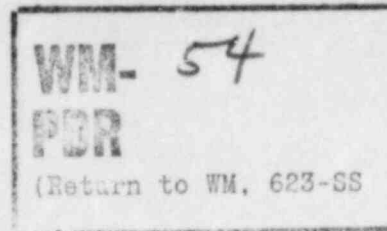




Department of Energy
Washington, D.C. 20545



cc: RAS
9/29
nb

SEP 20 1982

Mr. Ross A. Scarano, Chief
Uranium Recovery Licenses Branch
Mail Stop 483-SS
U.S. Nuclear Regulatory Commission
Washington, D.C. 20555

Dear Mr. Scarano:

My letter of December 21, 1979, notified the Nuclear Regulatory Commission that in accordance with the Uranium Mill Tailings Radiation Control Act of 1978 (Public Law 95-604) Secretary Duncan on November 8, 1979, designated the inactive uranium mill tailings site in Grand Junction, Colorado, as a processing site and established the priority for performing remedial action there as high.

Under the provisions of Section 102(e)(2) of the Act, we are now preparing to include for remedial action properties in the vicinity of the Grand Junction site which we have determined are contaminated with residual radioactive material derived from the site. Information on 86 of these properties is enclosed for your review and comment.

We are continuing with the identification and radiological evaluation of additional properties outside the designated boundaries of the Grand Junction site in Grand Junction, Colorado, and will be in communication with you about the inclusion of those properties as soon as the reports become available.

Sincerely,

William E. Mott
Acting Director
Public Safety Division
Office of Operational
Safety (EP-323)

Enclosure

8211050229 820920
PDR WASTE
WM-54 PDR

GRAND JUNCTION VICINITY PROPERTIES
 CANDIDATES FOR DESIGNATION/REMEDIAL ACTION
 SUMMARY-RADIOLOGICAL DATA
 AUGUST 26, 1982

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SITE # EPA LOC #	PROPERTY LOCATION	GJRAP			RADIOLOGICAL STATUS					REMARKS
		Application	Eligible	Rem. Action	HOG (μ R/hr)	HIG (μ R/hr)	RDC (WL)	G. MAP	BPS	
GJ0001 5080	1815 Bass St.	Yes	No	No	286	23	.004	Yes	No	Documentation indicates heavy yardfill in front and possible backfill with tailings around house. HIG on gamma map indicates localized spot.
GJ0002 18501	246 Belford Ave. (formerly 200 Belford Ave)				230	N/A	N/A	No	Yes	Vacant lot surveyed Feb 72. Apartment building constructed on site. Cleanup prior to construction unknown.
GJ0004* 2710	731 Bookcliff Ave.	Yes	No	No	17	40 (10)	.023	Yes	Yes	Extent of cleanup unknown. HIG in basement.
GJ0010 12261	1308 Cedar Ave.	Yes	No	No	20	118 (17)	.007	Yes	No	HIG-ore sample in living room. Surface measurements, 16 to 90 μ R/hr in family room.
GJ0011* 10698 10699	600 Center Ave	Yes	No	No	90	unit #3 21 unit #4 26	unit #3 .030 unit #4 .027	Yes	Yes	Extent of cleanup prior to new construction unknown.
GJ0012 5193	516 Chuluota Ave.	Yes	No	No	286	73 (11)	.010	Yes	No	HOG in bedroom. Estimated 16" of tailings under open back porch.
GJ0013 1509	539 Colorado Ave. (The Corral Bar)	Yes	No	No	202	90 (24)	.011	Yes	No	HOG appears to be point source-suspect ore.
GJ0014 9893	640 Colorado Ave.	Yes	No	No	174	146 (BG)	.016	Yes	No	HIG-small area in dirt floor of basement-living area near background. HOG localized-small area.
GJ0015 12861	1129 Colorado Ave. (Petroleum Building)				40	174 (BG)	.009	Yes	No	HOG in basement. 1st floor - 40 μ R/hr in hall near stairs to basement.
GJ0016 9560	1100 D Road (Valley Building Supply)				28	28	.023	Yes	Yes	Near tailings pile. Area of HOG cleaned up according to BPS.

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 () - Net average gamma radiation calculated by CDH.

GRAND JUNCTION VICINITY PROPERTIES
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 AUGUST 26, 1982

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SITE # EPA LOC #	PROPERTY LOCATION	GJRAP			RADIOLOGICAL STATUS					REMARKS
		Application	Eligible	Rem. Action	HOG (μ R/hr)	HIG (μ R/hr)	RGC (WL)	G. MAP	BPS	
GJ0018* 5031	2800 D Road (State Home and Training School)	Yes	No	No	112	8 (BG)	.017	Yes	No	Area of HOG on outside patio. Tailings indicated in yard-east of structures.
GJ0022* 13375	3023 F 1/2 Road	Yes	No	No	90	68 (19)	.015	Yes	No	GJRAP engineering assessment conducted-report on file. Tailings used in grout cap covering floor slabs; in exterior wall stucco; under patio; in flower beds, etc. House in poor state of repair. Estimated value approximately \$5,000 in 1974.
GJ0023 12861	3028 F Road	Yes	No	No	146	1400 (18)	.013	Yes	No	HIG - Pitch Blend in living room planter. Tailings on top of first front cellar to 146 μ R/hr.
GJ0026* 2749	3745 G 1/4 Road	Yes	No	No	40	34 (9)	.029	Yes	Yes	BPS indicate extensive construction and possible cleanup since Gamma map prepared.
GJ0030 409	2115 Grand Ave. (School Admn. Bldgs)				202	40	.012	Yes	Yes	HOG Measured along one side (exterior of maintenance building. BPS indicated cleanup around main office building. Contamination appears under & around buildings.
GJ0032* 12789	200 West Grand Ave. (Surplus City)	Yes	No	No	56	62	.023	Yes	No	
GJ0033 8742	2372 H Road				286	13 (BG)		Yes	No	HOG is in dirt floor of garage. Tailings in yard (spots) to 34 μ R/hr.
GJ0034 12188	1363 Hall Ave.				174	28 (6)	.007	Yes	No	General contamination over entire yard.
GJ0036 316	2428 Hall Ave.	Yes	No	No	230	22	.010	Yes	No	Apparently extensive contamination in yard and along foundation on one side of house.
GJ0038 3950	342 Hill Ave.				118	107 (14)		Yes	No	Contamination in rock work in front of structure and in front yard.
GJ0040 15660	2422 Highway U.S. 6 & 50 (formerly 2451)				286	342		No	Yes	Business apparently has radiation source(s). Survey teams unable to determine if residual contamination

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GRAND JUNCTION VICINITY PROPERTIES
CANDIDATES FOR DESIGNATION/REMEDIAL ACTION
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SITE # EPA LOC #	PROPERTY LOCATION	GJRAP			RADIOLOGICAL STATUS					REMARKS
		Application	Eligible	Rem. Action	HOG (μ R/hr)	HIG (μ R/hr)	RDC (wL)	G. MAP	BPS	
GJ0041 354	2886 Highway U.S. 6 & 24	Yes	No	No	140	90	.035	Yes	No	Elevated Gamma fields throughout the structure.
GJ0042* 4987	2956 Highway U.S. 6 & 24 (The Outdoors Man)	Yes	No	No	146	145	.026	Yes	Yes	Some cleanup of contamination under addition (new construction). HOG in driveway south of structure.
GJ0043* 14544	3203 Highway U.S. 6 & 24 (Untd Fruit Growers Coop)	Yes	No	No	140	45 (8)	.035	Yes	Yes	HIG along wall in vicinity of HOG source - HIG in storage area.
GJ0045* 300	2427 Highway U.S. 6 & 50	Yes	No	No	146	68 (18)	.024	Yes	Yes	HIG appears to be in 1966 addition to building (cinderblock wall construction) and in front yard.
GJ0047* 6898	1607 South Highway U.S. 50 (Army Surplus Store)				26	34	.025	Yes	No	CDH file incomplete. Apparently commercial complex (1603, 1607, 1609) of 3 businesses. RDC sampling in basement apartment. Contamination apparently confined to northwest corner of building.
GJ0048* 5092	2712 South Highway U.S. 50 (Service Station)	Yes	No	No	56	62 (34)	.022	Yes	No	HOG on surface of sidewalk along front of building. Contamination apparently over entire lot. HIG-surface measurement in office.
GJ0049* 5088	2976 South Highway U.S. 50	Yes	No	No	73	54	.026	Yes	Yes	HIG/RDC in front office; garage/work shop appears clean. BPS for adjacent property includes part of this lot.
GJ0050* 15	739 Horizon Drive (Hertz Mobil)	Yes	No	No	37	51 (25)	.029	Yes	Yes	HIG/RDC measurements in office.
GJ0051 11324	1236 Kennedy Ave. (Intermountain Bible College)	Yes	No	No	342	13	.006	Yes	No	Residence. HOG (surface measurement) and most of the tailings found in driveway. Structure apparently clean.
GJ0054 6063	820 Kimball Ave. (McKinney Electric)	Yes	No	No	31	18 (7)	.034	Yes	Yes	BPS indicates that some of the contamination in area of new construction (cinderblock storage buildings) removed, but should have little effect on RDC in office.

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SITE # EPA LOC #	PROPERTY LOCATION	GJRAP			RADIOLOGICAL STATUS					REMARKS
		Application	Eligible	Rem. Action	HOG (μ R/hr)	HIG (μ R/hr)	RDC (WL)	G. MAP	BPS	
GJ0056 5839 5834	Lincoln Park between North and Gunnison Aves. at 12th Street.	Yes	No	No	370	146	.027	Yes	No	RDC in pool concession dressing room and shower building. HOG on surface of golf course green. HIG in women's bathroom recorded in listing but not supported by Gamma maps.
GJ0058 894	1127 Main St.	Yes	No	No	23	96 (11)	.007	Yes	Yes Re- model	HIG in basement family room and in living room. Suspect tailings use in mortar for cinderblock wall and concrete patch in basement family room floor.
GJ0059* 897	1765 Main St. (Old World Meats)	Yes	No	No	68	79	.022	Yes	Yes	BPS in 1971, 1975 & 1977 suggest changes in radiological status.
GJ0062 488	2135 East Main St. (formerly Salt Lake Hardware)	Yes	No	No	230	62 (6)	.016	Yes	No	HOG along R.R. tracks on south side of building. Documents indicate tailings use in brick mortar and as backfill.
GJ0068 153 03142	735 North Ave.	Yes	No	No	17	73 (50)	.034	Yes	Yes	Comparison of 1970 gamma maps and 1973 gamma maps indicate tailings involvement during new construction or remodeling during that period. HIG - surface (floor) measurements in north half of building. RDC measurements made in 1975.
GJ0069 154 11644 11645	1121 North Ave. (1125 North Ave.) (Multiple Unit Structure)				34	118 (74)	.528	Yes	No	CDH attempts to get owner to apply for remedial action unsuccessful. Remodeling - combining 2 units into 1-done after gamma map was prepared.
GJ0070* 106	1210 North Ave. (Chevron Oil Company)	Yes	No	No	68	79	.032	Yes	No	HIG primarily in service station rest rooms.
GJ0073 4763	2814 North Ave. (Valspar Paint)				230	37 (9)	.013	Yes	Yes	HOG in vicinity of storage building in the rear of the property.

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GRAND JUNCTION VICINITY PROPERTIES
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SUMMARY-RADIOLOGICAL DATA
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SITE # EPA LOC #	PROPERTY LOCATION	GJRAP			RADIOLOGICAL STATUS					REMARKS
		Application	Eligible	Rem. Action	HOG (μ R/hr)	HIG (μ R/hr)	RDC (ML)	G. MAP	BPS	
GJ0074 10661	859 Ouray Ave.	Yes	No	No	454	34 (5)	.015	Yes	Yes	HOG--Hot clothesline pole. HIG in basement (office & study). Tailings suspected in patio and side walk south side of house.
GJ0078 4347	335 Pitkin Ave.				342			Yes	No	HOG--small spot in backyard. Tailings suspected in backyard and front sidewalk.
GJ0079 1938	415 Pitkin Ave.	Yes	No	No	314	65 (11)	.015	Yes	No	Contamination appears limited to gravel alley (west of building) and adjacent display area of building.
GJ0080 13483	2399 River Road				28	90 (4)		Yes	No	HIG on enclosed porch. HOG--small spot in yard.
GJ0081* 470	463 Rood Ave.					230		No	No	See GJ0057. Abandoned drive-up teller and tunnel complex. HIG in tunnel.
GJ0082* 140	544 Rood Ave. (Court House)	Yes	No	Yes			.033	Yes	Yes	BPS indicates some tailings removed. No attempt made to identify HOG & HIG from assorted Gamma Maps in CDH file.
GJ0083 10093	1840 Rood Ave.				1100	16 (86)		Yes	No	HOG at metal pipe fence post adjacent to house. Tailings suspected in yard. Gamma Map Incompleted.
GJ0084* 30484	830 West Rood Ave. (City Shop Building)	Yes	No	No	62	62 (29)	.027	Yes	No	Tailings apparently used in foundation of 40 ft x 10 ft addition to building. HOG in pipe storage area. HIG is surface measurement over most of the building.
GJ0085 6031	2508.5 Sandra Ave.				286	14		No	No	Tailings in yard only at end of drive in bricked planter.
GJ0087 10617	487 Sparrn Road	Yes	No	No	230	26 (7)	.006	Yes	No	HOG appears to be an isolated spot in southwest corner of yard. Tailings apparently over entire yard.

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GRAND JUNCTION VICINITY PROPERTIES
 CANDIDATES FOR DESIGNATION/REMEDIAL ACTION
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SITE # EPA LOC #	PROPERTY LOCATION	GJRAP			RADIOLOGICAL STATUS					REMARKS
		Application	Eligible	Rem. Action	HOG (μ R/hr)	HIG (μ R/hr)	RDC (WL)	G. MAP	BPS	
GJ0088* 169	806 South Ave. (Livran Electric Supply)	Yes	No	No	28	32 (7)	.026	Yes	No	Tailings involvement in foundation of approximately 1/2 of the building.
GJ0093 3881	1600 Ute Ave.	Yes	No	No	1000	342 (67)	.035	Yes	No	Gamma Map indicates core samples stored in building. Tailings involvement could not be identified.
GJ0094* 12121	225 Walnut Ave.	Yes	No	No	96	14 (8G)	.016	Yes	Yes	Extensive area of contamination in backyard and under garage is indicated.
GJ0097* 1038	622 White Ave. (Church)	Yes	No	No	20	51 (21)	.029	Yes	Yes	HIG in basement dining room.
GJ0098 9566	803 Winters Ave. (formerly 813 Winters) (Orkin Pest Control)	Yes	No	No	230	56 (12)	.021	Yes	No	Extensive contamination indicated over a large area to include adjacent properties to the south of Winters Ave.
GJ0099* GJ0100* 10796	1003 Winters Ave. 1005 Winters Ave.				73	34		Yes	Yes	Area is immediately north and adjacent to the old mill site. Comparison of Gamma Maps indicate some cleanup of contamination by owner. HIG and HOG from 1976 survey by CDH on property at 1005 Winters Ave.
GJ0101 447	931 North 1st St. (Sundance Motors)	Yes	No	No	73	90 (17)	.014	Yes	No	
GJ0102* 19571	1250 North 1st St. (formerly Boy's Club)	Yes	No	No	40				Yes	Several BPS on file. CDH personnel indicate very large buried deposit of tailings on the property. Apparently large draw was filled in preparation for construction of new building.
GJ0104* 471	702 South 9th St. (Steiner American Corp.)	Yes	No	No	27	45 (11)	.022	Yes	Yes	HIG in office.
GJ0105 02033	801 Fourth Ave.				56	1400 (7)		Yes	No	Radiation sources (ore) in building apparently in containers or on mining equipment.

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GRAND JUNCTION VICINITY PROPERTIES
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SITE # EPA LOC #	PROPERTY LOCATION	GJRAP			RADIOLOGICAL STATUS					REMARKS
		Application	Eligible	Rem. Action	HOG (μ R/hr)	HIG (μ R/hr)	RDC (WL)	G. MAP	BPS	
GJ0106* 9463	925 Fourth Ave. (Mesa County Hwy Dept.)	Yes	No	No	79	20	.030	Yes	No	HOG appears to be localized. However, contamination is evident over entire lot.
GJ0107 523 524	134 & 136 North 5th St. (Roper Music Company)				230	20		Yes	No	HOG on surface of sidewalk. Extensive contamination along sidewalk on 5th St. and Road Ave. HIG located in area adjacent to sidewalk on 5th st.
GJ0109* 6320 6369	313 & 315 North 7th St.	Yes	No	No	17	23 (7) (315 only)	.027	Yes (315 only)	Yes	Remodeled, two structures combined by breaking through common wall. Electrostatic precipitation installed.
GJ0114 426	803 South 7th St.				146 (EPA)	1700 (EPA)			Yes	BPS suggests removal of yellowcake and contaminated equipment found during initial survey. BPS indicates HIG = 32. CDH letter to owner indicates no tailings under or against the structure.
GJ0115 6318	825 South 7th St.				342 (EPA)					No data in CDH file. However, letter to owner indicates tailing on property away from structure.
GJ0116* 404	1111 South 7th St.	Yes	No	No	56	734 (18)	.029	Yes	No	HIG-ore samples. Tailings indicated under and around the building.
GJ0117 119	1727 North 8th St.				230	16		Yes	No	Gamma Map indicates extensive contamination in backyard, patio and garage.
GJ0118* 2655	631 South 9th St.	Yes	No	No	23 (EPA)	14 (8G) (EPA)	.022		Yes	BPS dated 4/8/74 indicates tailings removed from construction site. RDC measurements made 1978 and 1979.

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SITE # EPA LOC #	PROPERTY LOCATION	GJRAP			RADIOLOGICAL STATUS					REMARKS
		Application	Eligible	Rem. Action	HOG (μ R/hr)	HIG (μ R/hr)	RDC (WL)	G. MAP	BPS	
GJ0119 457	930 North 9th St.				45	90 (11)	.014	Yes	No	Tailings indicated under basement floor, under and outside foundation--backside of house.
GJ0120 461	940 South 10th St (Whitewater Bldg. Materials)	Yes	No	No	202	26	.021	Yes	Yes	BPS indicates cleanup by property owner in area of HOG. Gamma Map indicates building built in tailings.
GJ0122 6077	1230 North 12th St. (The Other Place)				566	14		Yes	Yes	BPS indicates no tailings under the structure. HOG and area of principal contamination on one side of building near remains of old garage.
GJ0124 18943	167 South 17th St. (West-Colorado Radio- Paging and Storage Rentals)				244			Yes	Yes	CDH file incomplete. Contamination apparently identified during 1980 BPS. Contamination identified in vicinity of storage unit #18. One other small area of contamination to 28 μ R/hr also contaminated.
GJ0125 112	1135 North 18th St. (Fire Department Station)	Yes	No	No	73	34 (18)	.031	Yes	No	Tailings identified under and around the building.
GJ0126 34247	2249 North 20th St.				1400				Yes	Contamination identified by 1977 BPS. BPS Gamma Map does not support HOG.
GJ0127 6815	1373 North 21st St.				286 (EPA)	13 (EPA)		No	No	CDH file incomplete. No Gamma Map to support findings. Tailings indicated in backyard only.
GJ0128 595	2236 North 21st St.	Yes	No	No	286	56 (5)	.009	Yes	No	HOG-surface measurement on covered patio. Extensive contamination indicated under and around the patio.

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SITE # EPA LOC #	PROPERTY LOCATION	GJRAP			RADIOLOGICAL STATUS					REMARKS
		Application	Eligible	Rem. Action	HOG (μ R/hr)	HIG (μ R/hr)	RDC (WL)	G. MAP	BPS	
GJ0129 607	1306 North 23rd St. (The Children's Corner) (School)	Yes	No	No	230	98 (7)	(BG)	Yes	No	HOG on surface of rock path along driveway. HIG in southwest corner of classroom along front of main building. Tailings were indicated under and around school.
GJ0131* N/A	28th St. & Grand Ave. (Grand Speedway (abandoned))									According to CDH personnel, this property contains the largest deposit of mill tailings away from the tailings pile. This property is also used by City authorities as a dumping ground for debris removed from public service construction sites such as street repair, water and sewer line repairs, etc. However, no data regarding the radiological status of this property was found in CDH files in Grand Junction.
GJ0132 13716	662 26 Road				90	112 (9)	.011	Yes	Yes	Tailings identified under patched concrete slab in basement, under the porch and back walkway, and along the northeast corner.
GJ0133* 192	287 27 Road	Yes	No	No	48	90 (24)	.028	Yes	Yes	Tailings under and around the structure. Tailings removed from loading dock area by owner.
GJ0134 9780	356 27 1/2 Road (formerly 360 27 1/2 Road)	Yes	No	No	622	140		Yes	Yes	Gamma Mon indicates approximately 4 truck loads of tailings dumped on this property. HOG is between building and the river.
GJ0135 9665	391 27 1/2 Road				342	16 (BG)		Yes	No	Tailings indicated in yard and garage.

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		Application	Eligible	Rem. Action	HOG (μ R/hr)	HIG (μ R/hr)	RDC (ML)	G. MAP	BPS	
GJ0136 12746	588.5 29 Road	Yes	No	No	286	20 (BG)	.007	Yes	Yes	Tailings as backfill against north and west foundation of house. HOG appears to be isolated spot. Other surface measurements 110 or less. Extensive cleanup by owner indicated.
GJ0137 13460	716 29 1/2 Road				230	16 (BG)		Yes	Yes	Tailings indicated under front porch and in front yard and driveway. Owner put tailings and ore as fill in driveway. Not interested in G.JRAP. BPS indicated partial removal of tailings from front yard.
GJ0139 175	2555 North Ave. (McDonald's Restaurant)	Yes	No	No	62	68	.022	Yes	Yes	Extensive tailings removed by owner prior to construction of addition to building. However, tailings to depths of up to 10 feet remain under original building.
GJ0140 467	606 South 9th St. (Colorado Highway Dept.)	Yes	No	No	40	54	.034	Yes	No	Contamination appears concentrated under and around section of building used as office space.

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