5.9A @ 102	90.15901	IR	< 500.		NG/G	9/17/90	
5.9A @ 102	90.15901	LA	2.4	7.2	UG/G	9/17/90	
5.9A @ 102	90.15901	LI	< 5000.		NG/G	9/17/90	
5.9A @ 102	90.15901	LU	< 500.		NG/G	9/17/90	
5.9A @ 102	90.15901	MN	18.	54.	UG/G	9/17/90	
5.9A @ 102	90.15901	MO	< 500.		NG/G	9/17/90	
5.9A @ 102	90.15901	NB	< 500.		NG/G	9/17/90	
5.9A @ 102	90.15901	ND	3.3	9.9	UG/G	9/17/90	
5.9A @ 102	90.15901	NI	2.8	8.4	UG/G	9/17/90	
5.9A @ 102	90.15901	PB	3.8	11.4	UG/G	9/17/90	
5.9A @ 102	90.15901	PD	< 500.		NG/G	9/17/90	
5.9A @ 102	90.15901	PR	730.	2200.	NG/G	9/17/90	
5.9A @ 102	90.15901	PT	< 500.		NG/G	9/17/90	
5.9A @ 102	90.15901	RB	710.	2100.	NG/G	9/17/90	
5.9A @ 102	90.15901	RH	< 500.		NG/G	9/17/90	
5.9A @ 102	90.15901	RU	< 500.		NG/G	9/17/90	
5.9A @ 102	90.15901	SB	< 500.		NG/G	9/17/90	

5.9A @ 102	90.15901	SE	< 5000.		NG/G	9/17/90
5.9A @ 102	90.15901	SM	720.	2200.	NG/G	9/17/90
5.9A @ 102	90.15901	SN	< 500.		NG/G	9/17/90
5.9A @ 102	90.15901	SR	1.9	5.7	UG/G	9/17/90
5.9A @ 102	90.15901	TA	< 500.		NG/G	9/17/90
5.9A @ 102	90.15901	TB	< 500.		NG/G	9/17/90
5.9A @ 102	90.15901	TE	< 500.		NG/G	9/17/90
5.9A @ 102	90.15901	TH	2.3	6.9	UG/G	9/17/90
5.9A @ 102	90.15901	TI	5.1	15.3	UG/G	9/17/90
5.9A @ 102	90.15901	TL	< 500.		NG/G	9/17/90
5.9A @ 102	90.15901	TM	< 500.		NG/G	9/17/90
5.9A @ 102	90.15901	U	550.	1700.	NG/G	9/17/90
5.9A @ 102	90.15901	V	< 5000.		NG/G	9/17/90
5.9A @ 102	90.15901	W	< 500.		NG/G	9/17/90
5.9A @ 102	90.15901	Y	1.3	3.9	UG/G	9/17/90
5.9A @ 102	90.15901	YB	< 500.		NG/G	9/17/90
5.9A @ 102	90.15901	ZN	4.4	13.2	UG/G	9/17/90
5.9A @ 102	90.15901	ZR	< 500.		NG/G	9/17/90

REPORT NUMBER: 8173

********** HSE-9 ANALYTICAL REPORT **********

Prepared by: MCW on 17-Sep-1990

ICP MASS SCAN

REQUEST NUMBER: 10602 MATRIX: S ANALYST: Mary Carol Williams PROGRAM CODE: M211

OWNER: Max Maes GROUP: HSE-8 MAIL-STOP: K490 PHONE: 7-0817 TASK-ID: TASK 1

CUSTOMER NUMBER	SAMPLE NUMBER	ANALYSIS	RESULT	UNCERTAINTY	UNITS	COMPLETION DATE	COMMENT
5.9A @ 104	90.15902	AG	< 500.		NG/G	9/17/90	
5.9A @ 104	90.15902	AS	< 500.		NG/G	9/17/90	
5.9A @ 104	90.15902	AU	< 500.		NG/G	9/17/90	
5.9A @ 104	90.15902	B	< 5000.		NG/G	9/17/90	
5.9A @ 104	90.15902	BA	12.	36.	UG/G	9/17/90	
5.9A @ 104	90.15902	BE	< 5000.		NG/G	9/17/90	
5.9A @ 104	90.15902	BI	< 500.		NG/G	9/17/90	
5.9A @ 104	90.15902	CD	< 500.		NG/G	9/17/90	
5.9A @ 104	90.15902	CE	6.7	20.1	UG/G	9/17/90	
5.9A @ 104	90.15902	CO	< 500.		NG/G	9/17/90	
5.9A @ 104	90.15902	CR	500.	1500.	NG/G	9/17/90	
5.9A @ 104	90.15902	CS	< 500.		NG/G	9/17/90	
5.9A @ 104	90.15902	CU	< 500.		NG/G	9/17/90	
5.9A @ 104	90.15902	DY	970.	2900.	NG/G	9/17/90	
5.9A @ 104	90.15902	ER	540.	1600.	NG/G	9/17/90	
5.9A @ 104	90.15902	EU	< 500.		NG/G	9/17/90	
5.9A @ 104	90.15902	GA	< 500.		NG/G	9/17/90	
5.9A @ 104	90.15902	GD	1.2	3.6	UG/G	9/17/90	
5.9A @ 104	90.15902	GE	< 500.		NG/G	9/17/90	
5.9A @ 104	90.15902	HF	< 500.		NG/G	9/17/90	
5.9A @ 104	90.15902	HO	< 500.		NG/G	9/17/90	
5.9A @ 104	90.15902	IN	< 500.		NG/G	9/17/90	
5.9A @ 104	90.15902	IR	< 500.		NG/G	9/17/90	
5.9A @ 104	90.15902	LA	3.8	11.4	UG/G	9/17/90	
5.9A @ 104	90.15902	LI	< 5000.		NG/G	9/17/90	
5.9A @ 104	90.15902	LU	< 500.		NG/G	9/17/90	
5.9A @ 104	90.15902	MN	17.	51.	UG/G	9/17/90	
5.9A @ 104	90.15902	MO	< 500.		NG/G	9/17/90	
5.9A @ 104	90.15902	NB	< 500.		NG/G	9/17/90	
5.9A @ 104	90.15902	ND	5.	15.	UG/G	9/17/90	
5.9A @ 104	90.15902	NI	< 500.		NG/G	9/17/90	
5.9A @ 104	90.15902	PB	6.6	19.8	UG/G	9/17/90	
5.9A @ 104	90.15902	PD	< 500.		NG/G	9/17/90	
5.9A @ 104	90.15902	PR	1.2	3.6	UG/G	9/17/90	
5.9A @ 104	90.15902	PT	< 500.		NG/G	9/17/90	
5.9A @ 104	90.15902	RB	1.4	4.2	UG/G	9/17/90	
5.9A @ 104	90.15902	RH	< 500.		NG/G	9/17/90	
5.9A @ 104	90.15902	RU	< 500.		NG/G	9/17/90	
5.9A @ 104	90.15902	SB	< 500.		NG/G	9/17/90	

5.9A @ 104	90.15902	SE	< 5000.		NG/G	9/17/90
5.9A @ 104	90.15902	SM	920.	2800.	NG/G	9/17/90
5.9A @ 104	90.15902	SN	< 500.		NG/G	9/17/90
5.9A @ 104	90.15902	SR	2.4	7.2	UG/G	9/17/90
5.9A @ 104	90.15902	TA	< 500.		NG/G	9/17/90
5.9A @ 104	90.15902	TB	< 500.		NG/G	9/17/90
5.9A @ 104	90.15902	TE	< 500.		NG/G	9/17/90
5.9A @ 104	90.15902	TH	2.4	7.2	UG/G	9/17/90
5.9A @ 104	90.15902	TI	< 5000.		NG/G	9/17/90
5.9A @ 104	90.15902	TL	< 500.		NG/G	9/17/90
5.9A @ 104	90.15902	TM	< 500.		NG/G	9/17/90
5.9A @ 104	90.15902	U	890.	2700.	NG/G	9/17/90
5.9A @ 104	90.15902	V	< 5000.		NG/G	9/17/90
5.9A @ 104	90.15902	W	< 500.		NG/G	9/17/90
5.9A @ 104	90.15902	Y	2.7	8.1	UG/G	9/17/90
5.9A @ 104	90.15902	YB	640.	1900.	NG/G	9/17/90
5.9A @ 104	90.15902	ZN	4.2	12.6	UG/G	9/17/90
5.9A @ 104	90.15902	ZR	< 500.		NG/G	9/17/90

REPORT NUMBER: 8173

********** HSE-9 ANALYTICAL REPORT **********

Prepared by: MCW on 17-Sep-1990

ICP MASS SCAN

REQUEST NUMBER: 10602 MATRIX: S ANALYST: Mary Carol Williams PROGRAM CODE: M211

OWNER: Max Maes GROUP: HSE-8 MAIL-STOP: K490 PHONE: 7-0817 TASK-ID: TASK 1

CUSTOMER NUMBER	SAMPLE NUMBER	ANALYSIS	RESULT	UNCERTAINTY	UNITS	COMPLETION DATE	COMMENT
5.9A @ 109	90.15903	AG	< 500.		NG/G	9/17/90	
5.9A @ 109	90.15903	AS	< 500.		NG/G	9/17/90	
5.9A @ 109	90.15903	AU	< 500.		NG/G	9/17/90	
5.9A @ 109	90.15903	B	< 5000.		NG/G	9/17/90	
5.9A @ 109	90.15903	BA	4.3	12.9	UG/G	9/17/90	
5.9A @ 109	90.15903	BE	< 5000.		NG/G	9/17/90	
5.9A @ 109	90.15903	BI	< 500.		NG/G	9/17/90	
5.9A @ 109	90.15903	CD	< 500.		NG/G	9/17/90	
5.9A @ 109	90.15903	CE	4.5	13.5	UG/G	9/17/90	
5.9A @ 109	90.15903	CO	< 500.		NG/G	9/17/90	
5.9A @ 109	90.15903	CR	< 500.		NG/G	9/17/90	
5.9A @ 109	90.15903	CS	< 500.		NG/G	9/17/90	
5.9A @ 109	90.15903	CU	< 500.		NG/G	9/17/90	
5.9A @ 109	90.15903	DY	660.	2000.	NG/G	9/17/90	
5.9A @ 109	90.15903	ER	< 500.		NG/G	9/17/90	
5.9A @ 109	90.15903	EU	< 500.		NG/G	9/17/90	
5.9A @ 109	90.15903	GA	< 500.		NG/G	9/17/90	
5.9A @ 109	90.15903	GD	710.	2100.	NG/G	9/17/90	
5.9A @ 109	90.15903	GE	< 500.		NG/G	9/17/90	
5.9A @ 109	90.15903	HF	< 500.		NG/G	9/17/90	
5.9A @ 109	90.15903	HO	< 500.		NG/G	9/17/90	
5.9A @ 109	90.15903	IN	< 500.		NG/G	9/17/90	
5.9A @ 109	90.15903	IR	< 500.		NG/G	9/17/90	
5.9A @ 109	90.15903	LA	2.1	6.3	UG/G	9/17/90	
5.9A @ 109	90.15903	LI	< 5000.		NG/G	9/17/90	
5.9A @ 109	90.15903	LU	< 500.		NG/G	9/17/90	
5.9A @ 109	90.15903	MN	15.	45.	UG/G	9/17/90	
5.9A @ 109	90.15903	MO	< 500.		NG/G	9/17/90	
5.9A @ 109	90.15903	NB	< 500.		NG/G	9/17/90	
5.9A @ 109	90.15903	ND	3.4	10.2	UG/G	9/17/90	
5.9A @ 109	90.15903	NI	< 500.		NG/G	9/17/90	
5.9A @ 109	90.15903	PB	1.6	4.8	UG/G	9/17/90	
5.9A @ 109	90.15903	PD	< 500.		NG/G	9/17/90	
5.9A @ 109	90.15903	PR	810.	2400.	NG/G	9/17/90	
5.9A @ 109	90.15903	PT	< 500.		NG/G	9/17/90	
5.9A @ 109	90.15903	RB	810.	2400.	NG/G	9/17/90	
5.9A @ 109	90.15903	RH	< 500.		NG/G	9/17/90	
5.9A @ 109	90.15903	RU	< 500.		NG/G	9/17/90	
5.9A @ 109	90.15903	SB	< 500.		NG/G	9/17/90	

5.9A @ 109	90.15903	SE	< 5000.		NG/G	9/17/90
5.9A @ 109	90.15903	SM	740.	2200.	NG/G	9/17/90
5.9A @ 109	90.15903	SN	< 500.		NG/G	9/17/90
5.9A @ 109	90.15903	SR	910.	2700.	NG/G	9/17/90
5.9A @ 109	90.15903	TA	< 500.		NG/G	9/17/90
5.9A @ 109	90.15903	TB	< 500.		NG/G	9/17/90
5.9A @ 109	90.15903	TE	< 500.		NG/G	9/17/90
5.9A @ 109	90.15903	TH	1.5	4.5	UG/G	9/17/90
5.9A @ 109	90.15903	TI	< 5000.		NG/G	9/17/90
5.9A @ 109	90.15903	TL	< 500.		NG/G	9/17/90
5.9A @ 109	90.15903	TM	< 500.		NG/G	9/17/90
5.9A @ 109	90.15903	U	< 500.		NG/G	9/17/90
5.9A @ 109	90.15903	V	< 5000.		NG/G	9/17/90
5.9A @ 109	90.15903	W	< 500.		NG/G	9/17/90
5.9A @ 109	90.15903	Y	1.5	4.5	UG/G	9/17/90
5.9A @ 109	90.15903	YB	< 500.		NG/G	9/17/90
5.9A @ 109	90.15903	ZN	1.9	5.7	UG/G	9/17/90
5.9A @ 109	90.15903	ZR	< 500.		NG/G	9/17/90

REPORT NUMBER: 8173

********** HSE-9 ANALYTICAL REPORT **********

Prepared by: MCW on 17-Sep-1990

ICP MASS SCAN

REQUEST NUMBER: 10602 MATRIX: S ANALYST: Mary Carol Williams PROGRAM CODE: M211

OWNER: Max Maes GROUP: HSE-8 MAIL-STOP: K490 PHONE: 7-0817 TASK-ID: TASK 1

CUSTOMER NUMBER	SAMPLE NUMBER	ANALYSIS	RESULT	UNCERTAINTY	UNITS	COMPLETION DATE	COMMENT
5.9A @ 114	90.15904	AG	< 500.			NG/G	9/17/90
5.9A @ 114	90.15904	AS	< 500.			NG/G	9/17/90
5.9A @ 114	90.15904	AU	< 500.			NG/G	9/17/90
5.9A @ 114	90.15904	B	< 5000.			NG/G	9/17/90
5.9A @ 114	90.15904	BA	9.2	27.6		UG/G	9/17/90
5.9A @ 114	90.15904	BE	< 5000.			NG/G	9/17/90
5.9A @ 114	90.15904	BI	< 500.			NG/G	9/17/90
5.9A @ 114	90.15904	CD	< 500.			NG/G	9/17/90
5.9A @ 114	90.15904	CE	4.8	14.4		UG/G	9/17/90
5.9A @ 114	90.15904	CO	< 500.			NG/G	9/17/90
5.9A @ 114	90.15904	CR	< 500.			NG/G	9/17/90
5.9A @ 114	90.15904	CS	< 500.			NG/G	9/17/90
5.9A @ 114	90.15904	CU	< 500.			NG/G	9/17/90
5.9A @ 114	90.15904	DY	730.	2200.		NG/G	9/17/90
5.9A @ 114	90.15904	ER	< 500.			NG/G	9/17/90
5.9A @ 114	90.15904	EU	< 500.			NG/G	9/17/90
5.9A @ 114	90.15904	GA	< 500.			NG/G	9/17/90
5.9A @ 114	90.15904	GD	640.	1900.		NG/G	9/17/90
5.9A @ 114	90.15904	GE	< 500.			NG/G	9/17/90
5.9A @ 114	90.15904	HF	< 500.			NG/G	9/17/90
5.9A @ 114	90.15904	HO	< 500.			NG/G	9/17/90
5.9A @ 114	90.15904	IN	< 500.			NG/G	9/17/90
5.9A @ 114	90.15904	IR	< 500.			NG/G	9/17/90
5.9A @ 114	90.15904	LA	2.7	8.1		UG/G	9/17/90
5.9A @ 114	90.15904	LI	< 5000.			NG/G	9/17/90
5.9A @ 114	90.15904	LU	< 500.			NG/G	9/17/90
5.9A @ 114	90.15904	MN	23.	69.		UG/G	9/17/90
5.9A @ 114	90.15904	MO	< 500.			NG/G	9/17/90
5.9A @ 114	90.15904	NB	< 500.			NG/G	9/17/90
5.9A @ 114	90.15904	ND	3.5	10.5		UG/G	9/17/90
5.9A @ 114	90.15904	NI	< 500.			NG/G	9/17/90
5.9A @ 114	90.15904	PB	1.5	4.5		UG/G	9/17/90
5.9A @ 114	90.15904	PD	< 500.			NG/G	9/17/90
5.9A @ 114	90.15904	PR	850.	2600.		NG/G	9/17/90
5.9A @ 114	90.15904	PT	< 500.			NG/G	9/17/90
5.9A @ 114	90.15904	RB	1.5	4.5		UG/G	9/17/90
5.9A @ 114	90.15904	RH	< 500.			NG/G	9/17/90
5.9A @ 114	90.15904	RU	< 500.			NG/G	9/17/90
5.9A @ 114	90.15904	SB	< 500.			NG/G	9/17/90

5.9A @ 114	90.15904	SE	< 5000.		NG/G	9/17/90
5.9A @ 114	90.15904	SM	790.	2400.	NG/G	9/17/90
5.9A @ 114	90.15904	SN	< 500.		NG/G	9/17/90
5.9A @ 114	90.15904	SR	1.8	5.4	UG/G	9/17/90
5.9A @ 114	90.15904	TA	< 500.		NG/G	9/17/90
5.9A @ 114	90.15904	TB	< 500.		NG/G	9/17/90
5.9A @ 114	90.15904	TE	< 500.		NG/G	9/17/90
5.9A @ 114	90.15904	TH	1.8	5.4	UG/G	9/17/90
5.9A @ 114	90.15904	TI	< 5000.		NG/G	9/17/90
5.9A @ 114	90.15904	TL	< 500.		NG/G	9/17/90
5.9A @ 114	90.15904	TM	< 500.		NG/G	9/17/90
5.9A @ 114	90.15904	U	< 500.		NG/G	9/17/90
5.9A @ 114	90.15904	V	< 5000.		NG/G	9/17/90
5.9A @ 114	90.15904	W	< 500.		NG/G	9/17/90
5.9A @ 114	90.15904	Y	1.9	5.7	UG/G	9/17/90
5.9A @ 114	90.15904	YB	< 500.		NG/G	9/17/90
5.9A @ 114	90.15904	ZN	3.4	10.2	UG/G	9/17/90
5.9A @ 114	90.15904	ZR	< 500.		NG/G	9/17/90

REPORT NUMBER: 8173

********** HSE-9 ANALYTICAL REPORT **********

Prepared by: MCW on 17-Sep-1990

ICP MASS SCAN

REQUEST NUMBER: 10602 MATRIX: S ANALYST: Mary Carol Williams PROGRAM CODE: M211

OWNER: Max Maes GROUP: HSE-8 MAIL-STOP: K490 PHONE: 7-0817 TASK-ID: TASK 1

CUSTOMER NUMBER	SAMPLE NUMBER	ANALYSIS	RESULT	UNCERTAINTY	UNITS	COMPLETION DATE	COMMENT
5.9A @ 119	90.15905	AG	< 500.			NG/G	9/17/90
5.9A @ 119	90.15905	AS	< 500.			NG/G	9/17/90
5.9A @ 119	90.15905	AU	< 500.			NG/G	9/17/90
5.9A @ 119	90.15905	B	< 5000.			NG/G	9/17/90
5.9A @ 119	90.15905	BA	5.4	16.2		UG/G	9/17/90
5.9A @ 119	90.15905	BE	< 5000.			NG/G	9/17/90
5.9A @ 119	90.15905	BI	< 500.			NG/G	9/17/90
5.9A @ 119	90.15905	CD	< 500.			NG/G	9/17/90
5.9A @ 119	90.15905	CE	8.6	25.8		UG/G	9/17/90
5.9A @ 119	90.15905	CO	< 500.			NG/G	9/17/90
5.9A @ 119	90.15905	CR	< 500.			NG/G	9/17/90
5.9A @ 119	90.15905	CS	< 500.			NG/G	9/17/90
5.9A @ 119	90.15905	CU	< 500.			NG/G	9/17/90
5.9A @ 119	90.15905	DY	980.	2900.		NG/G	9/17/90
5.9A @ 119	90.15905	ER	< 500.			NG/G	9/17/90
5.9A @ 119	90.15905	EU	< 500.			NG/G	9/17/90
5.9A @ 119	90.15905	GA	< 500.			NG/G	9/17/90
5.9A @ 119	90.15905	GD	1.5	4.5		UG/G	9/17/90
5.9A @ 119	90.15905	GE	< 500.			NG/G	9/17/90
5.9A @ 119	90.15905	HF	< 500.			NG/G	9/17/90
5.9A @ 119	90.15905	HO	< 500.			NG/G	9/17/90
5.9A @ 119	90.15905	IN	< 500.			NG/G	9/17/90
5.9A @ 119	90.15905	IR	< 500.			NG/G	9/17/90
5.9A @ 119	90.15905	LA	3.8	11.4		UG/G	9/17/90
5.9A @ 119	90.15905	LI	< 5000.			NG/G	9/17/90
5.9A @ 119	90.15905	LU	< 500.			NG/G	9/17/90
5.9A @ 119	90.15905	MN	22.	66.		UG/G	9/17/90
5.9A @ 119	90.15905	MO	< 500.			NG/G	9/17/90
5.9A @ 119	90.15905	NB	< 500.			NG/G	9/17/90
5.9A @ 119	90.15905	ND	6.5	19.5		UG/G	9/17/90
5.9A @ 119	90.15905	NI	< 500.			NG/G	9/17/90
5.9A @ 119	90.15905	PB	1.3	3.9		UG/G	9/17/90
5.9A @ 119	90.15905	PD	< 500.			NG/G	9/17/90
5.9A @ 119	90.15905	PR	1.4	4.2		UG/G	9/17/90
5.9A @ 119	90.15905	PT	< 500.			NG/G	9/17/90
5.9A @ 119	90.15905	RB	900.	2700.		NG/G	9/17/90
5.9A @ 119	90.15905	RH	< 500.			NG/G	9/17/90
5.9A @ 119	90.15905	RU	< 500.			NG/G	9/17/90
5.9A @ 119	90.15905	SB	< 500.			NG/G	9/17/90

5.9A @ 119	90.15905	SE	< 5000.		NG/G	9/17/90
5.9A @ 119	90.15905	SM	1.6	4.8	UG/G	9/17/90
5.9A @ 119	90.15905	SN	< 500.		NG/G	9/17/90
5.9A @ 119	90.15905	SR	1.2	3.6	UG/G	9/17/90
5.9A @ 119	90.15905	TA	< 500.		NG/G	9/17/90
5.9A @ 119	90.15905	TB	< 500.		NG/G	9/17/90
5.9A @ 119	90.15905	TE	< 500.		NG/G	9/17/90
5.9A @ 119	90.15905	TH	1.7	5.1	UG/G	9/17/90
5.9A @ 119	90.15905	TI	< 5000.		NG/G	9/17/90
5.9A @ 119	90.15905	TL	< 500.		NG/G	9/17/90
5.9A @ 119	90.15905	TM	< 500.		NG/G	9/17/90
5.9A @ 119	90.15905	U	< 500.		NG/G	9/17/90
5.9A @ 119	90.15905	V	< 5000.		NG/G	9/17/90
5.9A @ 119	90.15905	W	< 500.		NG/G	9/17/90
5.9A @ 119	90.15905	Y	2.7	8.1	UG/G	9/17/90
5.9A @ 119	90.15905	YB	< 500.		NG/G	9/17/90
5.9A @ 119	90.15905	ZN	2.3	6.9	UG/G	9/17/90
5.9A @ 119	90.15905	ZR	< 500.		NG/G	9/17/90

REPORT NUMBER: 8173

********** HSE-9 ANALYTICAL REPORT **********

Prepared by: MCW on 17-Sep-1990

ICP MASS SCAN

REQUEST NUMBER: 10602 MATRIX: S ANALYST: Mary Carol Williams PROGRAM CODE: M211

OWNER: Max Maes GROUP: HSE-8 MAIL-STOP: K490 PHONE: 7-0817 TASK-ID: TASK 1

CUSTOMER NUMBER	SAMPLE NUMBER	ANALYSIS	RESULT	UNCERTAINTY	UNITS	COMPLETION DATE	COMMENT
5.9A @ 124	90.15906	AG	< 500.			NG/G	9/17/90
5.9A @ 124	90.15906	AS	< 500.			NG/G	9/17/90
5.9A @ 124	90.15906	AU	< 500.			NG/G	9/17/90
5.9A @ 124	90.15906	B	< 5000.			NG/G	9/17/90
5.9A @ 124	90.15906	BA	7.1	21.3		UG/G	9/17/90
5.9A @ 124	90.15906	BE	< 5000.			NG/G	9/17/90
5.9A @ 124	90.15906	BI	< 500.			NG/G	9/17/90
5.9A @ 124	90.15906	CD	< 500.			NG/G	9/17/90
5.9A @ 124	90.15906	CE	2.9	8.7		UG/G	9/17/90
5.9A @ 124	90.15906	CO	< 500.			NG/G	9/17/90
5.9A @ 124	90.15906	CR	540.	1600.		NG/G	9/17/90
5.9A @ 124	90.15906	CS	< 500.			NG/G	9/17/90
5.9A @ 124	90.15906	CU	< 500.			NG/G	9/17/90
5.9A @ 124	90.15906	DY	< 500.			NG/G	9/17/90
5.9A @ 124	90.15906	ER	< 500.			NG/G	9/17/90
5.9A @ 124	90.15906	EU	< 500.			NG/G	9/17/90
5.9A @ 124	90.15906	GA	< 500.			NG/G	9/17/90
5.9A @ 124	90.15906	GD	< 500.			NG/G	9/17/90
5.9A @ 124	90.15906	GE	< 500.			NG/G	9/17/90
5.9A @ 124	90.15906	HF	< 500.			NG/G	9/17/90
5.9A @ 124	90.15906	HO	< 500.			NG/G	9/17/90
5.9A @ 124	90.15906	IN	< 500.			NG/G	9/17/90
5.9A @ 124	90.15906	IR	< 500.			NG/G	9/17/90
5.9A @ 124	90.15906	LA	1.5	4.5		UG/G	9/17/90
5.9A @ 124	90.15906	LI	< 5000.			NG/G	9/17/90
5.9A @ 124	90.15906	LU	< 500.			NG/G	9/17/90
5.9A @ 124	90.15906	MN	10.	30.		UG/G	9/17/90
5.9A @ 124	90.15906	MO	< 500.			NG/G	9/17/90
5.9A @ 124	90.15906	NB	< 500.			NG/G	9/17/90
5.9A @ 124	90.15906	ND	1.7	5.1		UG/G	9/17/90
5.9A @ 124	90.15906	NI	< 500.			NG/G	9/17/90
5.9A @ 124	90.15906	PB	940.	2800.		NG/G	9/17/90
5.9A @ 124	90.15906	PD	< 500.			NG/G	9/17/90
5.9A @ 124	90.15906	PR	< 500.			NG/G	9/17/90
5.9A @ 124	90.15906	PT	< 500.			NG/G	9/17/90
5.9A @ 124	90.15906	RB	1.2	3.6		UG/G	9/17/90
5.9A @ 124	90.15906	RH	< 500.			NG/G	9/17/90
5.9A @ 124	90.15906	RU	< 500.			NG/G	9/17/90
5.9A @ 124	90.15906	SB	< 500.			NG/G	9/17/90

5.9A @ 124	90.15906	SE	< 5000.		NG/G	9/17/90
5.9A @ 124	90.15906	SM	< 500.		NG/G	9/17/90
5.9A @ 124	90.15906	SN	< 500.		NG/G	9/17/90
5.9A @ 124	90.15906	SR	780.	2300.	NG/G	9/17/90
5.9A @ 124	90.15906	TA	< 500.		NG/G	9/17/90
5.9A @ 124	90.15906	TB	< 500.		NG/G	9/17/90
5.9A @ 124	90.15906	TE	< 500.		NG/G	9/17/90
5.9A @ 124	90.15906	TH	580.	1700.	NG/G	9/17/90
5.9A @ 124	90.15906	TI	< 5000.		NG/G	9/17/90
5.9A @ 124	90.15906	TL	< 500.		NG/G	9/17/90
5.9A @ 124	90.15906	TM	< 500.		NG/G	9/17/90
5.9A @ 124	90.15906	U	< 500.		NG/G	9/17/90
5.9A @ 124	90.15906	V	< 5000.		NG/G	9/17/90
5.9A @ 124	90.15906	W	< 500.		NG/G	9/17/90
5.9A @ 124	90.15906	Y	790.	2400.	NG/G	9/17/90
5.9A @ 124	90.15906	YB	< 500.		NG/G	9/17/90
5.9A @ 124	90.15906	ZN	1000.	3000.	NG/G	9/17/90
5.9A @ 124	90.15906	ZR	< 500.		NG/G	9/17/90

REPORT NUMBER: 8173

********** HSE-9 ANALYTICAL REPORT **********

Prepared by: MCW on 17-Sep-1990

ICP MASS SCAN

REQUEST NUMBER: 10602 MATRIX: S ANALYST: Mary Carol Williams PROGRAM CODE: M211

OWNER: Max Maes GROUP: HSE-8 MAIL-STOP: K490 PHONE: 7-0817 TASK-ID: TASK 1

CUSTOMER NUMBER	SAMPLE NUMBER	ANALYSIS	RESULT	UNCERTAINTY	UNITS	COMPLETION DATE	COMMENT
5.9A @ 129	90.15907	AG	< 500.		NG/G	9/17/90	
5.9A @ 129	90.15907	AS	< 500.		NG/G	9/17/90	
5.9A @ 129	90.15907	AU	< 500.		NG/G	9/17/90	
5.9A @ 129	90.15907	B	< 5000.		NG/G	9/17/90	
5.9A @ 129	90.15907	BA	6.7	20.1	UG/G	9/17/90	
5.9A @ 129	90.15907	BE	< 5000.		NG/G	9/17/90	
5.9A @ 129	90.15907	BI	< 500.		NG/G	9/17/90	
5.9A @ 129	90.15907	CD	< 500.		NG/G	9/17/90	
5.9A @ 129	90.15907	CE	2.5	7.5	UG/G	9/17/90	
5.9A @ 129	90.15907	CO	< 500.		NG/G	9/17/90	
5.9A @ 129	90.15907	CR	< 500.		NG/G	9/17/90	
5.9A @ 129	90.15907	CS	< 500.		NG/G	9/17/90	
5.9A @ 129	90.15907	CU	< 500.		NG/G	9/17/90	
5.9A @ 129	90.15907	DY	< 500.		NG/G	9/17/90	
5.9A @ 129	90.15907	ER	< 500.		NG/G	9/17/90	
5.9A @ 129	90.15907	EU	< 500.		NG/G	9/17/90	
5.9A @ 129	90.15907	GA	< 500.		NG/G	9/17/90	
5.9A @ 129	90.15907	GD	< 500.		NG/G	9/17/90	
5.9A @ 129	90.15907	GE	< 500.		NG/G	9/17/90	
5.9A @ 129	90.15907	HF	< 500.		NG/G	9/17/90	
5.9A @ 129	90.15907	HO	< 500.		NG/G	9/17/90	
5.9A @ 129	90.15907	IN	< 500.		NG/G	9/17/90	
5.9A @ 129	90.15907	IR	< 500.		NG/G	9/17/90	
5.9A @ 129	90.15907	LA	1.2	3.6	UG/G	9/17/90	
5.9A @ 129	90.15907	LI	< 5000.		NG/G	9/17/90	
5.9A @ 129	90.15907	LU	< 500.		NG/G	9/17/90	
5.9A @ 129	90.15907	MN	14.	42.	UG/G	9/17/90	
5.9A @ 129	90.15907	MO	< 500.		NG/G	9/17/90	
5.9A @ 129	90.15907	NB	< 500.		NG/G	9/17/90	
5.9A @ 129	90.15907	ND	1.5	4.5	UG/G	9/17/90	
5.9A @ 129	90.15907	NI	< 500.		NG/G	9/17/90	
5.9A @ 129	90.15907	PB	1.	3.	UG/G	9/17/90	
5.9A @ 129	90.15907	PD	< 500.		NG/G	9/17/90	
5.9A @ 129	90.15907	PR	< 500.		NG/G	9/17/90	
5.9A @ 129	90.15907	PT	< 500.		NG/G	9/17/90	
5.9A @ 129	90.15907	RB	1.2	3.6	UG/G	9/17/90	
5.9A @ 129	90.15907	RH	< 500.		NG/G	9/17/90	
5.9A @ 129	90.15907	RU	< 500.		NG/G	9/17/90	
5.9A @ 129	90.15907	SB	< 500.		NG/G	9/17/90	

5.9A @ 129	90.15907	SE	< 5000.		NG/G	9/17/90
5.9A @ 129	90.15907	SM	< 500.		NG/G	9/17/90
5.9A @ 129	90.15907	SN	< 500.		NG/G	9/17/90
5.9A @ 129	90.15907	SR	870.	2600.	NG/G	9/17/90
5.9A @ 129	90.15907	TA	< 500.		NG/G	9/17/90
5.9A @ 129	90.15907	TB	< 500.		NG/G	9/17/90
5.9A @ 129	90.15907	TE	< 500.		NG/G	9/17/90
5.9A @ 129	90.15907	TH	< 500.		NG/G	9/17/90
5.9A @ 129	90.15907	TI	< 5000.		NG/G	9/17/90
5.9A @ 129	90.15907	TL	< 500.		NG/G	9/17/90
5.9A @ 129	90.15907	TM	< 500.		NG/G	9/17/90
5.9A @ 129	90.15907	U	< 500.		NG/G	9/17/90
5.9A @ 129	90.15907	V	< 5000.		NG/G	9/17/90
5.9A @ 129	90.15907	W	< 500.		NG/G	9/17/90
5.9A @ 129	90.15907	Y	< 500.		NG/G	9/17/90
5.9A @ 129	90.15907	YB	< 500.		NG/G	9/17/90
5.9A @ 129	90.15907	ZN	510.	1500.	NG/G	9/17/90
5.9A @ 129	90.15907	ZR	< 500.		NG/G	9/17/90

REPORT NUMBER: 8173

********** HSE-9 ANALYTICAL REPORT **********

Prepared by: MCW on 17-Sep-1990

ICP MASS SCAN

REQUEST NUMBER: 10602 MATRIX: S ANALYST: Mary Carol Williams PROGRAM CODE: M211

OWNER: Max Maes GROUP: HSE-8 MAIL-STOP: K490 PHONE: 7-0817 TASK-ID: TASK 1

CUSTOMER NUMBER	SAMPLE NUMBER	ANALYSIS	RESULT	UNCERTAINTY	UNITS	COMPLETION DATE	COMMENT
5.9A @ 134	90.15908	AG	< 500.		NG/G	9/17/90	
5.9A @ 134	90.15908	AS	< 500.		NG/G	9/17/90	
5.9A @ 134	90.15908	AU	< 500.		NG/G	9/17/90	
5.9A @ 134	90.15908	B	< 5000.		NG/G	9/17/90	
5.9A @ 134	90.15908	BA	7.1	21.3	UG/G	9/17/90	
5.9A @ 134	90.15908	BE	< 5000.		NG/G	9/17/90	
5.9A @ 134	90.15908	BI	< 500.		NG/G	9/17/90	
5.9A @ 134	90.15908	CD	< 500.		NG/G	9/17/90	
5.9A @ 134	90.15908	CE	2.6	7.8	UG/G	9/17/90	
5.9A @ 134	90.15908	CO	< 500.		NG/G	9/17/90	
5.9A @ 134	90.15908	CR	< 500.		NG/G	9/17/90	
5.9A @ 134	90.15908	CS	< 500.		NG/G	9/17/90	
5.9A @ 134	90.15908	CU	< 500.		NG/G	9/17/90	
5.9A @ 134	90.15908	DY	< 500.		NG/G	9/17/90	
5.9A @ 134	90.15908	ER	< 500.		NG/G	9/17/90	
5.9A @ 134	90.15908	EU	< 500.		NG/G	9/17/90	
5.9A @ 134	90.15908	GA	< 500.		NG/G	9/17/90	
5.9A @ 134	90.15908	GD	< 500.		NG/G	9/17/90	
5.9A @ 134	90.15908	GE	< 500.		NG/G	9/17/90	
5.9A @ 134	90.15908	HF	< 500.		NG/G	9/17/90	
5.9A @ 134	90.15908	HO	< 500.		NG/G	9/17/90	
5.9A @ 134	90.15908	IN	< 500.		NG/G	9/17/90	
5.9A @ 134	90.15908	IR	< 500.		NG/G	9/17/90	
5.9A @ 134	90.15908	LA	1.4	4.2	UG/G	9/17/90	
5.9A @ 134	90.15908	LI	< 5000.		NG/G	9/17/90	
5.9A @ 134	90.15908	LU	< 500.		NG/G	9/17/90	
5.9A @ 134	90.15908	MN	11.	33.	UG/G	9/17/90	
5.9A @ 134	90.15908	MO	< 500.		NG/G	9/17/90	
5.9A @ 134	90.15908	NB	< 500.		NG/G	9/17/90	
5.9A @ 134	90.15908	ND	1.6	4.8	UG/G	9/17/90	
5.9A @ 134	90.15908	NI	< 500.		NG/G	9/17/90	
5.9A @ 134	90.15908	PB	930.	2800.	NG/G	9/17/90	
5.9A @ 134	90.15908	PD	< 500.		NG/G	9/17/90	
5.9A @ 134	90.15908	PR	< 500.		NG/G	9/17/90	
5.9A @ 134	90.15908	PT	< 500.		NG/G	9/17/90	
5.9A @ 134	90.15908	RB	1.4	4.2	UG/G	9/17/90	
5.9A @ 134	90.15908	RH	< 500.		NG/G	9/17/90	
5.9A @ 134	90.15908	RU	< 500.		NG/G	9/17/90	
5.9A @ 134	90.15908	SB	< 500.		NG/G	9/17/90	

5.9A @ 134	90.15908	SE	< 5000.		NG/G	9/17/90
5.9A @ 134	90.15908	SM	< 500.		NG/G	9/17/90
5.9A @ 134	90.15908	SN	< 500.		NG/G	9/17/90
5.9A @ 134	90.15908	SR	990.	3000.	NG/G	9/17/90
5.9A @ 134	90.15908	TA	< 500.		NG/G	9/17/90
5.9A @ 134	90.15908	TB	< 500.		NG/G	9/17/90
5.9A @ 134	90.15908	TE	< 500.		NG/G	9/17/90
5.9A @ 134	90.15908	TH	< 500.		NG/G	9/17/90
5.9A @ 134	90.15908	TI	< 5000.		NG/G	9/17/90
5.9A @ 134	90.15908	TL	< 500.		NG/G	9/17/90
5.9A @ 134	90.15908	TM	< 500.		NG/G	9/17/90
5.9A @ 134	90.15908	U	< 500.		NG/G	9/17/90
5.9A @ 134	90.15908	V	< 5000.		NG/G	9/17/90
5.9A @ 134	90.15908	W	< 500.		NG/G	9/17/90
5.9A @ 134	90.15908	Y	600.	1800.	NG/G	9/17/90
5.9A @ 134	90.15908	YB	< 500.		NG/G	9/17/90
5.9A @ 134	90.15908	ZN	660.	2000.	NG/G	9/17/90
5.9A @ 134	90.15908	ZR	< 500.		NG/G	9/17/90

REPORT NUMBER: 8173

********** HSE-9 ANALYTICAL REPORT **********

Prepared by: MCW on 17-Sep-1990

ICP MASS SCAN

REQUEST NUMBER: 10602 MATRIX: S ANALYST: Mary Carol Williams PROGRAM CODE: M211

OWNER: Max Maes GROUP: HSE-8 MAIL-STOP: K490 PHONE: 7-0817 TASK-ID: TASK 1

CUSTOMER NUMBER	SAMPLE NUMBER	ANALYSIS	RESULT	UNCERTAINTY	UNITS	COMPLETION DATE	COMMENT
5.9A @ 139	90.15909	AG	< 500.		NG/G	9/17/90	
5.9A @ 139	90.15909	AS	< 500.		NG/G	9/17/90	
5.9A @ 139	90.15909	AU	< 500.		NG/G	9/17/90	
5.9A @ 139	90.15909	B	< 5000.		NG/G	9/17/90	
5.9A @ 139	90.15909	BA	9.1	27.3	UG/G	9/17/90	
5.9A @ 139	90.15909	BE	< 5000.		NG/G	9/17/90	
5.9A @ 139	90.15909	BI	< 500.		NG/G	9/17/90	
5.9A @ 139	90.15909	CD	< 500.		NG/G	9/17/90	
5.9A @ 139	90.15909	CE	2.5	7.5	UG/G	9/17/90	
5.9A @ 139	90.15909	CO	< 500.		NG/G	9/17/90	
5.9A @ 139	90.15909	CR	< 500.		NG/G	9/17/90	
5.9A @ 139	90.15909	CS	< 500.		NG/G	9/17/90	
5.9A @ 139	90.15909	CU	< 500.		NG/G	9/17/90	
5.9A @ 139	90.15909	DY	< 500.		NG/G	9/17/90	
5.9A @ 139	90.15909	ER	< 500.		NG/G	9/17/90	
5.9A @ 139	90.15909	EU	< 500.		NG/G	9/17/90	
5.9A @ 139	90.15909	GA	< 500.		NG/G	9/17/90	
5.9A @ 139	90.15909	GD	< 500.		NG/G	9/17/90	
5.9A @ 139	90.15909	GE	< 500.		NG/G	9/17/90	
5.9A @ 139	90.15909	HF	< 500.		NG/G	9/17/90	
5.9A @ 139	90.15909	HO	< 500.		NG/G	9/17/90	
5.9A @ 139	90.15909	IN	< 500.		NG/G	9/17/90	
5.9A @ 139	90.15909	IR	< 500.		NG/G	9/17/90	
5.9A @ 139	90.15909	LA	1.4	4.2	UG/G	9/17/90	
5.9A @ 139	90.15909	LI	< 5000.		NG/G	9/17/90	
5.9A @ 139	90.15909	LU	< 500.		NG/G	9/17/90	
5.9A @ 139	90.15909	MN	19.	57.	UG/G	9/17/90	
5.9A @ 139	90.15909	MO	< 500.		NG/G	9/17/90	
5.9A @ 139	90.15909	NB	< 500.		NG/G	9/17/90	
5.9A @ 139	90.15909	ND	1.8	5.4	UG/G	9/17/90	
5.9A @ 139	90.15909	NI	< 500.		NG/G	9/17/90	
5.9A @ 139	90.15909	PB	1.6	4.8	UG/G	9/17/90	
5.9A @ 139	90.15909	PD	< 500.		NG/G	9/17/90	
5.9A @ 139	90.15909	PR	540.	1600.	NG/G	9/17/90	
5.9A @ 139	90.15909	PT	< 500.		NG/G	9/17/90	
5.9A @ 139	90.15909	RB	1.9	5.7	UG/G	9/17/90	
5.9A @ 139	90.15909	RH	< 500.		NG/G	9/17/90	
5.9A @ 139	90.15909	RU	< 500.		NG/G	9/17/90	
5.9A @ 139	90.15909	SB	< 500.		NG/G	9/17/90	

5.9A @ 139	90.15909	SE	< 5000.		NG/G	9/17/90
5.9A @ 139	90.15909	SM	< 500.		NG/G	9/17/90
5.9A @ 139	90.15909	SN	< 500.		NG/G	9/17/90
5.9A @ 139	90.15909	SR	1.1	3.3	UG/G	9/17/90
5.9A @ 139	90.15909	TA	< 500.		NG/G	9/17/90
5.9A @ 139	90.15909	TB	< 500.		NG/G	9/17/90
5.9A @ 139	90.15909	TE	< 500.		NG/G	9/17/90
5.9A @ 139	90.15909	TH	640.	1900.	NG/G	9/17/90
5.9A @ 139	90.15909	TI	< 5000.		NG/G	9/17/90
5.9A @ 139	90.15909	TL	< 500.		NG/G	9/17/90
5.9A @ 139	90.15909	TM	< 500.		NG/G	9/17/90
5.9A @ 139	90.15909	U	< 500.		NG/G	9/17/90
5.9A @ 139	90.15909	V	< 5000.		NG/G	9/17/90
5.9A @ 139	90.15909	W	< 500.		NG/G	9/17/90
5.9A @ 139	90.15909	Y	770.	2300.	NG/G	9/17/90
5.9A @ 139	90.15909	YB	< 500.		NG/G	9/17/90
5.9A @ 139	90.15909	ZN	1.7	5.1	UG/G	9/17/90
5.9A @ 139	90.15909	ZR	< 500.		NG/G	9/17/90

REPORT NUMBER: 8173

********** HSE-9 ANALYTICAL REPORT **********

Prepared by: MCW on 17-Sep-1990

ICP MASS SCAN

REQUEST NUMBER: 10602 MATRIX: S ANALYST: Mary Carol Williams PROGRAM CODE: M211

OWNER: Max Maes GROUP: HSE-8 MAIL-STOP: K490 PHONE: 7-0817 TASK-ID: TASK 1

CUSTOMER NUMBER	SAMPLE NUMBER	ANALYSIS	RESULT	UNCERTAINTY	UNITS	COMPLETION DATE	COMMENT
5.9A @ 144	90.15910	AG	< 500.			NG/G	9/17/90
5.9A @ 144	90.15910	AS	< 500.			NG/G	9/17/90
5.9A @ 144	90.15910	AU	< 500.			NG/G	9/17/90
5.9A @ 144	90.15910	B	< 5000.			NG/G	9/17/90
5.9A @ 144	90.15910	BA	10.	30.		UG/G	9/17/90
5.9A @ 144	90.15910	BE	< 5000.			NG/G	9/17/90
5.9A @ 144	90.15910	BI	< 500.			NG/G	9/17/90
5.9A @ 144	90.15910	CD	< 500.			NG/G	9/17/90
5.9A @ 144	90.15910	CE	2.5	7.5		UG/G	9/17/90
5.9A @ 144	90.15910	CO	< 500.			NG/G	9/17/90
5.9A @ 144	90.15910	CR	< 500.			NG/G	9/17/90
5.9A @ 144	90.15910	CS	< 500.			NG/G	9/17/90
5.9A @ 144	90.15910	CU	< 500.			NG/G	9/17/90
5.9A @ 144	90.15910	DY	< 500.			NG/G	9/17/90
5.9A @ 144	90.15910	ER	< 500.			NG/G	9/17/90
5.9A @ 144	90.15910	EU	< 500.			NG/G	9/17/90
5.9A @ 144	90.15910	GA	< 500.			NG/G	9/17/90
5.9A @ 144	90.15910	GD	540.	1600.		NG/G	9/17/90
5.9A @ 144	90.15910	GE	< 500.			NG/G	9/17/90
5.9A @ 144	90.15910	HF	< 500.			NG/G	9/17/90
5.9A @ 144	90.15910	HO	< 500.			NG/G	9/17/90
5.9A @ 144	90.15910	IN	< 500.			NG/G	9/17/90
5.9A @ 144	90.15910	IR	< 500.			NG/G	9/17/90
5.9A @ 144	90.15910	LA	1.5	4.5		UG/G	9/17/90
5.9A @ 144	90.15910	LI	< 5000.			NG/G	9/17/90
5.9A @ 144	90.15910	LU	< 500.			NG/G	9/17/90
5.9A @ 144	90.15910	MN	12.	36.		UG/G	9/17/90
5.9A @ 144	90.15910	MO	< 500.			NG/G	9/17/90
5.9A @ 144	90.15910	NB	< 500.			NG/G	9/17/90
5.9A @ 144	90.15910	ND	1.9	5.7		UG/G	9/17/90
5.9A @ 144	90.15910	NI	570.	1700.		NG/G	9/17/90
5.9A @ 144	90.15910	PB	1.2	3.6		UG/G	9/17/90
5.9A @ 144	90.15910	PD	< 500.			NG/G	9/17/90
5.9A @ 144	90.15910	PR	510.	1500.		NG/G	9/17/90
5.9A @ 144	90.15910	PT	< 500.			NG/G	9/17/90
5.9A @ 144	90.15910	RB	1.7	5.1		UG/G	9/17/90
5.9A @ 144	90.15910	RH	< 500.			NG/G	9/17/90
5.9A @ 144	90.15910	RU	< 500.			NG/G	9/17/90
5.9A @ 144	90.15910	SB	< 500.			NG/G	9/17/90

5.9A @ 144	90.15910	SE	< 5000.		NG/G	9/17/90
5.9A @ 144	90.15910	SM	< 500.		NG/G	9/17/90
5.9A @ 144	90.15910	SN	< 500.		NG/G	9/17/90
5.9A @ 144	90.15910	SR	1.3	3.9	UG/G	9/17/90
5.9A @ 144	90.15910	TA	< 500.		NG/G	9/17/90
5.9A @ 144	90.15910	TB	< 500.		NG/G	9/17/90
5.9A @ 144	90.15910	TE	< 500.		NG/G	9/17/90
5.9A @ 144	90.15910	TH	790.	2400.	NG/G	9/17/90
5.9A @ 144	90.15910	TI	< 5000.		NG/G	9/17/90
5.9A @ 144	90.15910	TL	< 500.		NG/G	9/17/90
5.9A @ 144	90.15910	TM	< 500.		NG/G	9/17/90
5.9A @ 144	90.15910	U	< 500.		NG/G	9/17/90
5.9A @ 144	90.15910	V	< 5000.		NG/G	9/17/90
5.9A @ 144	90.15910	W	< 500.		NG/G	9/17/90
5.9A @ 144	90.15910	Y	740.	2200.	NG/G	9/17/90
5.9A @ 144	90.15910	YB	< 500.		NG/G	9/17/90
5.9A @ 144	90.15910	ZN	1.4	4.2	UG/G	9/17/90
5.9A @ 144	90.15910	ZR	< 500.		NG/G	9/17/90

REPORT NUMBER: 8173

********** HSE-9 ANALYTICAL REPORT **********

Prepared by: MCW on 17-Sep-1990

ICP MASS SCAN

REQUEST NUMBER: 10602 MATRIX: S ANALYST: Mary Carol Williams PROGRAM CODE: M211

OWNER: Max Maes GROUP: HSE-8 MAIL-STOP: K490 PHONE: 7-0817 TASK-ID: TASK 1

CUSTOMER NUMBER	SAMPLE NUMBER	ANALYSIS	RESULT	UNCERTAINTY	UNITS	COMPLETION DATE	COMMENT
5.9A @ 149	90.15911	AG	< 500.		NG/G	9/17/90	
5.9A @ 149	90.15911	AS	< 500.		NG/G	9/17/90	
5.9A @ 149	90.15911	AU	< 500.		NG/G	9/17/90	
5.9A @ 149	90.15911	B	< 5000.		NG/G	9/17/90	
5.9A @ 149	90.15911	BA	13.	39.	UG/G	9/17/90	
5.9A @ 149	90.15911	BE	< 5000.		NG/G	9/17/90	
5.9A @ 149	90.15911	BI	< 500.		NG/G	9/17/90	
5.9A @ 149	90.15911	CD	< 500.		NG/G	9/17/90	
5.9A @ 149	90.15911	CE	2.7	8.1	UG/G	9/17/90	
5.9A @ 149	90.15911	CO	< 500.		NG/G	9/17/90	
5.9A @ 149	90.15911	CR	< 500.		NG/G	9/17/90	
5.9A @ 149	90.15911	CS	< 500.		NG/G	9/17/90	
5.9A @ 149	90.15911	CU	< 500.		NG/G	9/17/90	
5.9A @ 149	90.15911	DY	< 500.		NG/G	9/17/90	
5.9A @ 149	90.15911	ER	< 500.		NG/G	9/17/90	
5.9A @ 149	90.15911	EU	< 500.		NG/G	9/17/90	
5.9A @ 149	90.15911	GA	< 500.		NG/G	9/17/90	
5.9A @ 149	90.15911	GD	< 500.		NG/G	9/17/90	
5.9A @ 149	90.15911	GE	< 500.		NG/G	9/17/90	
5.9A @ 149	90.15911	HF	< 500.		NG/G	9/17/90	
5.9A @ 149	90.15911	HO	< 500.		NG/G	9/17/90	
5.9A @ 149	90.15911	IN	< 500.		NG/G	9/17/90	
5.9A @ 149	90.15911	IR	< 500.		NG/G	9/17/90	
5.9A @ 149	90.15911	LA	1.5	4.5	UG/G	9/17/90	
5.9A @ 149	90.15911	LI	< 5000.		NG/G	9/17/90	
5.9A @ 149	90.15911	LU	< 500.		NG/G	9/17/90	
5.9A @ 149	90.15911	MN	21.	63.	UG/G	9/17/90	
5.9A @ 149	90.15911	MO	< 500.		NG/G	9/17/90	
5.9A @ 149	90.15911	NB	< 500.		NG/G	9/17/90	
5.9A @ 149	90.15911	ND	1.7	5.1	UG/G	9/17/90	
5.9A @ 149	90.15911	NI	< 500.		NG/G	9/17/90	
5.9A @ 149	90.15911	PB	1.2	3.6	UG/G	9/17/90	
5.9A @ 149	90.15911	PD	< 500.		NG/G	9/17/90	
5.9A @ 149	90.15911	PR	< 500.		NG/G	9/17/90	
5.9A @ 149	90.15911	PT	< 500.		NG/G	9/17/90	
5.9A @ 149	90.15911	RB	1.6	4.8	UG/G	9/17/90	
5.9A @ 149	90.15911	RH	< 500.		NG/G	9/17/90	
5.9A @ 149	90.15911	RU	< 500.		NG/G	9/17/90	
5.9A @ 149	90.15911	SB	< 500.		NG/G	9/17/90	

5.9A @ 149	90.15911	SE	< 5000.		NG/G	9/17/90
5.9A @ 149	90.15911	SM	540.	1600.	NG/G	9/17/90
5.9A @ 149	90.15911	SN	< 500.		NG/G	9/17/90
5.9A @ 149	90.15911	SR	1.6	4.8	UG/G	9/17/90
5.9A @ 149	90.15911	TA	< 500.		NG/G	9/17/90
5.9A @ 149	90.15911	TB	< 500.		NG/G	9/17/90
5.9A @ 149	90.15911	TE	< 500.		NG/G	9/17/90
5.9A @ 149	90.15911	TH	530.	1600.	NG/G	9/17/90
5.9A @ 149	90.15911	TI	< 5000.		NG/G	9/17/90
5.9A @ 149	90.15911	TL	< 500.		NG/G	9/17/90
5.9A @ 149	90.15911	TM	< 500.		NG/G	9/17/90
5.9A @ 149	90.15911	U	< 500.		NG/G	9/17/90
5.9A @ 149	90.15911	V	< 5000.		NG/G	9/17/90
5.9A @ 149	90.15911	W	< 500.		NG/G	9/17/90
5.9A @ 149	90.15911	Y	850.	2600.	NG/G	9/17/90
5.9A @ 149	90.15911	YB	< 500.		NG/G	9/17/90
5.9A @ 149	90.15911	ZN	1.3	3.9	UG/G	9/17/90
5.9A @ 149	90.15911	ZR	< 500.		NG/G	9/17/90

REPORT NUMBER: 8173

********** HSE-9 ANALYTICAL REPORT **********

Prepared by: MCW on 17-Sep-1990

ICP MASS SCAN

REQUEST NUMBER: 10602 MATRIX: S ANALYST: Mary Carol Williams PROGRAM CODE: M211

OWNER: Max Maes GROUP: HSE-8 MAIL-STOP: K490 PHONE: 7-0817 TASK-ID: TASK 1

CUSTOMER NUMBER	SAMPLE NUMBER	ANALYSIS	RESULT	UNCERTAINTY	UNITS	COMPLETION DATE	COMMENT
5.9A @ 154	90.15912	AG	< 500.		NG/G	9/17/90	
5.9A @ 154	90.15912	AS	< 500.		NG/G	9/17/90	
5.9A @ 154	90.15912	AU	< 500.		NG/G	9/17/90	
5.9A @ 154	90.15912	B	< 5000.		NG/G	9/17/90	
5.9A @ 154	90.15912	BA	13.	39.	UG/G	9/17/90	
5.9A @ 154	90.15912	BE	< 5000.		NG/G	9/17/90	
5.9A @ 154	90.15912	BI	< 500.		NG/G	9/17/90	
5.9A @ 154	90.15912	CD	< 500.		NG/G	9/17/90	
5.9A @ 154	90.15912	CE	2.	6.	UG/G	9/17/90	
5.9A @ 154	90.15912	CO	< 500.		NG/G	9/17/90	
5.9A @ 154	90.15912	CR	< 500.		NG/G	9/17/90	
5.9A @ 154	90.15912	CS	< 500.		NG/G	9/17/90	
5.9A @ 154	90.15912	CU	< 500.		NG/G	9/17/90	
5.9A @ 154	90.15912	DY	< 500.		NG/G	9/17/90	
5.9A @ 154	90.15912	ER	< 500.		NG/G	9/17/90	
5.9A @ 154	90.15912	EU	< 500.		NG/G	9/17/90	
5.9A @ 154	90.15912	GA	< 500.		NG/G	9/17/90	
5.9A @ 154	90.15912	GD	< 500.		NG/G	9/17/90	
5.9A @ 154	90.15912	GE	< 500.		NG/G	9/17/90	
5.9A @ 154	90.15912	HF	< 500.		NG/G	9/17/90	
5.9A @ 154	90.15912	HO	< 500.		NG/G	9/17/90	
5.9A @ 154	90.15912	IN	< 500.		NG/G	9/17/90	
5.9A @ 154	90.15912	IR	< 500.		NG/G	9/17/90	
5.9A @ 154	90.15912	LA	1.1	3.3	UG/G	9/17/90	
5.9A @ 154	90.15912	LI	< 5000.		NG/G	9/17/90	
5.9A @ 154	90.15912	LU	< 500.		NG/G	9/17/90	
5.9A @ 154	90.15912	MN	13.	39.	UG/G	9/17/90	
5.9A @ 154	90.15912	MO	< 500.		NG/G	9/17/90	
5.9A @ 154	90.15912	NB	< 500.		NG/G	9/17/90	
5.9A @ 154	90.15912	ND	1.7	5.1	UG/G	9/17/90	
5.9A @ 154	90.15912	NI	< 500.		NG/G	9/17/90	
5.9A @ 154	90.15912	PB	1.3	3.9	UG/G	9/17/90	
5.9A @ 154	90.15912	PD	< 500.		NG/G	9/17/90	
5.9A @ 154	90.15912	PR	< 500.		NG/G	9/17/90	
5.9A @ 154	90.15912	PT	< 500.		NG/G	9/17/90	
5.9A @ 154	90.15912	RB	1.5	4.5	UG/G	9/17/90	
5.9A @ 154	90.15912	RH	< 500.		NG/G	9/17/90	
5.9A @ 154	90.15912	RU	< 500.		NG/G	9/17/90	
5.9A @ 154	90.15912	SB	< 500.		NG/G	9/17/90	

5.9A @ 154	90.15912	SE	< 5000.		NG/G	9/17/90
5.9A @ 154	90.15912	SM	< 500.		NG/G	9/17/90
5.9A @ 154	90.15912	SN	< 500.		NG/G	9/17/90
5.9A @ 154	90.15912	SR	1.5	4.5	UG/G	9/17/90
5.9A @ 154	90.15912	TA	< 500.		NG/G	9/17/90
5.9A @ 154	90.15912	TB	< 500.		NG/G	9/17/90
5.9A @ 154	90.15912	TE	< 500.		NG/G	9/17/90
5.9A @ 154	90.15912	TH	660.	2000.	NG/G	9/17/90
5.9A @ 154	90.15912	TI	< 5000.		NG/G	9/17/90
5.9A @ 154	90.15912	TL	< 500.		NG/G	9/17/90
5.9A @ 154	90.15912	TM	< 500.		NG/G	9/17/90
5.9A @ 154	90.15912	U	< 500.		NG/G	9/17/90
5.9A @ 154	90.15912	V	< 5000.		NG/G	9/17/90
5.9A @ 154	90.15912	W	< 500.		NG/G	9/17/90
5.9A @ 154	90.15912	Y	790.	2400.	NG/G	9/17/90
5.9A @ 154	90.15912	YB	< 500.		NG/G	9/17/90
5.9A @ 154	90.15912	ZN	1.2	3.6	UG/G	9/17/90
5.9A @ 154	90.15912	ZR	< 500.		NG/G	9/17/90

REPORT NUMBER: 8173

********** HSE-9 ANALYTICAL REPORT **********

Prepared by: MCW on 17-Sep-1990

ICP MASS SCAN

REQUEST NUMBER: 10602 MATRIX: S ANALYST: Mary Carol Williams PROGRAM CODE: M211

OWNER: Max Maes GROUP: HSE-8 MAIL-STOP: K490 PHONE: 7-0817 TASK-ID: TASK 1

CUSTOMER NUMBER	SAMPLE NUMBER	ANALYSIS	RESULT	UNCERTAINTY	UNITS	COMPLETION DATE	COMMENT
5.9A @ 159	90.15913	AG	< 500.		NG/G	9/17/90	
5.9A @ 159	90.15913	AS	< 500.		NG/G	9/17/90	
5.9A @ 159	90.15913	AU	< 500.		NG/G	9/17/90	
5.9A @ 159	90.15913	B	< 5000.		NG/G	9/17/90	
5.9A @ 159	90.15913	BA	15.	45.	UG/G	9/17/90	
5.9A @ 159	90.15913	BE	< 5000.		NG/G	9/17/90	
5.9A @ 159	90.15913	BI	< 500.		NG/G	9/17/90	
5.9A @ 159	90.15913	CD	< 500.		NG/G	9/17/90	
5.9A @ 159	90.15913	CE	2.1	6.3	UG/G	9/17/90	
5.9A @ 159	90.15913	CO	< 500.		NG/G	9/17/90	
5.9A @ 159	90.15913	CR	< 500.		NG/G	9/17/90	
5.9A @ 159	90.15913	CS	< 500.		NG/G	9/17/90	
5.9A @ 159	90.15913	CU	< 500.		NG/G	9/17/90	
5.9A @ 159	90.15913	DY	< 500.		NG/G	9/17/90	
5.9A @ 159	90.15913	ER	< 500.		NG/G	9/17/90	
5.9A @ 159	90.15913	EU	< 500.		NG/G	9/17/90	
5.9A @ 159	90.15913	GA	< 500.		NG/G	9/17/90	
5.9A @ 159	90.15913	GD	< 500.		NG/G	9/17/90	
5.9A @ 159	90.15913	GE	< 500.		NG/G	9/17/90	
5.9A @ 159	90.15913	HF	< 500.		NG/G	9/17/90	
5.9A @ 159	90.15913	HO	< 500.		NG/G	9/17/90	
5.9A @ 159	90.15913	IN	< 500.		NG/G	9/17/90	
5.9A @ 159	90.15913	IR	< 500.		NG/G	9/17/90	
5.9A @ 159	90.15913	LA	1.3	3.9	UG/G	9/17/90	
5.9A @ 159	90.15913	LI	< 5000.		NG/G	9/17/90	
5.9A @ 159	90.15913	LU	< 500.		NG/G	9/17/90	
5.9A @ 159	90.15913	MN	19.	57.	UG/G	9/17/90	
5.9A @ 159	90.15913	MO	< 500.		NG/G	9/17/90	
5.9A @ 159	90.15913	NB	< 500.		NG/G	9/17/90	
5.9A @ 159	90.15913	ND	1.4	4.2	UG/G	9/17/90	
5.9A @ 159	90.15913	NI	< 500.		NG/G	9/17/90	
5.9A @ 159	90.15913	PB	890.	2700.	NG/G	9/17/90	
5.9A @ 159	90.15913	PD	< 500.		NG/G	9/17/90	
5.9A @ 159	90.15913	PR	< 500.		NG/G	9/17/90	
5.9A @ 159	90.15913	PT	< 500.		NG/G	9/17/90	
5.9A @ 159	90.15913	RB	1.7	5.1	UG/G	9/17/90	
5.9A @ 159	90.15913	RH	< 500.		NG/G	9/17/90	
5.9A @ 159	90.15913	RU	< 500.		NG/G	9/17/90	
5.9A @ 159	90.15913	SB	< 500.		NG/G	9/17/90	

5.9A @ 159	90.15913	SE	< 5000.		NG/G	9/17/90
5.9A @ 159	90.15913	SM	< 500.		NG/G	9/17/90
5.9A @ 159	90.15913	SN	< 500.		NG/G	9/17/90
5.9A @ 159	90.15913	SR	1.8	5.4	UG/G	9/17/90
5.9A @ 159	90.15913	TA	< 500.		NG/G	9/17/90
5.9A @ 159	90.15913	TB	< 500.		NG/G	9/17/90
5.9A @ 159	90.15913	TE	< 500.		NG/G	9/17/90
5.9A @ 159	90.15913	TH	810.	2400.	NG/G	9/17/90
5.9A @ 159	90.15913	TI	< 5000.		NG/G	9/17/90
5.9A @ 159	90.15913	TL	< 500.		NG/G	9/17/90
5.9A @ 159	90.15913	TM	< 500.		NG/G	9/17/90
5.9A @ 159	90.15913	U	< 500.		NG/G	9/17/90
5.9A @ 159	90.15913	V	< 5000.		NG/G	9/17/90
5.9A @ 159	90.15913	W	< 500.		NG/G	9/17/90
5.9A @ 159	90.15913	Y	810.	2400.	NG/G	9/17/90
5.9A @ 159	90.15913	YB	< 500.		NG/G	9/17/90
5.9A @ 159	90.15913	ZN	820.	2500.	NG/G	9/17/90
5.9A @ 159	90.15913	ZR	< 500.		NG/G	9/17/90

REPORT NUMBER: 8173

********** HSE-9 ANALYTICAL REPORT **********

Prepared by: MCW on 17-Sep-1990

ICP MASS SCAN

REQUEST NUMBER: 10602 MATRIX: S ANALYST: Mary Carol Williams PROGRAM CODE: M211

OWNER: Max Maes GROUP: HSE-8 MAIL-STOP: K490 PHONE: 7-0817 TASK-ID: TASK 1

CUSTOMER NUMBER	SAMPLE NUMBER	ANALYSIS	RESULT	UNCERTAINTY	UNITS	COMPLETION DATE	COMMENT
5.9A @ 164	90.15914	AG	< 500.		NG/G	9/17/90	
5.9A @ 164	90.15914	AS	< 500.		NG/G	9/17/90	
5.9A @ 164	90.15914	AU	< 500.		NG/G	9/17/90	
5.9A @ 164	90.15914	B	< 5000.		NG/G	9/17/90	
5.9A @ 164	90.15914	BA	13.	39.	UG/G	9/17/90	
5.9A @ 164	90.15914	BE	< 5000.		NG/G	9/17/90	
5.9A @ 164	90.15914	BI	< 500.		NG/G	9/17/90	
5.9A @ 164	90.15914	CD	< 500.		NG/G	9/17/90	
5.9A @ 164	90.15914	CE	2.	6.	UG/G	9/17/90	
5.9A @ 164	90.15914	CO	< 500.		NG/G	9/17/90	
5.9A @ 164	90.15914	CR	< 500.		NG/G	9/17/90	
5.9A @ 164	90.15914	CS	< 500.		NG/G	9/17/90	
5.9A @ 164	90.15914	CU	< 500.		NG/G	9/17/90	
5.9A @ 164	90.15914	DY	< 500.		NG/G	9/17/90	
5.9A @ 164	90.15914	ER	< 500.		NG/G	9/17/90	
5.9A @ 164	90.15914	EU	< 500.		NG/G	9/17/90	
5.9A @ 164	90.15914	GA	< 500.		NG/G	9/17/90	
5.9A @ 164	90.15914	GD	< 500.		NG/G	9/17/90	
5.9A @ 164	90.15914	GE	< 500.		NG/G	9/17/90	
5.9A @ 164	90.15914	HF	< 500.		NG/G	9/17/90	
5.9A @ 164	90.15914	HO	< 500.		NG/G	9/17/90	
5.9A @ 164	90.15914	IN	< 500.		NG/G	9/17/90	
5.9A @ 164	90.15914	IR	< 500.		NG/G	9/17/90	
5.9A @ 164	90.15914	LA	1.2	3.6	UG/G	9/17/90	
5.9A @ 164	90.15914	LI	< 5000.		NG/G	9/17/90	
5.9A @ 164	90.15914	LU	< 500.		NG/G	9/17/90	
5.9A @ 164	90.15914	MN	20.	60.	UG/G	9/17/90	
5.9A @ 164	90.15914	MO	< 500.		NG/G	9/17/90	
5.9A @ 164	90.15914	NB	< 500.		NG/G	9/17/90	
5.9A @ 164	90.15914	ND	1.5	4.5	UG/G	9/17/90	
5.9A @ 164	90.15914	NI	< 500.		NG/G	9/17/90	
5.9A @ 164	90.15914	PB	980.	2900.	NG/G	9/17/90	
5.9A @ 164	90.15914	PD	< 500.		NG/G	9/17/90	
5.9A @ 164	90.15914	PR	< 500.		NG/G	9/17/90	
5.9A @ 164	90.15914	PT	< 500.		NG/G	9/17/90	
5.9A @ 164	90.15914	RB	1.7	5.1	UG/G	9/17/90	
5.9A @ 164	90.15914	RH	< 500.		NG/G	9/17/90	
5.9A @ 164	90.15914	RU	< 500.		NG/G	9/17/90	
5.9A @ 164	90.15914	SB	< 500.		NG/G	9/17/90	

5.9A @ 164	90.15914	SE	< 5000.		NG/G	9/17/90
5.9A @ 164	90.15914	SM	< 500.		NG/G	9/17/90
5.9A @ 164	90.15914	SN	< 500.		NG/G	9/17/90
5.9A @ 164	90.15914	SR	1.9	5.7	UG/G	9/17/90
5.9A @ 164	90.15914	TA	< 500.		NG/G	9/17/90
5.9A @ 164	90.15914	TB	< 500.		NG/G	9/17/90
5.9A @ 164	90.15914	TE	< 500.		NG/G	9/17/90
5.9A @ 164	90.15914	TH	650.	2000.	NG/G	9/17/90
5.9A @ 164	90.15914	TI	< 5000.		NG/G	9/17/90
5.9A @ 164	90.15914	TL	< 500.		NG/G	9/17/90
5.9A @ 164	90.15914	TM	< 500.		NG/G	9/17/90
5.9A @ 164	90.15914	U	< 500.		NG/G	9/17/90
5.9A @ 164	90.15914	V	< 5000.		NG/G	9/17/90
5.9A @ 164	90.15914	W	< 500.		NG/G	9/17/90
5.9A @ 164	90.15914	Y	620.	1900.	NG/G	9/17/90
5.9A @ 164	90.15914	YB	< 500.		NG/G	9/17/90
5.9A @ 164	90.15914	ZN	2.	6.	UG/G	9/17/90
5.9A @ 164	90.15914	ZR	< 500.		NG/G	9/17/90

REPORT NUMBER: 8173

********** HSE-9 ANALYTICAL REPORT **********

Prepared by: MCW on 17-Sep-1990

ICP MASS SCAN

REQUEST NUMBER: 10602 MATRIX: S ANALYST: Mary Carol Williams PROGRAM CODE: M211

OWNER: Max Maes GROUP: HSE-8 MAIL-STOP: K490 PHONE: 7-0817 TASK-ID: TASK 1

CUSTOMER NUMBER	SAMPLE NUMBER	ANALYSIS	RESULT	UNCERTAINTY	UNITS	COMPLETION DATE	COMMENT
5.9A @ 169	90.15915	AG	< 500.			NG/G	9/17/90
5.9A @ 169	90.15915	AS	< 500.			NG/G	9/17/90
5.9A @ 169	90.15915	AU	< 500.			NG/G	9/17/90
5.9A @ 169	90.15915	B	< 5000.			NG/G	9/17/90
5.9A @ 169	90.15915	BA	11.	33.		UG/G	9/17/90
5.9A @ 169	90.15915	BE	< 5000.			NG/G	9/17/90
5.9A @ 169	90.15915	BI	< 500.			NG/G	9/17/90
5.9A @ 169	90.15915	CD	< 500.			NG/G	9/17/90
5.9A @ 169	90.15915	CE	1.8	5.4		UG/G	9/17/90
5.9A @ 169	90.15915	CO	< 500.			NG/G	9/17/90
5.9A @ 169	90.15915	CR	< 500.			NG/G	9/17/90
5.9A @ 169	90.15915	CS	< 500.			NG/G	9/17/90
5.9A @ 169	90.15915	CU	< 500.			NG/G	9/17/90
5.9A @ 169	90.15915	DY	< 500.			NG/G	9/17/90
5.9A @ 169	90.15915	ER	< 500.			NG/G	9/17/90
5.9A @ 169	90.15915	EU	< 500.			NG/G	9/17/90
5.9A @ 169	90.15915	GA	< 500.			NG/G	9/17/90
5.9A @ 169	90.15915	GD	< 500.			NG/G	9/17/90
5.9A @ 169	90.15915	GE	< 500.			NG/G	9/17/90
5.9A @ 169	90.15915	HF	< 500.			NG/G	9/17/90
5.9A @ 169	90.15915	HO	< 500.			NG/G	9/17/90
5.9A @ 169	90.15915	IN	< 500.			NG/G	9/17/90
5.9A @ 169	90.15915	IR	< 500.			NG/G	9/17/90
5.9A @ 169	90.15915	LA	1.1	3.3		UG/G	9/17/90
5.9A @ 169	90.15915	LI	< 5000.			NG/G	9/17/90
5.9A @ 169	90.15915	LU	< 500.			NG/G	9/17/90
5.9A @ 169	90.15915	MN	17.	51.		UG/G	9/17/90
5.9A @ 169	90.15915	MO	< 500.			NG/G	9/17/90
5.9A @ 169	90.15915	NB	< 500.			NG/G	9/17/90
5.9A @ 169	90.15915	ND	1.2	3.6		UG/G	9/17/90
5.9A @ 169	90.15915	NI	< 500.			NG/G	9/17/90
5.9A @ 169	90.15915	PB	1.	3.		UG/G	9/17/90
5.9A @ 169	90.15915	PD	< 500.			NG/G	9/17/90
5.9A @ 169	90.15915	PR	< 500.			NG/G	9/17/90
5.9A @ 169	90.15915	PT	< 500.			NG/G	9/17/90
5.9A @ 169	90.15915	RB	1.6	4.8		UG/G	9/17/90
5.9A @ 169	90.15915	RH	< 500.			NG/G	9/17/90
5.9A @ 169	90.15915	RU	< 500.			NG/G	9/17/90
5.9A @ 169	90.15915	SB	< 500.			NG/G	9/17/90

5.9A @ 169	90.15915	SE	< 5000.		NG/G	9/17/90
5.9A @ 169	90.15915	SM	< 500.		NG/G	9/17/90
5.9A @ 169	90.15915	SN	< 500.		NG/G	9/17/90
5.9A @ 169	90.15915	SR	1.9	5.7	UG/G	9/17/90
5.9A @ 169	90.15915	TA	< 500.		NG/G	9/17/90
5.9A @ 169	90.15915	TB	< 500.		NG/G	9/17/90
5.9A @ 169	90.15915	TE	< 500.		NG/G	9/17/90
5.9A @ 169	90.15915	TH	860.	2600.	NG/G	9/17/90
5.9A @ 169	90.15915	TI	< 5000.		NG/G	9/17/90
5.9A @ 169	90.15915	TL	< 500.		NG/G	9/17/90
5.9A @ 169	90.15915	TM	< 500.		NG/G	9/17/90
5.9A @ 169	90.15915	U	< 500.		NG/G	9/17/90
5.9A @ 169	90.15915	V	< 5000.		NG/G	9/17/90
5.9A @ 169	90.15915	W	< 500.		NG/G	9/17/90
5.9A @ 169	90.15915	Y	650.	2000.	NG/G	9/17/90
5.9A @ 169	90.15915	YB	< 500.		NG/G	9/17/90
5.9A @ 169	90.15915	ZN	810.	2400.	NG/G	9/17/90
5.9A @ 169	90.15915	ZR	< 500.		NG/G	9/17/90

REPORT NUMBER: 8173

********** HSE-9 ANALYTICAL REPORT **********

Prepared by: MCW on 17-Sep-1990

ICP MASS SCAN

REQUEST NUMBER: 10602 MATRIX: S ANALYST: Mary Carol Williams PROGRAM CODE: M211

OWNER: Max Maes GROUP: HSE-8 MAIL-STOP: K490 PHONE: 7-0817 TASK-ID: TASK 1

CUSTOMER NUMBER	SAMPLE NUMBER	ANALYSIS	RESULT	UNCERTAINTY	UNITS	COMPLETION DATE	COMMENT
5.9A @ 174	90.15916	AG	< 500.		NG/G	9/17/90	
5.9A @ 174	90.15916	AS	< 500.		NG/G	9/17/90	
5.9A @ 174	90.15916	AU	< 500.		NG/G	9/17/90	
5.9A @ 174	90.15916	B	< 5000.		NG/G	9/17/90	
5.9A @ 174	90.15916	BA	10.	30.	UG/G	9/17/90	
5.9A @ 174	90.15916	BE	< 5000.		NG/G	9/17/90	
5.9A @ 174	90.15916	BI	< 500.		NG/G	9/17/90	
5.9A @ 174	90.15916	CD	< 500.		NG/G	9/17/90	
5.9A @ 174	90.15916	CE	2.	6.	UG/G	9/17/90	
5.9A @ 174	90.15916	CO	< 500.		NG/G	9/17/90	
5.9A @ 174	90.15916	CR	< 500.		NG/G	9/17/90	
5.9A @ 174	90.15916	CS	< 500.		NG/G	9/17/90	
5.9A @ 174	90.15916	CU	< 500.		NG/G	9/17/90	
5.9A @ 174	90.15916	DY	< 500.		NG/G	9/17/90	
5.9A @ 174	90.15916	ER	< 500.		NG/G	9/17/90	
5.9A @ 174	90.15916	EU	< 500.		NG/G	9/17/90	
5.9A @ 174	90.15916	GA	< 500.		NG/G	9/17/90	
5.9A @ 174	90.15916	GD	< 500.		NG/G	9/17/90	
5.9A @ 174	90.15916	GE	< 500.		NG/G	9/17/90	
5.9A @ 174	90.15916	HF	< 500.		NG/G	9/17/90	
5.9A @ 174	90.15916	HO	< 500.		NG/G	9/17/90	
5.9A @ 174	90.15916	IN	< 500.		NG/G	9/17/90	
5.9A @ 174	90.15916	IR	< 500.		NG/G	9/17/90	
5.9A @ 174	90.15916	LA	1.1	3.3	UG/G	9/17/90	
5.9A @ 174	90.15916	LI	< 5000.		NG/G	9/17/90	
5.9A @ 174	90.15916	LU	< 500.		NG/G	9/17/90	
5.9A @ 174	90.15916	MN	20.	60.	UG/G	9/17/90	
5.9A @ 174	90.15916	MO	< 500.		NG/G	9/17/90	
5.9A @ 174	90.15916	NB	< 500.		NG/G	9/17/90	
5.9A @ 174	90.15916	ND	1.7	5.1	UG/G	9/17/90	
5.9A @ 174	90.15916	NI	< 500.		NG/G	9/17/90	
5.9A @ 174	90.15916	PB	1.3	3.9	UG/G	9/17/90	
5.9A @ 174	90.15916	PD	< 500.		NG/G	9/17/90	
5.9A @ 174	90.15916	PR	< 500.		NG/G	9/17/90	
5.9A @ 174	90.15916	PT	< 500.		NG/G	9/17/90	
5.9A @ 174	90.15916	RB	1.5	4.5	UG/G	9/17/90	
5.9A @ 174	90.15916	RH	< 500.		NG/G	9/17/90	
5.9A @ 174	90.15916	RU	< 500.		NG/G	9/17/90	
5.9A @ 174	90.15916	SB	< 500.		NG/G	9/17/90	

5.9A @ 174	90.15916	SE	< 5000.		NG/G	9/17/90
5.9A @ 174	90.15916	SM	< 500.		NG/G	9/17/90
5.9A @ 174	90.15916	SN	< 500.		NG/G	9/17/90
5.9A @ 174	90.15916	SR	2.1	6.3	UG/G	9/17/90
5.9A @ 174	90.15916	TA	< 500.		NG/G	9/17/90
5.9A @ 174	90.15916	TB	< 500.		NG/G	9/17/90
5.9A @ 174	90.15916	TE	< 500.		NG/G	9/17/90
5.9A @ 174	90.15916	TH	600.	1800.	NG/G	9/17/90
5.9A @ 174	90.15916	TI	< 5000.		NG/G	9/17/90
5.9A @ 174	90.15916	TL	< 500.		NG/G	9/17/90
5.9A @ 174	90.15916	TM	< 500.		NG/G	9/17/90
5.9A @ 174	90.15916	U	< 500.		NG/G	9/17/90
5.9A @ 174	90.15916	V	< 5000.		NG/G	9/17/90
5.9A @ 174	90.15916	W	< 500.		NG/G	9/17/90
5.9A @ 174	90.15916	Y	640.	1900.	NG/G	9/17/90
5.9A @ 174	90.15916	YB	< 500.		NG/G	9/17/90
5.9A @ 174	90.15916	ZN	2.	6.	UG/G	9/17/90
5.9A @ 174	90.15916	ZR	< 500.		NG/G	9/17/90

REPORT NUMBER: 8173

********** HSE-9 ANALYTICAL REPORT **********

Prepared by: MCW on 17-Sep-1990

ICP MASS SCAN

REQUEST NUMBER: 10602 MATRIX: S ANALYST: Mary Carol Williams PROGRAM CODE: M211

OWNER: Max Maes GROUP: HSE-8 MAIL-STOP: K490 PHONE: 7-0817 TASK-ID: TASK 1

CUSTOMER NUMBER	SAMPLE NUMBER	ANALYSIS	RESULT	UNCERTAINTY	UNITS	COMPLETION DATE	COMMENT
5.9A @ 179	90.15917	AG	< 500.		NG/G	9/17/90	
5.9A @ 179	90.15917	AS	< 500.		NG/G	9/17/90	
5.9A @ 179	90.15917	AU	< 500.		NG/G	9/17/90	
5.9A @ 179	90.15917	B	< 5000.		NG/G	9/17/90	
5.9A @ 179	90.15917	BA	18.	54.	UG/G	9/17/90	
5.9A @ 179	90.15917	BE	< 5000.		NG/G	9/17/90	
5.9A @ 179	90.15917	BI	< 500.		NG/G	9/17/90	
5.9A @ 179	90.15917	CD	< 500.		NG/G	9/17/90	
5.9A @ 179	90.15917	CE	2.9	8.7	UG/G	9/17/90	
5.9A @ 179	90.15917	CO	< 500.		NG/G	9/17/90	
5.9A @ 179	90.15917	CR	< 500.		NG/G	9/17/90	
5.9A @ 179	90.15917	CS	< 500.		NG/G	9/17/90	
5.9A @ 179	90.15917	CU	< 500.		NG/G	9/17/90	
5.9A @ 179	90.15917	DY	< 500.		NG/G	9/17/90	
5.9A @ 179	90.15917	ER	< 500.		NG/G	9/17/90	
5.9A @ 179	90.15917	EU	< 500.		NG/G	9/17/90	
5.9A @ 179	90.15917	GA	< 500.		NG/G	9/17/90	
5.9A @ 179	90.15917	GD	< 500.		NG/G	9/17/90	
5.9A @ 179	90.15917	GE	< 500.		NG/G	9/17/90	
5.9A @ 179	90.15917	HF	< 500.		NG/G	9/17/90	
5.9A @ 179	90.15917	HO	< 500.		NG/G	9/17/90	
5.9A @ 179	90.15917	IN	< 500.		NG/G	9/17/90	
5.9A @ 179	90.15917	IR	< 500.		NG/G	9/17/90	
5.9A @ 179	90.15917	LA	1.5	4.5	UG/G	9/17/90	
5.9A @ 179	90.15917	LI	< 5000.		NG/G	9/17/90	
5.9A @ 179	90.15917	LU	< 500.		NG/G	9/17/90	
5.9A @ 179	90.15917	MN	32.	96.	UG/G	9/17/90	
5.9A @ 179	90.15917	MO	< 500.		NG/G	9/17/90	
5.9A @ 179	90.15917	NB	< 500.		NG/G	9/17/90	
5.9A @ 179	90.15917	ND	1.7	5.1	UG/G	9/17/90	
5.9A @ 179	90.15917	NI	< 500.		NG/G	9/17/90	
5.9A @ 179	90.15917	PB	1.8	5.4	UG/G	9/17/90	
5.9A @ 179	90.15917	PD	< 500.		NG/G	9/17/90	
5.9A @ 179	90.15917	PR	< 500.		NG/G	9/17/90	
5.9A @ 179	90.15917	PT	< 500.		NG/G	9/17/90	
5.9A @ 179	90.15917	RB	2.2	6.6	UG/G	9/17/90	
5.9A @ 179	90.15917	RH	< 500.		NG/G	9/17/90	
5.9A @ 179	90.15917	RU	< 500.		NG/G	9/17/90	
5.9A @ 179	90.15917	SB	< 500.		NG/G	9/17/90	

5.9A @ 179	90.15917	SE	< 5000.		NG/G	9/17/90
5.9A @ 179	90.15917	SM	620.	1900.	NG/G	9/17/90
5.9A @ 179	90.15917	SN	< 500.		NG/G	9/17/90
5.9A @ 179	90.15917	SR	2.9	8.7	UG/G	9/17/90
5.9A @ 179	90.15917	TA	< 500.		NG/G	9/17/90
5.9A @ 179	90.15917	TB	< 500.		NG/G	9/17/90
5.9A @ 179	90.15917	TE	< 500.		NG/G	9/17/90
5.9A @ 179	90.15917	TH	1.1	3.3	UG/G	9/17/90
5.9A @ 179	90.15917	TI	< 5000.		NG/G	9/17/90
5.9A @ 179	90.15917	TL	< 500.		NG/G	9/17/90
5.9A @ 179	90.15917	TM	< 500.		NG/G	9/17/90
5.9A @ 179	90.15917	U	< 500.		NG/G	9/17/90
5.9A @ 179	90.15917	V	< 5000.		NG/G	9/17/90
5.9A @ 179	90.15917	W	< 500.		NG/G	9/17/90
5.9A @ 179	90.15917	Y	860.	2600.	NG/G	9/17/90
5.9A @ 179	90.15917	YB	< 500.		NG/G	9/17/90
5.9A @ 179	90.15917	ZN	1.4	4.2	UG/G	9/17/90
5.9A @ 179	90.15917	ZR	< 500.		NG/G	9/17/90

REPORT NUMBER: 8173

********** HSE-9 ANALYTICAL REPORT **********

Prepared by: MCW on 17-Sep-1990

ICP MASS SCAN

REQUEST NUMBER: 10602 MATRIX: S ANALYST: Mary Carol Williams PROGRAM CODE: M211

OWNER: Max Maes GROUP: HSE-8 MAIL-STOP: K490 PHONE: 7-0817 TASK-ID: TASK 1

CUSTOMER NUMBER	SAMPLE NUMBER	ANALYSIS	RESULT	UNCERTAINTY	UNITS	COMPLETION DATE	COMMENT
5.9A @ 184	90.16003	AG	< 500.			NG/G	9/17/90
5.9A @ 184	90.16003	AS	< 500.			NG/G	9/17/90
5.9A @ 184	90.16003	AU	< 500.			NG/G	9/17/90
5.9A @ 184	90.16003	B	< 5000.			NG/G	9/17/90
5.9A @ 184	90.16003	BA	13.	39.		UG/G	9/17/90
5.9A @ 184	90.16003	BE	< 5000.			NG/G	9/17/90
5.9A @ 184	90.16003	BI	< 500.			NG/G	9/17/90
5.9A @ 184	90.16003	CD	< 500.			NG/G	9/17/90
5.9A @ 184	90.16003	CE	2.6	7.8		UG/G	9/17/90
5.9A @ 184	90.16003	CO	< 500.			NG/G	9/17/90
5.9A @ 184	90.16003	CR	< 500.			NG/G	9/17/90
5.9A @ 184	90.16003	CS	< 500.			NG/G	9/17/90
5.9A @ 184	90.16003	CU	< 500.			NG/G	9/17/90
5.9A @ 184	90.16003	DY	< 500.			NG/G	9/17/90
5.9A @ 184	90.16003	ER	< 500.			NG/G	9/17/90
5.9A @ 184	90.16003	EU	< 500.			NG/G	9/17/90
5.9A @ 184	90.16003	GA	< 500.			NG/G	9/17/90
5.9A @ 184	90.16003	GD	< 500.			NG/G	9/17/90
5.9A @ 184	90.16003	GE	< 500.			NG/G	9/17/90
5.9A @ 184	90.16003	HF	< 500.			NG/G	9/17/90
5.9A @ 184	90.16003	HO	< 500.			NG/G	9/17/90
5.9A @ 184	90.16003	IN	< 500.			NG/G	9/17/90
5.9A @ 184	90.16003	IR	< 500.			NG/G	9/17/90
5.9A @ 184	90.16003	LA	1.3	3.9		UG/G	9/17/90
5.9A @ 184	90.16003	LI	< 5000.			NG/G	9/17/90
5.9A @ 184	90.16003	LU	< 500.			NG/G	9/17/90
5.9A @ 184	90.16003	MN	24.	72.		UG/G	9/17/90
5.9A @ 184	90.16003	MO	< 500.			NG/G	9/17/90
5.9A @ 184	90.16003	NB	< 500.			NG/G	9/17/90
5.9A @ 184	90.16003	ND	1.7	5.1		UG/G	9/17/90
5.9A @ 184	90.16003	NI	< 500.			NG/G	9/17/90
5.9A @ 184	90.16003	PB	1.1	3.3		UG/G	9/17/90
5.9A @ 184	90.16003	PD	< 500.			NG/G	9/17/90
5.9A @ 184	90.16003	PR	< 500.			NG/G	9/17/90
5.9A @ 184	90.16003	PT	< 500.			NG/G	9/17/90
5.9A @ 184	90.16003	RB	1.7	5.1		UG/G	9/17/90
5.9A @ 184	90.16003	RH	< 500.			NG/G	9/17/90
5.9A @ 184	90.16003	RU	< 500.			NG/G	9/17/90
5.9A @ 184	90.16003	SB	< 500.			NG/G	9/17/90

5.9A @ 184	90.16003	SE	< 5000.		NG/G	9/17/90
5.9A @ 184	90.16003	SM	< 500.		NG/G	9/17/90
5.9A @ 184	90.16003	SN	< 500.		NG/G	9/17/90
5.9A @ 184	90.16003	SR	2.2	6.6	UG/G	9/17/90
5.9A @ 184	90.16003	TA	< 500.		NG/G	9/17/90
5.9A @ 184	90.16003	TB	< 500.		NG/G	9/17/90
5.9A @ 184	90.16003	TE	< 500.		NG/G	9/17/90
5.9A @ 184	90.16003	TH	890.	2700.	NG/G	9/17/90
5.9A @ 184	90.16003	TI	< 5000.		NG/G	9/17/90
5.9A @ 184	90.16003	TL	< 500.		NG/G	9/17/90
5.9A @ 184	90.16003	TM	< 500.		NG/G	9/17/90
5.9A @ 184	90.16003	U	< 500.		NG/G	9/17/90
5.9A @ 184	90.16003	V	< 5000.		NG/G	9/17/90
5.9A @ 184	90.16003	W	< 500.		NG/G	9/17/90
5.9A @ 184	90.16003	Y	790.	2400.	NG/G	9/17/90
5.9A @ 184	90.16003	YB	< 500.		NG/G	9/17/90
5.9A @ 184	90.16003	ZN	1.9	5.7	UG/G	9/17/90
5.9A @ 184	90.16003	ZR	< 500.		NG/G	9/17/90

REPORT NUMBER: 8173

********** HSE-9 ANALYTICAL REPORT **********

Prepared by: MCW on 17-Sep-1990

ICP MASS SCAN

REQUEST NUMBER: 10602 MATRIX: S ANALYST: Mary Carol Williams PROGRAM CODE: M211

OWNER: Max Maes GROUP: HSE-8 MAIL-STOP: K490 PHONE: 7-0817 TASK-ID: TASK 1

CUSTOMER NUMBER	SAMPLE NUMBER	ANALYSIS	RESULT	UNCERTAINTY	UNITS	COMPLETION DATE	COMMENT
5.9A @ 189	90.16004	AG	< 500.		NG/G	9/17/90	
5.9A @ 189	90.16004	AS	< 500.		NG/G	9/17/90	
5.9A @ 189	90.16004	AU	< 500.		NG/G	9/17/90	
5.9A @ 189	90.16004	B	< 5000.		NG/G	9/17/90	
5.9A @ 189	90.16004	BA	12.	36.	UG/G	9/17/90	
5.9A @ 189	90.16004	BE	< 5000.		NG/G	9/17/90	
5.9A @ 189	90.16004	BI	< 500.		NG/G	9/17/90	
5.9A @ 189	90.16004	CD	< 500.		NG/G	9/17/90	
5.9A @ 189	90.16004	CE	2.3	6.9	UG/G	9/17/90	
5.9A @ 189	90.16004	CO	< 500.		NG/G	9/17/90	
5.9A @ 189	90.16004	CR	< 500.		NG/G	9/17/90	
5.9A @ 189	90.16004	CS	< 500.		NG/G	9/17/90	
5.9A @ 189	90.16004	CU	< 500.		NG/G	9/17/90	
5.9A @ 189	90.16004	DY	< 500.		NG/G	9/17/90	
5.9A @ 189	90.16004	ER	< 500.		NG/G	9/17/90	
5.9A @ 189	90.16004	EU	< 500.		NG/G	9/17/90	
5.9A @ 189	90.16004	GA	< 500.		NG/G	9/17/90	
5.9A @ 189	90.16004	GD	< 500.		NG/G	9/17/90	
5.9A @ 189	90.16004	GE	< 500.		NG/G	9/17/90	
5.9A @ 189	90.16004	HF	< 500.		NG/G	9/17/90	
5.9A @ 189	90.16004	HO	< 500.		NG/G	9/17/90	
5.9A @ 189	90.16004	IN	< 500.		NG/G	9/17/90	
5.9A @ 189	90.16004	IR	< 500.		NG/G	9/17/90	
5.9A @ 189	90.16004	LA	1.2	3.6	UG/G	9/17/90	
5.9A @ 189	90.16004	LI	< 5000.		NG/G	9/17/90	
5.9A @ 189	90.16004	LU	< 500.		NG/G	9/17/90	
5.9A @ 189	90.16004	MN	22.	66.	UG/G	9/17/90	
5.9A @ 189	90.16004	MO	< 500.		NG/G	9/17/90	
5.9A @ 189	90.16004	NB	< 500.		NG/G	9/17/90	
5.9A @ 189	90.16004	ND	1.4	4.2	UG/G	9/17/90	
5.9A @ 189	90.16004	NI	< 500.		NG/G	9/17/90	
5.9A @ 189	90.16004	PB	1.2	3.6	UG/G	9/17/90	
5.9A @ 189	90.16004	PD	< 500.		NG/G	9/17/90	
5.9A @ 189	90.16004	PR	< 500.		NG/G	9/17/90	
5.9A @ 189	90.16004	PT	< 500.		NG/G	9/17/90	
5.9A @ 189	90.16004	RB	1.4	4.2	UG/G	9/17/90	
5.9A @ 189	90.16004	RH	< 500.		NG/G	9/17/90	
5.9A @ 189	90.16004	RU	< 500.		NG/G	9/17/90	
5.9A @ 189	90.16004	SB	< 500.		NG/G	9/17/90	

5.9A @ 189	90.16004	SE	< 5000.		NG/G	9/17/90
5.9A @ 189	90.16004	SM	< 500.		NG/G	9/17/90
5.9A @ 189	90.16004	SN	< 500.		NG/G	9/17/90
5.9A @ 189	90.16004	SR	1.9	5.7	UG/G	9/17/90
5.9A @ 189	90.16004	TA	< 500.		NG/G	9/17/90
5.9A @ 189	90.16004	TB	< 500.		NG/G	9/17/90
5.9A @ 189	90.16004	TE	< 500.		NG/G	9/17/90
5.9A @ 189	90.16004	TH	1.1	3.3	UG/G	9/17/90
5.9A @ 189	90.16004	TI	< 5000.		NG/G	9/17/90
5.9A @ 189	90.16004	TL	< 500.		NG/G	9/17/90
5.9A @ 189	90.16004	TM	< 500.		NG/G	9/17/90
5.9A @ 189	90.16004	U	< 500.		NG/G	9/17/90
5.9A @ 189	90.16004	V	< 5000.		NG/G	9/17/90
5.9A @ 189	90.16004	W	< 500.		NG/G	9/17/90
5.9A @ 189	90.16004	Y	660.	2000.	NG/G	9/17/90
5.9A @ 189	90.16004	YB	< 500.		NG/G	9/17/90
5.9A @ 189	90.16004	ZN	1.5	4.5	UG/G	9/17/90
5.9A @ 189	90.16004	ZR	< 500.		NG/G	9/17/90

REPORT NUMBER: 8173

********** HSE-9 ANALYTICAL REPORT **********

Prepared by: MCW on 17-Sep-1990

ICP MASS SCAN

REQUEST NUMBER: 10602 MATRIX: S ANALYST: Mary Carol Williams PROGRAM CODE: M211

OWNER: Max Maes GROUP: HSE-8 MAIL-STOP: K490 PHONE: 7-0817 TASK-ID: TASK 1

CUSTOMER NUMBER	SAMPLE NUMBER	ANALYSIS	RESULT	UNCERTAINTY	UNITS	COMPLETION DATE	COMMENT
5.9A @ 194	90.16005	AG	< 500.		NG/G	9/17/90	
5.9A @ 194	90.16005	AS	< 500.		NG/G	9/17/90	
5.9A @ 194	90.16005	AU	< 500.		NG/G	9/17/90	
5.9A @ 194	90.16005	B	< 5000.		NG/G	9/17/90	
5.9A @ 194	90.16005	BA	12.	36.	UG/G	9/17/90	
5.9A @ 194	90.16005	BE	< 5000.		NG/G	9/17/90	
5.9A @ 194	90.16005	BI	< 500.		NG/G	9/17/90	
5.9A @ 194	90.16005	CD	< 500.		NG/G	9/17/90	
5.9A @ 194	90.16005	CE	2.4	7.2	UG/G	9/17/90	
5.9A @ 194	90.16005	CO	< 500.		NG/G	9/17/90	
5.9A @ 194	90.16005	CR	570.	1700.	NG/G	9/17/90	
5.9A @ 194	90.16005	CS	< 500.		NG/G	9/17/90	
5.9A @ 194	90.16005	CU	< 500.		NG/G	9/17/90	
5.9A @ 194	90.16005	DY	< 500.		NG/G	9/17/90	
5.9A @ 194	90.16005	ER	< 500.		NG/G	9/17/90	
5.9A @ 194	90.16005	EU	< 500.		NG/G	9/17/90	
5.9A @ 194	90.16005	GA	< 500.		NG/G	9/17/90	
5.9A @ 194	90.16005	GD	< 500.		NG/G	9/17/90	
5.9A @ 194	90.16005	GE	< 500.		NG/G	9/17/90	
5.9A @ 194	90.16005	HF	< 500.		NG/G	9/17/90	
5.9A @ 194	90.16005	HO	< 500.		NG/G	9/17/90	
5.9A @ 194	90.16005	IN	< 500.		NG/G	9/17/90	
5.9A @ 194	90.16005	IR	< 500.		NG/G	9/17/90	
5.9A @ 194	90.16005	LA	1.3	3.9	UG/G	9/17/90	
5.9A @ 194	90.16005	LI	< 5000.		NG/G	9/17/90	
5.9A @ 194	90.16005	LU	< 500.		NG/G	9/17/90	
5.9A @ 194	90.16005	MN	28.	84.	UG/G	9/17/90	
5.9A @ 194	90.16005	MO	< 500.		NG/G	9/17/90	
5.9A @ 194	90.16005	NB	< 500.		NG/G	9/17/90	
5.9A @ 194	90.16005	ND	1.7	5.1	UG/G	9/17/90	
5.9A @ 194	90.16005	NI	< 500.		NG/G	9/17/90	
5.9A @ 194	90.16005	PB	1.4	4.2	UG/G	9/17/90	
5.9A @ 194	90.16005	PD	< 500.		NG/G	9/17/90	
5.9A @ 194	90.16005	PR	< 500.		NG/G	9/17/90	
5.9A @ 194	90.16005	PT	< 500.		NG/G	9/17/90	
5.9A @ 194	90.16005	RB	1.7	5.1	UG/G	9/17/90	
5.9A @ 194	90.16005	RH	< 500.		NG/G	9/17/90	
5.9A @ 194	90.16005	RU	< 500.		NG/G	9/17/90	
5.9A @ 194	90.16005	SB	< 500.		NG/G	9/17/90	

5.9A @ 194	90.16005	SE	< 5000.		NG/G	9/17/90
5.9A @ 194	90.16005	SM	< 500.		NG/G	9/17/90
5.9A @ 194	90.16005	SN	< 500.		NG/G	9/17/90
5.9A @ 194	90.16005	SR	2.3	6.9	UG/G	9/17/90
5.9A @ 194	90.16005	TA	< 500.		NG/G	9/17/90
5.9A @ 194	90.16005	TB	< 500.		NG/G	9/17/90
5.9A @ 194	90.16005	TE	< 500.		NG/G	9/17/90
5.9A @ 194	90.16005	TH	870.	2600.	NG/G	9/17/90
5.9A @ 194	90.16005	TI	< 5000.		NG/G	9/17/90
5.9A @ 194	90.16005	TL	< 500.		NG/G	9/17/90
5.9A @ 194	90.16005	TM	< 500.		NG/G	9/17/90
5.9A @ 194	90.16005	U	< 500.		NG/G	9/17/90
5.9A @ 194	90.16005	V	< 5000.		NG/G	9/17/90
5.9A @ 194	90.16005	W	< 500.		NG/G	9/17/90
5.9A @ 194	90.16005	Y	690.	2100.	NG/G	9/17/90
5.9A @ 194	90.16005	YB	< 500.		NG/G	9/17/90
5.9A @ 194	90.16005	ZN	1.4	4.2	UG/G	9/17/90
5.9A @ 194	90.16005	ZR	< 500.		NG/G	9/17/90

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REPORT NUMBER: 8173 (continued)

********** HSE-9 QUALITY ASSURANCE REPORT *********

ICP MASS SCAN

Prepared by: MCW on 17-Sep-1990

REQUEST NUMBER: 10602 MATRIX: S ANALYST: Mary Carol Williams PROGRAM CODE: M211

OWNER: Max Maes GROUP: HSE-8 MAIL-STOP: K490 PHONE: 7-0817 TASK-ID: TASK 1

CUSTOMER NUM	SAMPLE NUM	ANALYSIS	RESULT	UNCERTAINTY	UNITS	CERTIFIED VALUE	CERTIFIED VALUE UNCERTAINTY	COMPLETION DATE
00.21441	00.21441	AG	87.	260.	UG/L	100.	10.	9/17/90 UNDER CONTROL
00.21441	00.21441	AS	65.	200.	UG/L	100.	10.	9/17/90 UNDER CONTROL
00.21441	00.21441	AU	< 1.		UG/L			9/17/90 UNDER CONTROL
00.21441	00.21441	B	< 10.		UG/L	100.	10.	9/17/90 OUT OF CONTROL
00.21441	00.21441	BA	89.	270.	UG/L	100.	10.	9/17/90 UNDER CONTROL
00.21441	00.21441	BE	< 100.		UG/L	100.	10.	9/17/90 UNDER CONTROL
00.21441	00.21441	BI	< 1.		UG/L			9/17/90 UNDER CONTROL
00.21441	00.21441	CD	82.	250.	UG/L	100.	10.	9/17/90 UNDER CONTROL
00.21441	00.21441	CE	< 1.		UG/L			9/17/90 UNDER CONTROL
00.21441	00.21441	CO	62.	190.	UG/L	100.	10.	9/17/90 UNDER CONTROL
00.21441	00.21441	CR	54.	160.	UG/L	100.	10.	9/17/90 UNDER CONTROL
00.21441	00.21441	CS	< 1.		UG/L			9/17/90 UNDER CONTROL
00.21441	00.21441	CU	51.	150.	UG/L	100.	10.	9/17/90 UNDER CONTROL
00.21441	00.21441	DY	< 1.		UG/L			9/17/90 UNDER CONTROL
00.21441	00.21441	ER	< 1.		UG/L			9/17/90 UNDER CONTROL
00.21441	00.21441	EU	< 1.		UG/L			9/17/90 UNDER CONTROL
00.21441	00.21441	GA	< 1.		UG/L			9/17/90 UNDER CONTROL
00.21441	00.21441	GD	< 1.		UG/L			9/17/90

00.21441	00.21441 GE	< 1.		UG/L			UNDER CONTROL	9/17/90
00.21441	00.21441 HF	< 1.		UG/L			UNDER CONTROL	9/17/90
00.21441	00.21441 HO	< 1.		UG/L			UNDER CONTROL	9/17/90
00.21441	00.21441 IN	< 1.		UG/L			UNDER CONTROL	9/17/90
00.21441	00.21441 IR	< 1.		UG/L			UNDER CONTROL	9/17/90
00.21441	00.21441 LA	< 1.		UG/L			UNDER CONTROL	9/17/90
00.21441	00.21441 LI	< 10.		UG/L			UNDER CONTROL	9/17/90
00.21441	00.21441 LU	< 1.		UG/L			UNDER CONTROL	9/17/90
00.21441	00.21441 MN	57.	170.	UG/L	100.	10.	UNDER CONTROL	9/17/90
00.21441	00.21441 MO	< 100.		UG/L	100.	10.	UNDER CONTROL	9/17/90
00.21441	00.21441 NB	< 1.		UG/L			UNDER CONTROL	9/17/90
00.21441	00.21441 ND	< 1.		UG/L			UNDER CONTROL	9/17/90
00.21441	00.21441 NI	59.	180.	UG/L	100.	10.	UNDER CONTROL	9/17/90
00.21441	00.21441 PB	98.	290.	UG/L	100.	10.	UNDER CONTROL	9/17/90
00.21441	00.21441 PD	< 1.		UG/L			UNDER CONTROL	9/17/90
00.21441	00.21441 PR	< 1.		UG/L			UNDER CONTROL	9/17/90
00.21441	00.21441 PT	< 1.		UG/L			UNDER CONTROL	9/17/90
00.21441	00.21441 RB	< 1.		UG/L			UNDER CONTROL	9/17/90
00.21441	00.21441 RH	< 1.		UG/L			UNDER CONTROL	9/17/90
00.21441	00.21441 RU	< 1.		UG/L			UNDER CONTROL	9/17/90
00.21441	00.21441 SB	90.	270.	UG/L	100.	10.	UNDER CONTROL	9/17/90
00.21441	00.21441 SE	65.	200.	UG/L	100.	10.	UNDER CONTROL	9/17/90
00.21441	00.21441 SM	< 1.		UG/L			UNDER CONTROL	9/17/90
00.21441	00.21441 SN	< 1.		UG/L			UNDER CONTROL	9/17/90
00.21441	00.21441 SR	< 1.		UG/L			UNDER CONTROL	9/17/90
00.21441	00.21441 TA	< 1.		UG/L			UNDER CONTROL	9/17/90
00.21441	00.21441 TB	< 1.		UG/L			UNDER CONTROL	9/17/90
00.21441	00.21441 TE	< 1.		UG/L			UNDER CONTROL	9/17/90
00.21441	00.21441 TH	< 1.		UG/L			UNDER CONTROL	9/17/90
00.21441	00.21441 TI	50.	150.	UG/L	100.	10.	UNDER CONTROL	9/17/90

00.21441	00.21441 TL	100.	300.	UG/L	100.	10.	UNDER CONTROL 9/17/90
00.21441	00.21441 TM	< 1.		UG/L			UNDER CONTROL 9/17/90
00.21441	00.21441 U	180.	540.	UG/L	100.	10.	UNDER CONTROL 9/17/90
00.21441	00.21441 V	49.	150.	UG/L	100.	10.	UNDER CONTROL 9/17/90
00.21441	00.21441 W	< 1.		UG/L			UNDER CONTROL 9/17/90
00.21441	00.21441 Y	< 1.		UG/L			UNDER CONTROL 9/17/90
00.21441	00.21441 YB	< 1.		UG/L			UNDER CONTROL 9/17/90
00.21441	00.21441 ZN	70.	210.	UG/L	100.	10.	UNDER CONTROL 9/17/90
00.21441	00.21441 ZR	< 1.		UG/L			UNDER CONTROL 9/17/90

Analyst	Section Leader	QA Officer
9-18-90	9-18-90	9-18-90
Date	Date	Date

The control status of the preceeding data was evaluated using the standard statistical criteria set forth in 'Quality Assurance for Health and Environmental Chemistry: 1986,' LA-11114-MS, pp. 3-4.

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REPORT NUMBER: 7942

********** HSE-9 ANALYTICAL REPORT **********

Prepared by: TMF on 30-Aug-1990

ANALYSIS: AG REQUEST NUMBER: 10602 MATRIX: EPT ANALYST: Trudi Foreman PROGRAM CODE: M211

OWNER: Max Maes GROUP: HSE-8 MAIL-STOP: K490 PHONE: 7-0817 TASK-ID: TASK 1

ANALYTICAL TECHNIQUE: FAA ANALYTICAL PROCEDURE : 7760

CUSTOMER NUM	SAMPLE NUM	RESULT	UNCERTAINTY	UNITS	COMPLETION DATE	COMMENT
5.9A @ 4	90.15918	< 0.01		MG/L	8/30/90	
5.9A @ 9	90.15919	< 0.01		MG/L	8/30/90	
5.9A @ 14	90.15920	< 0.01		MG/L	8/30/90	
5.9A @ 19	90.15921	< 0.01		MG/L	8/30/90	
5.9A @ 24	90.15922	< 0.01		MG/L	8/30/90	
5.9A @ 29	90.15923	< 0.01		MG/L	8/30/90	
5.9A @ 34	90.15924	< 0.01		MG/L	8/30/90	
5.9A @ 39	90.15925	< 0.01		MG/L	8/30/90	
5.9A @ 40	90.15926	< 0.01		MG/L	8/30/90	
5.9A @ 44	90.15927	< 0.01		MG/L	8/30/90	
5.9A @ 47	90.15928	< 0.01		MG/L	8/30/90	
5.9A @ 49	90.15929	< 0.01		MG/L	8/30/90	
5.9A @ 54	90.15930	< 0.01		MG/L	8/30/90	
5.9A @ 64	90.15931	< 0.01		MG/L	8/30/90	
5.9A @ 69	90.15932	< 0.01		MG/L	8/30/90	
5.9A @ 79	90.15934	< 0.01		MG/L	8/30/90	
5.9A @ 89	90.15935	< 0.01		MG/L	8/30/90	
5.9A @ 94	90.15936	< 0.01		MG/L	8/30/90	
5.9A @ 99	90.15937	< 0.01		MG/L	8/30/90	
5.9A @ 102	90.15938	< 0.01		MG/L	8/30/90	
5.9A @ 104	90.15939	< 0.01		MG/L	8/30/90	
5.9A @ 109	90.15940	< 0.01		MG/L	8/30/90	
5.9A @ 114	90.15941	< 0.01		MG/L	8/30/90	
5.9A @ 119	90.15942	< 0.01		MG/L	8/30/90	
5.9A @ 124	90.15943	< 0.01		MG/L	8/30/90	
5.9A @ 129	90.15944	< 0.01		MG/L	8/30/90	
5.9A @ 134	90.15945	< 0.01		MG/L	8/30/90	
5.9A @ 139	90.15946	< 0.01		MG/L	8/30/90	
5.9A @ 144	90.15947	< 0.01		MG/L	8/30/90	
5.9A @ 149	90.15948	< 0.01		MG/L	8/30/90	
5.9A @ 154	90.15949	< 0.01		MG/L	8/30/90	
5.9A @ 159	90.15950	< 0.01		MG/L	8/30/90	
5.9A @ 164	90.15951	< 0.01		MG/L	8/30/90	
5.9A @ 169	90.15952	< 0.01		MG/L	8/30/90	
5.9A @ 174	90.15953	< 0.01		MG/L	8/30/90	
5.9A @ 179	90.15954	< 0.01		MG/L	8/30/90	
5.9A @ 184	90.16006	< 0.01		MG/L	8/30/90	
5.9A @ 189	90.16007	< 0.01		MG/L	8/30/90	
5.9A @ 194	90.16008	< 0.01		MG/L	8/30/90	

REPORT NUMBER: 7942 (continued)

********** HSE-9 QUALITY ASSURANCE REPORT *********

Prepared by: TMF on 30-Aug-1990

REQUEST NUMBER: 10602 MATRIX: EPT ANALYST: Trudi Foreman PROGRAM CODE: M211

OWNER: Max Maes GROUP: HSE-8 MAIL-STOP: K490 PHONE: 7-0817 TASK-ID: TASK 1

CUSTOMER NUM	SAMPLE NUM	RESULT	UNCERTAINTY	UNITS	CERTIFIED VALUE	CERTIFIED VALUE UNCERTAINTY	COMPLETION DATE	COMMENT
00.98805	00.98805	0.501	0.05	MG/L	0.5	0.05	8/30/90	UNDER CONTROL
00.98805	00.98805	0.49	0.05	MG/L	0.5	0.05	8/30/90	UNDER CONTROL
00.98805	00.98805	0.507	0.06	MG/L	0.5	0.05	8/30/90	UNDER CONTROL

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

SAMPLE NUM	RESULT	UNCERTAINTY	UNITS	CERTIFIED VALUE	CERTIFIED VALUE UNCERTAINTY	COMPLETION DATE	COMMENT
90.15979	0.499	0.05	MG/L	0.5	0.05	8/30/90	UNDER CONTROL
90.15980	1.38	0.14	MG/L	1.3	0.1	8/30/90	UNDER CONTROL
90.15981	0.65	0.06	MG/L	0.6	0.06	8/30/90	UNDER CONTROL
90.15982	< 10.		UG/L			8/30/90	UNDER CONTROL

Analyst	Section Leader	QA Officer
8-31-90	8-31-90	8-31-90
Date	Date	Date

The control status of the preceeding data was evaluated using the standard statistical criteria set forth in 'Quality Assurance for Health and Environmental Chemistry: 1986,' LA-11114-MS, pp. 3-4.

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REPORT NUMBER: 7938

********** HSE-9 ANALYTICAL REPORT **********

Prepared by: TMF on 30-Aug-1990

ANALYSIS: AS REQUEST NUMBER: 10602 MATRIX: EPT ANALYST: Trudi Foreman PROGRAM CODE: M211

OWNER: Max Maes GROUP: HSE-8 MAIL-STOP: K490 PHONE: 7-0817 TASK-ID: TASK 1

ANALYTICAL TECHNIQUE: ETVAA ANALYTICAL PROCEDURE : 7060

CUSTOMER NUM	SAMPLE NUM	RESULT	UNCERTAINTY	UNITS	COMPLETION DATE	COMMENT
5.9A @ 4	90.15918	3.1	2.	UG/L	8/23/90	
5.9A @ 9	90.15919	< 2.		UG/L	8/23/90	
5.9A @ 14	90.15920	< 2.		UG/L	8/23/90	
5.9A @ 19	90.15921	< 2.		UG/L	8/23/90	
5.9A @ 24	90.15922	< 2.		UG/L	8/23/90	
5.9A @ 29	90.15923	< 2.		UG/L	8/23/90	
5.9A @ 34	90.15924	2.9	2.	UG/L	8/23/90	
5.9A @ 39	90.15925	2.	2.	UG/L	8/23/90	
5.9A @ 40	90.15926	3.	2.	UG/L	8/23/90	
5.9A @ 44	90.15927	< 2.		UG/L	8/23/90	
5.9A @ 47	90.15928	< 2.		UG/L	8/23/90	
5.9A @ 49	90.15929	2.	2.	UG/L	8/23/90	
5.9A @ 54	90.15930	< 2.		UG/L	8/23/90	
5.9A @ 64	90.15931	< 2.		UG/L	8/23/90	
5.9A @ 69	90.15932	< 2.		UG/L	8/23/90	
5.9A @ 79	90.15934	2.	2.	UG/L	8/23/90	
5.9A @ 89	90.15935	< 2.		UG/L	8/23/90	
5.9A @ 94	90.15936	< 2.		UG/L	8/23/90	
5.9A @ 99	90.15937	< 2.		UG/L	8/23/90	
5.9A @ 102	90.15938	< 2.		UG/L	8/23/90	
5.9A @ 104	90.15939	< 2.		UG/L	8/23/90	
5.9A @ 109	90.15940	< 2.		UG/L	8/23/90	
5.9A @ 114	90.15941	< 2.		UG/L	8/23/90	
5.9A @ 119	90.15942	< 2.		UG/L	8/23/90	
5.9A @ 124	90.15943	< 2.		UG/L	8/23/90	
5.9A @ 129	90.15944	< 2.		UG/L	8/23/90	
5.9A @ 134	90.15945	< 2.		UG/L	8/23/90	
5.9A @ 139	90.15946	< 2.		UG/L	8/23/90	
5.9A @ 144	90.15947	< 2.		UG/L	8/23/90	
5.9A @ 149	90.15948	< 2.		UG/L	8/23/90	
5.9A @ 154	90.15949	< 2.		UG/L	8/23/90	
5.9A @ 159	90.15950	< 2.		UG/L	8/23/90	
5.9A @ 164	90.15951	< 2.		UG/L	8/23/90	
5.9A @ 169	90.15952	< 2.		UG/L	8/23/90	
5.9A @ 174	90.15953	< 2.		UG/L	8/23/90	
5.9A @ 179	90.15954	< 2.		UG/L	8/23/90	
5.9A @ 184	90.16006	< 2.		UG/L	8/23/90	
5.9A @ 189	90.16007	< 2.		UG/L	8/23/90	
5.9A @ 194	90.16008	< 2.		UG/L	8/23/90	

REPORT NUMBER: 7938 (continued)

********** HSE-9 QUALITY ASSURANCE REPORT *********

Prepared by: TMF on 30-Aug-1990

REQUEST NUMBER: 10602 MATRIX: EPT ANALYST: Trudi Foreman PROGRAM CODE: M211

OWNER: Max Maes GROUP: HSE-8 MAIL-STOP: K490 PHONE: 7-0817 TASK-ID: TASK 1

CUSTOMER NUM	SAMPLE NUM	RESULT	UNCERTAINTY	UNITS	CERTIFIED VALUE	CERTIFIED VALUE UNCERTAINTY	COMPLETION DATE	COMMENT
00.01160	00.01160	51.4	10.	UG/L	51.	4.28	8/23/90	UNDER CONTROL
00.01160	00.01160	50.7	10.	UG/L	51.	4.28	8/23/90	UNDER CONTROL
00.01160	00.01160	49.3	10.	UG/L	51.	4.28	8/23/90	UNDER CONTROL
00.01160	00.01160	51.9	10.	UG/L	51.	4.28	8/23/90	UNDER CONTROL
00.01160	00.01160	52.1	10.	UG/L	51.	4.28	8/23/90	UNDER CONTROL
00.01160	00.01160	52.6	10.	UG/L	51.	4.28	8/23/90	UNDER CONTROL

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

SAMPLE NUM	RESULT	UNCERTAINTY	UNITS	CERTIFIED VALUE	CERTIFIED VALUE UNCERTAINTY	COMPLETION DATE	COMMENT
90.15979	11.	2.	UG/L	10.	1.	8/23/90	UNDER CONTROL
90.15980	43.	8.	UG/L	46.	5.	8/23/90	UNDER CONTROL
90.15981	10.	2.	UG/L	10.	1.	8/23/90	UNDER CONTROL
90.15982	< 2.		UG/L			8/23/90	UNDER CONTROL

Analyst	Section Leader	QA Officer
8-31-90	8-31-90	8-31-90
Date	Date	Date

The control status of the preceeding data was evaluated using the standard statistical criteria set forth in 'Quality Assurance for Health and Environmental Chemistry: 1986,' LA-11114-MS, pp. 3-4.

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REPORT NUMBER: 8262

********** HSE-9 ANALYTICAL REPORT **********

Prepared by: KATHLEEN STRAW on 26-Sep-1990

ANALYSIS: F REQUEST NUMBER: 10602 MATRIX: S ANALYST: Kathleen Straw PROGRAM CODE: M211

OWNER: Max Maes GROUP: HSE-8 MAIL-STOP: K490 PHONE: 7-0817 TASK-ID: TASK 1

ANALYTICAL TECHNIQUE: ISE ANALYTICAL PROCEDURE : 340.2

CUSTOMER NUM	SAMPLE NUM	RESULT	UNCERTAINTY	UNITS	COMPLETION DATE	COMMENT
5.9A @ 4	90.15881	< 2.5		UG/G	9/14/90	LEACHABLE
5.9A @ 9	90.15882	< 2.5		UG/G	9/14/90	LEACHABLE
5.9A @ 14	90.15883	< 2.5		UG/G	9/14/90	LEACHABLE
5.9A @ 19	90.15884	< 2.5		UG/G	9/14/90	LEACHABLE
5.9A @ 24	90.15885	< 2.5		UG/G	9/14/90	LEACHABLE
5.9A @ 29	90.15886	3.15	2.5	UG/G	9/14/90	LEACHABLE
5.9A @ 34	90.15887	5.75	2.5	UG/G	9/14/90	LEACHABLE
5.9A @ 39	90.15888	8.1	2.5	UG/G	9/14/90	LEACHABLE
5.9A @ 40	90.15889	8.45	2.5	UG/G	9/14/90	LEACHABLE
5.9A @ 44	90.15890	2.75	2.5	UG/G	9/14/90	LEACHABLE
5.9A @ 47	90.15891	4.85	2.5	UG/G	9/14/90	LEACHABLE
5.9A @ 49	90.15892	5.75	2.5	UG/G	9/14/90	LEACHABLE
5.9A @ 54	90.15893	< 2.5		UG/G	9/14/90	LEACHABLE
5.9A @ 64	90.15894	< 2.5		UG/G	9/14/90	LEACHABLE
5.9A @ 69	90.15895	< 2.5		UG/G	9/14/90	LEACHABLE
5.9A @ 71.5	90.15896	5.05	2.5	UG/G	9/14/90	LEACHABLE
5.9A @ 79	90.15897	6.85	2.5	UG/G	9/14/90	LEACHABLE
5.9A @ 89	90.15898	3.75	2.5	UG/G	9/14/90	LEACHABLE
5.9A @ 94	90.15899	2.85	2.5	UG/G	9/14/90	LEACHABLE
5.9A @ 99	90.15900	< 2.5		UG/G	9/14/90	LEACHABLE
5.9A @ 102	90.15901	2.65	2.5	UG/G	9/14/90	LEACHABLE
5.9A @ 104	90.15902	4.45	2.5	UG/G	9/14/90	LEACHABLE
5.9A @ 109	90.15903	< 2.5		UG/G	9/14/90	LEACHABLE
5.9A @ 114	90.15904	2.5	2.5	UG/G	9/14/90	LEACHABLE
5.9A @ 119	90.15905	< 2.5		UG/G	9/14/90	LEACHABLE
5.9A @ 124	90.15906	< 2.5		UG/G	9/14/90	LEACHABLE
5.9A @ 129	90.15907	< 2.5		UG/G	9/14/90	LEACHABLE
5.9A @ 134	90.15908	< 2.5		UG/G	9/14/90	LEACHABLE
5.9A @ 139	90.15909	< 2.5		UG/G	9/14/90	LEACHABLE
5.9A @ 144	90.15910	< 2.5		UG/G	9/14/90	LEACHABLE
5.9A @ 149	90.15911	< 2.5		UG/G	9/14/90	LEACHABLE
5.9A @ 154	90.15912	< 2.5		UG/G	9/14/90	LEACHABLE
5.9A @ 159	90.15913	< 2.5		UG/G	9/14/90	LEACHABLE
5.9A @ 164	90.15914	< 2.5		UG/G	9/14/90	LEACHABLE
5.9A @ 169	90.15915	< 2.5		UG/G	9/14/90	LEACHABLE
5.9A @ 174	90.15916	< 2.5		UG/G	9/14/90	LEACHABLE
5.9A @ 179	90.15917	< 2.5		UG/G	9/14/90	LEACHABLE
5.9A @ 184	90.16003	< 2.5		UG/G	9/14/90	LEACHABLE
5.9A @ 189	90.16004	< 25.		UG/G	9/14/90	LEACHABLE

5.9A @ 194	90.16005	< 2.5	UG/G	9/14/90	LEACHABLE

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REPORT NUMBER: 8262 (continued)

********** HSE-9 QUALITY ASSURANCE REPORT *********

Prepared by: KATHLEEN STRAW on 26-Sep-1990

REQUEST NUMBER: 10602 MATRIX: S ANALYST: Kathleen Straw PROGRAM CODE: M211

OWNER: Max Maes GROUP: HSE-8 MAIL-STOP: K490 PHONE: 7-0817 TASK-ID: TASK 1

CUSTOMER NUM	SAMPLE NUM	RESULT	UNCERTAINTY	UNITS	CERTIFIED VALUE	CERTIFIED VALUE UNCERTAINTY	COMPLETION DATE	COMMENT
00.01013	00.01013	1.09	0.11	MG/L	1.	0.05	9/11/90	UNDER CONTROL
00.01013	00.01013	1.05	0.11	MG/L	1.	0.05	9/11/90	UNDER CONTROL
00.01013	00.01013	1.05	0.11	MG/L	1.	0.05	9/11/90	UNDER CONTROL
00.01013	00.01013	1.05	0.11	MG/L	1.	0.05	9/11/90	UNDER CONTROL
00.01013	00.01013	0.99	0.1	MG/L	1.	0.05	9/12/90	UNDER CONTROL

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

SAMPLE NUM	RESULT	UNCERTAINTY	UNITS	CERTIFIED VALUE	CERTIFIED VALUE UNCERTAINTY	COMPLETION DATE	COMMENT
90.15987	1.09	0.11	MG/L	1.13	0.1	9/14/90	UNDER CONTROL
90.15988	1050.	110.	UG/L	900.	90.	9/14/90	UNDER CONTROL
90.15989	1.53	0.2	MG/L	1.36	0.1	9/14/90	UNDER CONTROL
90.15990	1.31	0.13	MG/L	1.36	0.1	9/14/90	UNDER CONTROL

Analyst	Section Leader	QA Officer
9/28/90	9-28-90	9-28-90
Date	Date	Date

The control status of the preceeding data was evaluated using the standard statistical criteria set forth in 'Quality Assurance for Health and Environmental Chemistry: 1986,' LA-11114-MS, pp. 3-4.

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REPORT NUMBER: 7943

********** HSE-9 ANALYTICAL REPORT **********

Prepared by: TMF on 30-Aug-1990

ANALYSIS: HG REQUEST NUMBER: 10602 MATRIX: EPT ANALYST: Trudi Foreman PROGRAM CODE: M211

OWNER: Max Maes GROUP: HSE-8 MAIL-STOP: K490 PHONE: 7-0817 TASK-ID: TASK 1

ANALYTICAL TECHNIQUE: CVAA ANALYTICAL PROCEDURE : 7470

CUSTOMER NUM	SAMPLE NUM	RESULT	UNCERTAINTY	UNITS	COMPLETION DATE	COMMENT
5.9A @ 4	90.15918	< 0.2		UG/L	8/23/90	
5.9A @ 9	90.15919	0.2	0.2	UG/L	8/23/90	
5.9A @ 14	90.15920	< 0.2		UG/L	8/23/90	
5.9A @ 19	90.15921	0.2	0.2	UG/L	8/23/90	
5.9A @ 24	90.15922	< 0.2		UG/L	8/23/90	
5.9A @ 29	90.15923	< 0.2		UG/L	8/23/90	
5.9A @ 34	90.15924	> 0.2		UG/L	8/23/90	
5.9A @ 39	90.15925	< 0.2		UG/L	8/23/90	
5.9A @ 40	90.15926	< 0.2		UG/L	8/23/90	
5.9A @ 44	90.15927	< 0.2		UG/L	8/23/90	
5.9A @ 47	90.15928	< 0.2		UG/L	8/23/90	
5.9A @ 49	90.15929	< 0.2		UG/L	8/23/90	
5.9A @ 54	90.15930	< 0.2		UG/L	8/23/90	
5.9A @ 64	90.15931	< 0.2		UG/L	8/23/90	
5.9A @ 69	90.15932	< 0.2		UG/L	8/23/90	
5.9A @ 79	90.15934	< 0.2		UG/L	8/23/90	
5.9A @ 89	90.15935	< 0.2		UG/L	8/23/90	
5.9A @ 94	90.15936	0.2	0.2	UG/L	8/23/90	
5.9A @ 99	90.15937	0.2	0.2	UG/L	8/23/90	
5.9A @ 102	90.15938	0.36	0.2	UG/L	8/23/90	
5.9A @ 104	90.15939	0.76	0.2	UG/L	8/23/90	
5.9A @ 109	90.15940	0.9	0.2	UG/L	8/23/90	
5.9A @ 114	90.15941	0.81	0.2	UG/L	8/23/90	
5.9A @ 119	90.15942	0.75	0.2	UG/L	8/23/90	
5.9A @ 124	90.15943	0.76	0.2	UG/L	8/23/90	
5.9A @ 129	90.15944	< 0.2		UG/L	8/23/90	
5.9A @ 134	90.15945	< 0.2		UG/L	8/23/90	
5.9A @ 139	90.15946	< 0.2		UG/L	8/23/90	
5.9A @ 144	90.15947	< 0.2		UG/L	8/23/90	
5.9A @ 149	90.15948	< 0.2		UG/L	8/23/90	
5.9A @ 154	90.15949	< 0.2		UG/L	8/23/90	
5.9A @ 159	90.15950	< 0.2		UG/L	8/23/90	
5.9A @ 164	90.15951	< 0.2		UG/L	8/23/90	
5.9A @ 169	90.15952	< 0.2		UG/L	8/23/90	
5.9A @ 174	90.15953	< 0.2		UG/L	8/23/90	
5.9A @ 179	90.15954	< 0.2		UG/L	8/23/90	
5.9A @ 184	90.16006	< 0.2		UG/L	8/23/90	
5.9A @ 189	90.16007	< 0.2		UG/L	8/23/90	
5.9A @ 194	90.16008	< 0.2		UG/L	8/23/90	

REPORT NUMBER: 7943 (continued)

********** HSE-9 QUALITY ASSURANCE REPORT *********

Prepared by: TMF on 30-Aug-1990

REQUEST NUMBER: 10602 MATRIX: EPT ANALYST: Trudi Foreman PROGRAM CODE: M211

OWNER: Max Maes GROUP: HSE-8 MAIL-STOP: K490 PHONE: 7-0817 TASK-ID: TASK 1

CUSTOMER NUM	SAMPLE NUM	RESULT	UNCERTAINTY	UNITS	CERTIFIED VALUE	CERTIFIED VALUE UNCERTAINTY	COMPLETION DATE	COMMENT
00.20087	00.20087	3.5	0.4	UG/L	4.	0.4	8/23/90	UNDER CONTROL
00.20087	00.20087	3.8	0.4	UG/L	4.	0.4	8/23/90	UNDER CONTROL
00.20087	00.20087	4.2	0.4	UG/L	4.	0.4	8/23/90	UNDER CONTROL
00.20087	00.20087	3.9	0.4	UG/L	4.	0.4	8/23/90	UNDER CONTROL
00.20087	00.20087	4.3	0.4	UG/L	4.	0.4	8/23/90	UNDER CONTROL

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

SAMPLE NUM	RESULT	UNCERTAINTY	UNITS	CERTIFIED VALUE	CERTIFIED VALUE UNCERTAINTY	COMPLETION DATE	COMMENT
90.15983	0.94	0.2	UG/L	1.	0.1	8/23/90	UNDER CONTROL
90.15984	0.2	0.2	UG/L			8/23/90	UNDER CONTROL
90.15985	3.1	0.3	UG/L	3.5	0.4	8/23/90	UNDER CONTROL
90.15986	3.4	0.3	UG/L	4.	0.4	8/23/90	UNDER CONTROL

Analyst	Section Leader	QA Officer
8-31-90	8-31-90	8-31-90
Date	Date	Date

The control status of the preceeding data was evaluated using the standard statistical criteria set forth in 'Quality Assurance for Health and Environmental Chemistry: 1986,' LA-11114-MS, pp. 3-4.

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REPORT NUMBER: 7941

********** HSE-9 ANALYTICAL REPORT **********

Prepared by: TMF on 30-Aug-1990

ANALYSIS: SE REQUEST NUMBER: 10602 MATRIX: EPT ANALYST: Trudi Foreman PROGRAM CODE: M211

OWNER: Max Maes GROUP: HSE-8 MAIL-STOP: K490 PHONE: 7-0817 TASK-ID: TASK 1

ANALYTICAL TECHNIQUE: ETVAA ANALYTICAL PROCEDURE : 7740

CUSTOMER NUM	SAMPLE NUM	RESULT	UNCERTAINTY	UNITS	COMPLETION DATE	COMMENT
5.9A @ 4	90.15918	1.	1.	UG/L	8/23/90	
5.9A @ 9	90.15919	1.	1.	UG/L	8/23/90	
5.9A @ 14	90.15920	< 1.		UG/L	8/23/90	
5.9A @ 19	90.15921	< 1.		UG/L	8/23/90	
5.9A @ 24	90.15922	< 1.		UG/L	8/23/90	
5.9A @ 29	90.15923	< 1.		UG/L	8/23/90	
5.9A @ 34	90.15924	2.4	1.	UG/L	8/23/90	
5.9A @ 39	90.15925	2.6	1.	UG/L	8/23/90	
5.9A @ 40	90.15926	2.7	1.	UG/L	8/23/90	
5.9A @ 44	90.15927	2.2	1.	UG/L	8/23/90	
5.9A @ 47	90.15928	1.	1.	UG/L	8/23/90	
5.9A @ 49	90.15929	1.2	1.	UG/L	8/23/90	
5.9A @ 54	90.15930	1.5	1.	UG/L	8/23/90	
5.9A @ 64	90.15931	1.6	1.	UG/L	8/23/90	
5.9A @ 69	90.15932	1.4	1.	UG/L	8/23/90	
5.9A @ 79	90.15934	2.1	1.	UG/L	8/23/90	
5.9A @ 89	90.15935	< 1.		UG/L	8/23/90	
5.9A @ 94	90.15936	2.1	1.	UG/L	8/23/90	
5.9A @ 99	90.15937	< 1.		UG/L	8/23/90	
5.9A @ 102	90.15938	< 1.		UG/L	8/23/90	
5.9A @ 104	90.15939	< 1.		UG/L	8/23/90	
5.9A @ 109	90.15940	< 1.		UG/L	8/23/90	
5.9A @ 114	90.15941	< 1.		UG/L	8/23/90	
5.9A @ 119	90.15942	< 1.		UG/L	8/23/90	
5.9A @ 124	90.15943	< 1.		UG/L	8/23/90	
5.9A @ 129	90.15944	< 1.		UG/L	8/23/90	
5.9A @ 134	90.15945	< 1.		UG/L	8/23/90	
5.9A @ 139	90.15946	1.	1.	UG/L	8/23/90	
5.9A @ 144	90.15947	< 1.		UG/L	8/23/90	
5.9A @ 149	90.15948	< 1.		UG/L	8/23/90	
5.9A @ 154	90.15949	< 1.		UG/L	8/23/90	
5.9A @ 159	90.15950	< 1.		UG/L	8/23/90	
5.9A @ 164	90.15951	< 1.		UG/L	8/23/90	
5.9A @ 169	90.15952	< 1.		UG/L	8/23/90	
5.9A @ 174	90.15953	< 1.		UG/L	8/23/90	
5.9A @ 179	90.15954	< 1.		UG/L	8/23/90	
5.9A @ 184	90.16006	< 1.		UG/L	8/23/90	
5.9A @ 189	90.16007	< 1.		UG/L	8/23/90	
5.9A @ 194	90.16008	< 1.		UG/L	8/23/90	

REPORT NUMBER: 7941 (continued)

********** HSE-9 QUALITY ASSURANCE REPORT *********

Prepared by: TMF on 30-Aug-1990

REQUEST NUMBER: 10602 MATRIX: EPT ANALYST: Trudi Foreman PROGRAM CODE: M211

OWNER: Max Maes GROUP: HSE-8 MAIL-STOP: K490 PHONE: 7-0817 TASK-ID: TASK 1

CUSTOMER NUM	SAMPLE NUM	RESULT	UNCERTAINTY	UNITS	CERTIFIED VALUE	CERTIFIED VALUE UNCERTAINTY	COMPLETION DATE	COMMENT
00.01160	00.01160	8.1	1.6	UG/L	8.1	1.1	8/23/90	UNDER CONTROL
00.01160	00.01160	8.2	1.6	UG/L	8.1	1.1	8/23/90	UNDER CONTROL
00.01160	00.01160	7.6	1.6	UG/L	8.1	1.1	8/23/90	UNDER CONTROL
00.01160	00.01160	8.3	1.6	UG/L	8.1	1.1	8/23/90	UNDER CONTROL
00.01160	00.01160	8.6	1.9	UG/L	8.1	1.1	8/23/90	UNDER CONTROL
00.01160	00.01160	8.4	1.6	UG/L	8.1	1.1	8/23/90	UNDER CONTROL

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

SAMPLE NUM	RESULT	UNCERTAINTY	UNITS	CERTIFIED VALUE	CERTIFIED VALUE UNCERTAINTY	COMPLETION DATE	COMMENT
90.15979	19.	4.	UG/L	20.	2.	8/23/90	UNDER CONTROL
90.15980	44.	8.	UG/L	46.	5.	8/23/90	UNDER CONTROL
90.15981	39.	8.	UG/L	40.	4.	8/23/90	UNDER CONTROL
90.15982	< 1.		UG/L			8/23/90	UNDER CONTROL

Analyst	Section Leader	QA Officer
8-31-90	8-31-90	8-31-90
Date	Date	Date

The control status of the preceeding data was evaluated using the standard statistical criteria set forth in 'Quality Assurance for Health and Environmental Chemistry: 1986,' LA-11114-MS, pp. 3-4.

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REPORT NUMBER: 7728

********** HSE-9 ANALYTICAL REPORT **********

Prepared by: H. PATTERSON on 16-Aug-1990

ANALYSIS: PH REQUEST NUMBER: 10602 MATRIX: S ANALYST: Harry Patterson PROGRAM CODE: M211

OWNER: Max Maes GROUP: HSE-8 MAIL-STOP: K490 PHONE: 7-0817 TASK-ID: TASK 1

ANALYTICAL TECHNIQUE: GE ANALYTICAL PROCEDURE : 9045

CUSTOMER NUM	SAMPLE NUM	RESULT	UNCERTAINTY	UNITS	COMPLETION DATE	COMMENT
5.9A @ 4	90.15881	6.64	0.1	NONE	8/16/90	
5.9A @ 9	90.15882	6.97	0.1	NONE	8/16/90	
5.9A @ 14	90.15883	7.12	0.1	NONE	8/16/90	
5.9A @ 19	90.15884	7.43	0.1	NONE	8/16/90	
5.9A @ 24	90.15885	7.18	0.1	NONE	8/16/90	
5.9A @ 29	90.15886	6.8	0.1	NONE	8/16/90	
5.9A @ 34	90.15887	7.06	0.1	NONE	8/16/90	
5.9A @ 39	90.15888	7.1	0.1	NONE	8/16/90	
5.9A @ 40	90.15889	7.31	0.1	NONE	8/16/90	
5.9A @ 44	90.15890	7.8	0.1	NONE	8/16/90	
5.9A @ 47	90.15891	6.93	0.1	NONE	8/16/90	
5.9A @ 49	90.15892	7.16	0.1	NONE	8/16/90	
5.9A @ 54	90.15893	7.07	0.1	NONE	8/16/90	
5.9A @ 64	90.15894	6.75	0.1	NONE	8/16/90	
5.9A @ 69	90.15895	6.82	0.1	NONE	8/16/90	
5.9A @ 71.5	90.15896	7.1	0.1	NONE	8/16/90	
5.9A @ 79	90.15897	7.26	0.1	NONE	8/16/90	
5.9A @ 89	90.15898	7.06	0.1	NONE	8/16/90	
5.9A @ 94	90.15899	7.06	0.1	NONE	8/16/90	
5.9A @ 99	90.15900	6.49	0.1	NONE	8/16/90	
5.9A @ 102	90.15901	6.54	0.1	NONE	8/16/90	
5.9A @ 104	90.15902	6.81	0.1	NONE	8/16/90	
5.9A @ 109	90.15903	6.75	0.1	NONE	8/16/90	
5.9A @ 114	90.15904	6.88	0.1	NONE	8/16/90	
5.9A @ 119	90.15905	7.18	0.1	NONE	8/16/90	
5.9A @ 124	90.15906	6.76	0.1	NONE	8/16/90	
5.9A @ 129	90.15907	6.85	0.1	NONE	8/16/90	
5.9A @ 134	90.15908	6.72	0.1	NONE	8/16/90	
5.9A @ 139	90.15909	6.68	0.1	NONE	8/16/90	
5.9A @ 144	90.15910	6.59	0.1	NONE	8/16/90	
5.9A @ 149	90.15911	6.83	0.1	NONE	8/16/90	
5.9A @ 154	90.15912	6.87	0.1	NONE	8/16/90	
5.9A @ 159	90.15913	7.05	0.1	NONE	8/16/90	
5.9A @ 164	90.15914	6.92	0.1	NONE	8/16/90	
5.9A @ 169	90.15915	6.99	0.1	NONE	8/16/90	
5.9A @ 174	90.15916	7.93	0.1	NONE	8/16/90	
5.9A @ 179	90.15917	7.64	0.1	NONE	8/16/90	
5.9A @ 184	90.16003	7.86	0.1	NONE	8/16/90	
5.9A @ 189	90.16004	7.61	0.1	NONE	8/16/90	

REPORT NUMBER: 7728 (continued)

********** HSE-9 QUALITY ASSURANCE REPORT *********

Prepared by: H. PATTERSON on 16-Aug-1990

REQUEST NUMBER: 10602 MATRIX: S ANALYST: Harry Patterson PROGRAM CODE: M211

OWNER: Max Maes GROUP: HSE-8 MAIL-STOP: K490 PHONE: 7-0817 TASK-ID: TASK 1

CUSTOMER NUM	SAMPLE NUM	RESULT	UNCERTAINTY	UNITS	CERTIFIED VALUE	CERTIFIED VALUE UNCERTAINTY	COMPLETION DATE	COMMENT
00.00966	00.00966	6.83	0.1	UNITS	6.87	0.06	8/16/90	UNDER CONTROL

H.P.
Analyst

MHB
Section Leader

MHB
QA Officer

9/20/90
Date

9-20-90
Date

9-20-90
Date

The control status of the preceeding data was evaluated using the standard statistical criteria set forth in 'Quality Assurance for Health and Environmental Chemistry: 1986,' LA-11114-MS, pp. 3-4.

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REPORT NUMBER: 7892

********** HSE-9 ANALYTICAL REPORT **********

Prepared by: J.D. MONTOYA on 28-Aug-1990

REQUEST NUMBER: 10602 MATRIX: EPT ANALYST: Charles T. Apel PROGRAM CODE: M211

OWNER: Max Maes GROUP: HSE-8 MAIL-STOP: K490 PHONE: 7-0817 TASK-ID: TASK 1

CUSTOMER NUM	SAMPLE NUM	ANALYSIS	RESULT	UNCERTAINTY	UNITS	COMPLETION DATE	COMMENT
5.9A @ 4	90.15918	BA	0.04	0.004	MG/L	8/27/90	3010
5.9A @ 4	90.15918	CD	< 0.03		MG/L	8/27/90	3010
5.9A @ 4	90.15918	CR	< 0.1		MG/L	8/27/90	3010
5.9A @ 4	90.15918	PB	< 1.		MG/L	8/27/90	3010
5.9A @ 9	90.15919	BA	0.05	0.005	MG/L	8/27/90	3010
5.9A @ 9	90.15919	CD	< 0.03		MG/L	8/27/90	3010
5.9A @ 9	90.15919	CR	< 0.1		MG/L	8/27/90	3010
5.9A @ 9	90.15919	PB	< 1.		MG/L	8/27/90	3010
5.9A @ 14	90.15920	BA	0.1	0.01	MG/L	8/27/90	3010
5.9A @ 14	90.15920	CD	< 0.03		MG/L	8/27/90	3010
5.9A @ 14	90.15920	CR	< 0.1		MG/L	8/27/90	3010
5.9A @ 14	90.15920	PB	< 1.		MG/L	8/27/90	3010
5.9A @ 19	90.15921	BA	0.02	0.003	MG/L	8/27/90	3010
5.9A @ 19	90.15921	CD	< 0.03		MG/L	8/27/90	3010
5.9A @ 19	90.15921	CR	< 0.1		MG/L	8/27/90	3010
5.9A @ 19	90.15921	PB	< 1.		MG/L	8/27/90	3010
5.9A @ 24	90.15922	BA	0.01	0.003	MG/L	8/27/90	3010
5.9A @ 24	90.15922	CD	< 0.03		MG/L	8/27/90	3010
5.9A @ 24	90.15922	CR	< 0.1		MG/L	8/27/90	3010
5.9A @ 24	90.15922	PB	< 1.		MG/L	8/27/90	3010
5.9A @ 29	90.15923	BA	0.13	0.01	MG/L	8/27/90	3010
5.9A @ 29	90.15923	CD	< 0.03		MG/L	8/27/90	3010
5.9A @ 29	90.15923	CR	< 0.1		MG/L	8/27/90	3010
5.9A @ 29	90.15923	PB	< 1.		MG/L	8/27/90	3010
5.9A @ 34	90.15924	BA	0.009	0.003	MG/L	8/27/90	3010
5.9A @ 34	90.15924	CD	< 0.03		MG/L	8/27/90	3010
5.9A @ 34	90.15924	CR	< 0.1		MG/L	8/27/90	3010
5.9A @ 34	90.15924	PB	< 1.		MG/L	8/27/90	3010
5.9A @ 39	90.15925	BA	0.03	0.003	MG/L	8/27/90	3010
5.9A @ 39	90.15925	CD	< 0.03		MG/L	8/27/90	3010
5.9A @ 39	90.15925	CR	< 0.1		MG/L	8/27/90	3010
5.9A @ 39	90.15925	PB	< 1.		MG/L	8/27/90	3010
5.9A @ 40	90.15926	BA	0.03	0.003	MG/L	8/27/90	3010
5.9A @ 40	90.15926	CD	< 0.03		MG/L	8/27/90	3010
5.9A @ 40	90.15926	CR	< 0.1		MG/L	8/27/90	3010
5.9A @ 40	90.15926	PB	< 1.		MG/L	8/27/90	3010
5.9A @ 44	90.15927	BA	0.014	0.003	MG/L	8/27/90	3010
5.9A @ 44	90.15927	CD	< 0.03		MG/L	8/27/90	3010
5.9A @ 44	90.15927	CR	< 0.1		MG/L	8/27/90	3010
5.9A @ 44	90.15927	PB	< 1.		MG/L	8/27/90	3010

5.9A @ 47	90.15928 BA	0.02	0.003	MG/L	8/27/90	3010
5.9A @ 47	90.15928 CD	< 0.03		MG/L	8/27/90	3010
5.9A @ 47	90.15928 CR	< 0.1		MG/L	8/27/90	3010
5.9A @ 47	90.15928 PB	< 1.		MG/L	8/27/90	3010
5.9A @ 49	90.15929 BA	0.63	0.06	MG/L	8/27/90	3010
5.9A @ 49	90.15929 CD	< 0.03		MG/L	8/27/90	3010
5.9A @ 49	90.15929 CR	< 0.1		MG/L	8/27/90	3010
5.9A @ 49	90.15929 PB	< 1.		MG/L	8/27/90	3010
5.9A @ 54	90.15930 BA	< 0.003		MG/L	8/27/90	3010
5.9A @ 54	90.15930 CD	< 0.03		MG/L	8/27/90	3010
5.9A @ 54	90.15930 CR	< 0.1		MG/L	8/27/90	3010
5.9A @ 54	90.15930 PB	< 1.		MG/L	8/27/90	3010
5.9A @ 64	90.15931 BA	0.006	0.003	MG/L	8/27/90	3010
5.9A @ 64	90.15931 CD	< 0.03		MG/L	8/27/90	3010
5.9A @ 64	90.15931 CR	< 0.1		MG/L	8/27/90	3010
5.9A @ 64	90.15931 PB	< 1.		MG/L	8/27/90	3010
5.9A @ 69	90.15932 BA	0.13		MG/L	8/27/90	3010
5.9A @ 69	90.15932 CD	< 0.03		MG/L	8/27/90	3010
5.9A @ 69	90.15932 CR	< 0.1		MG/L	8/27/90	3010
5.9A @ 69	90.15932 PB	< 1.		MG/L	8/27/90	3010
5.9A @ 71.5	90.15933 BA			MG/L	8/27/90	NO SAMPLE
5.9A @ 71.5	90.15933 CD			MG/L	8/27/90	NO SAMPLE
5.9A @ 71.5	90.15933 CR			MG/L	8/27/90	NO SAMPLE
5.9A @ 71.5	90.15933 PB			MG/L	8/27/90	NO SAMPLE
5.9A @ 79	90.15934 BA	0.24	0.02	MG/L	8/27/90	NO SAMPLE
5.9A @ 79	90.15934 CD	< 0.03		MG/L	8/27/90	3010
5.9A @ 79	90.15934 CR	< 0.1		MG/L	8/27/90	3010
5.9A @ 79	90.15934 PB	< 1.		MG/L	8/27/90	3010
5.9A @ 89	90.15935 BA	0.03	0.003	MG/L	8/27/90	3010
5.9A @ 89	90.15935 CD	< 0.03		MG/L	8/27/90	3010
5.9A @ 89	90.15935 CR	< 0.1		MG/L	8/27/90	3010
5.9A @ 89	90.15935 PB	< 1.		MG/L	8/27/90	3010
5.9A @ 94	90.15936 BA	0.02	0.003	MG/L	8/27/90	3010
5.9A @ 94	90.15936 CD	< 0.03		MG/L	8/27/90	3010
5.9A @ 94	90.15936 CR	< 0.1		MG/L	8/27/90	3010
5.9A @ 94	90.15936 PB	< 1.		MG/L	8/27/90	3010
5.9A @ 99	90.15937 BA	< 0.003		MG/L	8/27/90	3010
5.9A @ 99	90.15937 CD	< 0.03		MG/L	8/27/90	3010
5.9A @ 99	90.15937 CR	< 0.1		MG/L	8/27/90	3010
5.9A @ 99	90.15937 PB	< 1.		MG/L	8/27/90	3010
5.9A @ 102	90.15938 BA	< 0.003		MG/L	8/27/90	3010
5.9A @ 102	90.15938 CD	< 0.03		MG/L	8/27/90	3010
5.9A @ 102	90.15938 CR	< 0.1		MG/L	8/27/90	3010
5.9A @ 102	90.15938 PB	< 1.		MG/L	8/27/90	3010
5.9A @ 104	90.15939 BA	< 0.003		MG/L	8/27/90	3010
5.9A @ 104	90.15939 CD	< 0.03		MG/L	8/27/90	3010
5.9A @ 104	90.15939 CR	< 0.1		MG/L	8/27/90	3010
5.9A @ 104	90.15939 PB	< 1.		MG/L	8/27/90	3010
5.9A @ 109	90.15940 BA	< 0.003		MG/L	8/27/90	3010
5.9A @ 109	90.15940 CD	< 0.03		MG/L	8/27/90	3010
5.9A @ 109	90.15940 CR	< 0.1		MG/L	8/27/90	3010
5.9A @ 109	90.15940 PB	< 1.		MG/L	8/27/90	3010
5.9A @ 114	90.15941 BA	0.008	0.003	MG/L	8/27/90	3010
5.9A @ 114	90.15941 CD	< 0.03		MG/L	8/27/90	3010
5.9A @ 114	90.15941 CR	< 0.1		MG/L	8/27/90	3010
5.9A @ 114	90.15941 PB	< 1.		MG/L	8/27/90	3010
5.9A @ 119	90.15942 BA	< 0.003		MG/L	8/27/90	3010
5.9A @ 119	90.15942 CD	< 0.03		MG/L	8/27/90	3010
5.9A @ 119	90.15942 CR	< 0.1		MG/L	8/27/90	3010
5.9A @ 119	90.15942 PB	< 1.		MG/L	8/27/90	3010

5.9A @ 124	90.15943	BA	0.006	0.003	MG/L	8/27/90	3010
5.9A @ 124	90.15943	CD	< 0.03		MG/L	8/27/90	3010
5.9A @ 124	90.15943	CR	< 0.1		MG/L	8/27/90	3010
5.9A @ 124	90.15943	PB	< 1.		MG/L	8/27/90	3010
5.9A @ 129	90.15944	BA	< 0.003		MG/L	8/27/90	3010
5.9A @ 129	90.15944	CD	< 0.03		MG/L	8/27/90	3010
5.9A @ 129	90.15944	CR	< 0.1		MG/L	8/27/90	3010
5.9A @ 129	90.15944	PB	< 1.		MG/L	8/27/90	3010
5.9A @ 134	90.15945	BA	< 0.003		MG/L	8/27/90	3010
5.9A @ 134	90.15945	CD	< 0.03		MG/L	8/27/90	3010
5.9A @ 134	90.15945	CR	< 0.1		MG/L	8/27/90	3010
5.9A @ 134	90.15945	PB	< 1.		MG/L	8/27/90	3010
5.9A @ 139	90.15946	BA	< 0.003		MG/L	8/27/90	3010
5.9A @ 139	90.15946	CD	0.05	0.03	MG/L	8/27/90	3010
5.9A @ 139	90.15946	CR	< 0.1		MG/L	8/27/90	3010
5.9A @ 139	90.15946	PB	< 1.		MG/L	8/27/90	3010
5.9A @ 144	90.15947	BA	< 0.003		MG/L	8/27/90	3010
5.9A @ 144	90.15947	CD	< 0.03		MG/L	8/27/90	3010
5.9A @ 144	90.15947	CR	< 0.1		MG/L	8/27/90	3010
5.9A @ 144	90.15947	PB	< 1.		MG/L	8/27/90	3010
5.9A @ 149	90.15948	BA	< 0.003		MG/L	8/27/90	3010
5.9A @ 149	90.15948	CD	< 0.03		MG/L	8/27/90	3010
5.9A @ 149	90.15948	CR	< 0.1		MG/L	8/27/90	3010
5.9A @ 149	90.15948	PB	< 1.		MG/L	8/27/90	3010
5.9A @ 154	90.15949	BA	< 0.003		MG/L	8/27/90	3010
5.9A @ 154	90.15949	CD	< 0.03		MG/L	8/27/90	3010
5.9A @ 154	90.15949	CR	< 0.1		MG/L	8/27/90	3010
5.9A @ 154	90.15949	PB	< 1.		MG/L	8/27/90	3010
5.9A @ 159	90.15950	BA	< 0.003		MG/L	8/27/90	3010
5.9A @ 159	90.15950	CD	< 0.03		MG/L	8/27/90	3010
5.9A @ 159	90.15950	CR	< 0.1		MG/L	8/27/90	3010
5.9A @ 159	90.15950	PB	< 1.		MG/L	8/27/90	3010
5.9A @ 164	90.15951	BA	0.004	0.003	MG/L	8/27/90	3010
5.9A @ 164	90.15951	CD	< 0.03		MG/L	8/27/90	3010
5.9A @ 164	90.15951	CR	< 0.1		MG/L	8/27/90	3010
5.9A @ 164	90.15951	PB	< 1.		MG/L	8/27/90	3010
5.9A @ 169	90.15952	BA	< 0.003		MG/L	8/27/90	3010
5.9A @ 169	90.15952	CD	< 0.03		MG/L	8/27/90	3010
5.9A @ 169	90.15952	CR	< 0.1		MG/L	8/27/90	3010
5.9A @ 169	90.15952	PB	< 1.		MG/L	8/27/90	3010
5.9A @ 174	90.15953	BA	< 0.003		MG/L	8/27/90	3010
5.9A @ 174	90.15953	CD	< 0.03		MG/L	8/27/90	3010
5.9A @ 174	90.15953	CR	< 0.1		MG/L	8/27/90	3010
5.9A @ 174	90.15953	PB	< 1.		MG/L	8/27/90	3010
5.9A @ 179	90.15954	BA	< 0.003		MG/L	8/27/90	3010
5.9A @ 179	90.15954	CD	< 0.03		MG/L	8/27/90	3010
5.9A @ 179	90.15954	CR	< 0.1		MG/L	8/27/90	3010
5.9A @ 179	90.15954	PB	< 1.		MG/L	8/27/90	3010
5.9A @ 184	90.16006	BA	< 0.003		MG/L	8/27/90	3010
5.9A @ 184	90.16006	CD	< 0.03		MG/L	8/27/90	3010
5.9A @ 184	90.16006	CR	< 0.1		MG/L	8/27/90	3010
5.9A @ 184	90.16006	PB	< 1.		MG/L	8/27/90	3010
5.9A @ 189	90.16007	BA	< 0.003		MG/L	8/27/90	3010
5.9A @ 189	90.16007	CD	< 0.03		MG/L	8/27/90	3010
5.9A @ 189	90.16007	CR	< 0.1		MG/L	8/27/90	3010
5.9A @ 189	90.16007	PB	< 1.		MG/L	8/27/90	3010
5.9A @ 194	90.16008	BA	< 0.003		MG/L	8/27/90	3010
5.9A @ 194	90.16008	CD	< 0.03		MG/L	8/27/90	3010
5.9A @ 194	90.16008	CR	< 0.1		MG/L	8/27/90	3010
5.9A @ 194	90.16008	PB	< 1.		MG/L	8/27/90	3010

REPORT NUMBER: 7892 (continued)

********** HSE-9 QUALITY ASSURANCE REPORT *********

Prepared by: J.D. MONTOYA on 28-Aug-1990

REQUEST NUMBER: 10602 MATRIX: EPT ANALYST: Charles T. Apel PROGRAM CODE: M211

OWNER: Max Maes GROUP: HSE-8 MAIL-STOP: K490 PHONE: 7-0817 TASK-ID: TASK 1

CUSTOMER NUM	SAMPLE NUM	ANALYSIS	RESULT	UNCERTAINTY	UNITS	CERTIFIED VALUE	CERTIFIED VALUE UNCERTAINTY	COMPLETION DATE
00.20193	00.20193	BA	10.7	1.1	MG/L	10.	1.	8/27/90 UNDER CONTROL
00.20193	00.20193	BA	11.	1.1	MG/L	10.	1.	8/27/90 UNDER CONTROL
00.20193	00.20193	BA	10.7	1.1	MG/L	10.	1.	8/27/90 UNDER CONTROL
00.20193	00.20193	BA	11.	1.1	MG/L	10.	1.	8/27/90 UNDER CONTROL
00.20193	00.20193	BA	10.8	1.1	MG/L	10.	1.	8/27/90 UNDER CONTROL
00.20193	00.20193	CD	11.1	1.1	MG/L	10.	1.	8/27/90 UNDER CONTROL
00.20193	00.20193	CD	10.7	1.1	MG/L	10.	1.	8/27/90 UNDER CONTROL
00.20193	00.20193	CD	11.	1.1	MG/L	10.	1.	8/27/90 UNDER CONTROL
00.20193	00.20193	CD	11.	1.1	MG/L	10.	1.	8/27/90 UNDER CONTROL
00.20193	00.20193	CD	10.8	1.1	MG/L	10.	1.	8/27/90 UNDER CONTROL
00.20193	00.20193	CR	10.9	1.1	MG/L	10.	1.	8/27/90 UNDER CONTROL
00.20193	00.20193	CR	10.8	1.1	MG/L	10.	1.	8/27/90 UNDER CONTROL
00.20193	00.20193	CR	11.1	1.1	MG/L	10.	1.	8/27/90 UNDER CONTROL
00.20193	00.20193	CR	11.1	1.1	MG/L	10.	1.	8/27/90 UNDER CONTROL
00.20193	00.20193	CR	11.	1.1	MG/L	10.	1.	8/27/90 UNDER CONTROL
00.20193	00.20193	PB	10.	1.	MG/L	10.	1.	8/27/90 UNDER CONTROL
00.20193	00.20193	PB	10.4	1.	MG/L	10.	1.	8/27/90 UNDER CONTROL
0.20193	00.20193	PB	10.2	1.	MG/L	10.	1.	8/27/90 UNDER CONTROL
00.20193	00.20193	PB	10.	1.	MG/L	10.	1.	8/27/90 UNDER CONTROL
00.20193	00.20193	PB	10.6	1.1	MG/L	10.	1.	8/27/90

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

SAMPLE NUM	ANALYSIS	RESULT	UNCERTAINTY	UNITS	CERTIFIED VALUE	CERTIFIED VALUE UNCERTAINTY	COMPLETION DATE	COMMENT
90.15979	BA	4.9	0.5	MG/L	5.	0.5	8/27/90	UNDER CONTROL
90.15979	CD	0.6	0.06	MG/L	0.6	0.06	8/27/90	UNDER CONTROL
90.15979	CR	1.3	0.13	MG/L	1.4	0.1	8/27/90	UNDER CONTROL
90.15979	PB	17.8	1.8	MG/L	20.	2.	8/27/90	UNDER CONTROL
90.15980	BA	1.1	0.11	MG/L	1.	0.1	8/27/90	UNDER CONTROL
90.15980	CD	4.3	0.43	MG/L	4.	0.4	8/27/90	UNDER CONTROL
90.15980	CR	4.	0.4	MG/L	4.	0.4	8/27/90	UNDER CONTROL
90.15980	PB	11.	1.1	MG/L	12.	1.	8/27/90	UNDER CONTROL
90.15981	BA	2.2	0.22	MG/L	2.	0.2	8/27/90	UNDER CONTROL
90.15981	CD	1.5	0.15	MG/L	1.4	0.1	8/27/90	UNDER CONTROL
90.15981	CR	6.4	0.64	MG/L	6.	0.6	8/27/90	UNDER CONTROL
90.15981	PB	13.6	1.4	MG/L	14.	1.	8/27/90	UNDER CONTROL
90.15982	BA	< 3.		UG/L			8/27/90	UNDER CONTROL
90.15982	CD	< 30.		UG/L			8/27/90	UNDER CONTROL
90.15982	CR	< 100.		UG/L			8/27/90	UNDER CONTROL
90.15982	PB	< 1000.		UG/L			8/27/90	UNDER CONTROL

Analyst	Section Leader	QA Officer
JD Montoya	MLB	MLB
8-28-90	8-28-90	8-28-90
Date	Date	Date

The control status of the preceeding data was evaluated using the standard statistical criteria set forth in 'Quality Assurance for Health and Environmental Chemistry: 1986,' LA-11114-MS, pp. 3-4.

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REPORT NUMBER: 8314

********** HSE-9 ANALYTICAL REPORT **********

Prepared by: E.M.HODGE on 2-Oct-1990

REQUEST NUMBER: 10602 MATRIX: S ANALYST: Evangeline Hodge PROGRAM CODE: M211

OWNER: Max Maes GROUP: HSE-8 MAIL-STOP: K490 PHONE: 7-0817 TASK-ID: TASK 1

CUSTOMER NUM	SAMPLE NUM	ANALYSIS	RESULT	UNCERTAINTY	UNITS	COMPLETION DATE	COMMENT
5.9A @ 4	90.15881	CL	< 10.		UG/G	8/23/90	
5.9A @ 4	90.15881	NO3-N	1.76	0.2	UG/G	8/28/90	
5.9A @ 9	90.15882	CL	< 10.		UG/G	8/23/90	
5.9A @ 9	90.15882	NO3-N	1.28	0.1	UG/G	8/28/90	
5.9A @ 14	90.15883	CL	< 10.		UG/G	8/23/90	
5.9A @ 14	90.15883	NO3-N	0.495	0.05	UG/G	8/28/90	
5.9A @ 19	90.15884	CL	< 10.		UG/G	8/23/90	
5.9A @ 19	90.15884	NO3-N	0.724	0.07	UG/G	8/28/90	
5.9A @ 24	90.15885	CL	< 10.		UG/G	8/23/90	
5.9A @ 24	90.15885	NO3-N	0.69	0.07	UG/G	8/28/90	
5.9A @ 29	90.15886	CL	22.68	10.	UG/G	8/23/90	
5.9A @ 29	90.15886	NO3-N	8.2	0.8	UG/G	8/28/90	
5.9A @ 34	90.15887	CL	< 10.		UG/G	8/23/90	
5.9A @ 34	90.15887	NO3-N	5.15	0.5	UG/G	8/28/90	
5.9A @ 39	90.15888	CL	19.18	10.	UG/G	8/23/90	
5.9A @ 39	90.15888	NO3-N	15.35	1.5	UG/G	8/28/90	
5.9A @ 40	90.15889	CL	22.68	10.	UG/G	8/23/90	
5.9A @ 40	90.15889	NO3-N	14.55	1.5	UG/G	8/28/90	
5.9A @ 44	90.15890	CL	12.38	1.2	UG/G	8/23/90	
5.9A @ 44	90.15890	NO3-N	18.5	1.8	UG/G	8/28/90	
5.9A @ 47	90.15891	CL	30.53	10.	UG/G	8/23/90	
5.9A @ 47	90.15891	NO3-N	19.95	2.	UG/G	8/28/90	
5.9A @ 49	90.15892	CL	51.06	10.	UG/G	8/23/90	
5.9A @ 49	90.15892	NO3-N	19.65	2.	UG/G	8/28/90	
5.9A @ 54	90.15893	CL	< 10.		UG/G	8/23/90	
5.9A @ 54	90.15893	NO3-N	7.2	0.7	UG/G	8/28/90	
5.9A @ 64	90.15894	CL	< 10.		MG/L	8/23/90	
5.9A @ 64	90.15894	NO3-N	12.8	1.3	UG/G	8/28/90	
5.9A @ 69	90.15895	CL	10.43	10.	UG/G	8/23/90	
5.9A @ 69	90.15895	NO3-N	7.2	0.7	UG/G	8/28/90	
5.9A @ 71.5	90.15896	CL	87.12	10.	UG/G	8/23/90	
5.9A @ 71.5	90.15896	NO3-N	6.15	0.6	UG/G	8/28/90	
5.9A @ 79	90.15897	CL	38.35	10.	UG/G	8/23/90	
5.9A @ 79	90.15897	NO3-N	1.55	0.1	UG/G	9/26/90	
5.9A @ 89	90.15898	CL	15.22	10.	UG/G	8/23/90	
5.9A @ 89	90.15898	NO3-N	0.934	0.09	UG/G	8/28/90	
5.9A @ 94	90.15899	CL	< 10.		UG/G	8/23/90	
5.9A @ 94	90.15899	NO3-N	0.585	0.06	UG/G	8/28/90	
5.9A @ 99	90.15900	CL	13.19	10.	UG/G	8/23/90	
5.9A @ 99	90.15900	NO3-N	24.4	2.4	UG/G	9/26/90	

5.9A @ 102	90.15901	CL	11.38	10.	UG/G	8/23/90
5.9A @ 102	90.15901	NO3-N	10.75	1.1	UG/G	8/28/90
5.9A @ 104	90.15902	CL	14.48	10.	UG/G	8/23/90
5.9A @ 104	90.15902	NO3-N	26.8	2.7	UG/G	9/26/90
5.9A @ 109	90.15903	CL	< 10.		UG/G	8/23/90
5.9A @ 109	90.15903	NO3-N	431.88	43.	UG/G	8/30/90
5.9A @ 114	90.15904	CL	11.17	10.	UG/G	8/23/90
5.9A @ 114	90.15904	NO3-N	18.3	1.8	UG/G	9/26/90
5.9A @ 119	90.15905	CL	< 10.		UG/G	8/23/90
5.9A @ 119	90.15905	NO3-N	6.13	0.6	UG/G	8/28/90
5.9A @ 124	90.15906	CL	< 10.		UG/G	8/23/90
5.9A @ 124	90.15906	NO3-N	5.13	0.5	UG/G	8/28/90
5.9A @ 129	90.15907	CL	< 10.		UG/G	8/23/90
5.9A @ 129	90.15907	NO3-N	5.13	0.5	UG/G	8/28/90
5.9A @ 134	90.15908	CL	< 10.		UG/G	8/23/90
5.9A @ 134	90.15908	NO3-N	4.1	0.4	UG/G	8/28/90
5.9A @ 139	90.15909	CL	< 10.		UG/G	8/23/90
5.9A @ 139	90.15909	NO3-N	4.88	0.5	UG/G	8/28/90
5.9A @ 144	90.15910	CL	< 10.		UG/G	8/23/90
5.9A @ 144	90.15910	NO3-N	3.6	0.4	UG/G	8/28/90
5.9A @ 149	90.15911	CL	< 10.		UG/G	8/23/90
5.9A @ 149	90.15911	NO3-N	2.58	0.3	UG/G	8/28/90
5.9A @ 154	90.15912	CL	< 10.		UG/G	8/23/90
5.9A @ 154	90.15912	NO3-N	2.8	0.3	UG/G	8/30/90
5.9A @ 159	90.15913	CL	< 10.		UG/G	8/23/90
5.9A @ 159	90.15913	NO3-N	0.824	0.08	UG/G	8/28/90
5.9A @ 164	90.15914	CL	< 10.		UG/G	8/23/90
5.9A @ 164	90.15914	NO3-N	1.52	0.2	UG/G	8/28/90
5.9A @ 169	90.15915	CL	< 10.		UG/G	8/23/90
5.9A @ 169	90.15915	NO3-N	1.19	0.1	UG/G	8/28/90
5.9A @ 174	90.15916	CL	< 10.		UG/G	8/23/90
5.9A @ 174	90.15916	NO3-N	0.93	0.09	UG/G	8/28/90
5.9A @ 179	90.15917	CL	< 10.		UG/G	8/23/90
5.9A @ 179	90.15917	NO3-N	1.33	0.1	UG/G	8/28/90
5.9A @ 184	90.16003	CL	< 10.		UG/G	8/23/90
5.9A @ 184	90.16003	NO3-N	0.938	0.09	UG/G	8/28/90
5.9A @ 189	90.16004	CL	< 10.		UG/G	8/23/90
5.9A @ 189	90.16004	NO3-N	0.575	0.06	UG/G	8/28/90
5.9A @ 194	90.16005	CL	3.69	0.4	MG/L	8/23/90
5.9A @ 194	90.16005	NO3-N	0.396	0.04	UG/G	8/28/90

Same as previous
to ppm
front sheet

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REPORT NUMBER: 8314 (continued)

********** HSE-9 QUALITY ASSURANCE REPORT *********

Prepared by: E.M.HODGE on 2-Oct-1990

REQUEST NUMBER: 10602 MATRIX: S ANALYST: Evangeline Hodge PROGRAM CODE: M211

OWNER: Max Maes GROUP: HSE-8 MAIL-STOP: K490 PHONE: 7-0817 TASK-ID: TASK 1

CUSTOMER NUM	SAMPLE NUM	ANALYSIS	RESULT	UNCERTAINTY	UNITS	CERTIFIED VALUE	CERTIFIED VALUE UNCERTAINTY	COMPLETION DATE
00.01013	00.01013	CL	55.9	5.6	MG/L	52.1	1.8	9/10/90 UNDER CONTROL
00.01013	00.01013	CL	55.22	5.5	MG/L	52.1	1.8	8/23/90 UNDER CONTROL
00.01040	00.01040	NO3-N	187.	19.	UG/L	180.	20.	9/19/90 UNDER CONTROL
00.01040	00.01040	NO3-N	158.	16.	UG/L	180.	20.	9/10/90 UNDER CONTROL
00.01040	00.01040	NO3-N	164.	16.	UG/L	180.	20.	8/28/90 UNDER CONTROL

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

SAMPLE NUM	ANALYSIS	RESULT	UNCERTAINTY	UNITS	CERTIFIED VALUE	CERTIFIED VALUE UNCERTAINTY	COMPLETION DATE	COMMENT
90.15991	CL	29.3	2.9	MG/L	25.	2.	9/26/90	UNDER CONTROL
90.15992	CL	39.6	4.	MG/L	32.	3.	9/26/90	UNDER CONTROL
90.15993	CL	48.9	5.	MG/L	38.	4.	9/26/90	UNDER CONTROL
90.15994	CL	49.5	5.	MG/L	38.	4.	9/26/90	UNDER CONTROL
90.15999	NO3-N	1.66	0.2	MG/L	1.6	0.1	9/19/90	UNDER CONTROL
90.16000	NO3-N	166.	40.	UG/L	140.	20.	9/19/90	UNDER CONTROL
90.16001	NO3-N	1.66	0.2	MG/L	1.6	0.1	9/19/90	UNDER CONTROL
90.16002	NO3-N	156.	40.	UG/L	140.	20.	9/19/90	UNDER CONTROL

Analyst	Section Leader	QA Officer
10/3/90	10-3-90	10-3-90
Date	Date	Date

The control status of the preceeding data was evaluated using the standard statistical criteria set forth in 'Quality Assurance for Health and Environmental Chemistry: 1986,' LA-11114-MS, pp. 3-4.

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8.6.3 Hole 8.2

REPORT NUMBER: 10016

********** HSE-9 ANALYTICAL REPORT **********

Prepared by: ESG on 15-Apr-1991

ICP MASS SCAN

REQUEST NUMBER: 6899 MATRIX: SE ANALYST: Mary Carol Williams PROGRAM CODE: W57J

OWNER: Bill Purtymun GROUP: HSE-8 MAIL-STOP: K490 PHONE: 7-0810

CUSTOMER NUMBER	SAMPLE NUMBER	ANALYSIS	RESULT	UNCERTAINTY	UNITS	COMPLETION DATE	COMMENT
8.2.04	89.11446	AG	< 1.		UG/G	4/17/89	
8.2.04	89.11446	AS	< 1.		UG/G	4/17/89	
8.2.04	89.11446	AU	< 1.		UG/G	4/17/89	
8.2.04	89.11446	B	< 100.		UG/G	4/17/89	
8.2.04	89.11446	BA	1.3	3.	UG/G	4/17/89	
8.2.04	89.11446	BE	< 10.		UG/G	4/17/89	
8.2.04	89.11446	BI	< 1.		UG/G	4/17/89	
8.2.04	89.11446	BR	< 1.		UG/G	4/17/89	
8.2.04	89.11446	CD	< 1.		UG/G	4/17/89	
8.2.04	89.11446	CE	< 1.		UG/G	4/17/89	
8.2.04	89.11446	CO	< 1.		UG/G	4/17/89	
8.2.04	89.11446	CR	< 1.		UG/G	4/17/89	
8.2.04	89.11446	CS	< 1.		UG/G	4/17/89	
8.2.04	89.11446	CU	< 1.		UG/G	4/17/89	
8.2.04	89.11446	DY	< 1.		UG/G	4/17/89	
8.2.04	89.11446	ER	< 1.		UG/G	4/17/89	
8.2.04	89.11446	EU	< 1.		UG/G	4/17/89	
8.2.04	89.11446	FE	24.	72.	UG/G	4/17/89	
8.2.04	89.11446	GA	< 1.		UG/G	4/17/89	
8.2.04	89.11446	GD	< 1.		UG/G	4/17/89	
8.2.04	89.11446	GE	< 1.		UG/G	4/17/89	
8.2.04	89.11446	HF	< 1.		UG/G	4/17/89	
8.2.04	89.11446	HG	< 10.		UG/G	4/17/89	
8.2.04	89.11446	HO	< 1.		UG/G	4/17/89	
8.2.04	89.11446	I	< 1.		UG/G	4/17/89	
8.2.04	89.11446	IR	< 1.		UG/G	4/17/89	
8.2.04	89.11446	LA	< 1.		UG/G	4/17/89	
8.2.04	89.11446	LI	< 10.		UG/G	4/17/89	
8.2.04	89.11446	LU	< 1.		UG/G	4/17/89	
8.2.04	89.11446	MN	< 1.		UG/G	4/17/89	
8.2.04	89.11446	MO	< 1.		UG/G	4/17/89	
8.2.04	89.11446	NB	< 1.		UG/G	4/17/89	
8.2.04	89.11446	ND	< 1.		UG/G	4/17/89	
8.2.04	89.11446	NI	< 1.		UG/G	4/17/89	
8.2.04	89.11446	PB	< 1.		UG/G	4/17/89	
8.2.04	89.11446	PD	< 1.		UG/G	4/17/89	
8.2.04	89.11446	PR	< 1.		UG/G	4/17/89	
8.2.04	89.11446	PT	< 1.		UG/G	4/17/89	
8.2.04	89.11446	RB	< 1.		UG/G	4/17/89	

8.2.04	89.11446	RE	< 1.		UG/G	4/17/89
8.2.04	89.11446	RH	< 1.		UG/G	4/17/89
8.2.04	89.11446	RU	< 1.		UG/G	4/17/89
8.2.04	89.11446	SB	< 1.		UG/G	4/17/89
8.2.04	89.11446	SE	< 1.		UG/G	4/17/89
8.2.04	89.11446	SM	< 1.		UG/G	4/17/89
8.2.04	89.11446	SN	< 1.		UG/G	4/17/89
8.2.04	89.11446	SR	3.	9.	UG/G	4/17/89
8.2.04	89.11446	TA	< 1.		UG/G	4/17/89
8.2.04	89.11446	TB	< 1.		UG/G	4/17/89
8.2.04	89.11446	TH	< 1.		UG/G	4/17/89
8.2.04	89.11446	TI	3.4	10.	UG/G	4/17/89
8.2.04	89.11446	TL	< 1.		UG/G	4/17/89
8.2.04	89.11446	TM	< 1.		UG/G	4/17/89
8.2.04	89.11446	U	< 1.		UG/G	4/17/89
8.2.04	89.11446	V	1.8	5.	UG/G	4/17/89
8.2.04	89.11446	W	1.8	5.	UG/G	4/17/89
8.2.04	89.11446	Y	< 1.		UG/G	4/17/89
8.2.04	89.11446	YB	< 1.		UG/G	4/17/89
8.2.04	89.11446	ZN	2.9	8.	UG/G	4/17/89
8.2.04	89.11446	ZR	< 1.		UG/G	4/17/89

REPORT NUMBER: 10016

********** HSE-9 ANALYTICAL REPORT **********

Prepared by: ESG on 15-Apr-1991

ICP MASS SCAN

REQUEST NUMBER: 6899 MATRIX: SE ANALYST: Mary Carol Williams PROGRAM CODE: W57J

OWNER: Bill Purtymun GROUP: HSE-8 MAIL-STOP: K490 PHONE: 7-0810

CUSTOMER NUMBER	SAMPLE NUMBER	ANALYSIS	RESULT	UNCERTAINTY	UNITS	COMPLETION DATE	COMMENT
8.2.14	89.11447	AG	< 1.		UG/G	4/28/89	
8.2.14	89.11447	AS	16.	48.	UG/G	4/28/89	
8.2.14	89.11447	AU	3.	9.	UG/G	4/28/89	
8.2.14	89.11447	B	< 100.		UG/G	4/28/89	
8.2.14	89.11447	BA	16.	48.	UG/G	4/28/89	
8.2.14	89.11447	BE	65.	200.	UG/G	4/28/89	
8.2.14	89.11447	BI	4.2	12.	UG/G	4/28/89	
8.2.14	89.11447	BR	< 1.		UG/G	4/28/89	
8.2.14	89.11447	CD	< 1.		UG/G	4/28/89	
8.2.14	89.11447	CE	4.6	13.	UG/G	4/28/89	
8.2.14	89.11447	CO	3.4	10.	UG/G	4/28/89	
8.2.14	89.11447	CR	4.9	14.	UG/G	4/28/89	
8.2.14	89.11447	CS	2.6	7.	UG/G	4/28/89	
8.2.14	89.11447	CU	13.	39.	UG/G	4/28/89	
8.2.14	89.11447	DY	1.	3.	UG/G	4/28/89	
8.2.14	89.11447	ER	< 1.		UG/G	4/28/89	
8.2.14	89.11447	EU	< 1.		UG/G	4/28/89	
8.2.14	89.11447	FE	2.	6.	MG/G	4/28/89	
8.2.14	89.11447	GA	4.	12.	UG/G	4/28/89	
8.2.14	89.11447	GD	1.5	4.	UG/G	4/28/89	
8.2.14	89.11447	GE	2.5	7.	UG/G	4/28/89	
8.2.14	89.11447	HF	3.1	9.	UG/G	4/28/89	
8.2.14	89.11447	HG	< 10.		UG/G	4/28/89	
8.2.14	89.11447	HO	< 1.		UG/G	4/28/89	
8.2.14	89.11447	I	4.5	13.	UG/G	4/28/89	
8.2.14	89.11447	IR	< 1.		UG/G	4/28/89	
8.2.14	89.11447	LA	1.	3.	UG/G	4/28/89	
8.2.14	89.11447	LI	18.	54.	UG/G	4/28/89	
8.2.14	89.11447	LU	< 1.		UG/G	4/28/89	
8.2.14	89.11447	MN	28.	84.	UG/G	4/28/89	
8.2.14	89.11447	MO	18.	54.	UG/G	4/28/89	
8.2.14	89.11447	NB	1.6	4.	UG/G	4/28/89	
8.2.14	89.11447	ND	1.4	4.	UG/G	4/28/89	
8.2.14	89.11447	NI	52.	160.	UG/G	4/28/89	
8.2.14	89.11447	PB	2.1	6.	UG/G	4/28/89	
8.2.14	89.11447	PD	2.9	8.	UG/G	4/28/89	
8.2.14	89.11447	PR	< 1.		UG/G	4/28/89	
8.2.14	89.11447	PT	< 1.		UG/G	4/28/89	
8.2.14	89.11447	RB	7.8	23.	UG/G	4/28/89	

8.2.14	89.11447	RE	1.	3.	UG/G	4/28/89
8.2.14	89.11447	RH	< 1.		UG/G	4/28/89
8.2.14	89.11447	RU	2.	6.	UG/G	4/28/89
8.2.14	89.11447	SB	2.1	6.	UG/G	4/28/89
8.2.14	89.11447	SE	22.	66.	UG/G	4/28/89
8.2.14	89.11447	SM	< 1.		UG/G	4/28/89
8.2.14	89.11447	SN	8.5	25.	UG/G	4/28/89
8.2.14	89.11447	SR	33.	99.	UG/G	4/28/89
8.2.14	89.11447	TA	< 1.		UG/G	4/28/89
8.2.14	89.11447	TB	< 1.		UG/G	4/28/89
8.2.14	89.11447	TH	1.6	4.	UG/G	4/28/89
8.2.14	89.11447	TI	91.	270.	UG/G	4/28/89
8.2.14	89.11447	TL	< 1.		UG/G	4/28/89
8.2.14	89.11447	TM	< 1.		UG/G	4/28/89
8.2.14	89.11447	U	< 1.		UG/G	4/28/89
8.2.14	89.11447	V	51.	150.	UG/G	4/28/89
8.2.14	89.11447	W	14.	42.	UG/G	4/28/89
8.2.14	89.11447	Y	5.1	15.	UG/G	4/28/89
8.2.14	89.11447	YB	< 1.		UG/G	4/28/89
8.2.14	89.11447	ZN	120.	360.	UG/G	4/28/89
8.2.14	89.11447	ZR	7.3	21.	UG/G	4/28/89

REPORT NUMBER: 10016

********** HSE-9 ANALYTICAL REPORT **********

Prepared by: ESG on 15-Apr-1991

ICP MASS SCAN

REQUEST NUMBER: 6899 MATRIX: SE ANALYST: Mary Carol Williams PROGRAM CODE: W57J

OWNER: Bill Purtymun GROUP: HSE-8 MAIL-STOP: K490 PHONE: 7-0810

CUSTOMER NUMBER	SAMPLE NUMBER	ANALYSIS	RESULT	UNCERTAINTY	UNITS	COMPLETION DATE	COMMENT
8.2.24	89.11448	AG	< 1.		UG/G	4/17/89	
8.2.24	89.11448	AS	< 1.		UG/G	4/17/89	
8.2.24	89.11448	AU	< 1.		UG/G	4/17/89	
8.2.24	89.11448	B	< 100.		UG/G	4/17/89	
8.2.24	89.11448	BA	1.5	4.	UG/G	4/17/89	
8.2.24	89.11448	BE	< 10.		UG/G	4/17/89	
8.2.24	89.11448	BI	< 1.		UG/G	4/17/89	
8.2.24	89.11448	BR	< 1.		UG/G	4/17/89	
8.2.24	89.11448	CD	< 1.		UG/G	4/17/89	
8.2.24	89.11448	CE	< 1.		UG/G	4/17/89	
8.2.24	89.11448	CO	< 1.		UG/G	4/17/89	
8.2.24	89.11448	CR	< 1.		UG/G	4/17/89	
8.2.24	89.11448	CS	< 1.		UG/G	4/17/89	
8.2.24	89.11448	CU	< 1.		UG/G	4/17/89	
8.2.24	89.11448	DY	< 1.		UG/G	4/17/89	
8.2.24	89.11448	ER	< 1.		UG/G	4/17/89	
8.2.24	89.11448	EU	< 1.		UG/G	4/17/89	
8.2.24	89.11448	FE	34.	100.	UG/G	4/17/89	
8.2.24	89.11448	GA	< 1.		UG/G	4/17/89	
8.2.24	89.11448	GD	< 1.		UG/G	4/17/89	
8.2.24	89.11448	GE	< 1.		UG/G	4/17/89	
8.2.24	89.11448	HF	< 1.		UG/G	4/17/89	
8.2.24	89.11448	HG	< 10.		UG/G	4/17/89	
8.2.24	89.11448	HO	< 1.		UG/G	4/17/89	
8.2.24	89.11448	I	< 1.		UG/G	4/17/89	
8.2.24	89.11448	IR	< 1.		UG/G	4/17/89	
8.2.24	89.11448	LA	< 1.		UG/G	4/17/89	
8.2.24	89.11448	LI	< 10.		UG/G	4/17/89	
8.2.24	89.11448	LU	< 1.		UG/G	4/17/89	
8.2.24	89.11448	MN	< 1.		UG/G	4/17/89	
8.2.24	89.11448	MO	< 1.		UG/G	4/17/89	
8.2.24	89.11448	NB	< 1.		UG/G	4/17/89	
8.2.24	89.11448	ND	< 1.		UG/G	4/17/89	
8.2.24	89.11448	NI	< 1.		UG/G	4/17/89	
8.2.24	89.11448	PB	< 1.		UG/G	4/17/89	
8.2.24	89.11448	PD	< 1.		UG/G	4/17/89	
8.2.24	89.11448	PR	< 1.		UG/G	4/17/89	
8.2.24	89.11448	PT	< 1.		UG/G	4/17/89	
8.2.24	89.11448	RB	< 1.		UG/G	4/17/89	

8.2.24	89.11448	RE	< 1.		UG/G	4/17/89
8.2.24	89.11448	RH	< 1.		UG/G	4/17/89
8.2.24	89.11448	RU	< 1.		UG/G	4/17/89
8.2.24	89.11448	SB	< 1.		UG/G	4/17/89
8.2.24	89.11448	SE	< 1.		UG/G	4/17/89
8.2.24	89.11448	SM	< 1.		UG/G	4/17/89
8.2.24	89.11448	SN	< 1.		UG/G	4/17/89
8.2.24	89.11448	SR	1.4	4.	UG/G	4/17/89
8.2.24	89.11448	TA	< 1.		UG/G	4/17/89
8.2.24	89.11448	TB	< 1.		UG/G	4/17/89
8.2.24	89.11448	TH	< 1.		UG/G	4/17/89
8.2.24	89.11448	TI	4.1	12.	UG/G	4/17/89
8.2.24	89.11448	TL	< 1.		UG/G	4/17/89
8.2.24	89.11448	TM	< 1.		UG/G	4/17/89
8.2.24	89.11448	U	< 1.		UG/G	4/17/89
8.2.24	89.11448	V	1.6	4.	UG/G	4/17/89
8.2.24	89.11448	W	< 1.		UG/G	4/17/89
8.2.24	89.11448	Y	< 1.		UG/G	4/17/89
8.2.24	89.11448	YB	< 1.		UG/G	4/17/89
8.2.24	89.11448	ZN	2.9	8.	UG/G	4/17/89
8.2.24	89.11448	ZR	< 1.		UG/G	4/17/89

REPORT NUMBER: 10016

********** HSE-9 ANALYTICAL REPORT **********

Prepared by: ESG on 15-Apr-1991

ICP MASS SCAN

REQUEST NUMBER: 6899 MATRIX: SE ANALYST: Mary Carol Williams PROGRAM CODE: W57J

OWNER: Bill Purtymun GROUP: HSE-8 MAIL-STOP: K490 PHONE: 7-0810

CUSTOMER NUMBER	SAMPLE NUMBER	ANALYSIS	RESULT	UNCERTAINTY	UNITS	COMPLETION DATE	COMMENT
8.2.34	89.11449	AG	< 1.		UG/G	4/28/89	
8.2.34	89.11449	AS	15.	45.	UG/G	4/28/89	
8.2.34	89.11449	AU	1.3	3.	UG/G	4/28/89	
8.2.34	89.11449	B	< 100.		UG/G	4/28/89	
8.2.34	89.11449	BA	23.	69.	UG/G	4/28/89	
8.2.34	89.11449	BE	59.	180.	UG/G	4/28/89	
8.2.34	89.11449	BI	1.1	3.	UG/G	4/28/89	
8.2.34	89.11449	BR	< 1.		UG/G	4/28/89	
8.2.34	89.11449	CD	< 1.		UG/G	4/28/89	
8.2.34	89.11449	CE	3.2	9.	UG/G	4/28/89	
8.2.34	89.11449	CO	1.1	3.	UG/G	4/28/89	
8.2.34	89.11449	CR	3.9	11.	UG/G	4/28/89	
8.2.34	89.11449	CS	1.2	3.	UG/G	4/28/89	
8.2.34	89.11449	CU	1.5	4.	UG/G	4/28/89	
8.2.34	89.11449	DY	< 1.		UG/G	4/28/89	
8.2.34	89.11449	ER	< 1.		UG/G	4/28/89	
8.2.34	89.11449	EU	< 1.		UG/G	4/28/89	
8.2.34	89.11449	FE	1.2	3.	MG/G	4/28/89	
8.2.34	89.11449	GA	3.8	11.	UG/G	4/28/89	
8.2.34	89.11449	GD	< 1.		UG/G	4/28/89	
8.2.34	89.11449	GE	1.1	3.	UG/G	4/28/89	
8.2.34	89.11449	HF	2.6	7.	UG/G	4/28/89	
8.2.34	89.11449	HG	< 10.		UG/G	4/28/89	
8.2.34	89.11449	HO	< 1.		UG/G	4/28/89	
8.2.34	89.11449	I	27.	81.	UG/G	4/28/89	
8.2.34	89.11449	IR	< 1.		UG/G	4/28/89	
8.2.34	89.11449	LA	< 1.		UG/G	4/28/89	
8.2.34	89.11449	LI	10.	30.	UG/G	4/28/89	
8.2.34	89.11449	LU	< 1.		UG/G	4/28/89	
8.2.34	89.11449	MN	19.	57.	UG/G	4/28/89	
8.2.34	89.11449	MO	15.	45.	UG/G	4/28/89	
8.2.34	89.11449	NB	< 1.		UG/G	4/28/89	
8.2.34	89.11449	ND	< 1.		UG/G	4/28/89	
8.2.34	89.11449	NI	18.	54.	UG/G	4/28/89	
8.2.34	89.11449	PB	1.7	5.	UG/G	4/28/89	
8.2.34	89.11449	PD	1.2	3.	UG/G	4/28/89	
8.2.34	89.11449	PR	< 1.		UG/G	4/28/89	
8.2.34	89.11449	PT	< 1.		UG/G	4/28/89	
8.2.34	89.11449	RB	4.8	14.	UG/G	4/28/89	

8.2.34	89.11449	RE	< 1.		UG/G	4/28/89
8.2.34	89.11449	RH	< 1.		UG/G	4/28/89
8.2.34	89.11449	RU	1.4	4.	UG/G	4/28/89
8.2.34	89.11449	SB	< 1.		UG/G	4/28/89
8.2.34	89.11449	SE	43.	130.	UG/G	4/28/89
8.2.34	89.11449	SM	< 1.		UG/G	4/28/89
8.2.34	89.11449	SN	1.9	5.	UG/G	4/28/89
8.2.34	89.11449	SR	100.	300.	UG/G	4/28/89
8.2.34	89.11449	TA	< 1.		UG/G	4/28/89
8.2.34	89.11449	TB	< 1.		UG/G	4/28/89
8.2.34	89.11449	TH	1.	3.	UG/G	4/28/89
8.2.34	89.11449	TI	110.	330.	UG/G	4/28/89
8.2.34	89.11449	TL	< 1.		UG/G	4/28/89
8.2.34	89.11449	TM	< 1.		UG/G	4/28/89
8.2.34	89.11449	U	< 1.		UG/G	4/28/89
8.2.34	89.11449	V	66.	200.	UG/G	4/28/89
8.2.34	89.11449	W	5.5	16.	UG/G	4/28/89
8.2.34	89.11449	Y	3.8	11.	UG/G	4/28/89
8.2.34	89.11449	YB	< 1.		UG/G	4/28/89
8.2.34	89.11449	ZN	39.	120.	UG/G	4/28/89
8.2.34	89.11449	ZR	4.6	13.	UG/G	4/28/89

REPORT NUMBER: 10016

********** HSE-9 ANALYTICAL REPORT **********

Prepared by: ESG on 15-Apr-1991

ICP MASS SCAN

REQUEST NUMBER: 6899 MATRIX: SE ANALYST: Mary Carol Williams PROGRAM CODE: W57J

OWNER: Bill Purtymun GROUP: HSE-8 MAIL-STOP: K490 PHONE: 7-0810

CUSTOMER NUMBER	SAMPLE NUMBER	ANALYSIS	RESULT	UNCERTAINTY	UNITS	COMPLETION DATE	COMMENT
8.2.44	89.11450	AG	< 1.		UG/G	4/17/89	
8.2.44	89.11450	AS	< 1.		UG/G	4/17/89	
8.2.44	89.11450	AU	< 1.		UG/G	4/17/89	
8.2.44	89.11450	B	< 100.		UG/G	4/17/89	
8.2.44	89.11450	BA	< 1.		UG/G	4/17/89	
8.2.44	89.11450	BE	< 10.		UG/G	4/17/89	
8.2.44	89.11450	BI	< 1.		UG/G	4/17/89	
8.2.44	89.11450	BR	< 1.		UG/G	4/17/89	
8.2.44	89.11450	CD	< 1.		UG/G	4/17/89	
8.2.44	89.11450	CE	< 1.		UG/G	4/17/89	
8.2.44	89.11450	CO	< 1.		UG/G	4/17/89	
8.2.44	89.11450	CR	< 1.		UG/G	4/17/89	
8.2.44	89.11450	CS	< 1.		UG/G	4/17/89	
8.2.44	89.11450	CU	< 1.		UG/G	4/17/89	
8.2.44	89.11450	DY	< 1.		UG/G	4/17/89	
8.2.44	89.11450	ER	< 1.		UG/G	4/17/89	
8.2.44	89.11450	EU	< 1.		UG/G	4/17/89	
8.2.44	89.11450	FE	2.8	8.	UG/G	4/17/89	
8.2.44	89.11450	GA	< 1.		UG/G	4/17/89	
8.2.44	89.11450	GD	< 1.		UG/G	4/17/89	
8.2.44	89.11450	GE	< 1.		UG/G	4/17/89	
8.2.44	89.11450	HF	< 1.		UG/G	4/17/89	
8.2.44	89.11450	HG	< 10.		UG/G	4/17/89	
8.2.44	89.11450	HO	< 1.		UG/G	4/17/89	
8.2.44	89.11450	I	< 1.		UG/G	4/17/89	
8.2.44	89.11450	IR	< 1.		UG/G	4/17/89	
8.2.44	89.11450	LA	< 1.		UG/G	4/17/89	
8.2.44	89.11450	LI	< 10.		UG/G	4/17/89	
8.2.44	89.11450	LU	< 1.		UG/G	4/17/89	
8.2.44	89.11450	MN	< 1.		UG/G	4/17/89	
8.2.44	89.11450	MO	< 1.		UG/G	4/17/89	
8.2.44	89.11450	NB	< 1.		UG/G	4/17/89	
8.2.44	89.11450	ND	< 1.		UG/G	4/17/89	
8.2.44	89.11450	NI	< 1.		UG/G	4/17/89	
8.2.44	89.11450	PB	< 1.		UG/G	4/17/89	
8.2.44	89.11450	PD	< 1.		UG/G	4/17/89	
8.2.44	89.11450	PR	< 1.		UG/G	4/17/89	
8.2.44	89.11450	PT	< 1.		UG/G	4/17/89	
8.2.44	89.11450	RB	< 1.		UG/G	4/17/89	

8.2.44	89.11450	RE	< 1.		UG/G	4/17/89
8.2.44	89.11450	RH	< 1.		UG/G	4/17/89
8.2.44	89.11450	RU	< 1.		UG/G	4/17/89
8.2.44	89.11450	SB	< 1.		UG/G	4/17/89
8.2.44	89.11450	SE	< 1.		UG/G	4/17/89
8.2.44	89.11450	SM	< 1.		UG/G	4/17/89
8.2.44	89.11450	SN	< 1.		UG/G	4/17/89
8.2.44	89.11450	SR	< 1.		UG/G	4/17/89
8.2.44	89.11450	TA	< 1.		UG/G	4/17/89
8.2.44	89.11450	TB	< 1.		UG/G	4/17/89
8.2.44	89.11450	TH	< 1.		UG/G	4/17/89
8.2.44	89.11450	TI	3.	9.	UG/G	4/17/89
8.2.44	89.11450	TL	< 1.		UG/G	4/17/89
8.2.44	89.11450	TM	< 1.		UG/G	4/17/89
8.2.44	89.11450	U	< 1.		UG/G	4/17/89
8.2.44	89.11450	V	1.6	4.	UG/G	4/17/89
8.2.44	89.11450	W	< 1.		UG/G	4/17/89
8.2.44	89.11450	Y	< 1.		UG/G	4/17/89
8.2.44	89.11450	YB	< 1.		UG/G	4/17/89
8.2.44	89.11450	ZN	2.5	7.	UG/G	4/17/89
8.2.44	89.11450	ZR	< 1.		UG/G	4/17/89

REPORT NUMBER: 10016

********** HSE-9 ANALYTICAL REPORT **********

Prepared by: ESG on 15-Apr-1991

ICP MASS SCAN

REQUEST NUMBER: 6899 MATRIX: SE ANALYST: Mary Carol Williams PROGRAM CODE: W57J

OWNER: Bill Purtymun GROUP: HSE-8 MAIL-STOP: K490 PHONE: 7-0810

CUSTOMER NUMBER	SAMPLE NUMBER	ANALYSIS	RESULT	UNCERTAINTY	UNITS	COMPLETION DATE	COMMENT
8.2.54	89.11451	AG	< 1.		UG/G	4/17/89	
8.2.54	89.11451	AS	< 1.		UG/G	4/17/89	
8.2.54	89.11451	AU	< 1.		UG/G	4/17/89	
8.2.54	89.11451	B	< 100.		UG/G	4/17/89	
8.2.54	89.11451	BA	2.5	7.	UG/G	4/17/89	
8.2.54	89.11451	BE	< 10.		UG/G	4/17/89	
8.2.54	89.11451	BI	< 1.		UG/G	4/17/89	
8.2.54	89.11451	BR	< 1.		UG/G	4/17/89	
8.2.54	89.11451	CD	< 1.		UG/G	4/17/89	
8.2.54	89.11451	CE	< 1.		UG/G	4/17/89	
8.2.54	89.11451	CO	< 1.		UG/G	4/17/89	
8.2.54	89.11451	CR	< 1.		UG/G	4/17/89	
8.2.54	89.11451	CS	< 1.		UG/G	4/17/89	
8.2.54	89.11451	CU	< 1.		UG/G	4/17/89	
8.2.54	89.11451	DY	< 1.		UG/G	4/17/89	
8.2.54	89.11451	ER	< 1.		UG/G	4/17/89	
8.2.54	89.11451	EU	< 1.		UG/G	4/17/89	
8.2.54	89.11451	FE	62.	190.	UG/G	4/17/89	
8.2.54	89.11451	GA	< 1.		UG/G	4/17/89	
8.2.54	89.11451	GD	< 1.		UG/G	4/17/89	
8.2.54	89.11451	GE	< 1.		UG/G	4/17/89	
8.2.54	89.11451	HF	< 1.		UG/G	4/17/89	
8.2.54	89.11451	HG	< 10.		UG/G	4/17/89	
8.2.54	89.11451	HO	< 1.		UG/G	4/17/89	
8.2.54	89.11451	I	< 1.		UG/G	4/17/89	
8.2.54	89.11451	IR	< 1.		UG/G	4/17/89	
8.2.54	89.11451	LA	< 1.		UG/G	4/17/89	
8.2.54	89.11451	LI	< 10.		UG/G	4/17/89	
8.2.54	89.11451	LU	< 1.		UG/G	4/17/89	
8.2.54	89.11451	MN	< 1.		UG/G	4/17/89	
8.2.54	89.11451	MO	< 1.		UG/G	4/17/89	
8.2.54	89.11451	NB	< 1.		UG/G	4/17/89	
8.2.54	89.11451	ND	< 1.		UG/G	4/17/89	
8.2.54	89.11451	NI	1.7	5.	UG/G	4/17/89	
8.2.54	89.11451	PB	< 1.		UG/G	4/17/89	
8.2.54	89.11451	PD	< 1.		UG/G	4/17/89	
8.2.54	89.11451	PR	< 1.		UG/G	4/17/89	
8.2.54	89.11451	PT	< 1.		UG/G	4/17/89	
8.2.54	89.11451	RB	< 1.		UG/G	4/17/89	

8.2.54	89.11451	RE	< 1.		UG/G	4/17/89
8.2.54	89.11451	RH	< 1.		UG/G	4/17/89
8.2.54	89.11451	RU	< 1.		UG/G	4/17/89
8.2.54	89.11451	SB	< 1.		UG/G	4/17/89
8.2.54	89.11451	SE	< 1.		UG/G	4/17/89
8.2.54	89.11451	SM	< 1.		UG/G	4/17/89
8.2.54	89.11451	SN	< 1.		UG/G	4/17/89
8.2.54	89.11451	SR	2.6	7.	UG/G	4/17/89
8.2.54	89.11451	TA	< 1.		UG/G	4/17/89
8.2.54	89.11451	TB	< 1.		UG/G	4/17/89
8.2.54	89.11451	TH	< 1.		UG/G	4/17/89
8.2.54	89.11451	TI	7.6	22.	UG/G	4/17/89
8.2.54	89.11451	TL	< 1.		UG/G	4/17/89
8.2.54	89.11451	TM	< 1.		UG/G	4/17/89
8.2.54	89.11451	U	< 1.		UG/G	4/17/89
8.2.54	89.11451	V	2.8	8.	UG/G	4/17/89
8.2.54	89.11451	W	< 1.		UG/G	4/17/89
8.2.54	89.11451	Y	< 1.		UG/G	4/17/89
8.2.54	89.11451	YB	< 1.		UG/G	4/17/89
8.2.54	89.11451	ZN	12.	36.	UG/G	4/17/89
8.2.54	89.11451	ZR	< 1.		UG/G	4/17/89

REPORT NUMBER: 10016

********** HSE-9 ANALYTICAL REPORT **********

Prepared by: ESG on 15-Apr-1991

ICP MASS SCAN

REQUEST NUMBER: 6899 MATRIX: SE ANALYST: Mary Carol Williams PROGRAM CODE: W57J

OWNER: Bill Purtymun GROUP: HSE-8 MAIL-STOP: K490 PHONE: 7-0810

CUSTOMER NUMBER	SAMPLE NUMBER	ANALYSIS	RESULT	UNCERTAINTY	UNITS	COMPLETION DATE	COMMENT
8.2.64	89.11452	AG	< 1.		UG/G	4/28/89	
8.2.64	89.11452	AS	17.	51.	UG/G	4/28/89	
8.2.64	89.11452	AU	< 1.		UG/G	4/28/89	
8.2.64	89.11452	B	< 100.		UG/G	4/28/89	
8.2.64	89.11452	BA	36.	110.	UG/G	4/28/89	
8.2.64	89.11452	BE	47.	140.	UG/G	4/28/89	
8.2.64	89.11452	BI	3.3	9.	UG/G	4/28/89	
8.2.64	89.11452	BR	< 1.		UG/G	4/28/89	
8.2.64	89.11452	CD	< 1.		UG/G	4/28/89	
8.2.64	89.11452	CE	13.	39.	UG/G	4/28/89	
8.2.64	89.11452	CO	1.7	5.	UG/G	4/28/89	
8.2.64	89.11452	CR	12.	36.	UG/G	4/28/89	
8.2.64	89.11452	CS	1.9	5.	UG/G	4/28/89	
8.2.64	89.11452	CU	13.	39.	UG/G	4/28/89	
8.2.64	89.11452	DY	1.7	5.	UG/G	4/28/89	
8.2.64	89.11452	ER	1.6	4.	UG/G	4/28/89	
8.2.64	89.11452	EU	< 1.		UG/G	4/28/89	
8.2.64	89.11452	FE	9.1	27.	MG/G	4/28/89	
8.2.64	89.11452	GA	9.	27.	UG/G	4/28/89	
8.2.64	89.11452	GD	3.1	9.	UG/G	4/28/89	
8.2.64	89.11452	GE	< 1.		UG/G	4/28/89	
8.2.64	89.11452	HF	2.4	7.	UG/G	4/28/89	
8.2.64	89.11452	HG	< 10.		UG/G	4/28/89	
8.2.64	89.11452	HO	< 1.		UG/G	4/28/89	
8.2.64	89.11452	I	8.6	25.	UG/G	4/28/89	
8.2.64	89.11452	IR	< 1.		UG/G	4/28/89	
8.2.64	89.11452	LA	5.	15.	UG/G	4/28/89	
8.2.64	89.11452	LI	31.	93.	UG/G	4/28/89	
8.2.64	89.11452	LU	< 1.		UG/G	4/28/89	
8.2.64	89.11452	MN	88.	260.	UG/G	4/28/89	
8.2.64	89.11452	MO	16.	48.	UG/G	4/28/89	
8.2.64	89.11452	NB	4.3	12.	UG/G	4/28/89	
8.2.64	89.11452	ND	8.2	24.	UG/G	4/28/89	
8.2.64	89.11452	NI	77.	230.	UG/G	4/28/89	
8.2.64	89.11452	PB	3.4	10.	UG/G	4/28/89	
8.2.64	89.11452	PD	< 1.		UG/G	4/28/89	
8.2.64	89.11452	PR	2.	6.	UG/G	4/28/89	
8.2.64	89.11452	PT	< 1.		UG/G	4/28/89	
8.2.64	89.11452	RB	21.	63.	UG/G	4/28/89	

8.2.64	89.11452	RE	< 1.		UG/G	4/28/89
8.2.64	89.11452	RH	< 1.		UG/G	4/28/89
8.2.64	89.11452	RU	< 1.		UG/G	4/28/89
8.2.64	89.11452	SB	< 1.		UG/G	4/28/89
8.2.64	89.11452	SE	< 1.		UG/G	4/28/89
8.2.64	89.11452	SM	< 1.		UG/G	4/28/89
8.2.64	89.11452	SN	4.2	12.	UG/G	4/28/89
8.2.64	89.11452	SR	10.	30.	UG/G	4/28/89
8.2.64	89.11452	TA	< 1.		UG/G	4/28/89
8.2.64	89.11452	TB	< 1.		UG/G	4/28/89
8.2.64	89.11452	TH	1.8	5.	UG/G	4/28/89
8.2.64	89.11452	TI	470.	1400.	UG/G	4/28/89
8.2.64	89.11452	TL	< 1.		UG/G	4/28/89
8.2.64	89.11452	TM	< 1.		UG/G	4/28/89
8.2.64	89.11452	U	< 1.		UG/G	4/28/89
8.2.64	89.11452	V	63.	190.	UG/G	4/28/89
8.2.64	89.11452	W	5.1	15.	UG/G	4/28/89
8.2.64	89.11452	Y	10.	30.	UG/G	4/28/89
8.2.64	89.11452	YB	< 1.		UG/G	4/28/89
8.2.64	89.11452	ZN	100.	300.	UG/G	4/28/89
8.2.64	89.11452	ZR	23.	69.	UG/G	4/28/89

REPORT NUMBER: 10016

********** HSE-9 ANALYTICAL REPORT **********

Prepared by: ESG on 15-Apr-1991

ICP MASS SCAN

REQUEST NUMBER: 6899 MATRIX: SE ANALYST: Mary Carol Williams PROGRAM CODE: W57J

OWNER: Bill Purtymun GROUP: HSE-8 MAIL-STOP: K490 PHONE: 7-0810

CUSTOMER NUMBER	SAMPLE NUMBER	ANALYSIS	RESULT	UNCERTAINTY	UNITS	COMPLETION DATE	COMMENT
8.2.74	89.11453	AG	< 1.		UG/G	4/28/89	
8.2.74	89.11453	AS	15.	45.	UG/G	4/28/89	
8.2.74	89.11453	AU	< 1.		UG/G	4/28/89	
8.2.74	89.11453	B	< 100.		UG/G	4/28/89	
8.2.74	89.11453	BA	35.	110.	UG/G	4/28/89	
8.2.74	89.11453	BE	51.	150.	UG/G	4/28/89	
8.2.74	89.11453	BI	1.3	3.	UG/G	4/28/89	
8.2.74	89.11453	BR	< 1.		UG/G	4/28/89	
8.2.74	89.11453	CD	< 1.		UG/G	4/28/89	
8.2.74	89.11453	CE	15.	45.	UG/G	4/28/89	
8.2.74	89.11453	CO	1.9	5.	UG/G	4/28/89	
8.2.74	89.11453	CR	13.	39.	UG/G	4/28/89	
8.2.74	89.11453	CS	1.3	3.	UG/G	4/28/89	
8.2.74	89.11453	CU	21.	63.	UG/G	4/28/89	
8.2.74	89.11453	DY	1.5	4.	UG/G	4/28/89	
8.2.74	89.11453	ER	< 1.		UG/G	4/28/89	
8.2.74	89.11453	EU	< 1.		UG/G	4/28/89	
8.2.74	89.11453	FE	9.3	27.	MG/G	4/28/89	
8.2.74	89.11453	GA	8.1	24.	UG/G	4/28/89	
8.2.74	89.11453	GD	3.2	9.	UG/G	4/28/89	
8.2.74	89.11453	GE	< 1.		UG/G	4/28/89	
8.2.74	89.11453	HF	1.	3.	UG/G	4/28/89	
8.2.74	89.11453	HG	< 10.		UG/G	4/28/89	
8.2.74	89.11453	HO	< 1.		UG/G	4/28/89	
8.2.74	89.11453	I	14.	42.	UG/G	4/28/89	
8.2.74	89.11453	IR	< 1.		UG/G	4/28/89	
8.2.74	89.11453	LA	5.	15.	UG/G	4/28/89	
8.2.74	89.11453	LI	25.	75.	UG/G	4/28/89	
8.2.74	89.11453	LU	< 1.		UG/G	4/28/89	
8.2.74	89.11453	MN	97.	290.	UG/G	4/28/89	
8.2.74	89.11453	MO	15.	45.	UG/G	4/28/89	
8.2.74	89.11453	NB	4.1	12.	UG/G	4/28/89	
8.2.74	89.11453	ND	8.1	24.	UG/G	4/28/89	
8.2.74	89.11453	NI	86.	260.	UG/G	4/28/89	
8.2.74	89.11453	PB	3.3	9.	UG/G	4/28/89	
8.2.74	89.11453	PD	1.4	4.	UG/G	4/28/89	
8.2.74	89.11453	PR	1.8	5.	UG/G	4/28/89	
8.2.74	89.11453	PT	< 1.		UG/G	4/28/89	
8.2.74	89.11453	RB	17.	51.	UG/G	4/28/89	

8.2.74	89.11453	RE	< 1.		UG/G	4/28/89
8.2.74	89.11453	RH	< 1.		UG/G	4/28/89
8.2.74	89.11453	RU	< 1.		UG/G	4/28/89
8.2.74	89.11453	SB	< 1.		UG/G	4/28/89
8.2.74	89.11453	SE	4.	12.	UG/G	4/28/89
8.2.74	89.11453	SM	< 1.		UG/G	4/28/89
8.2.74	89.11453	SN	3.5	10.	UG/G	4/28/89
8.2.74	89.11453	SR	13.	39.	UG/G	4/28/89
8.2.74	89.11453	TA	< 1.		UG/G	4/28/89
8.2.74	89.11453	TB	< 1.		UG/G	4/28/89
8.2.74	89.11453	TH	1.6	4.	UG/G	4/28/89
8.2.74	89.11453	TI	470.	1400.	UG/G	4/28/89
8.2.74	89.11453	TL	< 1.		UG/G	4/28/89
8.2.74	89.11453	TM	< 1.		UG/G	4/28/89
8.2.74	89.11453	U	< 1.		UG/G	4/28/89
8.2.74	89.11453	V	46.	140.	UG/G	4/28/89
8.2.74	89.11453	W	17.	51.	UG/G	4/28/89
8.2.74	89.11453	Y	7.2	21.	UG/G	4/28/89
8.2.74	89.11453	YB	< 1.		UG/G	4/28/89
8.2.74	89.11453	ZN	78.	230.	UG/G	4/28/89
8.2.74	89.11453	ZR	24.	72.	UG/G	4/28/89

REPORT NUMBER: 10016

********** HSE-9 ANALYTICAL REPORT **********

Prepared by: ESG on 15-Apr-1991

ICP MASS SCAN

REQUEST NUMBER: 6899 MATRIX: SE ANALYST: Mary Carol Williams PROGRAM CODE: W57J

OWNER: Bill Purtymun GROUP: HSE-8 MAIL-STOP: K490 PHONE: 7-0810

CUSTOMER NUMBER	SAMPLE NUMBER	ANALYSIS	RESULT	UNCERTAINTY	UNITS	COMPLETION DATE	COMMENT
8.2.84	89.11454	AG	< 1.		UG/G	4/28/89	
8.2.84	89.11454	AS	5.4	16.	UG/G	4/28/89	
8.2.84	89.11454	AU	< 1.		UG/G	4/28/89	
8.2.84	89.11454	B	< 100.		UG/G	4/28/89	
8.2.84	89.11454	BA	23.	69.	UG/G	4/28/89	
8.2.84	89.11454	BE	48.	140.	UG/G	4/28/89	
8.2.84	89.11454	BI	2.7	8.	UG/G	4/28/89	
8.2.84	89.11454	BR	< 1.		UG/G	4/28/89	
8.2.84	89.11454	CD	< 1.		UG/G	4/28/89	
8.2.84	89.11454	CE	9.8	29.	UG/G	4/28/89	
8.2.84	89.11454	CO	2.5	7.	UG/G	4/28/89	
8.2.84	89.11454	CR	11.	33.	UG/G	4/28/89	
8.2.84	89.11454	CS	< 1.		UG/G	4/28/89	
8.2.84	89.11454	CU	14.	42.	UG/G	4/28/89	
8.2.84	89.11454	DY	< 1.		UG/G	4/28/89	
8.2.84	89.11454	ER	< 1.		UG/G	4/28/89	
8.2.84	89.11454	EU	< 1.		UG/G	4/28/89	
8.2.84	89.11454	FE	6.	18.	MG/G	4/28/89	
8.2.84	89.11454	GA	7.1	21.	UG/G	4/28/89	
8.2.84	89.11454	GD	2.7	8.	UG/G	4/28/89	
8.2.84	89.11454	GE	< 1.		UG/G	4/28/89	
8.2.84	89.11454	HF	3.2	9.	UG/G	4/28/89	
8.2.84	89.11454	HG	< 10.		UG/G	4/28/89	
8.2.84	89.11454	HO	< 1.		UG/G	4/28/89	
8.2.84	89.11454	I	13.	39.	UG/G	4/28/89	
8.2.84	89.11454	IR	< 1.		UG/G	4/28/89	
8.2.84	89.11454	LA	2.5	7.	UG/G	4/28/89	
8.2.84	89.11454	LI	29.	87.	UG/G	4/28/89	
8.2.84	89.11454	LU	< 1.		UG/G	4/28/89	
8.2.84	89.11454	MN	56.	170.	UG/G	4/28/89	
8.2.84	89.11454	MO	34.	100.	UG/G	4/28/89	
8.2.84	89.11454	NB	6.3	18.	UG/G	4/28/89	
8.2.84	89.11454	ND	5.6	16.	UG/G	4/28/89	
8.2.84	89.11454	NI	51.	150.	UG/G	4/28/89	
8.2.84	89.11454	PB	1.9	5.	UG/G	4/28/89	
8.2.84	89.11454	PD	2.5	7.	UG/G	4/28/89	
8.2.84	89.11454	PR	1.5	4.	UG/G	4/28/89	
8.2.84	89.11454	PT	< 1.		UG/G	4/28/89	
8.2.84	89.11454	RB	14.	42.	UG/G	4/28/89	

8.2.84	89.11454	RE	< 1.		UG/G	4/28/89
8.2.84	89.11454	RH	< 1.		UG/G	4/28/89
8.2.84	89.11454	RU	< 1.		UG/G	4/28/89
8.2.84	89.11454	SB	< 1.		UG/G	4/28/89
8.2.84	89.11454	SE	30.	90.	UG/G	4/28/89
8.2.84	89.11454	SM	< 1.		UG/G	4/28/89
8.2.84	89.11454	SN	5.2	15.	UG/G	4/28/89
8.2.84	89.11454	SR	6.4	19.	UG/G	4/28/89
8.2.84	89.11454	TA	< 1.		UG/G	4/28/89
8.2.84	89.11454	TB	< 1.		UG/G	4/28/89
8.2.84	89.11454	TH	1.8	5.	UG/G	4/28/89
8.2.84	89.11454	TI	380.	1100.	UG/G	4/28/89
8.2.84	89.11454	TL	< 1.		UG/G	4/28/89
8.2.84	89.11454	TM	< 1.		UG/G	4/28/89
8.2.84	89.11454	U	< 1.		UG/G	4/28/89
8.2.84	89.11454	V	32.	96.	UG/G	4/28/89
8.2.84	89.11454	W	31.	93.	UG/G	4/28/89
8.2.84	89.11454	Y	6.	18.	UG/G	4/28/89
8.2.84	89.11454	YB	< 1.		UG/G	4/28/89
8.2.84	89.11454	ZN	85.	260.	UG/G	4/28/89
8.2.84	89.11454	ZR	25.	75.	UG/G	4/28/89

REPORT NUMBER: 10016

********** HSE-9 ANALYTICAL REPORT **********

Prepared by: ESG on 15-Apr-1991

ICP MASS SCAN

REQUEST NUMBER: 6899 MATRIX: SE ANALYST: Mary Carol Williams PROGRAM CODE: W57J

OWNER: Bill Purtymun GROUP: HSE-8 MAIL-STOP: K490 PHONE: 7-0810

CUSTOMER NUMBER	SAMPLE NUMBER	ANALYSIS	RESULT	UNCERTAINTY	UNITS	COMPLETION DATE	COMMENT
8.2.94	89.11455	AG	< 1.		UG/G	4/28/89	
8.2.94	89.11455	AS	< 1.		UG/G	4/28/89	
8.2.94	89.11455	AU	< 1.		UG/G	4/28/89	
8.2.94	89.11455	B	160.	480.	UG/G	4/28/89	
8.2.94	89.11455	BA	6.6	19.	UG/G	4/28/89	
8.2.94	89.11455	BE	67.	200.	UG/G	4/28/89	
8.2.94	89.11455	BI	< 1.		UG/G	4/28/89	
8.2.94	89.11455	BR	< 1.		UG/G	4/28/89	
8.2.94	89.11455	CD	< 1.		UG/G	4/28/89	
8.2.94	89.11455	CE	1.4	4.	UG/G	4/28/89	
8.2.94	89.11455	CO	< 1.		UG/G	4/28/89	
8.2.94	89.11455	CR	6.8	20.	UG/G	4/28/89	
8.2.94	89.11455	CS	< 1.		UG/G	4/28/89	
8.2.94	89.11455	CU	6.4	19.	UG/G	4/28/89	
8.2.94	89.11455	DY	< 1.		UG/G	4/28/89	
8.2.94	89.11455	ER	< 1.		UG/G	4/28/89	
8.2.94	89.11455	EU	< 1.		UG/G	4/28/89	
8.2.94	89.11455	FE	1.2	3.	MG/G	4/28/89	
8.2.94	89.11455	GA	3.6	10.	UG/G	4/28/89	
8.2.94	89.11455	GD	< 1.		UG/G	4/28/89	
8.2.94	89.11455	GE	1.2	3.	UG/G	4/28/89	
8.2.94	89.11455	HF	< 1.		UG/G	4/28/89	
8.2.94	89.11455	HG	< 10.		UG/G	4/28/89	
8.2.94	89.11455	HO	< 1.		UG/G	4/28/89	
8.2.94	89.11455	I	10.	30.	UG/G	4/28/89	
8.2.94	89.11455	IR	< 1.		UG/G	4/28/89	
8.2.94	89.11455	LA	< 1.		UG/G	4/28/89	
8.2.94	89.11455	LI	13.	39.	UG/G	4/28/89	
8.2.94	89.11455	LU	< 1.		UG/G	4/28/89	
8.2.94	89.11455	MN	23.	69.	UG/G	4/28/89	
8.2.94	89.11455	MO	3.5	10.	UG/G	4/28/89	
8.2.94	89.11455	NB	1.4	4.	UG/G	4/28/89	
8.2.94	89.11455	ND	2.1	6.	UG/G	4/28/89	
8.2.94	89.11455	NI	24.	72.	UG/G	4/28/89	
8.2.94	89.11455	PB	< 1.		UG/G	4/28/89	
8.2.94	89.11455	PD	< 1.		UG/G	4/28/89	
8.2.94	89.11455	PR	< 1.		UG/G	4/28/89	
8.2.94	89.11455	PT	< 1.		UG/G	4/28/89	
8.2.94	89.11455	RB	6.5	19.	UG/G	4/28/89	

8.2.94	89.11455	RE	< 1.		UG/G	4/28/89
8.2.94	89.11455	RH	< 1.		UG/G	4/28/89
8.2.94	89.11455	RU	< 1.		UG/G	4/28/89
8.2.94	89.11455	SB	< 1.		UG/G	4/28/89
8.2.94	89.11455	SE	85.	260.	UG/G	4/28/89
8.2.94	89.11455	SM	< 1.		UG/G	4/28/89
8.2.94	89.11455	SN	1.3	3.	UG/G	4/28/89
8.2.94	89.11455	SR	1.6	4.	UG/G	4/28/89
8.2.94	89.11455	TA	< 1.		UG/G	4/28/89
8.2.94	89.11455	TB	< 1.		UG/G	4/28/89
8.2.94	89.11455	TH	< 1.		UG/G	4/28/89
8.2.94	89.11455	TI	< 1.		UG/G	4/28/89
8.2.94	89.11455	TL	< 1.		UG/G	4/28/89
8.2.94	89.11455	TM	< 1.		UG/G	4/28/89
8.2.94	89.11455	U	< 1.		UG/G	4/28/89
8.2.94	89.11455	V	11.	33.	UG/G	4/28/89
8.2.94	89.11455	W	3.1	9.	UG/G	4/28/89
8.2.94	89.11455	Y	1.8	5.	UG/G	4/28/89
8.2.94	89.11455	YB	< 1.		UG/G	4/28/89
8.2.94	89.11455	ZN	42.	130.	UG/G	4/28/89
8.2.94	89.11455	ZR	3.7	11.	UG/G	4/28/89

REPORT NUMBER: 10016

********** HSE-9 ANALYTICAL REPORT **********

Prepared by: ESG on 15-Apr-1991

ICP MASS SCAN

REQUEST NUMBER: 6899 MATRIX: SE ANALYST: Mary Carol Williams PROGRAM CODE: W57J

OWNER: Bill Purtymun GROUP: HSE-8 MAIL-STOP: K490 PHONE: 7-0810

CUSTOMER NUMBER	SAMPLE NUMBER	ANALYSIS	RESULT	UNCERTAINTY	UNITS	COMPLETION DATE	COMMENT
8.2.104	89.11470	AG	< 1.		UG/G	5/08/89	
8.2.104	89.11470	AS	6.4	19.	UG/G	5/08/89	
8.2.104	89.11470	AU	< 1.		UG/G	5/08/89	
8.2.104	89.11470	B	< 100.		UG/G	5/08/89	
8.2.104	89.11470	BA	5.4	16.	UG/G	5/08/89	
8.2.104	89.11470	BE	56.	170.	UG/G	5/08/89	
8.2.104	89.11470	BI	< 1.		UG/G	5/08/89	
8.2.104	89.11470	BR	< 1.		UG/G	5/08/89	
8.2.104	89.11470	CD	< 1.		UG/G	5/08/89	
8.2.104	89.11470	CE	2.7	8.	UG/G	5/08/89	
8.2.104	89.11470	CO	< 1.		UG/G	5/08/89	
8.2.104	89.11470	CR	3.7	11.	UG/G	5/08/89	
8.2.104	89.11470	CS	< 1.		UG/G	5/08/89	
8.2.104	89.11470	CU	15.	45.	UG/G	5/08/89	
8.2.104	89.11470	DY	< 1.		UG/G	5/08/89	
8.2.104	89.11470	ER	< 1.		UG/G	5/08/89	
8.2.104	89.11470	EU	< 1.		UG/G	5/08/89	
8.2.104	89.11470	FE	1.9	5.	MG/G	5/08/89	
8.2.104	89.11470	GA	4.3	12.	UG/G	5/08/89	
8.2.104	89.11470	GD	< 1.		UG/G	5/08/89	
8.2.104	89.11470	GE	1.3	3.	UG/G	5/08/89	
8.2.104	89.11470	HF	< 1.		UG/G	5/08/89	
8.2.104	89.11470	HG	< 10.		UG/G	5/08/89	
8.2.104	89.11470	HO	< 1.		UG/G	5/08/89	
8.2.104	89.11470	I	10.	30.	UG/G	5/08/89	
8.2.104	89.11470	IR	< 1.		UG/G	5/08/89	
8.2.104	89.11470	LA	< 1.		UG/G	5/08/89	
8.2.104	89.11470	LI	16.	48.	UG/G	5/08/89	
8.2.104	89.11470	LU	< 1.		UG/G	5/08/89	
8.2.104	89.11470	MN	35.	110.	UG/G	5/08/89	
8.2.104	89.11470	MO	14.	42.	UG/G	5/08/89	
8.2.104	89.11470	NB	1.1	3.	UG/G	5/08/89	
8.2.104	89.11470	ND	1.6	4.	UG/G	5/08/89	
8.2.104	89.11470	NI	35.	110.	UG/G	5/08/89	
8.2.104	89.11470	PB	1.2	3.	UG/G	5/08/89	
8.2.104	89.11470	PD	< 1.		UG/G	5/08/89	
8.2.104	89.11470	PR	< 1.		UG/G	5/08/89	
8.2.104	89.11470	PT	< 1.		UG/G	5/08/89	
8.2.104	89.11470	RB	16.	48.	UG/G	5/08/89	

8.2.104	89.11470	RE	< 1.		UG/G	5/08/89
8.2.104	89.11470	RH	< 1.		UG/G	5/08/89
8.2.104	89.11470	RU	< 1.		UG/G	5/08/89
8.2.104	89.11470	SB	< 1.		UG/G	5/08/89
8.2.104	89.11470	SE	62.	190.	UG/G	5/08/89
8.2.104	89.11470	SM	< 1.		UG/G	5/08/89
8.2.104	89.11470	SN	2.4	7.	UG/G	5/08/89
8.2.104	89.11470	SR	4.5	13.	UG/G	5/08/89
8.2.104	89.11470	TA	< 1.		UG/G	5/08/89
8.2.104	89.11470	TB	< 1.		UG/G	5/08/89
8.2.104	89.11470	TH	< 1.		UG/G	5/08/89
8.2.104	89.11470	TI	11.	33.	UG/G	5/08/89
8.2.104	89.11470	TL	< 1.		UG/G	5/08/89
8.2.104	89.11470	TM	< 1.		UG/G	5/08/89
8.2.104	89.11470	U	< 1.		UG/G	5/08/89
8.2.104	89.11470	V	8.6	25.	UG/G	5/08/89
8.2.104	89.11470	W	9.7	29.	UG/G	5/08/89
8.2.104	89.11470	Y	2.	6.	UG/G	5/08/89
8.2.104	89.11470	YB	< 1.		UG/G	5/08/89
8.2.104	89.11470	ZN	54.	160.	UG/G	5/08/89
8.2.104	89.11470	ZR	5.7	17.	UG/G	5/08/89

REPORT NUMBER: 10016

********** HSE-9 ANALYTICAL REPORT **********

Prepared by: ESG on 15-Apr-1991

ICP MASS SCAN

REQUEST NUMBER: 6899 MATRIX: SE ANALYST: Mary Carol Williams PROGRAM CODE: W57J

OWNER: Bill Purtymun GROUP: HSE-8 MAIL-STOP: K490 PHONE: 7-0810

CUSTOMER NUMBER	SAMPLE NUMBER	ANALYSIS	RESULT	UNCERTAINTY	UNITS	COMPLETION DATE	COMMENT
8.2.114	89.11488	AG	< 1.		UG/G	4/17/89	
8.2.114	89.11488	AS	< 1.		UG/G	4/17/89	
8.2.114	89.11488	AU	< 1.		UG/G	4/17/89	
8.2.114	89.11488	B	< 100.		UG/G	4/17/89	
8.2.114	89.11488	BA	< 1.		UG/G	4/17/89	
8.2.114	89.11488	BE	< 10.		UG/G	4/17/89	
8.2.114	89.11488	BI	< 1.		UG/G	4/17/89	
8.2.114	89.11488	BR	< 1.		UG/G	4/17/89	
8.2.114	89.11488	CD	< 1.		UG/G	4/17/89	
8.2.114	89.11488	CE	< 1.		UG/G	4/17/89	
8.2.114	89.11488	CO	< 1.		UG/G	4/17/89	
8.2.114	89.11488	CR	< 1.		UG/G	4/17/89	
8.2.114	89.11488	CS	< 1.		UG/G	4/17/89	
8.2.114	89.11488	CU	< 1.		UG/G	4/17/89	
8.2.114	89.11488	DY	< 1.		UG/G	4/17/89	
8.2.114	89.11488	ER	< 1.		UG/G	4/17/89	
8.2.114	89.11488	EU	< 1.		UG/G	4/17/89	
8.2.114	89.11488	FE	< 1.		UG/G	4/17/89	
8.2.114	89.11488	GA	< 1.		UG/G	4/17/89	
8.2.114	89.11488	GD	< 1.		UG/G	4/17/89	
8.2.114	89.11488	GE	< 1.		UG/G	4/17/89	
8.2.114	89.11488	HF	< 1.		UG/G	4/17/89	
8.2.114	89.11488	HG	< 10.		UG/G	4/17/89	
8.2.114	89.11488	HO	< 1.		UG/G	4/17/89	
8.2.114	89.11488	I	< 1.		UG/G	4/17/89	
8.2.114	89.11488	IR	< 1.		UG/G	4/17/89	
8.2.114	89.11488	LA	< 1.		UG/G	4/17/89	
8.2.114	89.11488	LI	< 10.		UG/G	4/17/89	
8.2.114	89.11488	LU	< 1.		UG/G	4/17/89	
8.2.114	89.11488	MN	< 1.		UG/G	4/17/89	
8.2.114	89.11488	MO	< 1.		UG/G	4/17/89	
8.2.114	89.11488	NB	< 1.		UG/G	4/17/89	
8.2.114	89.11488	ND	< 1.		UG/G	4/17/89	
8.2.114	89.11488	NI	< 1.		UG/G	4/17/89	
8.2.114	89.11488	PB	< 1.		UG/G	4/17/89	
8.2.114	89.11488	PD	< 1.		UG/G	4/17/89	
8.2.114	89.11488	PR	< 1.		UG/G	4/17/89	
8.2.114	89.11488	PT	< 1.		UG/G	4/17/89	
8.2.114	89.11488	RB	1.4	4.	UG/G	4/17/89	

8.2.114	89.11488	RE	< 1.		UG/G	4/17/89
8.2.114	89.11488	RH	< 1.		UG/G	4/17/89
8.2.114	89.11488	RU	< 1.		UG/G	4/17/89
8.2.114	89.11488	SB	< 1.		UG/G	4/17/89
8.2.114	89.11488	SE	< 1.		UG/G	4/17/89
8.2.114	89.11488	SM	< 1.		UG/G	4/17/89
8.2.114	89.11488	SN	< 1.		UG/G	4/17/89
8.2.114	89.11488	SR	< 1.		UG/G	4/17/89
8.2.114	89.11488	TA	< 1.		UG/G	4/17/89
8.2.114	89.11488	TB	< 1.		UG/G	4/17/89
8.2.114	89.11488	TH	< 1.		UG/G	4/17/89
8.2.114	89.11488	TI	< 1.		UG/G	4/17/89
8.2.114	89.11488	TL	< 1.		UG/G	4/17/89
8.2.114	89.11488	TM	< 1.		UG/G	4/17/89
8.2.114	89.11488	U	< 1.		UG/G	4/17/89
8.2.114	89.11488	V	< 1.		UG/G	4/17/89
8.2.114	89.11488	W	< 1.		UG/G	4/17/89
8.2.114	89.11488	Y	< 1.		UG/G	4/17/89
8.2.114	89.11488	YB	< 1.		UG/G	4/17/89
8.2.114	89.11488	ZN	3.3	9.	UG/G	4/17/89
8.2.114	89.11488	ZR	< 1.		UG/G	4/17/89

REPORT NUMBER: 10016

********** HSE-9 ANALYTICAL REPORT **********

Prepared by: ESG on 15-Apr-1991

ICP MASS SCAN

REQUEST NUMBER: 6899 MATRIX: SE ANALYST: Mary Carol Williams PROGRAM CODE: W57J

OWNER: Bill Purtymun GROUP: HSE-8 MAIL-STOP: K490 PHONE: 7-0810

CUSTOMER NUMBER	SAMPLE NUMBER	ANALYSIS	RESULT	UNCERTAINTY	UNITS	COMPLETION DATE	COMMENT
8.2.124	89.11489	AG	< 1.		UG/G	4/17/89	
8.2.124	89.11489	AS	< 1.		UG/G	4/17/89	
8.2.124	89.11489	AU	< 1.		UG/G	4/17/89	
8.2.124	89.11489	B	< 100.		UG/G	4/17/89	
8.2.124	89.11489	BA	< 1.		UG/G	4/17/89	
8.2.124	89.11489	BE	< 10.		UG/G	4/17/89	
8.2.124	89.11489	BI	< 1.		UG/G	4/17/89	
8.2.124	89.11489	BR	< 1.		UG/G	4/17/89	
8.2.124	89.11489	CD	< 1.		UG/G	4/17/89	
8.2.124	89.11489	CE	< 1.		UG/G	4/17/89	
8.2.124	89.11489	CO	< 1.		UG/G	4/17/89	
8.2.124	89.11489	CR	< 1.		UG/G	4/17/89	
8.2.124	89.11489	CS	< 1.		UG/G	4/17/89	
8.2.124	89.11489	CU	< 1.		UG/G	4/17/89	
8.2.124	89.11489	DY	< 1.		UG/G	4/17/89	
8.2.124	89.11489	ER	< 1.		UG/G	4/17/89	
8.2.124	89.11489	EU	< 1.		UG/G	4/17/89	
8.2.124	89.11489	FE	< 1.		UG/G	4/17/89	
8.2.124	89.11489	GA	< 1.		UG/G	4/17/89	
8.2.124	89.11489	GD	< 1.		UG/G	4/17/89	
8.2.124	89.11489	GE	< 1.		UG/G	4/17/89	
8.2.124	89.11489	HF	< 1.		UG/G	4/17/89	
8.2.124	89.11489	HG	< 10.		UG/G	4/17/89	
8.2.124	89.11489	HO	< 1.		UG/G	4/17/89	
8.2.124	89.11489	I	< 1.		UG/G	4/17/89	
8.2.124	89.11489	IR	< 1.		UG/G	4/17/89	
8.2.124	89.11489	LA	< 1.		UG/G	4/17/89	
8.2.124	89.11489	LI	< 10.		UG/G	4/17/89	
8.2.124	89.11489	LU	< 1.		UG/G	4/17/89	
8.2.124	89.11489	MN	< 1.		UG/G	4/17/89	
8.2.124	89.11489	MO	< 1.		UG/G	4/17/89	
8.2.124	89.11489	NB	< 1.		UG/G	4/17/89	
8.2.124	89.11489	ND	< 1.		UG/G	4/17/89	
8.2.124	89.11489	NI	< 1.		UG/G	4/17/89	
8.2.124	89.11489	PB	< 1.		UG/G	4/17/89	
8.2.124	89.11489	PD	< 1.		UG/G	4/17/89	
8.2.124	89.11489	PR	< 1.		UG/G	4/17/89	
8.2.124	89.11489	PT	< 1.		UG/G	4/17/89	
8.2.124	89.11489	RB	1.1	3.	UG/G	4/17/89	

8.2.124	89.11489	RE	< 1.		UG/G	4/17/89
8.2.124	89.11489	RH	< 1.		UG/G	4/17/89
8.2.124	89.11489	RU	< 1.		UG/G	4/17/89
8.2.124	89.11489	SB	< 1.		UG/G	4/17/89
8.2.124	89.11489	SE	< 1.		UG/G	4/17/89
8.2.124	89.11489	SM	< 1.		UG/G	4/17/89
8.2.124	89.11489	SN	< 1.		UG/G	4/17/89
8.2.124	89.11489	SR	< 1.		UG/G	4/17/89
8.2.124	89.11489	TA	< 1.		UG/G	4/17/89
8.2.124	89.11489	TB	< 1.		UG/G	4/17/89
8.2.124	89.11489	TH	< 1.		UG/G	4/17/89
8.2.124	89.11489	TI	< 1.		UG/G	4/17/89
8.2.124	89.11489	TL	< 1.		UG/G	4/17/89
8.2.124	89.11489	TM	< 1.		UG/G	4/17/89
8.2.124	89.11489	U	< 1.		UG/G	4/17/89
8.2.124	89.11489	V	< 1.		UG/G	4/17/89
8.2.124	89.11489	W	1.	3.	UG/G	4/17/89
8.2.124	89.11489	Y	< 1.		UG/G	4/17/89
8.2.124	89.11489	YB	< 1.		UG/G	4/17/89
8.2.124	89.11489	ZN	1.6	4.	UG/G	4/17/89
8.2.124	89.11489	ZR	< 1.		UG/G	4/17/89

REPORT NUMBER: 10016

********** HSE-9 ANALYTICAL REPORT **********

Prepared by: ESG on 15-Apr-1991

ICP MASS SCAN

REQUEST NUMBER: 6899 MATRIX: SE ANALYST: Mary Carol Williams PROGRAM CODE: W57J

OWNER: Bill Purtymun GROUP: HSE-8 MAIL-STOP: K490 PHONE: 7-0810

CUSTOMER NUMBER	SAMPLE NUMBER	ANALYSIS	RESULT	UNCERTAINTY	UNITS	COMPLETION DATE	COMMENT
8.2.134	89.11490	AG	< 1.		UG/G	4/17/89	
8.2.134	89.11490	AS	< 1.		UG/G	4/17/89	
8.2.134	89.11490	AU	< 1.		UG/G	4/17/89	
8.2.134	89.11490	B	< 100.		UG/G	4/17/89	
8.2.134	89.11490	BA	< 1.		UG/G	4/17/89	
8.2.134	89.11490	BE	< 10.		UG/G	4/17/89	
8.2.134	89.11490	BI	< 1.		UG/G	4/17/89	
8.2.134	89.11490	BR	< 1.		UG/G	4/17/89	
8.2.134	89.11490	CD	< 1.		UG/G	4/17/89	
8.2.134	89.11490	CE	< 1.		UG/G	4/17/89	
8.2.134	89.11490	CO	< 1.		UG/G	4/17/89	
8.2.134	89.11490	CR	< 1.		UG/G	4/17/89	
8.2.134	89.11490	CS	< 1.		UG/G	4/17/89	
8.2.134	89.11490	CU	< 1.		UG/G	4/17/89	
8.2.134	89.11490	DY	< 1.		UG/G	4/17/89	
8.2.134	89.11490	ER	< 1.		UG/G	4/17/89	
8.2.134	89.11490	EU	< 1.		UG/G	4/17/89	
8.2.134	89.11490	FE	15.	45.	UG/G	4/17/89	
8.2.134	89.11490	GA	< 1.		UG/G	4/17/89	
8.2.134	89.11490	GD	< 1.		UG/G	4/17/89	
8.2.134	89.11490	GE	< 1.		UG/G	4/17/89	
8.2.134	89.11490	HF	< 1.		UG/G	4/17/89	
8.2.134	89.11490	HG	< 10.		UG/G	4/17/89	
8.2.134	89.11490	HO	< 1.		UG/G	4/17/89	
8.2.134	89.11490	I	< 1.		UG/G	4/17/89	
8.2.134	89.11490	IR	< 1.		UG/G	4/17/89	
8.2.134	89.11490	LA	< 1.		UG/G	4/17/89	
8.2.134	89.11490	LI	< 10.		UG/G	4/17/89	
8.2.134	89.11490	LU	< 1.		UG/G	4/17/89	
8.2.134	89.11490	MN	1.5	4.	UG/G	4/17/89	
8.2.134	89.11490	MO	< 1.		UG/G	4/17/89	
8.2.134	89.11490	NB	< 1.		UG/G	4/17/89	
8.2.134	89.11490	ND	< 1.		UG/G	4/17/89	
8.2.134	89.11490	NI	3.9	11.	UG/G	4/17/89	
8.2.134	89.11490	PB	< 1.		UG/G	4/17/89	
8.2.134	89.11490	PD	< 1.		UG/G	4/17/89	
8.2.134	89.11490	PR	< 1.		UG/G	4/17/89	
8.2.134	89.11490	PT	< 1.		UG/G	4/17/89	
8.2.134	89.11490	RB	2.1	6.	UG/G	4/17/89	

8.2.134	89.11490	RE	< 1.		UG/G	4/17/89
8.2.134	89.11490	RH	< 1.		UG/G	4/17/89
8.2.134	89.11490	RU	< 1.		UG/G	4/17/89
8.2.134	89.11490	SB	< 1.		UG/G	4/17/89
8.2.134	89.11490	SE	1.4	4.	UG/G	4/17/89
8.2.134	89.11490	SM	< 1.		UG/G	4/17/89
8.2.134	89.11490	SN	< 1.		UG/G	4/17/89
8.2.134	89.11490	SR	< 1.		UG/G	4/17/89
8.2.134	89.11490	TA	< 1.		UG/G	4/17/89
8.2.134	89.11490	TB	< 1.		UG/G	4/17/89
8.2.134	89.11490	TH	< 1.		UG/G	4/17/89
8.2.134	89.11490	TI	1.3	3.	UG/G	4/17/89
8.2.134	89.11490	TL	< 1.		UG/G	4/17/89
8.2.134	89.11490	TM	< 1.		UG/G	4/17/89
8.2.134	89.11490	U	< 1.		UG/G	4/17/89
8.2.134	89.11490	V	< 1.		UG/G	4/17/89
8.2.134	89.11490	W	< 1.		UG/G	4/17/89
8.2.134	89.11490	Y	< 1.		UG/G	4/17/89
8.2.134	89.11490	YB	< 1.		UG/G	4/17/89
8.2.134	89.11490	ZN	6.8	20.	UG/G	4/17/89
8.2.134	89.11490	ZR	< 1.		UG/G	4/17/89

REPORT NUMBER: 10016

********** HSE-9 ANALYTICAL REPORT **********

Prepared by: ESG on 15-Apr-1991

ICP MASS SCAN

REQUEST NUMBER: 6899 MATRIX: SE ANALYST: Mary Carol Williams PROGRAM CODE: W57J

OWNER: Bill Purtymun GROUP: HSE-8 MAIL-STOP: K490 PHONE: 7-0810

CUSTOMER NUMBER	SAMPLE NUMBER	ANALYSIS	RESULT	UNCERTAINTY	UNITS	COMPLETION DATE	COMMENT
8.2.144	89.11491	AG	< 1.		UG/G	4/17/89	
8.2.144	89.11491	AS	< 1.		UG/G	4/17/89	
8.2.144	89.11491	AU	< 1.		UG/G	4/17/89	
8.2.144	89.11491	B	< 100.		UG/G	4/17/89	
8.2.144	89.11491	BA	< 1.		UG/G	4/17/89	
8.2.144	89.11491	BE	< 10.		UG/G	4/17/89	
8.2.144	89.11491	BI	< 1.		UG/G	4/17/89	
8.2.144	89.11491	BR	< 1.		UG/G	4/17/89	
8.2.144	89.11491	CD	< 1.		UG/G	4/17/89	
8.2.144	89.11491	CE	< 1.		UG/G	4/17/89	
8.2.144	89.11491	CO	< 1.		UG/G	4/17/89	
8.2.144	89.11491	CR	< 1.		UG/G	4/17/89	
8.2.144	89.11491	CS	< 1.		UG/G	4/17/89	
8.2.144	89.11491	CU	< 1.		UG/G	4/17/89	
8.2.144	89.11491	DY	< 1.		UG/G	4/17/89	
8.2.144	89.11491	ER	< 1.		UG/G	4/17/89	
8.2.144	89.11491	EU	< 1.		UG/G	4/17/89	
8.2.144	89.11491	FE	< 1.		UG/G	4/17/89	
8.2.144	89.11491	GA	< 1.		UG/G	4/17/89	
8.2.144	89.11491	GD	< 1.		UG/G	4/17/89	
8.2.144	89.11491	GE	< 1.		UG/G	4/17/89	
8.2.144	89.11491	HF	< 1.		UG/G	4/17/89	
8.2.144	89.11491	HG	< 10.		UG/G	4/17/89	
8.2.144	89.11491	HO	< 1.		UG/G	4/17/89	
8.2.144	89.11491	I	< 1.		UG/G	4/17/89	
8.2.144	89.11491	IR	< 1.		UG/G	4/17/89	
8.2.144	89.11491	LA	< 1.		UG/G	4/17/89	
8.2.144	89.11491	LI	< 10.		UG/G	4/17/89	
8.2.144	89.11491	LU	< 1.		UG/G	4/17/89	
8.2.144	89.11491	MN	< 1.		UG/G	4/17/89	
8.2.144	89.11491	MO	< 1.		UG/G	4/17/89	
8.2.144	89.11491	NB	< 1.		UG/G	4/17/89	
8.2.144	89.11491	ND	< 1.		UG/G	4/17/89	
8.2.144	89.11491	NI	< 1.		UG/G	4/17/89	
8.2.144	89.11491	PB	< 1.		UG/G	4/17/89	
8.2.144	89.11491	PD	< 1.		UG/G	4/17/89	
8.2.144	89.11491	PR	< 1.		UG/G	4/17/89	
8.2.144	89.11491	PT	< 1.		UG/G	4/17/89	
8.2.144	89.11491	RB	1.1	3.	UG/G	4/17/89	

8.2.144	89.11491	RE	< 1.		UG/G	4/17/89
8.2.144	89.11491	RH	< 1.		UG/G	4/17/89
8.2.144	89.11491	RU	< 1.		UG/G	4/17/89
8.2.144	89.11491	SB	< 1.		UG/G	4/17/89
8.2.144	89.11491	SE	< 1.		UG/G	4/17/89
8.2.144	89.11491	SM	< 1.		UG/G	4/17/89
8.2.144	89.11491	SN	< 1.		UG/G	4/17/89
8.2.144	89.11491	SR	< 1.		UG/G	4/17/89
8.2.144	89.11491	TA	< 1.		UG/G	4/17/89
8.2.144	89.11491	TB	< 1.		UG/G	4/17/89
8.2.144	89.11491	TH	< 1.		UG/G	4/17/89
8.2.144	89.11491	TI	< 1.		UG/G	4/17/89
8.2.144	89.11491	TL	< 1.		UG/G	4/17/89
8.2.144	89.11491	TM	< 1.		UG/G	4/17/89
8.2.144	89.11491	U	< 1.		UG/G	4/17/89
8.2.144	89.11491	V	< 1.		UG/G	4/17/89
8.2.144	89.11491	W	< 1.		UG/G	4/17/89
8.2.144	89.11491	Y	< 1.		UG/G	4/17/89
8.2.144	89.11491	YB	< 1.		UG/G	4/17/89
8.2.144	89.11491	ZN	1.8	5.	UG/G	4/17/89
8.2.144	89.11491	ZR	< 1.		UG/G	4/17/89

REPORT NUMBER: 10016

********** HSE-9 ANALYTICAL REPORT **********

Prepared by: ESG on 15-Apr-1991

ICP MASS SCAN

REQUEST NUMBER: 6899 MATRIX: SE ANALYST: Mary Carol Williams PROGRAM CODE: W57J

OWNER: Bill Purtymun GROUP: HSE-8 MAIL-STOP: K490 PHONE: 7-0810

CUSTOMER NUMBER	SAMPLE NUMBER	ANALYSIS	RESULT	UNCERTAINTY	UNITS	COMPLETION DATE	COMMENT
8.2.154	89.11492	AG	< 1.		UG/G	4/28/89	
8.2.154	89.11492	AG	< 1.		UG/G	4/28/89	
8.2.154	89.11492	AS	< 1.		UG/G	4/28/89	
8.2.154	89.11492	AS	< 1.		UG/G	4/28/89	
8.2.154	89.11492	AU	< 1.		UG/G	4/28/89	
8.2.154	89.11492	AU	< 1.		UG/G	4/28/89	
8.2.154	89.11492	B	< 100.		UG/G	4/28/89	
8.2.154	89.11492	B	< 100.		UG/G	4/28/89	
8.2.154	89.11492	BA	< 1.		UG/G	4/28/89	
8.2.154	89.11492	BA	< 1.		UG/G	4/28/89	
8.2.154	89.11492	BE	< 10.		UG/G	4/28/89	
8.2.154	89.11492	BE	< 10.		UG/G	4/28/89	
8.2.154	89.11492	BI	< 1.		UG/G	4/28/89	
8.2.154	89.11492	BI	< 1.		UG/G	4/28/89	
8.2.154	89.11492	BR	< 1.		UG/G	4/28/89	
8.2.154	89.11492	BR	< 1.		UG/G	4/28/89	
8.2.154	89.11492	CD	< 1.		UG/G	4/28/89	
8.2.154	89.11492	CD	< 1.		UG/G	4/28/89	
8.2.154	89.11492	CE	< 1.		UG/G	4/28/89	
8.2.154	89.11492	CE	< 1.		UG/G	4/28/89	
8.2.154	89.11492	CO	< 1.		UG/G	4/28/89	
8.2.154	89.11492	CO	< 1.		UG/G	4/28/89	
8.2.154	89.11492	CR	< 1.		UG/G	4/28/89	
8.2.154	89.11492	CR	< 1.		UG/G	4/28/89	
8.2.154	89.11492	CS	< 1.		UG/G	4/28/89	
8.2.154	89.11492	CS	< 1.		UG/G	4/28/89	
8.2.154	89.11492	CU	< 1.		UG/G	4/28/89	
8.2.154	89.11492	CU	< 1.		UG/G	4/28/89	
8.2.154	89.11492	DY	< 1.		UG/G	4/28/89	
8.2.154	89.11492	DY	< 1.		UG/G	4/28/89	
8.2.154	89.11492	ER	< 1.		UG/G	4/28/89	
8.2.154	89.11492	ER	< 1.		UG/G	4/28/89	
8.2.154	89.11492	EU	< 1.		UG/G	4/28/89	
8.2.154	89.11492	EU	< 1.		UG/G	4/28/89	
8.2.154	89.11492	FE	< 1.		UG/G	4/28/89	
8.2.154	89.11492	FE	< 1.		UG/G	4/28/89	
8.2.154	89.11492	GA	< 1.		UG/G	4/28/89	
8.2.154	89.11492	GA	< 1.		UG/G	4/28/89	
8.2.154	89.11492	GD	< 1.		UG/G	4/28/89	

8.2.154	89.11492	GD	< 1.	UG/G	4/28/89
8.2.154	89.11492	GE	< 1.	UG/G	4/28/89
8.2.154	89.11492	GE	< 1.	UG/G	4/28/89
8.2.154	89.11492	HF	< 1.	UG/G	4/28/89
8.2.154	89.11492	HF	< 1.	UG/G	4/28/89
8.2.154	89.11492	HG	< 10.	UG/G	4/28/89
8.2.154	89.11492	HG	< 10.	UG/G	4/28/89
8.2.154	89.11492	HO	< 1.	UG/G	4/28/89
8.2.154	89.11492	HO	< 1.	UG/G	4/28/89
8.2.154	89.11492	I	< 1.	UG/G	4/28/89
8.2.154	89.11492	I	< 1.	UG/G	4/28/89
8.2.154	89.11492	IR	< 1.	UG/G	4/28/89
8.2.154	89.11492	IR	< 1.	UG/G	4/28/89
8.2.154	89.11492	LA	< 1.	UG/G	4/28/89
8.2.154	89.11492	LA	< 1.	UG/G	4/28/89
8.2.154	89.11492	LI	< 10.	UG/G	4/28/89
8.2.154	89.11492	LI	< 10.	UG/G	4/28/89
8.2.154	89.11492	LU	< 1.	UG/G	4/28/89
8.2.154	89.11492	LU	< 1.	UG/G	4/28/89
8.2.154	89.11492	MN	< 1.	UG/G	4/28/89
8.2.154	89.11492	MN	< 1.	UG/G	4/28/89
8.2.154	89.11492	MO	< 1.	UG/G	4/28/89
8.2.154	89.11492	MO	< 1.	UG/G	4/28/89
8.2.154	89.11492	NB	< 1.	UG/G	4/28/89
8.2.154	89.11492	NB	< 1.	UG/G	4/28/89
8.2.154	89.11492	ND	< 1.	UG/G	4/28/89
8.2.154	89.11492	ND	< 1.	UG/G	4/28/89
8.2.154	89.11492	NI	< 1.	UG/G	4/28/89
8.2.154	89.11492	NI	< 1.	UG/G	4/28/89
8.2.154	89.11492	PB	< 1.	UG/G	4/28/89
8.2.154	89.11492	PB	< 1.	UG/G	4/28/89
8.2.154	89.11492	PD	< 1.	UG/G	4/28/89
8.2.154	89.11492	PD	< 1.	UG/G	4/28/89
8.2.154	89.11492	PR	< 1.	UG/G	4/28/89
8.2.154	89.11492	PR	< 1.	UG/G	4/28/89
8.2.154	89.11492	PT	< 1.	UG/G	4/28/89
8.2.154	89.11492	PT	< 1.	UG/G	4/28/89
8.2.154	89.11492	RB	< 1.	UG/G	4/28/89
8.2.154	89.11492	RB	< 1.	UG/G	4/28/89
8.2.154	89.11492	RE	< 1.	UG/G	4/28/89
8.2.154	89.11492	RE	< 1.	UG/G	4/28/89
8.2.154	89.11492	RH	< 1.	UG/G	4/28/89
8.2.154	89.11492	RH	< 1.	UG/G	4/28/89
8.2.154	89.11492	RU	< 1.	UG/G	4/28/89
8.2.154	89.11492	RU	< 1.	UG/G	4/28/89
8.2.154	89.11492	SB	< 1.	UG/G	4/28/89
8.2.154	89.11492	SB	< 1.	UG/G	4/28/89
8.2.154	89.11492	SE	< 1.	UG/G	4/28/89
8.2.154	89.11492	SE	< 1.	UG/G	4/28/89
8.2.154	89.11492	SM	< 1.	UG/G	4/28/89
8.2.154	89.11492	SN	< 1.	UG/G	4/28/89
8.2.154	89.11492	SR	< 1.	UG/G	4/28/89
8.2.154	89.11492	TA	< 1.	UG/G	4/28/89
8.2.154	89.11492	TB	< 1.	UG/G	4/28/89
8.2.154	89.11492	TH	< 1.	UG/G	4/28/89
8.2.154	89.11492	TI	< 1.	UG/G	4/28/89
8.2.154	89.11492	TL	< 1.	UG/G	4/28/89
8.2.154	89.11492	TM	< 1.	UG/G	4/28/89
8.2.154	89.11492	U	< 1.	UG/G	4/28/89
8.2.154	89.11492	V	< 1.	UG/G	4/28/89

8.2.154	89.11492	W	< 1.	UG/G	4/28/89
8.2.154	89.11492	Y	< 1.	UG/G	4/28/89
8.2.154	89.11492	YB	< 1.	UG/G	4/28/89
8.2.154	89.11492	ZN	< 1.	UG/G	4/28/89
8.2.154	89.11492	ZR	< 1.	UG/G	4/28/89

REPORT NUMBER: 10016

********** HSE-9 ANALYTICAL REPORT **********

Prepared by: ESG on 15-Apr-1991

ICP MASS SCAN

REQUEST NUMBER: 6899 MATRIX: SE ANALYST: Mary Carol Williams PROGRAM CODE: W57J

OWNER: Bill Purtymun GROUP: HSE-8 MAIL-STOP: K490 PHONE: 7-0810

CUSTOMER NUMBER	SAMPLE NUMBER	ANALYSIS	RESULT	UNCERTAINTY	UNITS	COMPLETION DATE	COMMENT
8.2.164	89.11512	AG	< 1.		UG/G	4/17/89	
8.2.164	89.11512	AS	< 1.		UG/G	4/17/89	
8.2.164	89.11512	AU	< 1.		UG/G	4/17/89	
8.2.164	89.11512	B	< 100.		UG/G	4/17/89	
8.2.164	89.11512	BA	< 1.		UG/G	4/17/89	
8.2.164	89.11512	BE	< 10.		UG/G	4/17/89	
8.2.164	89.11512	BI	< 1.		UG/G	4/17/89	
8.2.164	89.11512	BR	< 1.		UG/G	4/17/89	
8.2.164	89.11512	CD	< 1.		UG/G	4/17/89	
8.2.164	89.11512	CE	< 1.		UG/G	4/17/89	
8.2.164	89.11512	CO	< 1.		UG/G	4/17/89	
8.2.164	89.11512	CR	< 1.		UG/G	4/17/89	
8.2.164	89.11512	CS	< 1.		UG/G	4/17/89	
8.2.164	89.11512	CU	< 1.		UG/G	4/17/89	
8.2.164	89.11512	DY	< 1.		UG/G	4/17/89	
8.2.164	89.11512	ER	< 1.		UG/G	4/17/89	
8.2.164	89.11512	EU	< 1.		UG/G	4/17/89	
8.2.164	89.11512	FE	< 1.		UG/G	4/17/89	
8.2.164	89.11512	GA	< 1.		UG/G	4/17/89	
8.2.164	89.11512	GD	< 1.		UG/G	4/17/89	
8.2.164	89.11512	GE	< 1.		UG/G	4/17/89	
8.2.164	89.11512	HF	< 1.		UG/G	4/17/89	
8.2.164	89.11512	HG	< 10.		UG/G	4/17/89	
8.2.164	89.11512	HO	< 1.		UG/G	4/17/89	
8.2.164	89.11512	I	< 1.		UG/G	4/17/89	
8.2.164	89.11512	IR	< 1.		UG/G	4/17/89	
8.2.164	89.11512	LA	< 1.		UG/G	4/17/89	
8.2.164	89.11512	LI	< 10.		UG/G	4/17/89	
8.2.164	89.11512	LU	< 1.		UG/G	4/17/89	
8.2.164	89.11512	MN	< 1.		UG/G	4/17/89	
8.2.164	89.11512	MO	< 1.		UG/G	4/17/89	
8.2.164	89.11512	NB	< 1.		UG/G	4/17/89	
8.2.164	89.11512	ND	< 1.		UG/G	4/17/89	
8.2.164	89.11512	NI	< 1.		UG/G	4/17/89	
8.2.164	89.11512	PB	< 1.		UG/G	4/17/89	
8.2.164	89.11512	PD	< 1.		UG/G	4/17/89	
8.2.164	89.11512	PR	< 1.		UG/G	4/17/89	
8.2.164	89.11512	PT	< 1.		UG/G	4/17/89	
8.2.164	89.11512	RB	2.2	6.	UG/G	4/17/89	

8.2.164	89.11512	RE	< 1.		UG/G	4/17/89
8.2.164	89.11512	RH	< 1.		UG/G	4/17/89
8.2.164	89.11512	RU	< 1.		UG/G	4/17/89
8.2.164	89.11512	SB	< 1.		UG/G	4/17/89
8.2.164	89.11512	SE	< 1.		UG/G	4/17/89
8.2.164	89.11512	SM	< 1.		UG/G	4/17/89
8.2.164	89.11512	SN	< 1.		UG/G	4/17/89
8.2.164	89.11512	SR	< 1.		UG/G	4/17/89
8.2.164	89.11512	TA	< 1.		UG/G	4/17/89
8.2.164	89.11512	TB	< 1.		UG/G	4/17/89
8.2.164	89.11512	TH	< 1.		UG/G	4/17/89
8.2.164	89.11512	TI	< 1.		UG/G	4/17/89
8.2.164	89.11512	TL	< 1.		UG/G	4/17/89
8.2.164	89.11512	TM	< 1.		UG/G	4/17/89
8.2.164	89.11512	U	< 1.		UG/G	4/17/89
8.2.164	89.11512	V	< 1.		UG/G	4/17/89
8.2.164	89.11512	W	< 1.		UG/G	4/17/89
8.2.164	89.11512	Y	< 1.		UG/G	4/17/89
8.2.164	89.11512	YB	< 1.		UG/G	4/17/89
8.2.164	89.11512	ZN	2.2	6.	UG/G	4/17/89
8.2.164	89.11512	ZR	< 1.		UG/G	4/17/89

REPORT NUMBER: 10016

********** HSE-9 ANALYTICAL REPORT **********

Prepared by: ESG on 15-Apr-1991

ICP MASS SCAN

REQUEST NUMBER: 6899 MATRIX: SE ANALYST: Mary Carol Williams PROGRAM CODE: W57J

OWNER: Bill Purtymun GROUP: HSE-8 MAIL-STOP: K490 PHONE: 7-0810

CUSTOMER NUMBER	SAMPLE NUMBER	ANALYSIS	RESULT	UNCERTAINTY	UNITS	COMPLETION DATE	COMMENT
8.2.174	89.11540	AG	< 1.		UG/G	5/08/89	
8.2.174	89.11540	AS	3.6	10.	UG/G	5/08/89	
8.2.174	89.11540	AU	< 1.		UG/G	5/08/89	
8.2.174	89.11540	B	< 100.		UG/G	5/08/89	
8.2.174	89.11540	BA	5.2	15.	UG/G	5/08/89	
8.2.174	89.11540	BE	40.	120.	UG/G	5/08/89	
8.2.174	89.11540	BI	< 1.		UG/G	5/08/89	
8.2.174	89.11540	BR	< 1.		UG/G	5/08/89	
8.2.174	89.11540	CD	< 1.		UG/G	5/08/89	
8.2.174	89.11540	CE	1.2	3.	UG/G	5/08/89	
8.2.174	89.11540	CO	< 1.		UG/G	5/08/89	
8.2.174	89.11540	CR	2.8	8.	UG/G	5/08/89	
8.2.174	89.11540	CS	< 1.		UG/G	5/08/89	
8.2.174	89.11540	CU	13.	39.	UG/G	5/08/89	
8.2.174	89.11540	DY	< 1.		UG/G	5/08/89	
8.2.174	89.11540	ER	< 1.		UG/G	5/08/89	
8.2.174	89.11540	EU	< 1.		UG/G	5/08/89	
8.2.174	89.11540	FE	< 1.		UG/G	5/08/89	
8.2.174	89.11540	GA	1.2	3.	UG/G	5/08/89	
8.2.174	89.11540	GD	< 1.		UG/G	5/08/89	
8.2.174	89.11540	GE	< 1.		UG/G	5/08/89	
8.2.174	89.11540	HF	< 1.		UG/G	5/08/89	
8.2.174	89.11540	HG	< 10.		UG/G	5/08/89	
8.2.174	89.11540	HO	< 1.		UG/G	5/08/89	
8.2.174	89.11540	I	4.	12.	UG/G	5/08/89	
8.2.174	89.11540	IR	< 1.		UG/G	5/08/89	
8.2.174	89.11540	LA	< 1.		UG/G	5/08/89	
8.2.174	89.11540	LI	23.	69.	UG/G	5/08/89	
8.2.174	89.11540	LU	< 1.		UG/G	5/08/89	
8.2.174	89.11540	MN	10.	30.	UG/G	5/08/89	
8.2.174	89.11540	MO	4.4	13.	UG/G	5/08/89	
8.2.174	89.11540	NB	< 1.		UG/G	5/08/89	
8.2.174	89.11540	ND	< 1.		UG/G	5/08/89	
8.2.174	89.11540	NI	12.	36.	UG/G	5/08/89	
8.2.174	89.11540	PB	7.7	23.	UG/G	5/08/89	
8.2.174	89.11540	PD	< 1.		UG/G	5/08/89	
8.2.174	89.11540	PR	< 1.		UG/G	5/08/89	
8.2.174	89.11540	PT	< 1.		UG/G	5/08/89	
8.2.174	89.11540	RB	24.	72.	UG/G	5/08/89	

8.2.174	89.11540	RE	< 1.		UG/G	5/08/89
8.2.174	89.11540	RH	< 1.		UG/G	5/08/89
8.2.174	89.11540	RU	< 1.		UG/G	5/08/89
8.2.174	89.11540	SB	< 1.		UG/G	5/08/89
8.2.174	89.11540	SE	8.3	24.	UG/G	5/08/89
8.2.174	89.11540	SM	< 1.		UG/G	5/08/89
8.2.174	89.11540	SN	1.1	3.	UG/G	5/08/89
8.2.174	89.11540	SR	25.	75.	UG/G	5/08/89
8.2.174	89.11540	TA	< 1.		UG/G	5/08/89
8.2.174	89.11540	TB	< 1.		UG/G	5/08/89
8.2.174	89.11540	TH	< 1.		UG/G	5/08/89
8.2.174	89.11540	TI	11.	33.	UG/G	5/08/89
8.2.174	89.11540	TL	< 1.		UG/G	5/08/89
8.2.174	89.11540	TM	< 1.		UG/G	5/08/89
8.2.174	89.11540	U	< 1.		UG/G	5/08/89
8.2.174	89.11540	V	< 1.		UG/G	5/08/89
8.2.174	89.11540	W	5.5	16.	UG/G	5/08/89
8.2.174	89.11540	Y	< 1.		UG/G	5/08/89
8.2.174	89.11540	YB	< 1.		UG/G	5/08/89
8.2.174	89.11540	ZN	110.	330.	UG/G	5/08/89
8.2.174	89.11540	ZR	3.7	11.	UG/G	5/08/89

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REPORT NUMBER: 10016 (continued)

********** HSE-9 QUALITY ASSURANCE REPORT *********

ICP MASS SCAN

Prepared by: ESG on 15-Apr-1991

REQUEST NUMBER: 6899 MATRIX: SE ANALYST: Mary Carol Williams PROGRAM CODE: W57J

OWNER: Bill Purtymun GROUP: HSE-8 MAIL-STOP: K490 PHONE: 7-0810

REPORT NUMBER: 10016

Analyst	Section Leader	QA Officer
Date	Date	Date

The control status of the preceeding data was evaluated using the standard statistical criteria set forth in 'Quality Assurance for Health and Environmental Chemistry: 1986,' LA-11114-MS, pp. 3-4.

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8.6.4 Monitoring Wells

TABLE 8.6.4-I

SUMMARY OF APPENDIX IX INORGANIC ANALYSES ON SAMPLES FROM PERCHED ZONE MONITORING WELLS

		PARAMETER (micrograms/L)																		
WELL	LAB[1]	Sb	As	Ba	Be	Cd	Cr	Co	Cu	Pb	Hg	Ni	Se	Ag	Tl	Sn	V	Zn	CN (mg/L)	Sulfides (mg/L)
MCO-4B	IT	<30	<40	190	<1	<5	<10	<20	10	<30	<1	<20	<60	<5	<40	<20	<10	81	0.01	2.0
	HSE-9	0.5	15.1	337	2.1	0.9	17.3		16.5	42.3	<0.2	10.9	2.5	0.3	0.4		171	72	0.041	
MCO-4	HSE-9	0.7	19.1	128	<0.1	0.9	15.9		17	2.8	<0.2	14.8	2.4	0.2	0.2		215	20	0.036	
MCO-6B	IT	<30	<40	690	4	<5	30	<20	30	70	<1	<20	<60	<5	<40	<20	30	150	<0.01	1.0
	HSE-9	<0.5	12.7	1670	8.3	0.7	22.5		17	163	<0.2	17.3	2.2	1.3	2.1		155	149	0.046	
MCO-6	HSE-9	<0.5	17.7	231	0.4	0.6	19.8		12.3	16.2	<0.2	16.3	2.6	<0.2	0.2		185	43	0.046	
MCO-7A	IT	<30	<40	420	3	<5	20	<20	30	50	<1	30	<60	<5	<40	<20	40	100	<0.01	1.6
	HSE-9	<0.5	15.8	820	4.7	0.7	28		21.2	94	<0.2	20.3	1	0.4	0.8		147	107	0.026	
MCO-7	HSE-9	<0.5	15.6	254	0.9	<0.5	15.8		49.7	16.8	<0.2	10.3	1	0.6	0.2		126	74	0.026	

Notes:

[1] Entry indicates particular sampling date and analytical laboratory performing analyses.

IT samples collected on November 1 (MCO-6B and MCO-7A) and November 2 (MCO-4B),1990, and analyzed by IT Corporation.

HSE-9 samples collected on September 11 (MCO-4B, MCO-4, MCO-6B, MCO-7A, and MCO-7) or September 12, 1990 (MCO-6) and analyzed by Los Alamos National Laboratory, Environmental and Health Chemistry Group, HSE-9.

TABLE 8.6.4-II

SUMMARY OF GENERAL CHEMICAL PARAMETER ANALYSES OF SAMPLES FROM PERCHED ZONE MONITORING WELLS

		PARAMETER (mg/L except where noted)														
WELL	LAB[1]	Ca	Mg	K	Na	P	SO4	Cl	NO3-N	Al	Fe	Mn	TDS	pH (pH)	Cond. (µmho/cm)
MCO-4B	HSE-9	55.4	5.66	45.1	209	0.361	46.5	<0.5	50.2	15	–	0.518	712	7.54	717
MCO-4	HSE-9	55.4	3.64	46.5	142	0.276	40.9	19.2	40.5	1.5	–	0.030	568	7.47	635
MCO-6B	HSE-9	53	10.2	32.8	278	0.876	54.9	34.4	15	113	–	2.56	834	7.31	905
MCO-6	HSE-9	57.6	6.61	54.9	268	0.333	49.4	29.3	70.1	8.3	–	0.265	884	7.37	894
MCO-7A	HSE-9	25	5.78	11.3	112.6	0.924	22.9	28.1	18.8	57.4	–	1.62	220	6.96	220
MCO-7	HSE-9	26.9	5.42	8.90	89.6	0.566	21.6	<0.5	13.7	280	–	0.206	280	7.06	300

Notes:

[1] Entry indicates particular sampling date and analytical laboratory performing analyses.

HSE-9 samples collected on September 11 (MCO-4B, MCO-4, MCO-6B, MCO-7A, and MCO-7) or September 12, 1990 (MCO-6) and analyzed by Los Alamos National Laboratory, Environmental and Health Chemistry Group, HSE-9.